









INSTALLATION EDITION 1

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INSTALLATION

Amplifiers Multi-zone matrix amplifiers Multi-zone mixing amplifiers Mixing amplifiers Multi-channel amplifiers	Power amplifiers Stereo mixing amplifiers Mono mixing amplifiers Accessories
Audio Players	
Signal Processing	Signal optimisation Volume controls Accessories
Voice Alarm Systems	
Flush-mount speakers Wall and ceiling speakers Column speakers Speaker systems PA systems	
Wireless Transmission	I131–I133
Audio Streaming Dante®	I134–I139
Conference Technology Intercommunication Wireless systems Accessories	Lecterns Microphones
Desktop Microphones	1159–1164
Audio Induction Loop Systems . Systems	I165–I167

MONACOR INTERNATIONAL INSTALLATION 11



Order No. 0173220



4-zone mono mixing amplifier, with 4 active 120 W outputs,

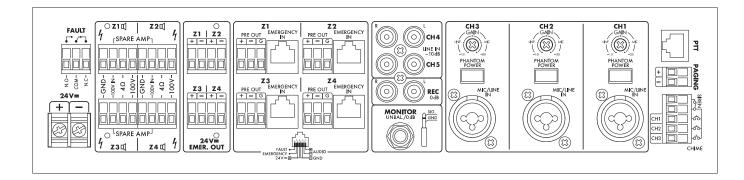
for setting up a multi-zone PA system. A switch allows each of the 5 inputs to be assigned to one of the 4 outputs. Thus, it is possible to reproduce varying programmes in different areas. Another advantage is that an announcement in one area will not interrupt the programme in another area.

With optional zone-paging microphone PA-4000RC, the amplifier can be extended to a 4-channel PA system. In combination with the fireman's microphone PA-4000FMP with integrated voice memory, e.g. an alarm system can be set up in schools.

- 4 x 120 W
- 4 zones, can be controlled individually

- 3 mic/line inputs and 2 line inputs
- Built-in adjustable monitor speaker
- Chime and siren can also be activated via external momentary push-button
- Bass, treble and master controls, level display via LEDs, regulated fan
- 15 V phantom power for electret microphones
- Connection for microphone PA-4000PTT
- Optional connection for up to 32 zone paging microphones PA-4000RC
- Connections for 4 x PA fireman's microphone PA-4000FMP
- Mains operation and 24 V emergency power operation

Model	PA-40120
Peak output power	4 x 170 W
Power rating	4 x 120 W
Inputs	2.5 mV/5 kΩ, 0.3 V/15 kΩ (mic/
	line 1-3),
	0.3 V/15 kΩ (line 4-5)
Frequency range	45-20,000 Hz
Equalizer bass	± 10 dB/100 Hz
Equalizer treble	± 10 dB/10 kHz
S/N ratio	> 70 dBA (mic),
	> 90 dBA (line)
THD	< 1%
Power supply	~ 230 V/50 Hz/1,500 VA,
	= 24 V/40 A
Dimensions	482 x 90 x 377 mm, 2 RS
Weight	22.1 kg



PA-4000RC

Order No. 0236010

PA 4-zone paging desktop microphone, for PA-40120 and PA-6040MPX.

- Selection buttons for 4 zones, for activating one or several zones
- ALL-CALL button for activating all of the 4 zones
- Autom. chime via microphone announcement button (talk)
- Chime can be activated or deactivated as required
- 24 V power supply via PA-40120 or PA-6040MPX
- Two RJ45 jacks for connection to PA-40120, PA-6040MPX or optional power supply and additional microphones PA-4000RC
- Supplied with connection module for PA-40120 and PA-6040MPX
- Up to 32 x PA-4000RC can be connected to PA-40120 or PA-6040MPX via bus
- Supplied with 3 m connection cable (Cat. 5e)



PA-M224

Order No. 0179280



2-zone PA matrix mixing amplifier

- 240 W per zone
- 2 zones, can be controlled individually, with 2-way tone control
- Class D concept with a high efficiency to cut energy costs
- 4 adjustable mic/line inputs with 3-way equalizer and 24 V phantom power, to be activated as required
- 4 adjustable line inputs
- Mute function for muting individual zones
- Connection for external mute switch (all zones simultaneously)



- Talkover (channel 1)
- Adjustable monitor function
- 1 connection for zone paging microphone PA-M4RC
- 2 connections for wall module PA-M1WP
- 482 mm (19") rack installation

Modes Mc	ZONE 2 WALL MODULE INT SPACER FASTER WALL MODULE	WALL MODULE UNK O + O G 4 SPEAKER	To compare the com	CHANNEL 8	CHANNEL 6	CHANNEL 5	CHANNEL 4	CHANNEL 3 -Victory and The Company of the Company	CHANNEL 2	CHANNEL 1 OR OFF CHANNEL 1 OR OFF CHANNEL 2 O
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Model	PA-M224
Peak output power	2 x 290 W
Power rating	2 x 240 W
Inputs	2.5 mV/20 kΩ (mic),
	2 V/20 kΩ (line)
Frequency range	20-20,000 Hz
Equalizer bass	±12 dB/80 Hz (channels 1-4)
	±15 dB/80 Hz (zones 1-4)
Equalizer midrange	±12 dB/2.5 kHz (channels 1-4)
Equalizer treble	±12 dB/12.5 kHz (channels 1-4)
	±15 dB/12 kHz (zones 1-4)
S/N ratio	> 70 dB
THD	< 0.1%
Power supply	~ 230 V/50 Hz/800 VA
Dimensions	482 x 88 x 320 mm, 2 RS
Weight	5.7 kg

PA-M412

Order No. 0179290



4-zone PA matrix mixing amplifier

- 120 W per zone
- 4 zones, can be controlled individually with 2-way tone control
- Class D concept with a high efficiency to cut energy costs
- 4 adjustable mic/line inputs with 3-way equalizer and 24 V phantom power, to be activated as required
- 4 adjustable line inputs
- Mute function for muting individual zones
- Connection for external mute switch (all zones simultaneously)



- Talkover (channel 1)
- Adjustable monitor function
- 1 connection for zone paging microphone PA-M4RC
- 4 connections for wall module PA-M1WP
- 482 mm (19") rack installation

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		ZONE 4	ZONE 3	ZONE 2	ZONE 1		CHANNEL 8	CHANNEL 7	CHANNEL 6	CHANNEL 5	CHANNEL 4	CHANNEL 3	CHANNEL 2	CHANNEL 1
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Model	PA-M412
Peak output power	4 x 170 W
Power rating	4 x 120 W
Inputs	2.5 mV/20 kΩ (mic),
	2 V/20 kΩ (line)
Frequency range	20-20,000 Hz
Equalizer bass	±12 dB/80 Hz (channels 1-4)
	±15 dB/80 Hz (zones 1-4)
Equalizer midrange	±12 dB/2.5 kHz (channels 1-4)
Equalizer treble	±12 dB/12.5 kHz (channels 1-4)
	±15 dB/12 kHz (zones 1-4)
S/N ratio	> 70 dB
THD	< 0.1%
Power supply	~ 230 V/50 Hz/860 VA
Dimensions	482 x 88 x 320 mm, 2 RS
Weight	6.2 kg

PA-M1WP

Order No. 0179300

Wall module, for local insertion of audio signals to PA matrix mixing amplifier PA-M224 or PA-M412.

- Intended application: volume control of respective zone, local insertion of audio signals
- 2 x RCA jack for line signals
- Microphone connection via 3-pole XLR jack
- 14 V phantom power, to be activated as required
- Volume control
- Signal selector button with LED indication which allows a priority circuit



of locally inserted audio signals (MIC or LINE) in the respective zone

- Connection to PA-M224 or PA-M412 and power supply via RJ45 jack and Cat. 5 network cable (copper, supplied w/o cable), for cable lengths up to 200 m
- Matching flush-mounted housing ATT-300C is available at option

PA-M4RC

Order No. 0179310

PA zone paging microphone, for PA matrix mixing amplifier PA-M224 or PA-M412.

- 4 zone selector switch
- ALL-CALL button
- Plug-in electret gooseneck microphone (3-pole XLR jack)
- Phantom power for gooseneck microphone
- LED indication for signal status
- Power supply via PA-M224 or PA-M412
- Connection to PA-M224 or PA-M412 via RJ45 jack and Cat. 5e network



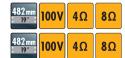
cable (copper, supplied w/o cable), for cable lengths up to 200 m

MONACOR INTERNATIONAL INSTALLATION



PA-12040 Order No. 0173390 PA-4040

Order No. 0172520

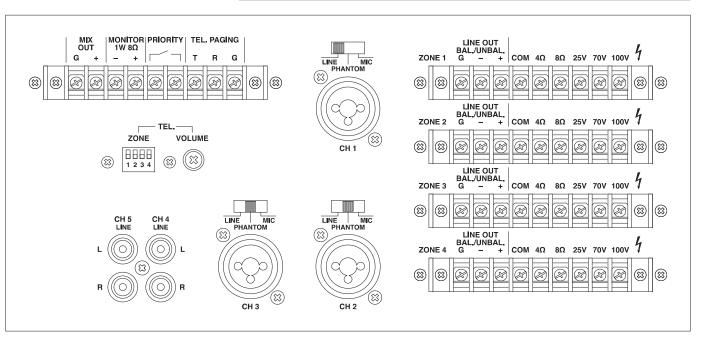


4-zone matrix mixing amplifiers, with professional features for general multi-room PA applications.

- 120 W per zone (PA-12040)
- 40 W per zone (PA-4040)
- 100 V and 4/8 Ω operation
- Perfect utilisation of the capacity and reliable protection of connected speakers due to an integrated limiter
- 3 inputs microphone/line via comb. jacks
- 2 inputs line stereo via RCA jacks
- Each input channel with gain control, 2-way tone control, channel mute switch and zone routing switch
- Microphone inputs with phantom power, to be activated as required (PA-12040: 46 V, PA-4040: 15 V)
- Priority function for channel 1, switchable
- Independent paging input, can be routed to all zones
- 4 zone outputs, can be controlled individually
- Zone and monitor line outputs for additional amplifiers or recorders

- Connection for monitor speakers
- Level control via VU meters for zone and monitor
- Adjustable headphone output
- Fan cooling
- 230 V mains operation

Model	PA-12040	PA-4040
Peak output power	4 x 170 W	4 x 65 W
Power rating	4 x 120 W	4 x 40 W
Inputs	5 mV/4 kΩ, 100 mV/10 kΩ (mic/line)	5 mV/4 kΩ, 100 mV/10 kΩ (mic/line),
	100 mV/30 kΩ (line)	100 mV/30 kΩ (line)
	40 mV/5 kΩ (tel. paging)	
Frequency range	50-17,000 Hz	50-17,000 Hz
Equalizer bass	± 10 dB/100 Hz	± 10 dB/100 Hz
Equalizer treble	± 10 dB/10 kHz	± 10 dB/10 kHz
S/N ratio	> 65 dB, mic	> 65 dB (mic),
	> 75 dB, line	> 75 dB (line)
THD	< 1%	< 1%
Power supply	~ 230 V/50 Hz/1,200 VA	~ 230 V/50 Hz/450 VA
Dimensions	482 x 133 x 410 mm, 3 RS	482 x 133 x 310 mm, 3 RS
Weight	20.5 kg	15 kg



PA-6020Z

Order No. 1000126

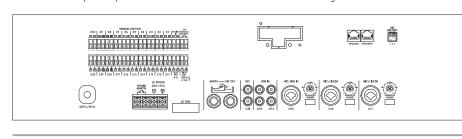


20-zone mono PA mixing amplifier

- 1 x 600 W
- 20 zones, can be controlled individually
- 3 inputs microphone/line via comb. jacks
- 2 inputs stereo line via RCA jacks
- Chime, continuous sound and wailing sound, autom. mute, 2-tone chime or 4-tone chime (selectable)
- Bass, treble and master controls, LEDs for indicating signal/clip, regulated fan
- Insertions for various functions are available at option
- 15 V phantom power for electret microphones
- Connection for up to 32 x zone paging microphone PA-2400RC
- Connection for up to 3 x push-to-talk mic. PA-4300PTT



- Alarm announcement with insertion PA-1120DMT (available at option)
- Mains operation and 24 V emergency power operation
- Removable mounting brackets



Model	PA-6020Z
Power rating	600 W
Power rating at 100 V	600 W
Inputs	2.5 mV/5 kΩ, 0.3 V/5 kΩ (mic/
	line 1-3),
	0.3 V/15 kΩ (line 4-5),
	0.775 V/100 kΩ (preamplifier)
Frequency range	55-16,000 Hz
Equalizer bass	±10 dB/100 Hz
Equalizer treble	±10 dB/10 kHz
S/N ratio	> 70 dB (mic),
	> 80 dB (line)
THD	< 1%
Power supply	~ 230 V/50 Hz/1,700 VA,
	24 V/50 A
Dimensions	482 x 133 x 352 mm, 3 RS
Weight	21 kg

PA-6010Z

Order No. 1000125

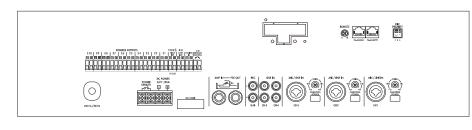


10-zone mono PA mixing amplifier

- 1 x 600 W
- 10 zones, can be controlled individually
- 3 inputs microphone/line via comb. jacks
- 2 inputs stereo line via RCA jacks
- Chime, continuous sound and wailing sound, autom. mute, 2-tone chime or 4-tone chime (selectable)
- Bass, treble and master controls, LEDs for indicating signal/clip, regulated fan
- Insertions for various functions are available at option
- 15 V phantom power for electret microphones
- Connection for up to 32 x zone paging mic. PA-2400RC
- Connection for up to 3 x push-to-talk microphone PA-4300PTT



- Alarm announcement with insertion PA-1120DMT (available at option)
- Mains operation and 24 V emergency power operation
- Removable mounting brackets



Model	PA-6010Z
Power rating	600 W
Power rating at 100 V	600 W
Inputs	2.5 mV/5 kΩ, 0.3 V/5 kΩ (mic/
	line 1-3),
	0.3 V/15 kΩ (line 4-5),
	0.775 V/100 kΩ (preamplifier)
Frequency range	55-16,000 Hz
Equalizer bass	±10 dB/100 Hz
Equalizer treble	±10 dB/10 kHz
S/N ratio	> 70 dB (mic),
	> 80 dB (line)
THD	< 1%
Power supply	~ 230 V/50 Hz/1,700 VA,
	24 V/50 A
Dimensions	482 x 133 x 352 mm, 3 RS
Weight	22 kg

PA-2400RC

Order No. 0236840

PA zone paging desktop microphone, for connection to PA-1120, PA-1240, PA-2420Z, PA-6010Z

connection to PA-1120, PA-1240, PA-24202, PA-6010. or PA-6020Z.

- Selection buttons for speaker zones 1-20
- Start/stop function for 6 selectable announcements which are stored in the digital module PA-1120DMT, available at option
- LED indication for various functions
- Automatic chime via microphone announcement button
- Adjustable microphone sensitivity
- 24 V power supply via PA-2410Z, PA-2420Z
- RJ45 jacks for connection to additional PA-2400RC with slave/priority switch
- Up to 3 x PA-2400RC can be connected to PA-2410Z or PA-2420Z
- Supplied with 3 m connection cable (Cat. 5e)



MONACOR INTERNATIONAL INSTALLATION

PA-6240 Order No. 0172180

PA-6480 Order No. 0172190

Order No. 0172190 **PA-6600**Order No. 0172390

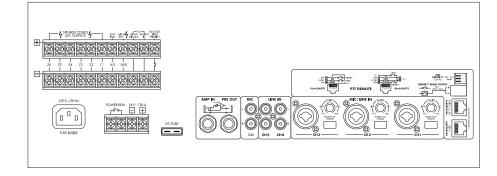


6-zone mono PA mixing amplifiers

- 1 x 240 W (PA-6240)
- 1 x 480 W (PA-6480)
- 1 x 600 W (PA-6600)
- 6 zones, can be controlled individually
- Chime, continuous sound and wailing sound, automatic mute, 2-tone chime or 4-tone chime (selectable)
- Bass, treble and master controls, level display via LEDs, regulated fan
- Insertions for various functions are available at option
- 17 V phantom power for electret microphones
- Connection for zone paging microphone PA-6000RC
- 1 insertion compartment at the front for automatic alarm message insertion PA-1120DMT, a tuner insertion or a CD player insertion, all available at option
- 3 insertion facilities on the rear panel for optional modules with the following features:
 - PA-6FD: fault detection
- PA-6FM: fault monitoring
- PA-6FR: anti-feedback
- Mains operation and 24 V emergency power operation
- Removable mounting brackets



Model	PA-6240	PA-6480	PA-6600
Peak output power	340 W	680 W	850 W
Power rating	240 W	480 W	600 W
Inputs	2.5 mV/5 kΩ, 0.3 V/5 kΩ (mic/line),	2.5 mV/5 kΩ, 0.3 V/5 kΩ (mic/line),	2.5 mV/5 kΩ, 0.3 V/5 kΩ (mic/line),
	0.3 V/15 kΩ (line),	0.3 V/15 kΩ (line),	0.3 V/15 kΩ (line),
	0,775 V/10 kΩ (preamplifier)	0.775 V/10 kΩ (preamplifier)	0.775 V/10 kΩ (preamplifier)
Frequency range	55-16,000 Hz	55-16,000 Hz	55-16,000 Hz
Equalizer bass	± 10 dB/100 Hz	± 10 dB/100 Hz	± 10 dB/100 Hz
Equalizer treble	± 10 dB/10 kHz	± 10 dB/10 kHz	± 10 dB/10 kHz
S/N ratio	> 70 dBA (mic),	> 70 dBA (mic),	> 70 dBA (mic),
	> 80 dBA (line)	> 80 dBA (line)	> 80 dBA (line)
THD	< 1%	< 1%	< 1%
Power supply	~230 V/50 Hz/750 VA,	~ 230 V/50 Hz/1,500 VA,	~ 230 V/50 Hz/1,700 VA,
	= 24 V/20 A	= 24 V/40 A	= 24 V/50 A
Dimensions	430 x 133 x 352 mm, 3 RS	430 x 133 x 352 mm, 3 RS	430 x 133 x 352 mm, 3 RS
Weight	15 kg	19 kg	20 kg



PA-6FD

Order No. 0172300

Fault detection module

- For PA amplifiers PA-6240, PA-6480, PA-6600 and PA-1960
- Module transmits a 20 kHz pilot tone in order to monitor functions of the PA amplifier
- In case of a fault, a floating relay contact will be opened
- Adjustable sensitivity



PA-6FR

Order No. 0172320

Anti-feedback module, for PA amplifiers PA-6240, PA-6480 and PA-6600. Module uses the frequency shift method. Only affects mic 1.



PA-6FM

Order No. 0172310

Fault monitoring module, for PA amplifiers PA-6240, PA-6480, PA-6600 and PA-1960.

- Indication of mains voltage failure and operating voltage failure
- Indication in case of fan failure
- 3 independent, floating relay outputs (NO/NC)



PA-1120 Order No. 0170780

PA-1240 Order No. 0170790



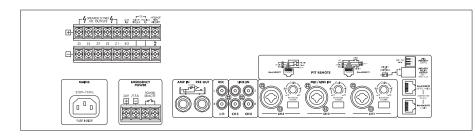
5-zone mono PA mixing amplifiers

- 1 x 120 W (PA-1120)
- 1 x 240 W (PA-1240)
- 5 zones, can be controlled individually
- Chime, continuous sound and wailing sound, automatic mute, 2-tone chime or 4-tone chime (selectable)
- Bass, treble and master controls, level display via LEDs, regulated fan
- Insertions for various functions are available at option
- 17 V phantom power for electret microphones
- Connection for zone paging microphone PA-1120RC (available at option)
- Connection for push-to-talk microphone PA-4000PTT or PA-4300PTT



- Automatic alarm announcement with insertion PA-1120DMT (available at option)
- Mains operation and 24 V emergency power operation
- Removable mounting brackets

Model	PA-1120	PA-1240
Peak output power	170 W	340 W
Power rating	120 W	240 W
Inputs	2.5 mV/5 kΩ,	2.5 mV/5 kΩ,
	0.3 V/5 kΩ (mic/line),	0.3 V/5 kΩ (mic/line),
	0.3 V/15 kΩ (line),	0.3 V/15 kΩ (line),
	0.775 V/10 kΩ	0.775 V/10 kΩ
	(preamplifier)	(preamplifier)
Frequency range	55-16,000 Hz	55-16,000 Hz
Equalizer bass	± 10 dB/100 Hz	± 10 dB/100 Hz
Equalizer treble	\pm 10 dB/10 kHz	\pm 10 dB/10 kHz
S/N ratio	> 70 dBA (mic),	> 70 dBA (mic),
	> 80 dBA (line)	> 80 dBA (line)
THD	< 1%	< 1%
Power supply	~ 230 V/50 Hz/340 VA,	~ 230 V/50 Hz/630 VA,
	= 24 V/15 A	= 24 V/27 A
Dimensions	482 x 133 x 352 mm,	482 x 133 x 352 mm,
	3 RS	3 RS
Weight	13 kg	14 kg



PA-5240 Order No. 0243140 PA-5480

Order No. 0243150



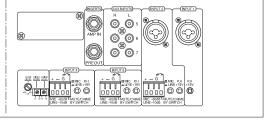
5-zone mono PA mixing amplifiers

- 1 x 240 W (PA-5240)
- 1 x 480 W (PA-5480)
- 5 zones, can be controlled individually
- Chime, wailing sound, automatic mute, chime and siren can also be activated via external momentary push-button, 2-tone chime or 4-tone chime (selectable)
- Bass, treble and master controls, level display via LEDs, regulated fan
- Insertions for various functions are available at option
- 18 V phantom power for electret microphones
- Connection for desktop microphone PA-5000PTT
- Alarm announcement with insertion PA-1120DMT (available at option)



- Mains operation and 24 V emergency power operation
- Removable mounting brackets

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Model	PA-5240	PA-5480
Peak output power	340 W	680 W
Power rating	240 W	480 W
Power rating at 8 Ω	1 x 240	1 x 480 W
Power rating at 100 V	240 W	480 W
Inputs	2.5 mV/2 kΩ (mic 1),	2.5 mV/2 kΩ (mic 1),
	2.5 mV/2 kΩ,	2.5 mV/2 kΩ,
	0.3 V/200 kΩ (mic/	0.3 V/200 kΩ (mic/
	line 2-4),	line 2-4),
	0.3 V/5 kΩ (line 5-7),	0.3 V/5 kΩ (line 5-7),
	0.775 V/10 kΩ	0.775 V/10 kΩ
	(preamplifier)	(preamplifier)
Frequency range	55-16,000 Hz	55-16,000 Hz
Equalizer bass	± 10 dB/100 Hz	± 10 dB/100 Hz
Equalizer treble	\pm 10 dB/10 kHz	\pm 10 dB/10 kHz
S/N ratio	> 70 dB (mic),	> 70 dB (mic),
	> 80 dB (line)	> 80 dB (line)
THD	< 1%	< 1%
Power supply	~ 230 V/50 Hz/750 VA,	~ 230 V/50 Hz/1,500 V
	= 24 V/20 A	- 24 V/40 A
Dimensions	482 x 133 x 352 mm,	482 x 133 x 352 mm,
	3 RS	3 RS
Weight	16 kg	17 kg

MONACOR INTERNATIONAL INSTALLATION 17

PA-6000RC

Order No. 0235370

PA zone paging desktop microphone, for connection to PA-6240, PA-6480 and PA-6600.

- Push-buttons for selecting speaker zones 1-6 and ALL-CALL function
- Start/pause function for 6 selectable announcements which are stored in the digital module PA-1120DMT
- Autom. chime via microphone announcement button
- Adjustable line input (RCA L/R) for connection of a signal source, e.g. CD player or tape deck
- · LED indication for transmission mode
- Power supply via PA-6240, PA-6480, PA-6600
- RJ45 jack for connection to additional PA-6000RC microphones with slave/priority switch
- Supplied with connection module for PA-6240, PA-6480 and PA-6600



PA-1120RC

Order No. 0232440

PA zone paging desktop microphone, for connection to PA-1120 and PA-1240.

- Push-buttons for selecting speaker zones 1-5 and ALL-CALL function
- Start/pause function for 6 selectable announcements which are stored in the digital module PA-1120DMT
- Adjustable line input (RCA L/R) for connection of a signal source, e.g. CD player or tape deck
- LED indication for transmission mode

- Autom. chime via microphone announcement button
- Power supply via PA-1120, PA-1240
- RJ45 jacks for connection to additional PA-1120RC microphones with slave/priority switch
- Supplied with connection module for PA-1120 and PA-1240



PA-5000PTT

Order No. 0233260

PA desktop microphone (push-to-talk), e.g. for connection to PA-5240, PA-5480.

- Push-to-talk button with switching contact for activating the chime at the amplifier
- Connection via screw terminal
- Output for priority function



PA-4000PTT

Order No. 0236000

PA desktop microphone (push-to-talk), for connection to PA-40120 or PA-1120, PA-1240, PA-1414MX and the PA-6000 series.

- Automatic chime via microphone announcement button (talk)
- Chime can be activated and deactivated as required
- Power supply via connected amplifiers
- RJ45 jack for connection to suitable amplifiers
- Supplied with 3 m connection cable (Cat. 5e)
- 7-pole DIN jack for connection to suitable amplifiers

1 x PA-4000PTT only can be connected to each amplifier



PA-4300PTT

Order No. 0230980

PA desktop microphone (push-to-talk), for connection to PA-1120, PA-1240, PA-2420Z, PA-6010Z or PA-6020Z

- Automatic chime via microphone announcement button (talk)
- Chime can be activated or deactivated as required
- LED indication for talk and busy
- Power supply via connected amplifier

 RJ45 jack for connecting additional PA-4300PTT with slave/priority switch

3 x PA-4300PTT can be connected to each amplifier



PA-312DMP

Order No. 017298

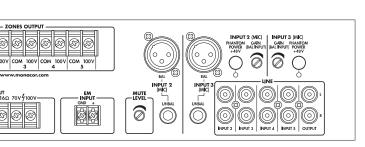


5-zone mono PA mixing amplifier, with integrated MP3 player.

- 1 x 120 W
- Adjustable MP3 player with USB interface, illuminated display, supplied with remote control
- Autostart function (after switching on the amplifier, MP3 player starts with the last played song)
- 5 zones, can be switched individually
- 1 unbalanced microphone input
- 2 balanced microphone inputs, can optionally also be used as line inputs
- 2 aux inputs
- 1 emergency input with adjustable automatic talkover
- Speaker outputs via screw terminals
- 1 line output



- Input and output level controls
- 2-way tone control for the output
- 48 V phantom power supply for channels 2 and 3, to be activated as required
- 482 mm (19") rack installation



Model	PA-312DMP	
Peak output power	160 W	
Power rating	120 W	
Inputs	5 mV/600 Ω (XLR, bal., mic),	
	2.5 mV/2 kΩ (6.3 mm jack, mic),	
	775 mV/10 kΩ (line),	
	350 mV/10 kΩ (aux),	
	775 mV/10 kΩ (EMC, telephone)	
Frequency range	50-16,000 Hz	
Equalizer bass	± 10 dB/100 Hz	
Equalizer treble	± 10 dB/10 kHz	
S/N ratio	66 dB (mic)	
	80 dB (aux)	
THD	< 0.5%	
Power supply	~ 230 V/50 Hz/420 VA	
Dimensions	482 x 88 x 335 mm, 2 RS	
Weight	9.2 kg	

PA-1200

Order No. 0170710

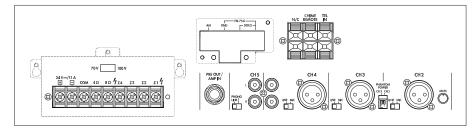


4-zone mono PA mixing amplifier

- 1 x 120 W
- Silent operation due to fanless cooling concept
- Chime, continuous sound and wailing sound, automatic mute, chime can also be activated via external momentary push-button, 2-tone chime or 4-tone chime (selectable)
- Bass, treble and master controls, level display via LEDs
- \bullet 15 V phantom power for channels 2 and 3
- Insertions for various functions are available at option
- 482 mm (19") rack installation with mounting frame PA-1200RM, available at option



Mains operation and 24 V emergency power operation



Model	PA-1200
Peak output power	170 W
Power rating	120 W
Inputs	1.5 mV/600 Ω (mic),
	150 mV/47 kΩ (line),
	1 mV/47 kΩ (phono)
Frequency range	80-15,000 Hz
Equalizer bass	± 10 dB/100 Hz
Equalizer treble	± 10 dB/10 kHz
S/N ratio	> 60 dB (mic),
	> 70 dB (line)
THD	< 1%
Power supply	~ 230 V/50 Hz/280 VA,
	= 24 V/11 A
Dimensions	420 x 122 x 350 mm
Weight	12.28 kg

PA-1200RM

Order No. 0126740



Mounting frame, for installation of PA mixing amplifier PA-1200 into a 482 mm (19") rack, black lacquered.

Inside dimensions: 420 x 290 mm, 3 RS



PA-24FMM

Order No. 0174660

Insertion module for emergency announcements, with integrated voice memory.

- \bullet For PA mixing amplifiers with insertion compartment
- Hand-held microphone with operational monitoring
- Alarm input for activation
- Integrated digital voice memory (60 seconds max.) with microphone input or line input for recording messages
- Automatic reproduction possible of a previously recorded voice message
- Siren emits an acoustic signal for 10 seconds when alarm is triggered
- Adjustable headphone connection



PA-1140RCD

Order No. 0173530



RDS tuner/CD player insertion with USB

interface, for PA mixing amplifiers with insertion compartment at the front.

- USB flash drives can be connected directly FM/AM tuner section:
- RDS function for FM
- 24 station presets (18 x FM, 6 x AM)
- Digital display
- Station scanning

CD player section:

- Anti-shock system
- Slot-in mechanism
- Random play, scan and repeat functions
- Display of track/time
- Shock-proof due to oil shock absorber
- Audio CD/CD-R/CD-RW/MP3 CD



PA-1200RDSU

Order No. 0175030



FM/AM RDS tuner insertion with USB interface,

for PA mixing amplifiers with insertion compartment.

- RDS function for FM
- 24 station presets (FM: 3 x 6, AM: 1 x 6)
- Station scanning
- USB storage media can be connected directly
- Reproduction of MP3 files and WMA files
- Display of file name
- Easy folder navigation

- Alphanumerical LCD
 Autorestart after power failure
- Memory for settings and operating modes



PA-1120DMT

Order No. 0174580



Digital message and timer insertion, for PA mixing amplifiers with insertion compartment.

- Backlit DOT matrix display with 2 x 8 digits
- DCF77 synchronised clock (radio-controlled clock) for time-controlled announcements
- Internal memory for up to 26 audio files
- Audio files can be copied to the internal memory via integrated micro SD card reader
- 6 memory recall buttons, memory presets can also be accessed via zone paging microphone PA-1120RC or PA-6000RC and PA-1120DMT
- 3.5 mm connection on the front panel for picking up microphone signals or line signals
- Up to 20 daily events can be programmed



Order No. 0248160



Dual module extension, for all insertion modules of the PA series.

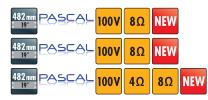
- For accepting up to 2 insertions
- XLR connection
- Mains operation or 24 V emergency power operation
- 482 mm (19") rack installation with fitted mounting
- Dimensions without brackets: 425 x 88 x 380 mm, 2 RS
- Weight: 4.5 kg



PA-914D Order No. 1000143

PA-928D Order No. 1000146

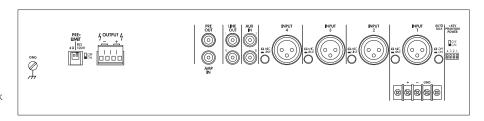
PA-9100D Order No. 1000149



Mono class D PA mixing amplifier

- 1 x 140 W (PA-914D)
- 1 x 280 W (PA-928D)
- 1 x 1,000 W (PA-9100D)
- Class D concept with PASCAL amplifier module
- Energy-efficient concept due to high efficiency
- Lightweight design due to compact switch-mode power supply
- Silent operation due to fanless cooling concept
- 4 balanced mic/line inputs
- Mic 1 with priority circuit and automatic talkover
- Additional connection for desktop microphone via screw terminal
- 1 aux input
- Speaker outputs via screw terminals
- Line output
- Insert facility, e.g. for effect units, equalizers, feedback controllers
- Input level control and output level control
- 2-way tone control for the output
- 48 V phantom power for each microphone input, to be activated individually
- \bullet Limiter switch: 8 $\Omega/100~\text{V}$
- Removable mounting brackets





Model	PA-914D	PA-928D	PA-9100D
Power rating	140 W	280 W	1,000 W
Power rating at 8 Ω	140 W	280 W	1,000 W
Power rating at 100 V	140 W/66 Ω	280 W/33 Ω	1000 W/9.2 Ω
Output impedance	8Ω	8Ω	4-8 Ω
Inputs	3 mV (mic),	3 mV (mic),	3 mV (mic),
	200 mV (line),	200 mV (line),	200 mV (line),
	140 mV (aux)	140 mV (aux)	140 mV (aux)
Frequency range	20-20,000 Hz	20-20,000 Hz	20-20,000 Hz
Equalizer bass	± 10 dB/100 Hz	± 10 dB/100 Hz	± 10 dB/100 Hz
Equalizer treble	± 10 dB/10 kHz	± 10 dB/10 kHz	± 10 dB/10 kHz
S/N ratio	> 80 dB	> 80 dB	> 80 dB
THD	< 0.1%	< 0.1%	< 0.1%
Power supply	~ 90-230 V/50-60 Hz/160 VA	~ 90-230 V/50-60 Hz/300 VA	~ 90-230 V/50-60 Hz/1,100 VA
Dimensions	482 x 88 x 275 mm, 2 RS	482 x 88 x 275 mm, 2 RS	482 x 88 x 275 mm, 2 RS
Weight	5 kg	5 kg	5.3 kg

PA-948

Order No. 0175070









Mono PA mixing amplifier

- 1 x 480 W
- 4 balanced microphone inputs and line inputs with selectable priority
- 4 stereo line inputs
- Speaker outputs via screw terminals
- Balanced line output
- Record output
- Insert facility, e.g. for effect units, equalizers, feedback
- 2-tone or 4-tone chime, can be activated externally
- Input level control and output level control
- 2-way tone control for the output
- Switchable 48 V phantom power for microphone inputs



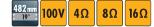
- Temperature-controlled fan
- Mains operation or 24 V emergency power operation
- Removable mounting brackets

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Model	PA-948
Peak output power	680 W
Power rating	480 W
Inputs	2.5-100 mV (mic),
	350 mV (line)
Frequency range	50-16,000 Hz
Equalizer bass	± 10 dB/100 Hz
Equalizer treble	± 10 dB/10 kHz
S/N ratio	> 75 dB
THD	< 0.1%
Power supply	~ 230 V/50 Hz/1,090 VA,
	24 V/27 A
Dimensions	482 x 137 x 395 mm, 3 RS
Weight	19 kg

INSTALLATION **MONACOR INTERNATIONAL**

Order No. 0175060



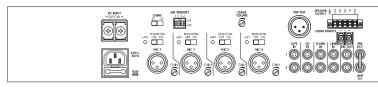
Mono PA mixing amplifier

- 1 x 240 W
- 4 balanced microphone inputs and line inputs with selectable priority
- 4 stereo line inputs
- Speaker outputs via screw terminals
- Balanced line output
- Record output
- Insert facility, e.g. for effect units, equalizers, feedback controllers
- 2-tone or 4-tone chime, can be activated externally
- Input level control and output level control



- 2-way tone control for the output
- Switchable 48 V phantom power for microphone inputs
- Temperature-controlled fan
- Mains operation or 24 V emergency power operation
- Removable mounting brackets

340 W 240 W
3 F 100 \/ /:-\
2.5-100 mV (mic),
350 mV (line)
50-16,000 Hz
± 10 dB/100 Hz
± 10 dB/10 kHz
> 75 dB
< 0.1%
~ 230 V/50 Hz/640 VA,
= 24 V/18 A
482 x 95 x 390 mm, 2 RS
13 kg



PA-900

Order No. 0171190



Mono PA mixing amplifier

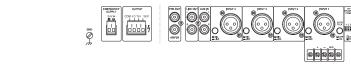
- 1 x 120 W
- Silent operation due to fanless cooling concept
- 4 balanced mic/line inputs
- Mic 1 with priority circuit and automatic talkover
- Additional connection for desktop microphone via screw terminal
- 1 aux input
- Speaker outputs via screw terminals
- Line output
- Insert facility, e.g. for effect units, equalizers, feedback controllers



- Input and output level controls
- 2-way tone control for the output
- 20 V phantom power for each microphone input, to be activated individually
- Mains operation or 24 V emergency power operation
- Removable mounting brackets

Model	PA-900
Peak output power	160 W
Power rating	120 W
Output impedance	4 Ω
Inputs	3 mV (mic),
	200 mV (line),
	140 mV (aux)
Frequency range	50-15,000 Hz
Equalizer bass	± 10 dB/100 Hz
Equalizer treble	± 10 dB/10 kHz
S/N ratio	> 80 dB
THD	< 0.5%
Power supply	~ 230 V/50 Hz/300 VA,
	24 V/9 A
Dimensions	482 x 88 x 275 mm, 2 RS

9.9 kg



PA-8120RCD 48	2mm USB MF	100V	40	80	160	

Mono PA mixing amplifier,

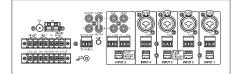
with integrated CD/MP3 player and radio.

- 1 x 120 W
- CD player with drawer mechanism, repeat function and random play, reproduction of audio CD/CD-R/CD-RW, MP3 CD, USB interface, separate on/off switch
- AM/FM radio module with 5 programmable station buttons, scan buttons, volume control and separate on/off switch
- 4 mic/line inputs, to be configured via DIP switches (mic/line, phase, high-pass filter, 48 V phantom power)
- 2 aux inputs, to be configured via DIP switches (aux1/aux2, 10 dB attenuation, high-pass filter)
- Siren function and chime function
- Priority circuit
- Speaker outputs via screw terminals
- Line output



Weight

- Insert facility, e.g. for effect units, equalizers, feedback controllers
- Input and output level controls
- \bullet 2-way tone control for the output
- 482 mm (19") rack installation



Model	PA-8120RCD
Power rating	120 W
Inputs	1.8 mV/5 kΩ, 300 mV/5 kΩ (mic/
	line),
	100 mV/10 kΩ (line)
Frequency range	50-16,500 Hz
Equalizer bass	± 10 dB/100 Hz
Equalizer treble	± 10 dB/10 kHz
S/N ratio	> 65 dB
THD	0.5%
Power supply	~ 230 V/50 Hz/365 VA
Dimensions	482 x 110 x 450 mm, 2 RS
Weight	10.5 kg

Order No. 0174420



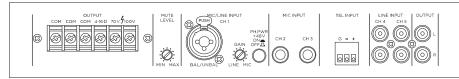
Mono PA mixing amplifier

- 1 x 240 W
- 3 microphone inputs, one of which is a balanced input
- Mic 1/line 1 with adjustable input sensitivity, priority circuit and adjustable automatic talkover
- 2 stereo line inputs
- 1 telephone input for telephone systems with audio output
- Speaker outputs via screw terminals
- 1 line output
- Input and output level controls
- 2-way tone control for the output



- 48 V phantom power for channel 1, can be activated as required
- 482 mm (19") rack installation with supplied mounting brackets

Model	PA-324
Peak output power	340 W
Power rating	240 W
Inputs	5 mV/600 Ω (mic),
	350 mV/10 kΩ (aux),
	1 V/10 kΩ (telephone)
Frequency range	50-16,000 Hz
Equalizer bass	± 10 dB/100 Hz
Equalizer treble	± 10 dB/10 kHz
S/N ratio	66 dB (mic)
	80 dB (aux)
THD	< 0.5%
Power supply	~ 230 V/50 Hz/740 VA
Dimensions	430 x 88 x 380 mm, 2 RS
Weight	11.6 kg



PA-312

Order No. 0173640



Mono PA mixing amplifier

- 1 x 120 W
- Silent operation due to fanless cooling concept
- 3 microphone inputs, one of which is a balanced input
- Mic 1/line 1 with input sensitivity, priority circuit and adjustable automatic talkover
- 2 stereo line inputs
- 1 telephone input for telephone systems with audio output
- Speaker outputs via screw terminals
- 1 line output
- Input and output level controls



- 2-way tone control for the output
- 48 V phantom power for channel 1, can be activated as required
- 482 mm (19") rack installation with supplied mounting brackets

OUTPUT COM COM 4-16Ω 70V 7100V	MUTE LEVEL	PUSH) CH I	MIC INPUT	TEL INPUT	LINE INPUT OUTPUT
**************************************	:Ö: min max	PH PWR 448V 448V 448V GAIN ONF E	CH 2 CH 3	G - +	

Model	PA-312
Peak output power	160 W
Power rating	120 W
Inputs	5 mV/600 Ω (mic),
	350 mV/10 kΩ (aux),
	1 V/10 kΩ (telephone)
Frequency range	50-16,000 Hz
Equalizer bass	± 10 dB/100 Hz
Equalizer treble	± 10 dB/10 kHz
S/N ratio	66 dB (mic)
	80 dB (aux)
THD	< 0.5%
Power supply	~ 230 V/50 Hz/450 VA
Dimensions	430 x 88 x 335 mm, 2 RS
Weight	7.8 kg

PA-306



Mono PA mixing amplifier

- 1 x 60 W
- \bullet Silent operation due to fanless cooling concept
- 3 microphone inputs, one of which is a balanced input
- Mic 1/line 1 with adjustable input sensitivity, priority circuit and adjustable automatic talkover
- 2 aux inputs
- 1 telephone input for telephone systems with audio output
- Speaker outputs via screw terminals
- 1 line output
- Input and output level controls



- 2-way tone control for the output
- 48 V phantom power for channel 1, can be activated as required
- 482 mm (19") rack installation with supplied mounting brackets

COM COM COM AND 701/100V	MUTE LEVEL BEFUSE CHI	PH PWR + 48V CH 2 CH 3 GAIN OFF G ON NE MIC	TEL INPUT	CH4 CH5 OOO OO R

Model	PA-306
Peak output power	80 W
Power rating	60 W
Inputs	6 mV/600 Ω (mic),
	310 mV/10 kΩ (aux),
	1 V/10 kΩ (telephone)
Frequency range	50-16,000 Hz
Equalizer bass	±10 dB/100 Hz
Equalizer treble	±10 dB/10 kHz
S/N ratio	66 dB (mic)
	80 dB (aux)
THD	< 0.5%
Power supply	~ 230 V/50 Hz/250 VA
Dimensions	430 x 88 x 335 mm, 2 RS
Weight	6.7 kg

MONACOR INTERNATIONAL INSTALLATION 113

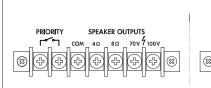
Order No. 0179480



Mono PA mixing amplifier

- 1 x 35 W
- 2 low-impedance microphone inputs
- 1 aux input, 1 phono input
- Speaker outputs via screw terminals
- Input and output level controls
- 2-way tone control for the output
- Connection for a microphone talk button to switch off the other sources during announcements
- Mains operation and 12-24 V emergency power operation













Model	PA-704
Peak output power	70 W
Power rating	35 W
Inputs	5 mV (mic),
	210 mV (aux),
	5 mV (phono)
Frequency range	100-18,000 Hz
Equalizer bass	±10 dB/150 Hz
Equalizer treble	±10 dB/6 kHz
S/N ratio	> 55 dB
THD	< 1%
Power supply	~ 230 V/50 Hz/100 VA
	= 12-24 V/2.5 A
Dimensions	320 x 85 x 230 mm
Weight	4.97 kg

PA-812DMP

Order No. 0176930

PA-806DMP Order No. 0176920

PA-803DMP

Order No. 0176910

SS MP3 100V	4Ω	8Ω	16Ω BL ₃₎₎
SSB MP3 100V	4Ω	8Ω	16Ω BL ₃₎₎
SSB MP3 100V	4Ω	8Ω	16Ω BT ⁽¹⁾

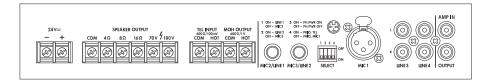
Mono class D PA mixing amplifier, with integrated

MP3 player, FM tuner and Bluetooth.

- 1 x 120 W (PA-812DMP)
- 1 x 60 W (PA-806DMP)
- 1 x 30 W (PA-803DMP)
- Class D concept with high efficiency to cut energy costs
- Bluetooth version 3.0
- MP3 player with USB/SD interface, FM radio, LED display, infrared remote control
- 1 balanced XLR microphone input with 48 V phantom power and priority selection for announcements
- 2 unbalanced inputs, switchable mic/line
- 2 unbalanced line inputs
- 1 emergency input
- 1 Music-On-Hold output (MOH)
- Insert facility, e.g. for effect units, equalizers, volume controls
- Speaker outputs via screw terminals
- Input level control and output level control
- 2-way tone control for the output
- LEDs for indicating operation, clipping, protect and signal level



84 - J.I	D4 043D44D	DA COCDAD	DA 002D34D
Model	PA-812DMP	PA-806DMP	PA-803DMP
Power rating	120 W	60 W	30 W
Inputs	5-8 mV/600 Ω (mic 1-3),	5-8 mV/600 Ω (mic 1-3),	5-8 mV/600 Ω (mic 1-3),
	150-470 mV/10 kΩ (line, unbal.),	150-470 mV/10 kΩ (line, unbal.),	150-470 mV/10 kΩ (line, unbal.),
Frequency range	60-15,000 Hz	60-15,000 Hz	60-15,000 Hz
Equalizer bass	yes	yes	yes
Equalizer treble	yes	yes	yes
S/N ratio	72 dB (mic)	72 dB (mic)	72 dB (mic)
	85 dB (aux)	85 dB (line)	85 dB (line)
THD	< 0.5%	< 0.5%	< 0.5%
Power supply	~ 230 V/50 Hz/250 VA	~ 230 V/50 Hz/160 VA	~ 230 V/50 Hz/100 VA
	= 24 V/8.4 A	= 24 V/4.2 A	= 24 V/2.5 A
Dimensions	320 x 95 x 245 mm	320 x 95 x 245 mm	320 x 95 x 245 mm
Weight	5 ka	4.48 ka	3.93 ka



PA-803DAP

Order No. 1000168



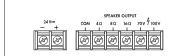
Mono class D PA mixing amplifier, with integrated MP3 player, FM/DAB+ tuner and Bluetooth.

- 1 x 30 W
- Class D concept with high efficiency to cut energy
- Silent operation due to fanless cooling concept
- Bluetooth version 4.2
- MP3 player with USB/SD interface, FM/DAB+ radio, LED display, infrared remote control
- Reception of interference-free digital radio (DAB+)
- 1 balanced XLR microphone input with 48 V phantom power and priority selection for announcements

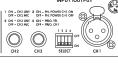
- 2 unbalanced inputs, switchable mic/line
- 2 unbalanced line inputs
- 1 emergency input
- 1 Music-On-Hold output (MOH)
- Speaker outputs via screw terminals
- 2 line outputs
- Input level control and output level control
- 2-way tone control for the output
- LEDs for indicating operation, clipping, protect and signal level



Model	PA-803DAP
Power rating	30 W
Inputs	4.5 mV/600 Ω (mic 1-3),
	120 mV (line 2-3),
	60 mV (line 4-5)
	90 mV (tel.)
Frequency range	60-15,000 Hz
Equalizer bass	yes
Equalizer treble	yes
S/N ratio	72 dB (mic)
	85 dB (line)
THD	< 0.5%
Power supply	~ 230 V/50 Hz/100 VA
	= 24 V/2.5 A
Dimensions	320 x 95 x 245 mm
Weight	3.95 kg



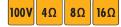






PA-888D

Order No. 0176730

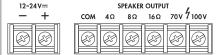


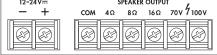
Mono class D PA mixing amplifier

- 1 x 60 W
- Class D concept with a high efficiency to cut energy costs
- Silent operation due to fanless cooling concept
- 2 microphone inputs, 1 aux input
- Chime, siren and fog horn (saved as MP3 files in internal memory, other files can be played via USB port), adjustable level
- Bass, treble and master controls
- 6-step LED level display
- Protective circuit with LED indication for protection
- Mains operation or 12-24 V battery operation



Model	PA-888D
Peak output power	80 W
Power rating at 4 Ω	60 W
Power rating at 8 Ω	35 W
Power rating at 100 V	60 W
Inputs	3.5 mV/1 kΩ (mic),
	35 mV/2 kΩ (aux)
Frequency range	100-18,000 Hz
Equalizer bass	± 10 dB/100 Hz
Equalizer treble	± 5 dB/10 kHz
S/N ratio	> 67 dB
THD	< 0.05%
Power supply	~ 230 V/50 Hz/220 VA,
	= 12 V/8 A, = 24 V/4 A
Dimensions	320 x 95 x 240 mm
Weight	4.3 kg





PA-890RCD

Order No. 0173030





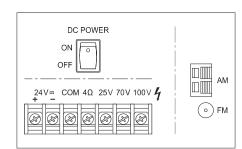


Mono PA mixing amplifier,

with integrated CD/MP3 player and radio.

- 1 x 80 W
- CD player with drawer mechanism, repeat function and random play, reproduction of audio CD/CD-R/CD-RW, MP3 CD, USB interface, separate on/off switch
- AM/FM radio module with 5 programmable station buttons, scan buttons, separate on/off switch
- 3 mic inputs, one of which can be switched mic/line
- Siren function
- Speaker outputs via screw terminals
- Input level control
- 2-way tone control for the output
- Mains operation or 24 V emergency power operation





Model	PA-890RCD
Power rating	80 W
Inputs	1.5 mV (mic),
	300 mV (line)
Frequency range	50-15,000 Hz
Equalizer bass	± 10 dB/100 Hz
Equalizer treble	± 10 dB/10 kHz
S/N ratio	> 52 dB
THD	1%
Power supply	~ 230 V/50 Hz/265 VA
Dimensions	400 x 110 x 340 mm, 2 RS
Weight	9.5 kg

Order No. 0170820

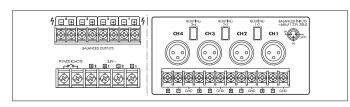
PA-4120 Order No. 0170810



PA power amplifiers

- 4 x 240 W (PA-4240)
- 4 x 120 W (PA-4120)
- Routing switches for parallel operation on 2 channels each
- Temperature-controlled fan
- Connection for external on/off switch
- LED indication for clip, protect, excess temperature and output level
- Mains operation or 24 V emergency power operation





Model	PA-4240	PA-4120
Power rating	960 W	480 W
Power rating at 4 Ω	4 x 240 W	4 x 120 W
Power rating at 100 V	4 x 240 W	4 x 120 W
Output impedance	31 V/4 Ω, 50 V/10.4 Ω, 70 V/20 Ω,	22 V/4 Ω, 50 V/21 Ω, 70 V/41 Ω,
	100 V/42 Ω	100 V/83 Ω
Inputs	1.2 V, bal.	1.2 V, bal.
Frequency range	55-17,000 Hz	55-17,000 Hz
S/N ratio	> 90 dBA	> 90 dBA
THD	< 1%	< 1%
Power supply	~ 230 V/50 Hz/2,720 VA,	~ 230 V/50 Hz/1,400 VA,
	24 V/113 A	= 24 V/60 A
Dimensions	483 x 133 x 370 mm, 3 RS	483 x 133 x 370 mm, 3 RS
Weight	28 kg	25 kg

PA-2240

Order No. 0170800

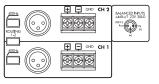


PA power amplifier

- 2 x 240 W
- Routing switch for parallel operation on both channels
- Switchable 400 Hz high-pass filter 6 dB/oct.
- Soft start
- Temperature-controlled fan
- LED indication for clip, protect, excess temperature and output level
- Mains operation or 24 V emergency power operation



# F	4 CM 25V 44V 70V 100V ⊕ □ 4 CH 2	A001
230V-/50Hz	4 CCM 280 487 780 1007 ⊕	



Model	PA-2240	
Power rating	480 W	
Power rating at 8 Ω	2 x 240 W	
Power rating at 100 V	2 x 240 W	
Output impedance	25 V/2.6 Ω, 44 V/8 Ω,	
	70 V/20 Ω, 100 V/42 Ω	
Inputs	1.2 V, bal.	
Frequency range	35-20,000 Hz	
S/N ratio	> 100 dBA	
THD	< 1%	
Power supply	~ 230 V/50 Hz/1,300 VA,	
	= 24 V/55 A	
Dimensions	483 x 88 x 374 mm, 2 RS	
Weight	18 kg	

SINUS-220 Order No. 0174370











PA power amplifier, for application in professional PA systems and for setting up standardised voice alarm systems (VAS) according to EN 54-16 when combined with audio management system EVA-16 from MONACOR.

- 2 x 240 W
- Temperature-controlled fan
- LED indication for protect and signal
- Mains switch on the rear panel for preventing accidental switch-off
- 24 V emergency power input
- Mains operation or 24 V emergency power operation
- 482 mm (19") rack installation with fitted mounting brackets



MANS ERROR 24V DC OUTPUT 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MAINS ERROR 24V DC OUTPUT 2 1

BALANCED OUTPUT	CHANNEL 1	BALANCED INPUT
@10k0 B		@10kΩ
(· · ·	·))) ((°,°)))	8
BALANCED OUTPUT	CHANNEL 2	BALANCED INPUT @10kΩ
2000		
® ((••		8

Model	SINUS-220	
Power rating	480 W	
Power rating at 8 Ω	2 x 240 W	
Power rating at 100 V	2 x 240 W	
Inputs	1 V/10 kΩ, bal.	
Frequency range	35-18,000 Hz	
S/N ratio	> 86 dB	
Crosstalk attenuation	> 80 dB	
THD	< 1%	
Power supply	~ 230 V/50 Hz/1,280 W,	
	= 24 V/30 A	
Standby current	0.38 A	
Dimensions	425 x 88 x 450 mm, 2 RS	
Weight	18 kg	

PA-1850D

Order No. 0172960

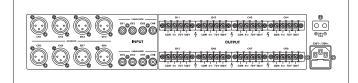


8-channel class D PA amplifier

- 8 x 50 W
- Class D concept with a high efficiency to cut energy costs
- Requires a lower rechargeable battery capacity for emergency power operation than 100 V analogue amplifiers
- Clearly reduced cooling requirements due to low heat dispersion
- Silent operation due to fanless cooling concept
- Mute function for each channel
- Level control for each channel
- LED indication for clip and protect for each channel pair
- Protected against short circuit
- Mains operation or 24 V emergency power operation



PA-1850D
400 W
8 x 50 W
8 x 50 W
4 Ω, 70/100 V
1 V/20 kΩ unbal
550 mV/20 k Ω bal.
10-20,000 Hz
> 65 dB
< 0.5%
~ 230 V/50 Hz/600 VA,
= 24 V/18 A
483 x 90 x 398 mm, 2 RS
18 kg



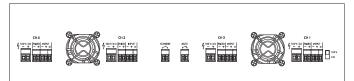
PA-4120D

Order No. 1000015



4-channel class D PA power amplifier

- 4 x 120 W
- Class D concept with a high efficiency to cut energy costs
- Temperature-controlled fan, continuously adjustable
- Connection for external on/off switch
- Connection for external mute switch
- LED indication for protect, peak, signal and 100 V/4 Ω operation





PA-4120D
480 W
4 x 120 W
4 x 120 W
100 V/83 Ω, 4 Ω
775 mV/20 kΩ, bal.
80-16,000 Hz
> 95 dBA
< 0.1%
~ 230 V/50 Hz/850 VA
483 x 52 x 320 mm, 1 RS
5.1 kg

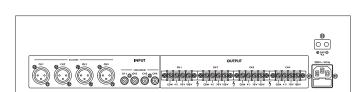
PA-1450D

Order No. 0172950



4-channel class D PA amplifier

- 4 x 50 W
- Class D concept with a high efficiency to reduce energy costs
- Requires lower rechargeable battery capacity for emergency power operation than 100 V analogue amplifiers
- Clearly reduced cooling requirements due to low heat dispersion
- Silent operation due to fanless cooling concept
- Mute function for each channel
- Level control for each channel
- LED indication for clip and protect for each channel pair
- Protected against short circuit
- Mains operation or 24 V emergency power operation





Model	PA-1450D	
Power rating	200 W	
Power rating at 4 Ω	4 x 50 W	
Power rating at 100 V	4 x 50 W	
Output impedance	4 Ω, 70/100 V	
Inputs	1 V/20 kΩ unbal	
	550 mV/20 kΩ bal.	
Frequency range	10-20,000 Hz	
S/N ratio	63 dB	
THD	< 0.5%	
Power supply	~ 230 V/50 Hz/300 VA,	
	= 24 V/9 A	
Dimensions	483 x 90 x 330 mm, 2 RS	
Weight	11 kg	

MONACOR INTERNATIONAL INSTALLATION 117

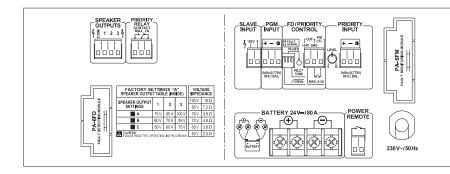
Order No. 0172550



High-power mono PA amplifier

- 1 x 960 W
- Additional, adjustable priority input with switchable priority function
- 100 V slave input for inserting the amplifier into a 100 V speaker line
- Switchable 400 Hz high-pass filter 6 dB/oct.
- 2 insertion facilities on the rear panel for optional modules with the following features:
- PA-6FD: fault detection module
- PA-6FM: fault monitoring module
- Connection for external on/off switch (remote start)
- Temperature-controlled fan, continuously adjustable
- LED indication for fault, protect, clip, signal, priority
- Mains operation or 24 V emergency power operation





Model	PA-1960
Power rating	960 W
Power rating at 100 V	1 x 960 W
Output impedance	75 V/5.6 Ω, 85 V/7.2 Ω,
	100 V/10 Ω
Inputs	0.775 V/60 kΩ, bal.
Frequency range	35-20,000 Hz
S/N ratio	> 100 dB
THD	< 0.4%
Power supply	~ 230 V/50 Hz/2,600 VA,
	24 V/80 A
Standby current	24 V
Dimensions	483 x 133 x 374 mm, 3 RS
Weight	25 kg

PA-1480

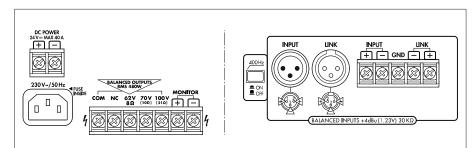
Order No. 0171110



Mono PA power amplifier

- 1 x 480 W
- Switchable 400 Hz high-pass filter 6 dB/oct.
- Temperature-controlled fan, continuously adjustable
- LED indication for clip, protect, excess temperature and output level
- Feed-through output (link)
- Mains operation or 24 V emergency power operation





Model	PA-1480
Power rating	480 W
Power rating at 8 Ω	1 x 480 W
Power rating at 100 V	1 x 480 W
Output impedance	62 V/8 Ω , 70 V/10 Ω , 100 V/21 Ω
Inputs	1.2 V, bal.
Frequency range	35-20,000 Hz
S/N ratio	> 100 dBA
THD	< 1%
Power supply	~ 230 V/50 Hz/1,400 VA,
	24 V/40 A
Dimensions	483 x 88 x 374 mm, 2 RS
Weight	15.2 kg

PA-1250D

Order No. 0173860

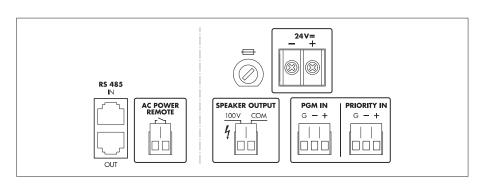


Mono class D PA power amplifier, with an energysaving effect.

- 1 x 250 W
- Class D concept with a high efficiency of more than 90% to cut energy costs
- Additional integrated energy-saving functions, e.g. device automatically goes to standby mode if no input signal is present (as soon as an input signal is detected, the amplifier is automatically switched on again)
- Requires a significantly lower rechargeable battery capacity for emergency power operation than 100 $\ensuremath{\text{V}}$ analogue amplifiers
- Clearly reduced cooling requirements due to low heat dispersion



- Silent operation due to fanless cooling concept, thus especially suitable for noise-sensitive areas, e.g. offices, conference rooms or churches
- Special protective circuits prevent damage caused by short circuit or overheating
- Extensive, menu-controlled settings
- Switchable 200 Hz high-pass filter, 6 dB/oct.
- Additional priority input
- LCD for the operating parameters
- Mains operation or 24 V emergency power operation



Model	PA-1250D
Peak output power	350 W
Power rating	250 W
Power rating at 100 V	1 x 250 W
Output impedance	100 V/40 Ω
Inputs	1.2 V, bal. (line)
Frequency range	50-18,000 Hz
S/N ratio	> 100 dBA
THD	< 0.5%
Power supply	~ 230 V/50 Hz/350 VA,
	8 W (standby mode),
	24 V/20 A,
	280 mA (standby mode)
Dimensions	482 x 88 x 410 mm, 2 RS
Weight	7.5 kg

SINUS-20 Order No. 0174240

SINUS-10 Order No. 0174230









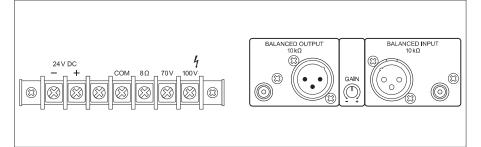




PA power amplifiers, for application in professional PA systems and for setting up standardised voice alarm systems (VAS) according to EN 54-16 when combined with audio management system EVA-16 from MONACOR.

- 1 x 240 W (SINUS-20)
- 1 x 120 W (SINUS-10)
- Temperature-controlled fan
- LED indication for protect and signal
- Mains switch on the rear panel for preventing accidental switch-off
- 24 V emergency power input
- Mains operation or 24 V emergency power operation
- 482 mm (19") rack installation with fitted mounting brackets





Model	SINUS-20	SINUS-10
Power rating	240 W	120 W
Power rating at 8 Ω	1 x 240 W	120 W
Power rating at 100 V	1 x 240 W	120 W
Inputs	1 V/10 kΩ, bal.	1 V/10 kΩ, bal.
Frequency range	35-18,000 Hz	35-18,000 Hz
S/N ratio	> 86 dB	> 86 dB
Crosstalk attenuation	> 80 dB	> 80 dB
THD	< 1%	< 1%
Power supply	~ 230 V/50 Hz/640 W,	~ 230 V/50 Hz/320 W,
	24 V/15 A	24 V/7.5 A
Standby current	0.23 A	0.16 A
Dimensions	425 x 88 x 305 mm,	425 x 88 x 305 mm,
	2 RS	2 RS
Weight	10.5 kg	8.5 kg

MONACOR INTERNATIONAL INSTALLATION



PA-900S

Order No. 0172080



Mono PA power amplifier

- 1 x 120 W
- Silent operation due to fanless cooling concept
- 2-way tone control
- Switchable low cut filter
- Speaker outputs via screw terminals
- Feed-through output (link)

- Mains operation or 24 V emergency power operation
- 482 mm (19") rack installation with supplied mounting brackets

Model	PA-900S
Peak output power	160 W
Power rating	120 W
Inputs	765 mV (line)
Frequency range	50-15,000 Hz
Equalizer bass	± 10 dB/100 Hz
Equalizer treble	± 10 dB/10 kHz
S/N ratio	> 80 dB
THD	< 0.5%
Power supply	~ 230 V/50 Hz/300 VA,
	= 24 V/9 A
Dimensions	482 x 88 x 275 mm, 2 RS
Weight	9.5 kg





PA-948S

Order No. 0177020

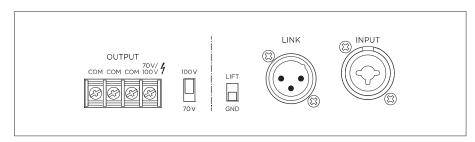


Mono PA power amplifier

- 1 x 480 W
- Temperature-controlled fan, continuously adjustable
- Protected against overheating, overload and short circuit
- LED indication for clip, protect, excess temperature, output level and 100 V/70 V



- Feed-through output (link)
- Speaker outputs via screw terminals



Model	PA-948S
Power rating	480 W
Power rating at 100 V	1 x 480 W
Output impedance	70 V/10 Ω, 100 V/20 Ω
Inputs	710 mV/10 kΩ, bal.
Frequency range	80-16,000 Hz
S/N ratio	> 98 dBA
THD	< 1%
Power supply	~ 230 V/50 Hz/1,100 VA
Dimensions	483 x 44 x 255 mm, 1 RS
Weight	4 kg

PA-924S

Order No. 0177010

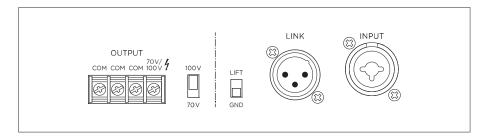


Mono PA power amplifier

- 1 x 240 W
- Temperature-controlled fan, continuously adjustable
- Protected against overheating, overload and short circuit
- LED indication for clip, protect, excess temperature, output level and 100 V/70 V



- Feed-through output (link)
- Speaker outputs via screw terminals



Model	PA-924S
Power rating	240 W
Power rating at 100 V	1 x 240 W
Output impedance	70 V/20 Ω, 100 V/40 Ω
Inputs	650 mV/10 kΩ, bal.
Frequency range	80-16,000 Hz
S/N ratio	> 98 dBA
THD	< 1%
Power supply	~ 230 V/50 Hz/495 VA
Dimensions	483 x 44 x 255 mm, 1 RS
Weight	3.8 kg
	<u> </u>

PA-912S

Order No. 0177000

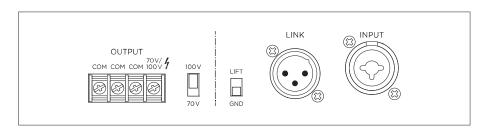


Mono PA power amplifier

- 1 x 120 W
- Temperature-controlled fan, continuously adjustable
- Protected against overheating, overload and short circuit
- LED indication for clip, protect, excess temperature, output level and 100 V/70 V



- Feed-through output (link)
- Speaker outputs via screw terminals



120 W
120 11
1 x 120 W
70 V/40 Ω, 100 V/80 Ω
670 mV/10 kΩ, bal.
> 98 dBA
< 1%
~ 230 V/50 Hz/225 VA
483 x 44 x 255 mm, 1 RS
3.5 kg



STA-1508 Order No. 0244300

STA-1506 Order No. 0244290

STA-1504 Order No. 0244280

 $\label{lem:multi-channel PA amplifiers, with integrated limiter.} \\$

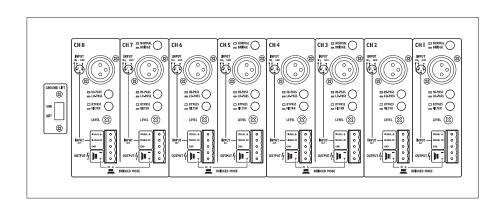
STA-1508 = 8 channels

STA-1506 = 6 channels

STA-1504 = 4 channels

- Balanced inputs
- High-pass filter, low-pass filter, can be activated as required for each channel
- \bullet Tamper-resistant level adjustment on the rear panel
- ullet 8 Ω bridged operation possible
- LED VU meter and LED per channel for indicating overload (clip)
- Soft start
- Ground lift switch
- Speaker switch-on delay
- Fan cooling
- Protected against short circuit, overheating and DC voltage overlay at the outputs

Model	STA-1508	STA-1506	STA-1504
Peak output power	1,800 W	1,400 W	900 W
Power rating	1,280 W	960 W	640 W
Power rating at 4 Ω	8 x 160 W	6 x 160 W	4 x 160 W
Power rating at 8 Ω	8 x 100 W	6 x 100 W	4 x 100 W
Power rating with 8 Ω bridged operation	4 x 320 W	3 x 320 W	2 x 320 W
Inputs	0.7 V/20 kΩ	0.7 V/20 kΩ	0.7 V/20 kΩ
Frequency range	12-20,000 Hz	12-20,000 Hz	12-20,000 Hz
Crossover frequency	240 Hz	240 Hz	240 Hz
S/N ratio	> 80 dB	> 80 dB	> 80 dB
Crosstalk attenuation	> 60 dB	> 60 dB	> 60 dB
THD	< 0.1%	< 0.1%	< 0.1%
Power supply	~ 230 V/50 Hz/2,400 VA	~ 230 V/50 Hz/1,800 VA	~ 230 V/50 Hz/1,200 VA
Dimensions	482 x 132 x 310 mm, 3 RS	482 x 132 x 310 mm, 3 RS	482 x 132 x 310 mm, 3 RS
Weight	16.6 kg	15.5 kg	14 kg



STA-2000D

Order No. 0255220



4-channel class D PA amplifier, 2,400 W

- Class D concept with power amplifier modules from PASCAL
- Excellent acoustic performance
- Extra wide dynamic range with very low THD
- Excellent pulse response also in the bass range
- 482 mm (19") rack installation, 2 RS
- 2 or 4 channels in bridged mode
- 100 V line technique possible in bridged operation
- Silent operation due to temperature-controlled fans, only activated if temperature rises above 85 °C

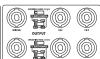


- Lightweight design due to compact switch-mode power supply
- Energy-efficient concept due to a high efficiency
- 4 level controls
- Protected against short circuit, excess temperature, DC voltage at the output and overload

Model	STA-2000D
Peak output power	2,400 W
Power rating	2,000 W
Power rating at 4 Ω	4 x 500 W
Power rating at 8 Ω	4 x 280 W
Power rating with 4 Ω bridged operation	2 x 1,000 W
Power rating with 8 Ω bridged operation	2 x 1,000 W
Inputs	1 V/10 kΩ (XLR, bal.),
	1 V/5 kΩ (RCA)
Frequency range	20-20,000 Hz
S/N ratio	> 119 dBA
THD	< 0.05%
Power supply	~ 85-265 V/50 Hz/2,320 VA
Dimensions	482 x 89 x 335 mm, 2 RS
Weight	6.4 kg









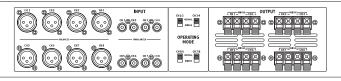
Order No. 0252360



8-channel class D amplifier

- Silent operation due to fanless cooling concept
- 8 Ω bridged operation possible
- Mute function for each channel
- 8 level controls
- 1 LED per channel for indicating overload (clip)
- Protected against short circuit





Model	STA-850D
Peak output power	600 W
Power rating	400 W
Power rating at 4 Ω	8 x 50 W
Power rating at 8 Ω	8 x 30 W
Power rating with 8Ω bridged operation	4 x 100 W
Inputs	1 V/20 kΩ unbal.
	550 mV/20 k Ω bal.
Frequency range	10-20,000 Hz
Crosstalk attenuation	> 45 dB
Power supply	~ 230 V/50 Hz/600 VA
Dimensions	483 x 90 x 330 mm, 2 RS
Weight	10.5 kg

STA-450D

Order No. 0252350



4-channel class D amplifier

- Silent operation due to fanless cooling concept
- 8 Ω bridged operation possible
- Mute function for each channel
- 4 level controls
- 1 LED per channel for indicating overload (clip)
- Protected against short circuit





Model	STA-450D
Peak output power	300 W
Power rating	200 W
Power rating at 4 Ω	4 x 50 W
Power rating at 8 Ω	4 x 30 W
Power rating with 8 Ω bridged	2 x 100 W
operation	
Inputs	1 V/20 kΩ unbal.
	550 mV/20 kΩ bal.
Frequency range	10-20,000 Hz
Crosstalk attenuation	> 45 dB
Power supply	~ 230 V/50 Hz/300 VA
Dimensions	483 x 90 x 330 mm, 2 RS
Weight	8.4 kg

STA-1603CLUB 482n

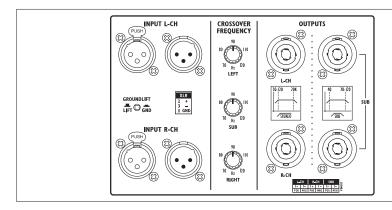
Order No. 0253250



3-channel professional PA amplifier

- Variable crossover frequencies for sat and sub
- Excellent sound, high S/N ratio, very good channel separation
- Very high output power
- High load stability (sat out: 4Ω , sub out: 2Ω)
- Integrated limiter
- Integrated subsonic filter (30 Hz)
- Ground lift
- Professional connection configuration
- Controlled fans (off when the appliance is cold)





Model	STA-1603CLUB
Peak output power	3,000 W
Power rating	1,490 W
Power rating at 2 Ω	1 x 1,300 W (subwoofer)
Power rating at 4 Ω	1 x 850 W (subwoofer)
	2 x 320 W (satellite)
Power rating at 8 Ω	1 x 550 W (subwoofer)
	2 x 200 W (satellite)
Inputs	1 V/19 kΩ
Frequency range	20-20,000 Hz
Crossover frequency	70-120 Hz
S/N ratio	> 81 dB
Crosstalk attenuation	> 59 dB
THD	< 0.05%
Power supply	~ 230 V/50 Hz/3,200 VA
Dimensions	483 x 132 x 384 mm, 3 RS
Weight	25 kg

STA-553D

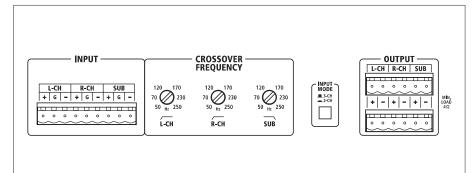
Order No. 0257350



3-channel class D PA amplifier

- Variable crossover frequency for sat and sub
- 3 level controls
- Temperature-controlled fan
- Protective circuit with LED indication for protection against short circuit, overheating and DC voltage overlay at the outputs
- Each channel with LEDs for indicating overload (clip) and signal





Model	STA-553D
Peak output power	600 W
Power rating	550 W
Power rating at 4 Ω	2 x 150 W (satellite)
	1 x 250 W (subwoofer)
Power rating at 8 Ω	2 x 100 W (satellite)
	1 x 160 W (subwoofer)
Inputs	1.5 V/14 kΩ
Frequency range	20-20,000 Hz
Crossover frequency	50-250 Hz
S/N ratio	> 96 dB
Crosstalk attenuation	> 70 dB
THD	< 0.05%
Power supply	~ 230 V/50 Hz/800 VA
Dimensions	482 x 52 x 290 mm, 1 RS
Weight	4.5 kg

STA-1000DSP

Order No. 0255750



Stereo class D PA amplifier, with DSP technology.

- Class D concept with power amplifier modules from PASCAL
- Excellent acoustic performance
- Silent operation due to temperature-controlled fans which are only activated if the temperature rises above 85 °C
- Bridged operation
- NEUTRIK POWERCON and SPEAKON connections

DSP audio controlling parameters

• 10 parametric filters for each input and output

- Types of filters: bell, shelving, notch or all-pass
- Delay for each input: up to 800 ms; delay for each output: 5 ms
- Filters: Butterworth, Bessel, Linkwitz-Riley with up to 24 dB/oct.
- Limiter for each input and output
- Selectable phase: 180°
- 80 presets to be stored





STA-1000DSP
1,200 W
2 x 500 W
2 x 280 W
1 x 1,000 W
1.2 V/24 kΩ (XLR, bal.)
20-20,000 Hz
> 119 dBA
< 0.05%
~ 230 V/50 Hz/1,160 VA
482 x 89 x 335 mm, 2 RS
5.18 kg

STA-1000D

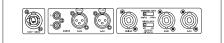
Order No. 0255210



Stereo class D PA amplifier, 1,200 W

- Class D concept with power amplifier modules from PASCAL
- Excellent acoustic performance
- Extra wide dynamic range with very low THD
- Excellent pulse response also in the bass range
- 482 mm (19") rack installation, 2 RS
- Silent operation due to temperature-controlled fans, only activated if temperature rises above 85 °C
- Lightweight design due to compact switch-mode power supply
- Energy-efficient concept due to a high efficiency
- 2 level controls

- Protected against short circuit, excess temperature, DC voltage at the output and overload
- LEDs for indicating power, signal, bridge, overload (clip), overheating and protect
- Bridged operation
- 100 V line technique possible in bridged operation
- Wide mains voltage range: ~ 85-265 V
- NEUTRIK POWERCON and SPEAKON connections





Model	STA-1000D
Peak output power	1,200 W
Power rating at 4 Ω	2 x 500 W
Power rating at 8 Ω	2 x 280 W
Power rating with 4 Ω bridged operation	1 x 1,000 W
Power rating with 8 Ω bridged operation	1 x 1,000 W
Inputs	1 V/10 kΩ (XLR, bal.),
	1 V/5 kΩ (RCA)
Frequency range	20-20,000 Hz
S/N ratio	> 119 dBA
THD	< 0.05%
Power supply	~ 230 V/50 Hz/1,160 VA
Dimensions	482 x 89 x 335 mm, 2 RS
Weight	5 kg

STA-800D

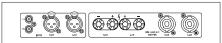
Order No. 0255200



Stereo class D PA amplifier

- Class D concept with power amplifier modules from HYPEX
- Silent operation due to temperature-controlled fans
- Lightweight design due to compact switch-mode power supply
- Energy-efficient concept due to a high efficiency
- High power reserves due to the application of two switch-mode power supplies
- Powerful bass reproduction due to large buffer capacitors (high power reserves)

- 2 level controls
- Protected against short circuit and excess temperature
- LEDs for indicating power, overload (clip) and protect
- Super slimline design
- NEUTRIK SPEAKON connections





Model	STA-800D
Peak output power	1,000 W
Power rating	800 W
Power rating at 4 Ω	2 x 400 W
Power rating at 8 Ω	2 x 210 W
Inputs	1 V/10 kΩ (XLR, bal.),
	1 V/4.7 kΩ (RCA)
Frequency range	20-20,000 Hz
S/N ratio	> 110 dBA
THD	< 0.004%
Power supply	~ 230 V/50 Hz/920 VA
Dimensions	482 x 52 x 298 mm, 1 RS
Weight	4 kg

STA-400D

Order No. 0255190



Stereo class D PA amplifier

- Class D concept with power amplifier modules from HYPEX
- \bullet Silent operation due to temperature-controlled fans
- Energy-efficient concept due to a high efficiency
- Powerful bass reproduction due to large buffer capacitors (high power reserves)
- 2 level controls
- Protected against short circuit and excess temperature
- LEDs for indicating power, overload (clip) and protect
- NEUTRIK SPEAKON connections





Model	STA-400D
Peak output power	700 W
Power rating	540 W
Power rating at 4 Ω	2 x 270 W
Power rating at 8 Ω	2 x 180 W
Inputs	1 V/10 kΩ (XLR, bal.),
	1 V/4.7 kΩ (RCA)
Frequency range	20-20,000 Hz
S/N ratio	> 110 dBA
THD	< 0.02%
Power supply	~ 230 V/50 Hz/600 VA
Weight	3.5 kg

STA-3000

Order No. 0250500



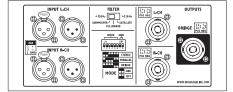
Professional stereo PA amplifier, with integrated crossover network and limiter.

- 2 Ω stable
- Class H technology with performance-optimised power supply technology
- LCD for indicating temperature, operating mode, protective function
- Integrated crossover network: 120 Hz, 24 dB/oct., switchable subwoofer, full range or satellite operation
- 3 operating modes can be selected (stereo, parallel or bridged)
- Temperature-controlled fans
- 2 level controls
- Ground lift function
- Speaker switch-on delay
- Protective circuit with LED indication for protection against short circuit, overheating and DC voltage overlay at the outputs

Model	STA-3000
Peak output power	5,500 W
Power rating	3,000 W
Power rating at 2 Ω	2 x 1,250 W
Power rating at 4 Ω	2 x 1,500 W
Power rating at 8 Ω	2 x 1,000 W
Power rating with 4 Ω bridged operation	1 x 2,500 W
Power rating with 8 Ω bridged operation	1 x 3,000 W
Inputs	1 V/20 kΩ
Frequency range	20-20,000 Hz
Crossover frequency	120 Hz
S/N ratio	> 100 dB
Crosstalk attenuation	> 60 dB
THD	< 0.1%
Power supply	~ 230 V/50 Hz/5,000 VA
Dimensions	482 x 132 x 519 mm, 3 RS
Weight	32 kg

- Each channel with LEDs for indicating operating voltage, level and limiter
- NEUTRIK SPEAKON connections
- Supplied with mains cable





STA-2200DSP

Order No. 0259520

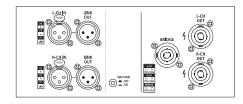


Stereo PA amplifier, with DSP technology.

- Operating mode (stereo, parallel or bridged), crossover network, delay, compressor and limiter adjustable via DSP
- DSP can be programmed via USB
- Temperature-controlled fans
- 2 level controls
- Ground lift function
- Speaker switch-on delay
- Protective circuit with LED indication for protection against short circuit, overheating and DC voltage overlay at the outputs
- Each channel with LEDs for indicating operating voltage, signal and limiter

Model	STA-2200DSP
Peak output power	4,000 W
Power rating	2,200 W
Power rating at 4 Ω	2 x 1,200 W
Power rating at 8 Ω	2 x 750 W
Power rating with 8 Ω bridged operation	1 x 2,200 W
Inputs	1 V/20 kΩ (bal.)
	1 V/10 kΩ (unbal.)
Frequency range	20-20,000 Hz
S/N ratio	≥ 90 dB
Crosstalk attenuation	> 55 dB
THD	< 0.1%
Power supply	~ 230 V/50 Hz/3,400 VA
Dimensions	483 x 88 x 496 mm, 2 RS
Weight	21 kg





STA-1600DSP

Order No. 0259510

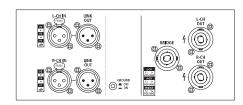


Stereo PA amplifier, with DSP technology.

- Operating mode (stereo, parallel or bridged), crossover network, delay, compressor and limiter adjustable via DSP
- DSP can be programmed via USB
- Temperature-controlled fans
- 2 level controls
- Ground lift function
- Speaker switch-on delay
- Protective circuit with LED indication for protection against short circuit, overheating and DC voltage overlay at the outputs
- Each channel with LEDs for indicating operating voltage, signal and limiter

Model	STA-1600DSP
Peak output power	2,700 W
Power rating	1,600 W
Power rating at 4 Ω	2 x 800 W
Power rating at 8 Ω	2 x 500 W
Power rating with 8 Ω bridged operation	1 x 1,600 W
Inputs	1 V/20 kΩ (bal.)
	1 V/10 kΩ (unbal.)
Frequency range	20-20,000 Hz
S/N ratio	≥ 90 dB
Crosstalk attenuation	> 55 dB
THD	< 0.1%
Power supply	~ 230 V/50 Hz/2,600 VA
Dimensions	483 x 88 x 430 mm, 2 RS
Weight	16 kg





STA-300D

Order No. 0257330

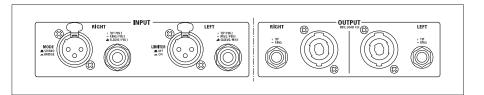


Stereo class D PA amplifier

- 2 operating modes can be selected (stereo or bridged)
- Limiter function can be activated as required
- 2 level controls
- Temperature-controlled fan
- Protective circuit with LED indication for protection against short circuit, overheating and DC voltage overlay at the outputs
- Each channel with LEDs for indicating overload (clip) and signal

Model	STA-300D
Peak output power	350 W
Power rating	300 W
Power rating at 4 Ω	2 x 150 W
Power rating at 8 Ω	2 x 100 W
Power rating with 8 Ω bridged operation	1 x 300 W
Inputs	1 V/12 kΩ
Frequency range	20-20,000 Hz
S/N ratio	> 96 dB
Crosstalk attenuation	> 70 dB
THD	< 0.05%
Power supply	~ 230 V/50 Hz/510 VA
Dimensions	482 x 52 x 290 mm, 1 RS
Weight	3.7 kg





STA-200D

Order No. 0255070

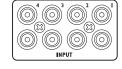


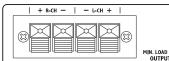
Stereo class D PA amplifier, 250 W

- 5 switchable line inputs
- Silent operation due to fanless cooling concept
- High power reserves due to generously dimensioned toroidal core transformer
- High-efficiency power amplifiers
- 3.5 mm stereo jack connection with switchable sensitivity on the front panel
- 4 x RCA input
- 2 x SPEAKER output
- 4 x terminal strip output
- 2 level controls
- Protected against short circuit, overvoltage and excess temperature
- LEDs for indicating power, overload (clip), protect and overheating
- Super slimline and robust design, 1 RS

Model	STA-200D
Peak output power	300 W
Power rating	250 W
Power rating at 4 Ω	2 x 125 W
Power rating at 8 Ω	2 x 75 W
Inputs	1 V/23 kΩ (RCA),
	90 mV-1 V (jack)
Frequency range	20-20,000 Hz
S/N ratio	> 100 dBA
Crosstalk attenuation	> 56 dB
THD	< 0.05%
Power supply	~ 230 V/50 Hz/350 VA
Dimensions	483 x 44 x 268 mm, 1 RS
Weight	5 kg









STA-235 Order No. 0253210

STA-225

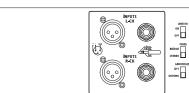


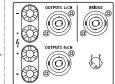
Stereo PA amplifiers, with integrated limiter.

- LCD for indicating temperature, operating mode,
- 2 operating modes can be selected (stereo or bridged)
- Limiter function can be activated as required
- Temperature-controlled fans
- 2 level controls
- Ground lift function
- Speaker switch-on delay
- Protective circuit with LED indication for protection against short circuit and overheating
- Each channel with LEDs for indicating overload, level and signal

Model	STA-235	STA-225
Peak output power	1,400 W	1,000 W
Power rating	1,000 W	700 W
Power rating at 4 Ω	2 x 500 W	2 x 350 W
Power rating at 8 Ω	2 x 400 W	2 x 250 W
Power ratingwith	1 x 1,000 W	1 x 700 W
8Ω bridged oper.		
Inputs	1.2 V/10 kΩ	1.3 V/10 kΩ
Frequency range	10-50,000 Hz	10-50,000 Hz
S/N ratio	> 80 dB	> 80 dB
Crosstalk attenuation	> 50 dB	> 50 dB
THD	< 0.1%	< 0.1%
Power supply	~ 230 V/50 Hz/2,000 VA	~ 230 V/50 Hz/1,500 VA
Dimensions	482 x 100 x 330 mm,	482 x 100 x 330 mm,
	2 RS	2 RS
Weight	11.5 kg	10.3 kg







SA-200

Order No. 0257510

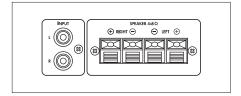


Universal stereo amplifier, 100 W

- Silent operation due to fanless cooling concept
- Stereo line input
- Speaker connection via terminal strip
- LEDs for indicating overload (clip)
- Volume control
- 482 mm (19") rack installation, 1 RS, with supplied mounting brackets

Model	SA-200
Peak output power	2 x 100 W
Power rating	100 W
Power rating at 4 Ω	2 x 50 W
Power rating at 8 Ω	2 x 30 W
Inputs	420 mV/6 kΩ
Frequency range	20-20,000 Hz
S/N ratio	> 83 dB
Power supply	~ 230 V/50 Hz/210 VA
Dimensions	431 x 55 x 255 mm
Weight	4.4 kg





SA-250/SW Order No. 0253390

SA-230/SW Order No. 0250740

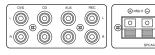


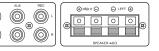
Universal stereo mixing amplifiers

- Silent operation due to fanless cooling concept
- 3 stereo line inputs
- 3 mono microphone inputs on the front panel, each with gain control
- Adjustable digital echo for the microphone inputs
- Karaoke feature
- Vocal partner feature

Model	SA-250/SW	SA-230/SW
Peak output power	2 x 100 W	2 x 50 W
Power rating	100 W	50 W
Power rating at 4 Ω	2 x 50 W	2 x 25 W
Power rating at 8 Ω	2 x 30 W	2 x 20 W
Inputs	175 mV/8 kΩ (line)	175 mV/8 kΩ (line)
	2.5 mV/3.5 kΩ (mic)	2.5 mV/3.5 kΩ (mic)
Frequency range	20-20,000 Hz	20-20,000 Hz
Equalizer bass	± 10 dB	± 10 dB
Equalizer treble	± 10 dB	± 10 dB
S/N ratio	62 dB	62 dB
Power supply	~ 230 V/50 Hz/210 VA	~ 230 V/50 Hz/150 VA
Dimensions	432 x 45 x 275 mm	432 x 45 x 275 mm
Weight	4.5 kg	3.8 kg







SA-130DMP

Order No. 0257760











Stereo amplifier, 140 W with integrated MP3 player, Bluetooth receiver, FM radio and USB interface.

- Bluetooth receiver for wireless connection of laptops, smartphones or tablet PCs
- Adjustable microphone input and aux input on the front panel
- Adjustable stereo line input
- Insert facility, e.g. for effect units, equalizers, feedback controllers
- 2-way tone control
- Adjustable master output

Model	SA-130DMP
Power rating	140 W
Power rating at 4 Ω	2 x 70 W
Inputs	480 mV/20 kΩ (line)
	1.3 mV/500 Ω (mic)
	190 mV/10 kΩ (aux)
	580 mV/22 kΩ (amp in)
Frequency range	20-20,000 Hz
Equalizer bass	± 12 dB/100 Hz
Equalizer treble	± 10 dB/10 kHz
S/N ratio	90 dB
THD	0.1%
Power supply	~ 230 V/50 Hz/350 VA
Dimensions	482 x 44 x 245 mm
Weight	4.9 kg









SA-440/SW

Order No. 0253880





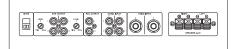
Universal stereo mixing amplifier

- Silent operation due to fanless cooling concept
- 2 stereo line inputs
- 2 balanced microphone inputs
- Parallel stereo line input on the front panel
- 3-way equalizer for each microphone input
- Common 2-way tone control for the two line inputs
- Muting via optional momentary push-button/switch
- 2 adjustable stereo master outputs
- Master output level can be preset via trimming potentiometers
- Adjustable headphone output

Model	SA-440/SW
Peak output power	2 x 100 W
Power rating	100 W
Power rating at 4 Ω	2 x 50 W
Power rating at 8 Ω	2 x 30 W
Inputs	125 mV/10 kΩ (line)
	1.3 mV/600 Ω (mic)
Frequency range	20-20,000 Hz
Equalizer bass	± 12 dB/30 Hz
Equalizer midrange	± 12 dB/1 kHz (voice only)
Equalizer treble	± 12 dB/12 kHz
S/N ratio	> 60 dB
Power supply	230 V~/50 Hz/220 VA
Dimensions	432 x 52 x 275 mm, 1 RS
Weight	3.5 kg

- Stereo record output
- LEDs for indicating overload (clip)





SA-100

Order No. 0254120

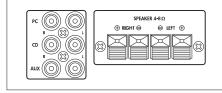


Compact universal stereo amplifier, 50 W

- Silent operation due to fanless cooling concept
- Additional 3.5 mm connection with switchable sensitivity on the front panel
- USB port on the front panel for power supply and for charging external devices
- Audio source selector switch
- Controls for volume, bass and treble
- 6.3 mm headphone output
- Robust metal housing

Model	SA-100
Peak output power	2 x 50 W
Power rating	50 W
Power rating at 4 Ω	2 x 25 W
Power rating at 8 Ω	2 x 20 W
Inputs	140 mV/46 kΩ (PC, CD, aux)
	140 mV/12 kΩ, 25 mV/32 kΩ
	(player)
Frequency range	20-20,000 Hz
Equalizer bass	± 12 dB
Equalizer treble	± 12 dB
S/N ratio	> 70 dB
Power supply	~ 230 V/50 Hz/150 VA
Dimensions	212 x 56 x 250 mm
Weight	2.6 kg





SA-50

Order No. 0254620

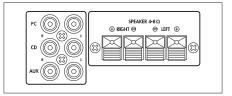


Compact universal stereo amplifier, 25 W

- Silent operation due to fanless cooling concept
- Additional 3.5 mm connection with switchable sensitivity on the front panel
- Audio source selector switch
- Controls for volume, bass and treble
- 6.3 mm headphone output
- Robust metal housing

Model	3A-30
Peak output power	2 x 25 W
Power rating	25 W
Power rating at 4 Ω	2 x 12.5 W
Power rating at 8 Ω	2 x 10 W
Inputs	115 mV/12 kΩ (PC),
	115 mV/12 kΩ (CD),
	115 mV/12 kΩ (aux),
	115 mV/12 kΩ (player, high),
	20 mV/32 kΩ (player, low)
Frequency range	20-20,000 Hz
Equalizer bass	± 12 dB
Equalizer treble	± 12 dB
S/N ratio	> 65 dB
Power supply	~ 230 V/50 Hz/50 VA
Dimensions	212 x 56 x 200 mm
Weight	1.8 kg





SA-160BT

Order No. 0256010



Mini stereo amplifier, 2 x 30 W, with Bluetooth interface, NFC and remote control.

- Integrated hi-fi audio amplifier
- \bullet For speakers with an impedance of 8 Ω
- Volume control with integrated source selector function, LED indicator
- Near Field Communication (NFC)
- Gold-plated speaker terminals
- 1 stereo input via RCA jacks L/R
- 1 line output via 3.5 mm stereo jack
- Fixed antenna
- Metal housing
- Power is provided via enclosed power supply

Model	SA-160BT		
Peak output power	2 x 60 W		
Power rating	60 W		
Power rating at 8 Ω	2 x 30 W		
Inputs	660 mV/10 kΩ		
Frequency range	20-20,000 Hz		
S/N ratio	> 99 dBA		
Power supply	via encl. power supply		
Standby current	100 mA		
Dimensions	150 x 49 x 122 mm		
Weight	610 g		
Connections	1 x RCA L/R (line),		
	4 x spring-load. speaker term.		
	(sneakers)		





IWA-05BT/WS

Order No. 0179000



Flush-mounted module with Bluetooth audio receiver/amplifier

- Total amplifier output power: 5 W
- Selectable operating modes: stereo or mono
- Can be linked with any device featuring Bluetooth (A2DP/AVRCP)
- Bluetooth BT2.1+EDR, class 2, operating range: 10 m
- Additional audio input (3.5 mm jack)
- Speaker connection is made via screw terminals
- Flush mounting in standard wall boxes from Ø 45 mm

Model	IWA-05BT/WS
Peak output power	5 W
Power rating	5W
Frequency range	45-20,000 Hz
S/N ratio	> 58 dB
Power supply	via encl. power supply
Power consumption, standby	≈ 0.6 W
Standby current	≈ 30 mA
Weight	74 g
Connections	speaker terminal,
	audio (3.5 mm jack)

• Supplied with receiver unit, flush-mounted frame/ cover frame, power supply







IWA-50WIFI/WS

Order No. 0179020









Hi-fi multi-room amplifier, with Wi-Fi and Bluetooth.

- Integrated class D amplifier 2 x 25 W
- 3 audio sources: Wi-Fi, Bluetooth and AUX
- Multi-room functionalities
- Supports streaming services such as Pandora, YouTube or Spotify
- App 'Home Studio' from DHOME available for iOS devices
- App 'AllPlay Jukebox' available for Android devices
- Wi-Fi configuration via WPS or individual web interface
- Integrated Wi-Fi antenna
- LAN connection jack; Wi-Fi will automatically be deactivated when connected
- Bluetooth version 4.0 (A2DP, AVRCP), class 2, operating range: up to 10 m

Model	IWA-50WIFI/WS
Power rating	2 x 25 W
Power rating at 4 Ω	2 x 10 W @ == 12 V
	2 x 16 W @ == 15 V
Power rating at 8 Ω	2 x 6 W @ 12 V
	2 x 10 W @ == 15 V
	2 x 25 W @ = 24 V
Frequency range	45-20,000 Hz
Power supply	optionally:
	12 V/30 W,
	15 V/45 W,
	24 V/60 W
Dimensions	175 x 100 x 37 mm
Weight	176 g
Connections	RJ45 (LAN)
	3.5 mm jack (AUX)
	screw terminal (speakers, power
	supply)

 \bullet Power is provided via optional DC power supply 12 V, 15 V or 24 V





IWA-50U/SW

Order No. 0179010

Flush-mounted box for IWA-50WIFI/WS

- For wall mounting or flush mounting hi-fi multi-room amplifier IWA-50WIFI/WS
- Rectangular design
- Black plastic



AKB-90WIFI

Order No. 0320090



Hi-fi multi-room amplifier (WLAN), 2 x 45 W

- WLAN standard 802.11 B/G/N, 2.4 GHz
- System is set up via integrated webserver
- Multi-room function
- Integrated digital hi-fi audio amplifier (class D), suitable for speakers with an impedance of 4-8 Ω
- Network streaming via DLNA
- Supported audio formats: MP3, WMA, AAC/AAC+, ALAC, FLAC, APE, WAV
- Network protocols: TCP/IP, RDP, HTTP, UPNP
- Gold-plated speaker terminals

Model	AKB-90WIFI		
Power rating	90 W		
Power rating at 4 Ω	2 x 45 W		
Frequency range	20-20,000 Hz		
S/N ratio	> 98 dB		
Power supply	via encl. power supply		
Weight	750 g		
Connections	speaker terminal L/R		

- Antenna with SMA antenna connection
- Aluminium housing with mounting flange
- Power is provided via enclosed power supply



AKB-60

Order No. 0320740



Active speaker module, mono, 45 W at 4 Ω

- Active module for activating passive speakers
- Line input via XLR or RCA
- Adjustable master output
- Very well-suited as a measuring amplifier of acoustic analysers
- Fanless concept with large heat sink

Model	AKB-60	
Peak output power	60 W	
Power rating	45 W	
Power rating at 4 Ω	45 W	
Power rating at 8 Ω	30 W	
Inputs	0.4 V/20 kΩ bal., 11 kΩ unbal.	
Frequency range	15-50,000 Hz	
S/N ratio	> 80 dB	
THD	< 0.01%	
Power supply	~ 230 V/50 Hz/90 VA	
Dimensions	212 x 52 x 190 mm	
Weight	2.2 kg	
Connections	1 x XLR input, bal.,	
	1 x RCA L/R (input),	
	speaker cable (4-8 Ω)	



PA-302

Order No. 0171270

Mono PA mixing amplifier, 14 W.

- 1 microphone input and 1 line input, adjustable
- 2 speaker outputs, switchable
- Built-in speaker
- Can also be operated as an intercom system
- Supplied with hand-held push-to-talk microphone
- Siren and fog horn, automatic fog horn
- Metal housing
- Supplied with mounting brackets
- 12/24 V battery operation, automatic switching

Model	PA-302		
Peak output power	20 W		
Power rating	14 W		
Inputs	3 mV (mic),		
	50 mV (line)		
Frequency range	20-20,000 Hz		
S/N ratio	65 dB		
THD	< 0.5%		
Power supply	12-15 V/2 A,		
	24 V/1 A		
Dimensions	175 x 60 x 170 mm		
Weight	1.4 kg		
Connections	1 x 6.3 mm jack (mic input),		
	1 x RCA (line input),		
	2 x 2-pole plug-in screw terminal (speakers),		
	1 x 3-pole plug-in screw terminal with jumper		
	(external speakers)		
Weight	175 x 60 x 170 mm 1.4 kg 1 x 6.3 mm jack (mic input), 1 x RCA (line input), 2 x 2-pole plug-in screw terminal (speakers), 1 x 3-pole plug-in screw terminal with jumper		



PA-102

Order No. 0172970

Mono PA mixing amplifier, 8.5 W

- 1 adjustable microphone input
- 1 adjustable line input
- Supplied with hand-held push-to-talk microphone
- Siren function via push-button
- Metal housing
- Supplied with mounting brackets
- 12 V battery operation

Model	PA-102	
Peak output power	15 W	
Power rating	8.5 W	
Inputs	3.4 mV/2.2 kΩ (mic),	
	240 mV/11 kΩ (line)	
Frequency range	20-20,000 Hz	
S/N ratio	70 dB	
THD	< 0.3%	
Power supply	= 12 V/2 A	
Dimensions	151 x 41 x 115 mm	
Weight	410 g	
Connections	1 x 6.3 mm jack (mic input),	
	1 x RCA L/R (line input),	
	plug-in screw terminals (speakers),	
	plug-in screw terminals (power supply)	



PAM-10

Order No. 0170150



PA amplifier, with zone paging microphone.

- Integrated amplifier 10 W
- \bullet Talk button and volume control, speaker connection 4-16 Ω
- Power supply: ~ 230 V/50 Hz/12 VA
- Dimensions: 167 x 65 x 130 mm
- Mains operation



ICM-20H

Order No. 0174970

Intercom system, cable-connected, consisting of desktop microphone and separate call station. Ideally suited, e.g. for reception desks and sales counters.

Desktop microphone:

- 300 mm gooseneck, removable (XLR connection)
- Electret microphone cartridge, cardioid polar pattern
- Built-in amplifier and speaker
- Volume control
- Push-to-talk button
- Headphone connection (3.5 mm jack) with automatic

- switch-off of the built-in speaker
- Power is provided via enclosed power supply
- Dimensions console housing: 115 x 65 x 170 mm

Call station:

- Built-in speaker and microphone
- Call button (buzzer)
- 3 m connection cable for connection to desktop microphone
- Supplied with mounting accessories for attachment to glass panels
- Power supply via desktop microphone
- Dimensions: Ø 85 mm x 35 mm



TALKSAFE

Order No. 1000189



The TALKSAFE kit consists of:

- − 1 x microphone station for customers
- 1 x microphone station for staff
- 1 x power supply
- Including required cables
- Including double-sided adhesive tape

The TALKSAFE can very easily be integrated into your environment and workflows:

- Non-contact: infrared sensors detect if a person is standing in front of the device
- Retrofitting: no integration into existing systems or networks required
- Hygiene: device can easily be cleaned with a surface cleaner
- POS: ideally suited for highly frequented areas
- No extensive staff training required

Model	TALKSAFE	
Description	intercom system	
Nominal value	activation/deactivation via infrared	
Туре	microphones: AEC technology	
	(Acoustic Echo Cancellation/echo	
	compensation)	
	and NR technology	
	(Noise Reduction/suppression of	
	ambient noise)	
Colour	white	
Material	ABS plastic	
Suitable for	hygiene walls	
Power supply	via encl. power supply	
Admiss. ambient temp.	-10 °C to +40 °C	
Dimensions	86 x 111 x 26 mm (mic. station)	
Length	connection cable: 1 m	
	mains cable: 2 m	
Weight	160 g per microphone station	





TALKSAFE-1

Order No. 1000190



The TALKSAFE-1 kit consists of:

- − 1 x microphone station for customers
- − 1 x on-ear headset for staff (Bluetooth)
- 1 x power supply
- Incl. required cables
- Incl. double-sided adhesive tape

The TALKSAFE-1 can very easily be integrated into your environment and workflows:

- Non-contact: infrared sensors detect if a person is standing in front of the device
- Retrofitting: no integration into existing systems or networks required
- Hygiene: device can easily be cleaned with a surface cleaner
- POS: ideally suited for highly frequented areas
- No extensive staff training required

Model	TALKSAFE-1
Description	intercom system
Nominal value	activation/deactivation via infrared
Type microphones: AEC technology	
	(Acoustic Echo Cancellation/echo
	compensation)
	and NR technology
	(Noise Reduction/suppression of
	ambient noise)
Colour	white
Material	ABS plastic
Suitable for	hygiene walls
Power supply	via encl. power supply
Admiss. ambient temp.	-10 °C to +40 °C
Dimensions	86 x 111 x 26 mm (mic. station)
Weight	160 g per microphone station





MONACOR TALKSAFE

Maximum mobility with ideal speech intelligibility

- Non-contact, fully automatic intercom with impressive functionality
- Safe and clear communication for doctors' surgeries, pharmacies, petrol stations or hotels
- No complex installation necessary, suitable for simple retrofitting



Your Poject is Our Project

DH-95N

Order No. 0230030

DH-95NP

Order No. 0234100

Dynamic hand-held microphones

- Low impedance
- With push-to-talk button
- Particularly suitable for CB and PA
- Supplied with microphone holder
- 300-6,000 Hz, 2.5 mV/Pa/1 kHz, 500 Ω

DH-95N: helix connection cable with open cable

DH-95NP: helix connection cable with 6.3 mm stereo plug

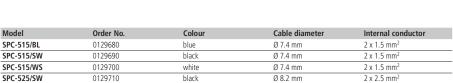


Speaker Cables

"TOP QUALITY, HIGHLY FLEXIBLE"

- 100 m reel
- Suitable for stage applications as well as for 100 V line technique
- Metre marking







CAT-7100A

Order No. 0068900



Cat. 7_A installation cable, multiple shield., S/FTP

- 100 m, shrink-wrapped coil
- 10 Gbps, 1,000 MHz
- Conductor pairs in metal foil (PiMF), complies with EIA/TIA 568
- Overall braided shield
- Cable specification: 4x2xAWG 23
- Outside diameter: Ø 7.50 mm



Signal Cables

For alarm, PA and communication technology.



• Type J-Y(St)Y acc. to VDE 0815

• Copper index: 21 kg/km

• Common foil shield

• (



Copper wires with coloured insulation	

Model	Order No.	Length	Colour	Cable diameter	Internal conductor
JYSTY-2208	0111340	100 m	grey	Ø 7 mm	4 x Ø 0.8 mm, 0.5 mm ²
JYSTY-2206	0192310	100 m	grey	Ø 5.5 mm	4 x Ø 0.6 mm, 0.28 mm ²



CST-2

Order No. 0311500

Stripping tool for coaxial cables

- For gradually stripping of all standard coaxial cables, also suitable for flexible cables, e.g. 3 x 0.75 mm², 10 mm² and 16 mm²
- Easy handling due to ergonomic design
- Adjusting the cutting depth is not required



CST-5

Stripping tool, self-adjusting,

- Extra large working range: 0.2-6.0 mm²
- Stripping length: 8-12 mm
- Glass fibre reinforced polyamide
- Stripping tool and side cutter (up to: Ø 2 mm) made of hardened special steel



CAT-1TOOL

Order No. 0310060

Network punch down tool

- For LSA connection technology (without soldering, screwing and stripping)
- Metal insertion blade
- Draw-hook and blade release, folding
- Belt clip



CAT-1TEST

Order No. 0292070

Line tester, for testing the continuity of Cat. 5, Cat. 6 and ISDN network lines.

- Detection of continuity, miswiring, disconnection, short circuit, crossover cable and earthing
- Power supply via 9 V battery (not supplied)
- Supplied with protective bag



CC-132

Order No. 0348670

CC-133

Order No. 0347180

CC-135

Order No. 0347420

Connecting terminals from WAGO

- Terminal with operating levers
- For flexible conductors: 0.08-4 mm²
- For rigid conductors: up to 2.5 mm²
- Power rating 2.5 mm²: 400 V/24 A, 4 mm²: 400 V/32 A



CC-132: 2-conductor terminal

CC-133: 3-conductor terminal CC-135: 5-conductor terminal CC-142

Order No. 0342270 **CC-143**

Order No. 0342360

CC-145

Order No. 0342460

Connecting terminals from WAGO

- Terminal with operating levers
- Individually combinable wires and cross sections from 0.14 to 4 mm²
- Power rating: 450 V/32 A
- Two test slots for any standard test prod



CC-142: 2-conductor terminal

CC-143: 3-conductor terminal CC-145: 5-conductor terminal

RWM-2D Order No. 0256080

RWM-1D



Order No. 0256070

Rack-mount cable ducts, for

horizontal cable routing in 482 mm (19") racks, e.g. RACK-33NV.

- Metal rack panels, black powdercoated
- Black plastic cable duct

RWM-1D: 1 RS, 482 x 44 x 70 mm RWM-2D: 2 RS, 482 x 88 x 70 mm



RWM-2H

Order No. 0256090



Rack-mount patch cable management panel, for 482 mm (19") racks.

- · Metal rack panel, black powder-coated
- 5 black plastic brackets
- 482 x 88 x 90 mm, 2 RS



RACK-42NV

Order No. 0257650

RACK-33NV

Order No. 0257640

RACK-21NV

Order No. 0257630



RACK-15NV Order No. 0257620

Equipment racks for 482 mm (19") devices

- Sheet steel version
- Light grey powder coating (RAL 7035)
- Front door with safety glass and swivel handle lock
- Hinges can easily be changed for door to be opened to the left or to the right
- Side walls and rear wall can be removed and locked
- Supplied with earthing set, 4 levelling feet and 28 mounting kits

RACK-42NV: 42 RS RACK-33NV: 33 RS RACK-21NV: 21 RS **RACK-15NV: 15 RS**

Image similar.



Model	RACK-42NV	RACK-33NV	RACK-21NV	RACK-15NV
Size	482 mm (19")	482 mm (19")	482 mm (19")	482 mm (19")
Rack spaces, RS	42	33	21	15
Colour	light grey (RAL 7035)			
Mounting accessories	earthing set, 28 mounting kits			
Usable depth	590 mm	590 mm	590 mm	590 mm
Outside dimensions	600 x 1,978 x 600 mm	600 x 1,578 x 600 mm	600 x 1,045 x 600 mm	600 x 778 x 600 mm
Max. load capacity	500 kg	300 kg	300 kg	300 kg
Weight	73 kg	55 kg	42 kg	38 kg

RACK-12W

Order No. 0244520

RACK-6W Order No. 0244540



Wall-mounted housings for 482 mm (19") devices

- Sheet steel version
- Light grey powder coating (RAL 7035)
- Lockable front door with safety glass
- Door can be opened either to the left or to the right
- Side walls and rear wall can be removed and locked
- Maximum mounting depth behind the front plate: 370 mm
- Supplied with earthing set and 16 sets of mounting screws

RACK-12W: 12 RS RACK-6W: 6 RS

Model	RACK-12W	RACK-6W
Size	482 mm (19")	482 mm (19")
Rack spaces, RS	12	6
Colour	grey (RAL 7035)	grey (RAL 7035)
Mounting accessories	earthing set, 16 sets of	earthing set, 16 sets of
	mounting screws	mounting screws
Usable depth	380 mm	380 mm
Outside dimensions	600 x 624 x 400 mm	600 x 358 x 400 mm
Max. load capacity	40 kg	40 kg
Weight	24 kg	15 kg



RACK-12WP Order No. 0244530





Wall-mounted housings for 482 mm (19")

devices, with movable middle part of the housing.

- Sheet steel version
- Light grey powder coating (RAL 7035)
- Lockable front door with safety glass
- Door can be opened either to the left or to the right
- Side walls and rear wall can be removed and locked
- Max. mounting depth behind the front plate: 470 mm
- Supplied with earthing set and 16 sets of mounting screws

RACK-12WP: 12 RS RACK-6WP: 6 RS

Model	RACK-12WP	RACK-6WP
Size	482 mm (19")	-
Rack spaces, RS	12	6
Colour	grey (RAL 7035)	grey (RAL 7035)
Mounting accessories	earthing set, 16 sets of	earthing set, 16 sets of
	mounting screws	mounting screws
Usable depth	490 mm	490 mm
Outside dimensions	600 x 624 x 500 mm	600 x 358 x 500 mm
Max. load capacity	40 kg	40 kg
Weight	26 kg	19 kg



Audio Players Players

CD-156

Order No. 0212410



Stereo CD and MP3 player, with USB 2.0 interface, for hi-fi and PA applications.

- USB storage media can be connected directly (e.g. USB hard disk, USB flash drive)
- Anti-shock system
- Repeat function (repeat 1, repeat all), random play, standard operating functions
- Adjustable headphone output
- Supplied with infrared remote control with direct track selection
- 482 mm (19") rack installation with supplied mounting brackets, 2 RS
- Audio CD/CD-R/MP3 CD



Model	CD-156
Frequency range	20-20,000 Hz
THD	< 0.1%
Channel separation	> 80 dB
Dynamic range	> 90 dB
S/N ratio	> 80 dB
Output, analogue	2 V
Power supply	~ 230 V/50 Hz/25 VA
Dimensions	420 x 90 x 285 mm, 2 RS
	(w/o mounting brackets)
Weight	3.66 kg
Connections	1 x RCA L/R,
	1 x 6.3 mm jack (headphones)

DMP-130MIXBT

Order No. 1000062











MP3 player and microphone line mixer

With this unit combination, it is possible to mix 3 audio signal sources. The integrated MP3 player can be switched between SD card, USB port and Bluetooth receiver.

- For USB and SD storage media
- Alphanumeric display
- Repeat function
- Preprogrammed sound adjustments
- 3 input channels with level control (mic, aux/MP3, line)
- Aux input and microphone input via front panel connection
- 2-way tone control and level control for the master output



- Infrared remote control for MP3 player
- Blue backlit LCD
- 482 mm (19") rack installation

Model	DIMP-130MIXB1
Media	MP3, USB, SD, MMC
Frequency range	20-20,000 Hz
THD	< 0.1%
Channel separation	> 60 dB
Dynamic range	> 96 dB
S/N ratio	> 70 dB
Output, analogue	2 V (XLR, bal.)
	1 V (RCA)
Power supply	~ 230 V/50 Hz/20 VA
Dimensions	482 x 44 x 165 mm, 1 RS
Weight	2.36 kg
Connections	1 x combo 6.3 mm/XLR (mic/line),
	1 x 3.5 mm jack (aux in),
	1 x RCA L/R (line in),
	1 x RCA L/R (line out),
	1 x XLR L/R, bal. (output)







www.monacor.com/academy

CD-112/BT

Order No. 0212940



CD and MP3 player, with Bluetooth receiver,

USB interface and SD/MMC card slot.

- Bluetooth receiver for wireless connection of laptops, smartphones or tablet PCs
- USB storage media can be connected directly
- For SD/MMC cards up to 32 GB (FAT16/FAT32), available at option
- Anti-shock system
- Supports ID3 tags
- Folder navigation
- Autoplay function
- Fast forward and reverse
- Track programming
- Repeat function (repeat 1, repeat all, random repeat)
- Random play
- Supplied with infrared remote control



- 482 mm (19") rack installation with supplied mounting brackets, 1 RS
- Audio CD/CD-R/CD-RW/MP3 CD

CD-112/BT
CD, MP3, USB, SD, MMC
20-20,000 Hz
< 0.1%
> 60 dB
> 96 dB
> 70 dB
1.2 V
~ 230 V/50 Hz/50 VA
482 x 44 x 265 mm, 1 RS
3.97 kg
1 x RCA L/R (CD)
1 x RCA L/R (Bluetooth)
1 x RCA L/R (priority)

CD-112RDS/BT

Order No. 0212950



CD and MP3 player with FM RDS tuner and

Bluetooth receiver.

- Bluetooth receiver for wireless connection of laptops, smartphones or tablet PCs
- FM RDS tuner with 30 station presets
- USB storage media can be connected directly
- For SDHC cards up to 32 GB (FAT16/FAT32), available at option
- Anti-shock system
- Supports ID3 tags
- Folder navigation
- Autoplay function
- Fast forward and reverse
- Track programming
- Repeat function (repeat 1, repeat all, repeat folder)
- Random play
- RS-232 interface for remote control
- Supplied with infrared remote control and antenna



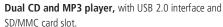
- 482 mm (19") rack installation with supplied mounting brackets, 1 RS
- Audio CD/CD-R/CD-RW/MP3 CD

Model	CD-112RDS/BT
Media	CD, MP3, FM, USB, SD, MMC
Frequency range	20-20,000 Hz
THD	< 0.1%
Channel separation	> 60 dB
Dynamic range	> 96 dB
S/N ratio	> 70 dB
Output, analogue	1.2 V
Power supply	~ 230 V/50 Hz/50 VA
Dimensions	482 x 44 x 265 mm, 1 RS
Weight	4.1 kg
Connections	1 x XLR L/R, bal. (CD)
	1 x XLR L/R, bal. (priority)
	1 x RCA L/R (Bluetooth)
	1 x RCA L/R (tuner)

CD-122

Order No. 0212820





- USB storage media can be connected directly
- For SD/MMC cards up to 32 GB (FAT16/FAT32), available at option
- Anti-shock system
- Supports ID3 tags
- Folder navigation
- Autoplay functionFast forward and reverse
- Track programming
- Repeat function (repeat 1, repeat all)
- Random play
- Supplied with infrared remote control
- 482 mm (19") rack installation with supplied mounting brackets, 1 RS
- Audio CD/CD-R/CD-RW/MP3 CD



Model	CD-122
Media	CD, MP3, USB, SD, MMC
Frequency range	20-20,000 Hz
THD	< 0.1%
Channel separation	> 60 dB
Dynamic range	> 96 dB
S/N ratio	> 70 dB
Output, analogue	1.2 V
Power supply	~ 230 V/50 Hz/50 VA
Dimensions	482 x 44 x 265 mm, 1 RS
Weight	4.3 kg
Connections	2 x RCA L/R

WAP-202

Order No. 0179270



Internet radio, FM RDS and DAB+ tuner, MP3 player

- Bluetooth interface
- Network connection via LAN jack or WLAN
- Access to more than 20,000 radio stations worldwide
- Station scan by genre, station name, location
- Media streaming allows you to share media files within the network (UPnP server)
- FM RDS reception function
- Reception of interference-free digital radio (DAB+)
- USB host input for directly playing MP3, AAC, AAC+, WMA, WAVE and FLAC files
- Multi-room function
- Easy operation via jog dial
- Large illuminated matrix display
- Equalizer with factory presets and user presets
- Shuffle play and repeat folder via USB
- Summer time/winter time selection
- Sleep timer and alarm function with snooze
- Can be remote-controlled via infrared remote control or app
- Aux input on the front panel (3.5 mm stereo jack)
- Headphone output (3.5 mm stereo jack)
- 75 Ω FM antenna input, coaxial
- SMA RP antenna connection



- Supplied with infrared remote control, rod antenna and FM wire antenna
- 482 mm (19") rack installation, 1 RS, removable mounting brackets

Model	WAP-202
Media	Bluetooth, FM, DAB+, MP3, LAN/
	WLAN
Output, analogue	750 mV
Power supply	~ 230 V/50 Hz/20 VA
	15 V/300 mA
Operating voltage (poss. alternative)	15 V
Power supply (poss. alternative)	300 mA
Dimensions	482 x 44 x 245 mm
Weight	2.7 kg
Connections	1 x 3.5 mm stereo jack (aux in),
	1 x RCA L/R (line out),
	1 x 3.5 mm stereo jack
	(headphones),
	1 x RJ45 (LAN)
	1 x Bluetooth antenna
	1 x WLAN antenna

FM-102DAB

Order No. 0174490



Digital stereo tuner for reception of FM and DAB+

- FM radio reception (87.5-108 MHz) with RDS function
- Reception of interference-free digital radio via digital audio broadcasting (DAB+, band III, 174.928-239.2 MHz)
- Display of additional broadcasting information,
 e.g. frequency, name of radio station, genre, name of the track, artist
- Large backlit dot matrix display
- Field intensity display
- 20 station presets each for FM mode and DAB mode
- 10 station keys with double assignment
- Manual frequency adjustment and station adjustment
- Automatic station scanning
- Mono/stereo selection
- Sleep mode
- \bullet 75 Ω antenna input
- Supplied with infrared remote control and telescopic
- 482 mm (19") rack installation, 1 RS, removable mounting brackets



Model	FM-102DAB
Media	FM, DAB+
Power supply	~ 230 V/50 Hz/50 VA
Dimensions	482 x 44 x 185 mm
Weight	2.66 kg
Connections	1 x RCA L/R

M-32CD



CD player module, with anti-shock system and MP3 reproduction.

- Slot-in mechanism
- USB port for external storage media
- SD/MMC card slot for SD cards up to 32 GB, available at option
- Random play, repeat function
- Single play function
- Track programming
- Connection for foot switch for remote control of play/pause function
- Supplied with remote control

D, MP3, USB, SD (MMC, SD, SDHC) 0-20,000 Hz 0.1%
O 10/-
0.170
60 dB
70 dB
2 V
12 V/800 mA
74 x 52 x 160 mm

• Mounting cutout: 155 x 50 x 150 mm

- Audio CD/CD-R/CD-RW/MP3 CD
- RCA connection cable DMP-12CC is available at



DPR-10

Order No. 0172740









- SD/MMC card slot. • USB storage media can be connected directly
- For SD/MMC cards up to 8 GB
- Recording from USB medium, SD/MMC card or external source (aux) onto USB medium or SD/MMC card
- Selectable recording bit rate: 96/128/192 kbps
- Supports ID3 tags
- Track programming
- Folder navigation
- Supplied with infrared remote control

Model	DPR-10
Media	MP3, USB, SD, MMC
Frequency range	20-20,000 Hz
THD	< 0.3%
Channel separation	> 60 dB
Dynamic range	> 96 dB
S/N ratio	> 60 dB
Output, analogue	1.2 V
Power supply	via optional
	power supply,
	e.g. PSS-600E
Dimensions	175 x 52 x 110 mm
Weight	545 g



DMP-102

Order No. 0177090









Compact MP3 player insertion module, with USB interface and SD/MMC card slot.

- USB storage media can be connected directly
- For SD/MMC cards (FAT16/FAT32), available at option
- Autostart function
- Fast forward and reverse
- Repeat function (repeat 1, repeat all)
- Green backlit LCD
- Supplied with infrared remote control
- RCA cable DMP-12CC is available at option

Model	DMP-102
Media	MP3, USB, SD, MMC
Frequency range	20-20,000 Hz
THD	< 0.2%
Channel separation	> 60 dB
S/N ratio	> 75 dB
Output, analogue	500 mV
Power supply	12 V/150 mA
Dimensions	120 x 22 x 58 mm
Weight	39 g



DR-463









WLAN Internet radio adapter, with DLNA, DAB+, FM and Bluetooth.

- Internet/DAB+/FM radio/Bluetooth
- DLNA home networking can be activated with suitable
- Radio operation via smartphone
- Playing your own music via smartphone
- Bluetooth for using streaming services like Spotify, Apple Music, Google Play Music, etc. via smartphone
- Large colour display
- 250 Internet radio stations can be stored
- Clock radio with 2 alarm clock settings, timer, sleep timer

- Weather forecast for 5,000 cities worldwide, 500 of which are in Germany
- Power saving mode/dimmer
- Menu navigation in 17 languages
- Line out jack
- WLAN
- Streaming media via UPnP and DLNA
- Smart Home Ready
- Connection for external antenna (IEC)
- Scope of delivery: remote control (incl. batteries), RCA cable, power supply, wire antenna, antenna adapter



Model	DR-463
Media	UPnP, DLNA, DAB+, Bluetooth
Frequency range	20-20,000 Hz
Power supply	~ 230 V
Admiss. ambient temp.	0-40 °C
Dimensions	190 x 75 x 35 mm
Weight	256 g
Connections	line out antenna

The versatile audio matrix system DRM-884 ...

A general solution for versatile multi-room PA concepts with fixed installations in hotels, restaurants and bars, conference rooms, schools, sports and fitness centres.

The matrix system DRM-884 is a professional tool with extensive features which easily meets any requirement: users can combine signal sources, play one source in several zones or several sources in one zone, adjust the volume in each zone and much more. The audio matrix router DRM-884 is the core piece of the system which is able to distribute a maximum of 8 analogue and 4 digital audio sources to just as many output zones, any assignment possible. You can either connect active speakers or a power amplifier with passive speakers to the output zones via Phoenix terminals.

The multifunctional matrix system is controlled via wall panels: modules DRM-884VAP and DRM-884VP allow you to remotely access, e.g. level and program selection in the different zones. The wall panel DRM-884IOP allows for other connection options, e.g.

at the location of the PA application. The zone paging microphone DRM-884RC with zone selection can be connected for announcements.

Expand your options with the matrix system: if you need a larger number of inputs and outputs, the system can be extended by cascading a maximum of 16 x DRM-884 devices and an optional Dante[®] module to up to 192 inputs x 192 outputs.

With the Dante® extension module DRM-884DTM, the DRM-884 can quickly and easily be inserted into a Dante® audio network. For this purpose, there are an additional 8 digital inputs or 8 digital outputs available which can be assigned to either an analogue output or a Dante® channel.



DRM-884

Order No. 0176940

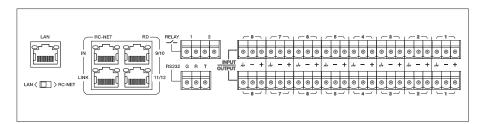


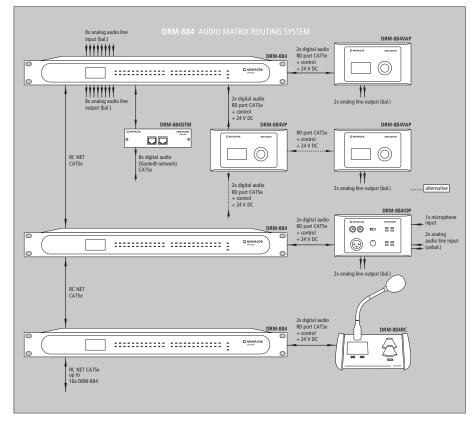
Audio matrix router

- 8 analogue inputs and 8 analogue outputs
- 4 digital inputs and 4 digital outputs for the extensions DRM-884RC, DRM-884IOP and DRM-VAP
- An additional 8 digital inputs and 8 digital outputs via Dante[®] module DRM-884DTM, available at option
- DSP for inputs and outputs, control via software
- Integrated auto mixer, feedback controller and ducker
- Predefined types of filters 6-48 dB/oct. (Butterworth, Bessel, Linkwitz-Riley)
- Up to 2 zone paging microphones DRM-884RC can be connected
- Wall modules DRM-884IOP, DRM-884VAP and DRM-884VP can be connected as an extension
- Link function for several audio matrix routers DRM-884
- LCD for showing device information
- LED status indication
- LED indication for clip and signal per input and output
- 482 mm (19") rack installation

System requirements: Windows* 7/8/10

Model	DRM-884
Frequency range	20-20,000 Hz
Input impedance	5 kΩ
Output impedance	240 Ω
Phantom power	48 V
Channel separation	> 87 dBA
THD	< 0.01%
Power supply	~ 230 V/50 Hz/80 VA
Dimensions	482 x 44 x 270 mm, 1 RS
Weight	4.22 kg
Inputs	screw terminals
Outputs	screw terminals
Other features	5 x RJ45





DRM-884RC

Order No. 0176990

PA zone paging microphone, for audio matrix router DRM-884.

- LCD for selected zones (1-32), volume and ID number
- LED indication for signal status
- Volume control (assignable for each zone)
- Zone selector control
- Momentary push-to-talk button
- Plug-in electret gooseneck microphone (NEUTRIK 3-pole XLR jack)
- USB port for loading sound files containing chimes
- Power supply via audio matrix router DRM-884
- Connection to DRM-884 via RJ45 jack and Cat. 5e network cable (supplied w/o cable), cable length: up to 100 m



DRM-884IOP

Order No. 0176960

Wall module, for remote control of audio matrix router DRM-884.

- Intended application: remote control of one zone, local insertion of audio signals
- 2 RCA jacks for line signals
- Adjustable microphone connection via NEUTRIK 3-pole XLR jack
- 48 V phantom power, to be activated as required
- LED indication for input signals and output signals

 Connection to DMR-884 and power supply via RJ45 jack and Cat. 5 network cable, cable length: up to 200 m



DRM-884VAP

Order No. 0176970

Wall module, for remote control of audio matrix router DRM-884.

- Intended application: volume control with audio output
- LCD
- Volume control
- Connection to DRM-884 via RJ45 jack and Cat. 5e network cable (supplied w/o cable), cable length: up to 200 m



DRM-884VP

Order No. 0176980

Wall module, for volume control of audio matrix router DRM-884.

- Intended application: volume control
- LCD
- Volume control
- Connection to DRM-884 via RJ45 jack and Cat. 5e network cable (supplied w/o cable), cable length: up to 1,000 m



DRM-884DTM

Order No. 0176950



Dante® module, for inserting audio matrix router DRM-884 into a Dante® network.

- Audio transmission via Ethernet using Dante® protocol
- 8 digital inputs and 8 digital outputs
- Easy signal control via network technology
- Mini PCI plug-in board
- Connections: 2 x RJ45

System requirements: Windows* 7/8/10 or MacOS X

The brand Dante® as well as the Dante® software which may have been integrated into these products are licenced by Audinate Pty Ltd.



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MONACOR INTERNATIONAL INSTALLATION

Audio Matrix System

The system ARM-880... from MONACOR is a highly flexible PA solution for multi-room applications. It is ideally suited for applications in hotels, in restaurants and bars, in conference rooms, schools, sports facilities and fitness centres. Eight different audio sources, e.g. CD players, SAT receivers, radio programmes can be distributed to 8 output zones, assignment as required.

The audio matrix router ARM-880 is the core piece of the system. For operation, one amplifier is required for each output used. This may be an individual power amplifier or an active speaker system. Matching wall modules ARM-880WP1, ARM-880WP2

and ARM-880WP3 for remote control of ARM-880 or with additional local inputs for the respective zone are available at option.

With a master/slave connection, it is possible to extend the system to up to 32 output zones. Connections for various alarm signals and a local microphone are available. Announcements can be made via 2 optional zone paging microphones ARM-880RC with zone selection.



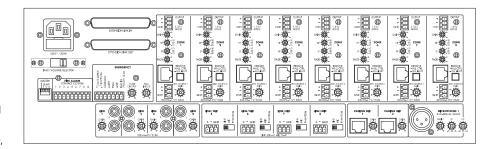
ARM-880

Order No. 0173800

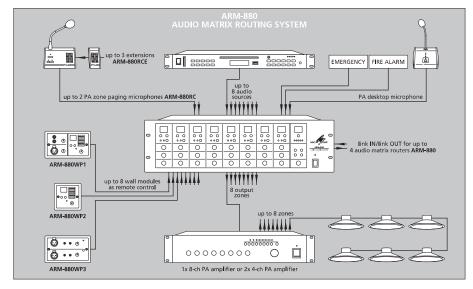


Audio matrix router

- 8 audio inputs and 8 audio outputs
- Inputs 1-4, line, with gain control
- Inputs 5-8, switchable line/mic
- 2 zone paging microphones ARM-880RC and 1 local microphone (for all zones) can be connected
- 1 additional audio input for each zone, non-routable, with gain control
- 8 wall modules ARM-880WP... can be connected as remote control
- Extendable to up to 32 zones
- Microphone, music and master volume controls for each zone
- 2-way tone control for each zone
- Priority management
- Emergency announcement with priority for each zone, even when extended



- 3 different alarm signals
- 7-segment LED display for each zone
- Clipping indicator
- Monitoring function with built-in speaker
- 482 mm (19") rack installation
- Mains operation or 24 V emergency power operation



Model	ARM-880
General Information	-
Frequency range	20-20,000 Hz (line)
	80-18,000 Hz (mic)
Input sensitivity	
Mic 1	300 mV/660 Ω
Zone paging microphone	500 mV/10 kΩ
line 1-4	195 mV-2 V/47 kΩ
line 5-8	350 mV (line)
	5 mV (mic)
zone 1-8	300 mV-1.1 V/10 kΩ
Emergency announcement	775 mV/10 kΩ
Outputs	
zone 1-8	1.5 V/600 Ω
Equalizer bass	± 10 dB/100 Hz
Equalizer treble	± 10 dB/10 kHz
S/N ratio	> 65 dB (mic)
	> 85 dB (line)
THD	< 0.07%
Admiss. ambient temp.	0-40 °C
Power supply	~ 230 V/50 Hz/30 VA
Dimensions	484 x 138 x 325 mm, 3 RS
Weight	10.73 kg
Connections	
Mic 1	1 x XLR
Zone paging microphone	2 x RJ45
Line 1-4	4 x RCA L/R
Linie/Mic 5-8	4 x plug-in screw terminal
Zone 1-8	8 x plug-in screw terminal (IN)
	8 x plug-in screw terminal (OUT)
Wall modules	8 x RJ45
Fire alarm	9-pole plug-in screw terminal
Emergency announcement	1 x plug-in screw terminal
24 V	1 x plug-in screw terminal
Alarm	1 x plug-in screw terminal
EVAC	1 x plug-in screw terminal

ARM-880RC

Order No. 0173810

PA zone paging microphone, for audio matrix router ARM-880.

- 8 zones
- Zones can individually be controlled, group call
- Replaceable label for marking the zones
- Plug-in electret gooseneck microphone (3-pole XLR)
- 2-tone or 4-tone chime, can be switched off
- Volume control for microphone and chime
- LEDs for indicating operation, output level and selected zone
- 8 additional zones with each extension module (available at option), 32 zones in total with a maximum of 3 extension modules, connection via available flat cable
- Connection to ARM-880 via RJ45 jack and Cat. 5 network cable (supplied w/o cable)
- Power is provided via enclosed power supply



ARM-880RCE

Order No. 0173820

8-zone extension module, for PA zone paging microphone ARM-880RC.

- 8 zones can individually be controlled
- Replaceable label for marking the zones
- LED indication for selected zone
- Addressing via DIP switches
- Connection to ARM-880RC or additional ARM-880RCE via flat cable
- Power supply via ARM-880RC



ARM-880WP1

Order No. 0173830

Wall module, for remote control of audio matrix router ARM-880.

- Intended application: remote control of one zone, local insertion of audio signals
- 2 RCA jacks for line signals
- Microphone connection via NEUTRIK 3-pole XLR jack
- Source selector switch
- Level controls for line, microphone and source
- 15 V phantom power
- 7-segment LED display

- Connection to ARM-880 and power supply via RJ45 jack and Cat. 5 network cable. A separate power supply is required for operation with cable lengths of more than 50 m
- Dimensions front panel: 146 x 86 mm
- Supplied with robust flush-mounted metal housing



ARM-880WP2

Order No. 0173840

Wall module, for remote control of audio matrix router ARM-880.

- Intended application: remote control of 1 zone
- Source selector switch
- Level control
- 7-segment LED display
- Connection to ARM-880 and power supply via RJ45 jack and Cat. 5 network cable. A separate power supply is required for operation with cable lengths of more than 50 m
- Dimensions front panel: 86 x 86 mm
- Supplied with robust flush-mounted metal housing



DRM-882LAN

Order No. 0179250









Digital 8x8 matrix router

- 8 inputs and 8 outputs (plug-in screw terminals, switchable mic/line, balanced)
- +48 V phantom power
- User-defined routing of the inputs to the outputs
- The level of each routed input can be adjusted per assigned output (individual output mix)
- Up to 32 devices can be managed via software
- A/D converter: 4 x 24 bits, D/A converter: 1 x 24 bits
- Extensive signal processing and monitoring,
 e.g. frequency shift feedback eliminator, parametric
 5-band equalizer with peak or shelving filters, variable low-pass/high-pass filters: optionally with Bessel,
 Butterworth or Linkwitz-Riley characteristics, RMS compressor, peak limiter, selectable phase, delay
- Integrated auto mixer
- 6-fold LED status cluster for each channel
- 6 user presets can be accessed directly
- Link feature for simultaneously changing the settings of several channels
- Stereo mode for the channels 1/2, 3/4, 5/6 and 7/8
- Dot matrix display with 2 x 24 characters
- Remote control via USB, RS-485 or TCP/IP LAN
- Real-time remote control via software
- Lock mode for front panel control
- Individual room control via optional wall-mounted remote control panel DRM-882WP or DRM-882WPX



- Robust steel housing with aluminium front panel
- 482 mm (19") rack installation, 1 RS

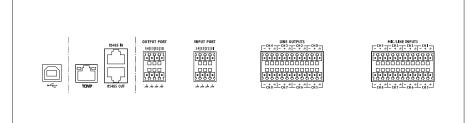
Input (data for each channel):

- Gain control with 0 dB bypass function
- Noise gate
- Mic/line switching
- Selectable priority circuit
- Parametric 3-band equalizer (peak, low-pass shelving, high-pass shelving)
- Frequency shift feedback eliminator
- Selectable phase (180°)

Output (data per channel):

- Low-pass filter/high-pass filter with Butterworth,
 Linkwitz-Riley and Bessel characteristics (to -24 dB/ oct.). Even higher slopes possible in combination with equalizer
- Parametric 5-band equalizer with peak or low-pass/ high-pass shelving filters

- Peak limiter and RMS compressor with a ratio of up to 32:1 and continuously adjustable soft/hard knee characteristics. Threshold: 18 dBu to -12 dBu, release time: 0.1-3 s, attack time: 5-200 ms
- Peak limiter and RMS compressor with bypass function
- Switchable delay between time (ms) and distance (m): 380.998 ms max. in steps of 21 μsec or 129.539 m max. in steps of 6.8 mm
- Selectable phase (180°)
- Gain control



Model	DRM-882LAN
Frequency range	20-20,000 Hz
Input signal	6.2 V max.
Output signal	6.2 V max.
Crossover frequency	70 Hz-1 kHz, 12 dB/oct.,
	910 Hz-8 kHz, 12 dB/oct.,
	subwoofer: 80/120 Hz, 24 dB/oct.
S/N ratio	> 104 dB
THD	< 0.005%
Power supply	~ 230 V/50 Hz/20 VA
Dimensions	482 x 44 x 250 mm, 1 RS
Weight	3.4 kg

DRM-882WP

Order No. 0170014

Wall-mounted remote control panel, for digital matrix router DRM-882LAN.

- The first 4 presets of the DRM-882LAN can be activated at the touch of a button
- Preset status display
- Individual adjustment of the master volume
- Protected from unauthorised access via key switch
- Connection to DRM-882LAN via RS485 interface



 Power supply: = 5 V/20 mA via optional power supply PSS-510DC

DRM-882WPX

Order No. 0170015

Wall-mounted remote control panel, for digital matrix router DRM-882LAN.

- 3 operating modes: system setup, master and zone
- Momentary push-buttons to select the 6 presets of the DRM-882LAN
- Volume control for each zone
- Gain control
- Source selection for each zone
- Auto standby (selectable)
- Lock mode
- LCD with 2 x 20 characters
- Connection to DRM-882LAN via RS485 interface



- Power supply: = 12 V/75 mA via optional power supply PSS-1205DC
- Supplied with flush-mounted housing

DSM-48LAN

Order No. 0255770



Digital speaker management system

- 4 analogue inputs and 8 analogue outputs (XLR, balanced)
- 1 x AES/EBU digital input, stereo
- 64-bit DSP, sampling rate: 96 kHz
- Dynamic range: > 118 dB
- Latency: 0.64 ms
- 80 user presets can be stored
- Remote control via USB or TCP/IP LAN, iOS app
- Dot matrix display with 2 x 16 characters
- 482 mm (19") rack installation, 1 RS

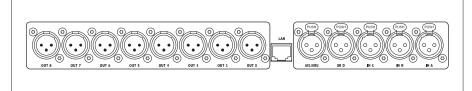
Input (data for each channel)

- Gain control: -48 dB to +12 dB
- 10 parametric equalizers with 8 types of filters each
- 2 crossover networks
- Delay
- Limiter threshold: from -48 dBu to +24 dBu
- Compressor release time: 10 dB/s to 100 dB/s
- Mute



Output (data for each channel)

- Gain control: -48 dB to +12 dB
- 10 parametric equalizers with 8 types of filters each
- 2 crossover networks
- Delay
- Limiter threshold: from -48 dBu to +24 dBu
- Compressor release time: 10 dB/s to 100 dB/s
- Mute
- Routing mix for level adjustment via routing fader
- Selectable phase (invert, 180°)



Model	DSM-48LAN
Frequency range	10-40,000 Hz
Input signal	11 V max.
Output signal	4 V max.
S/N ratio	> 110 dB
THD	< 0.005%
Power supply	230 V ~/50 Hz/15 VA
Dimensions	482 x 44 x 185 mm, 1 RS
Weight	2.17 kg

DSM-26LAN

Order No. 0255760











Digital speaker management system

- 2 analogue inputs and 6 analogue outputs (XLR, balanced)
- 1 x AES/EBU digital input, stereo
- 64-bit DSP, sampling rate: 96 kHz
- Dynamic range: > 118 dB
- Latency: 0.64 ms
- 80 user presets can be stored
- Remote control via USB or TCP/IP LAN, iOS app
- Dot matrix display with 2 x 16 characters
- VU meter with 4 LEDs for each channel, level display and peak
- 482 mm (19") rack installation, 1 RS

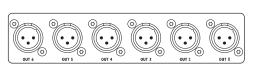
Input (data for each channel)

- Gain control: -48 dB to +12 dB
- 10 parametric equalizers with 8 types of filters each
- 2 crossover networks
- Delay
- Limiter threshold: from -48 dBu to +24 dBu
- Compressor release time: 10 dB/s to 100 dB/s
- Mute

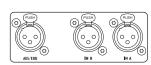


Output (data for each channel)

- Gain control: -48 dB to +12 dB
- 10 parametric equalizers with 8 types of filters each
- 2 crossover networks
- Delay
- Limiter threshold: from -48 dBu to +24 dBu
- Compressor release time: 10 dB/s to 100 dB/s
- Mute
- Routing mix for level adjustment via routing fader
- Selectable phase (invert, 180°)







Model	DSM-26LAN
Frequency range	10-40,000 Hz
Input signal	11 V max.
Output signal	4 V max.
S/N ratio	> 110 dB
THD	< 0.005%
Power supply	~ 230 V/50 Hz/15 VA
Dimensions	482 x 44 x 185 mm, 1 RS
Weight	2.13 kg

PA-6040MPX

Order No. 0174760



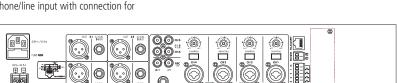
4-zone mixer, for general multi-room PA applications.

- 4 zones with user-defined routing of all input channels
- 4 inputs microphone/line via comb. jacks
- 2 inputs line stereo via RCA jacks
- Each input channel with gain control, 2-way tone control and zone routing switch
- Microphone inputs with 15 V phantom power, to be activated as required
- Independent paging input, can be routed to each zone
- 4 zone outputs, can be adjusted individually
- Monitor output and record output
- Each microphone/line input with connection for

external chime button, 2-tone chime or 4-tone chime or siren (selectable)



- Optional connection for up to 32 zone paging microphones PA-4000RC
- Level control via zone VU meter
- Mains operation or 24 V emergency power operation



PA-6040MPX
20-20,000 Hz
± 10 dB/100 Hz
± 10 dB/10 kHz
> 65 dB (mic),
> 87 dB (line)
< 1%
~ 230 V/50 Hz/15 VA,
24 V/500 mA
482 x 90 x 305 mm, 2 RS
4.4 kg

PA-4040MPX

Order No. 0173450

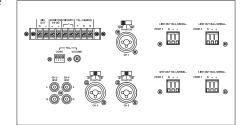


4-zone mixer, for general multi-room PA applications.

- 4 zones with user-defined routing of all input channels
- 3 inputs microphone/line via comb. jacks
- 2 inputs line stereo via RCA jacks
- Each input channel with gain control, 2-way tone control and zone routing switch
- Microphone inputs with 15 V phantom power, to be activated as required
- Priority function for channel 1, switchable
- Independent paging input, can be routed to each zone
- 4 zone outputs, can be adjusted individually
- Connection for monitor speaker
- Level control via VU meters for zone and monitor
- Adjustable headphone output

• Mains operation or 24 V emergency power operation





Model	PA-4040MPX
Frequency range	50-17,000 Hz
Equalizer bass	± 10 dB/100 Hz
Equalizer treble	± 10 dB/10 kHz
S/N ratio	> 65 dB (mic),
	> 75 dB (line)
THD	< 1%
Power supply	~ 230 V/50 Hz/20 VA,
	24 V/600 mA
Dimensions	482 x 133 x 220 mm, 3 RS
Weight	4.5 kg

MPX-4PA

Order No. 0202070



3-zone mixer

- 3 zones with user-defined routing of all input channels
- XLR and RCA zone outputs
- 6 input channels (4 stereo ways, 2 microphone ways)
- Both microphone ways can only be routed together
- Recessed gain control for each input channel
- Microphone ways, each with 2-way tone control, talkover and PAD switch
- Stereo channels, switchable 2 x phono/line and 2 x line/line
- Zone outputs, each with 3-way equalizer, LED level display of the stereo master, balance control, pre-fader listening (PFL) and mono/stereo selector
- · Adjustable headphone output with pre-fader listening (PFL) to the stereo input channels and zone
- Connection for gooseneck light GNL-204



|--|

Model	MPX-4PA
Frequency range	20-20,000 Hz
THD	0.1%
S/N ratio	61 dB, unweighted
Equalizer bass	+12 dB, -12 dB/50 Hz
Equalizer midrange	+12 dB, -12 dB/1 kHz
Equalizer treble	+12 dB, -12 dB/10 kHz
Talkover	-16 dB
Power supply	~ 230 V/50 Hz/20 VA
Dimensions	482 x 177 x 105 mm, 4 RS
Weight	4 ka

MPX-52PA

Order No. 0202300

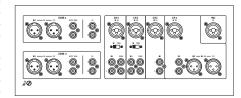


2-zone mixer, for multi-room PA applications.

- 2 independent zones with user-defined routing of all input channels
- 1 microphone way as announcing channel, balanced, with 3-way equalizer and adjustable automatic talkover
- 4 stereo input channels with stereo line inputs and balanced microphone ways
- Channel 1 additionally with a balanced line input, channels 3 and 4 switchable line/phono
- Signal/peak indication for each channel

Model	MPX-52PA
Mic input	1.5 mV, 5 x 3-pole XLR/6.3 mm jack
Line input	120 mV, 1 x 3-pole XLR L/R,
	4 x RCA L/R
Phono input	3 mV, 2 x RCA L/R
Master output	1 V, 2 x 3-pole XLR L/R,
	2 x RCA L/R
Record output	550 mV, 2 x RCA L/R
Headphones	≥ 32 Ω, 1 x 6.3 mm jack
Gooseneck lamp	12 V/0.75 W, 1 x BNC
Frequency range	20-20,000 Hz
THD	< 0.1%
S/N ratio	71 dB, unweighted
Equalizer bass	±15 dB/50 Hz
Equalizer midrange	±12 dB/1 kHz
Equalizer treble	±15 dB/10 kHz
Talkover	level attenuation
	20 dB max.
Power supply	~ 230 V/50 Hz/15 VA
Dimensions	482 x 138 x 190 mm, 3 RS
Weight	3.9 kg





PA-1414MX

Order No. 0174770

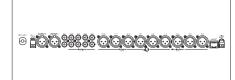


10-channel PA preamplifier

- 5 XLR input channels, switchable mic/line
- 4 input channels, switchable XLR mic/RCA line
- 2 XLR master outputs
- 1 record output (master1, master2)
- Input channels with level control and output selector switch (master1, master1+2, master2)
- Master outputs with 2-way tone control
- Chime button with priority circuit, remote control possible, 2-tone chime or 4-tone chime, siren (selectable)
- 1 push-to-talk connection, RJ45, with priority circuit (suitable for PA-4000PTT)

Model	PA-1414MX
Inputs	2.5 mV, bal. (mic),
	250 mV, bal. (line XLR),
	250 mV, unbal. (line RCA)
Frequency range	20-20,000 Hz (-0.5 dB)
Equalizer bass	± 10 dB/100 Hz
Equalizer treble	± 10 dB/10 kHz
S/N ratio	> 60 dB (mic),
	> 75 dB (line)
THD	< 0.05%
Power supply	~ 230 V/50 Hz/15 VA,
	24 V/0.5 A
Dimensions	482 x 45 x 240 mm, 1 RS
Weight	2.5 kg
Connections	9 x XLR (mic/line inputs),
	4 x RCA L/R (line inputs),
	1 x RJ45 (push-to-talk microphone),
	2 x XLR (outputs),
	1 x RCA L/R (record output)





VMX-440/SW

Order No. 0202530



4-channel microphone line mixer

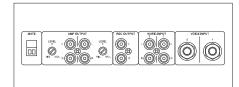
- 2 stereo line inputs
- 2 balanced microphone inputs
- Parallel stereo line input on the front panel
- 3-way equalizer for each microphone input
- Common 2-way tone control for the two line inputs
- Muting via optional momentary push-button/switch
- 2 adjustable stereo master outputs
- Master output level can be preadjusted via trimming potentiometers

Model	VMX-440/SW
Mic input	1 mV/600 Ω , 2 x 6.3 mm jack, bal.
Line input	100 mV/10 kΩ, 3 x RCA L/R
Master output	1-3 V/100 Ω, 2 x RCA L/R
Record output	1 V/100 Ω, 1 x RCA L/R
Headphones	≥ 32 Ω, 2 x 15 mW,
	1 x 6.3 mm jack
Frequency range	20-20,000 Hz
THD	0.05%
S/N ratio	> 60 dB
Equalizer bass	± 12 dB/30 Hz
Equalizer midrange	± 12 dB/1 kHz
	(voice only)
Equalizer treble	± 12 dB/12 kHz
Power supply	~ 230 V/50 Hz/10 VA
Dimensions	482 x 45 x 180 mm, 1 RS

2.25 ka

Weight





MXT-52MP3

Order No. 0176790



Mixer with integrated MP3 player,

for flush-mounting into walls.

- 2 balanced microphone/line inputs (XLR), each with gain control and selectable phantom power
- 2 line inputs (RCA L/R)
- 1 aux input (3.5 mm jack)
- Integrated MP3 player with USB interface and SD/MMC card slot, including remote control
- Each input with level control
- Output with 2-way tone control and level control
- LED for indicating clip and operating status

Model	MXT-52MP3
Mic input	1 mV, 2 x XLR, bal.
Line input	230 mV, 2 x XLR, bal.
	160 mV, 2 x RCA L/R
Aux input	160 mV, 1 x 3.5 mm jack
Master output	1-10 V, terminal, mono, bal.
Frequency range	20-20,000 Hz
THD	< 0.03%
S/N ratio	> 78 dB
Equalizer bass	±10 dB/100 Hz
Equalizer treble	±10 dB/12 kHz
Power supply	/~ 24 V/250 mA
Dimensions	200 x 160 x 90 mm
Weight	1.25 kg

 Metal housing with rear cover for protection against dirt





Signal Processing Signal Optimisation

PA-1200M

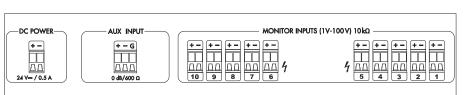




Monitor unit, 10 + 1 channels

- Audio sources can be selected via rotary switch
- 10 monitor inputs 1-100 V/10 $k\Omega$
- 1 aux input 0 dB (0.775 V)/600 Ω
- Level control, LED VU meter and clip LED for each monitor input
- Built-in 2 W speaker, volume control
- Headphone output
- Mains operation and 24 V emergency power operation





Model	PA-1200M
Power rating	2 W
Inputs	1-100 V/10 kΩ (monitor)
	0.775 V/600 Ω (aux)
Frequency range	100-20,000 Hz
THD	< 0.3%
Power supply	~ 230 V/50 Hz/15 VA,
	24 V/0.5 A
Dimensions	482 x 88 x 200 mm
Weight	4.7 kg
Connections	screw terminals (monitor input
	1-10),
	screw terminals (aux input),
	6.3 mm jack (headphones)

PA-24AD

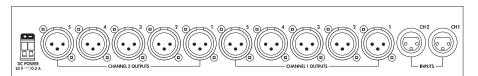
Order No. 0171890



10-way PA line splitter

- 2 separate inputs
- Stereo operation or mono operation
- Balanced XLR connection for each input and output
- Gain control for each output
- Peak indication for each input
- Mains operation and 24 V emergency power operation





Model	PA-24AD
Frequency range	20-20,000 Hz
Input signal	0.775 V
Input impedance	15 kΩ
Output signal	0.775 V
Output impedance	600 Ω
S/N ratio	> 68 dB
THD	< 0.05%
Power supply	~ 230 V/50 Hz/10 VA
	24 V/0.2 A
Dimensions	482 x 45 x 235 mm, 1 RS
Weight	2.9 kg
Inputs	2 x XLR
Outputs	10 x XLR

MFE-212

Order No. 0254520

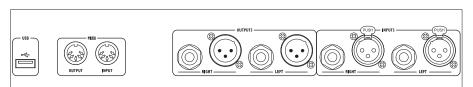


Stereo DSP feedback controller

- Prevents acoustic feedback appearing in PA systems
- 12 steep-edged precision notch filters for each stereo channel
- Editable filter parameters (supplied with software)
- 4 factory presets, 16 user presets
- Mono operation or 2-channel operation possible
- AD/DA resolution: 24 bits
- 45 dB attenuation (with gradual reduction in variable mode)
- Optionally continuous signal monitoring (auto notch) or manual setting of the required filters (manual notch)
- Backlit 2 x 20 dot matrix display
- Adjustable input level and output level
- Bypass function
- Clip LED
- Balanced inputs and outputs: XLR and 6.3 mm jack
- USB port (Type-A)



- MIDI input and output
- 482 mm (19") rack installation, 1 RS



Model	MFE-212
Frequency range	20-20,000 Hz
Input signal	2.2 V max.
Output signal	2.2 V max.
S/N ratio	> 90 dB
THD	< 0.01%
Power supply	~ 230 V/50 Hz/20 VA
Dimensions	482 x 44 x 193 mm, 1 RS
Weight	2 kg
Inputs	1 x XLR L/R, bal. (line)
	1 x 6.3 mm jack L/R (line)
Outputs	1 x XLR L/R, bal. (line)
	1 x 6.3 mm jack L/R (line)
Other features	MIDI in/out (2 x 5-pole DIN)
	USB Type-A jack

PA-100ANC





Ambient noise controller, for automatically

matching the signal in case of ambient noise.

The wanted audio signal is held at a fixed distance to a second audio signal. The second audio signal is usually the ambient noise which normally appears in shopping centres, hotels, train stations, airports or restaurants. The supplied noise detector and a microphone (available at option) monitor the ambient noise and the wanted signal (e.g. announcement or music) is boosted or attenuated accordingly. Thus, the signal for announcements or music is, at the set level, always at a higher volume than the distracting ambient noise.

- Supplied with noise detector for connection of an electret microphone or a dynamic microphone with XLR jack or 6.3 mm jack
- Adjustable limiter for setting the low output level
- Adjustable Q-factor
- Adjustable band filter for measuring (30-15,000 Hz)
- Bypass switch for deactivating the noise detector



- 20 V phantom power can be activated as required via noise detector
- LED indication for output level and clipping
- 24 V emergency power supply

	OFF ON PHANTON POWER	ME. INFUT		 	POWER PICKUP ON HOLD OUTPUT OUTPUT
217-1015A	OUTPUT	NPUT NPUT	LEVEL	OUT N	PICKUP INPUT

Model	PA-100ANC
Frequency range	20-20,000 Hz
Control range	30-15,000 Hz
Control frequencies	30-15,000 Hz
Input signal	0.775 V, bal.
Input impedance	30 kΩ
Output signal	0.775 V, bal.
Output impedance	600 Ω
Phantom power	= 20 V
S/N ratio	> 60 dB
THD	< 0.3%
Power supply	~ 230 V/50 Hz/10 VA
	24 V/150 mA
Dimensions	482 x 44 x 230 mm, 1 RS
	80 x 60 x 180 mm (noise detector)
Weight	3.5 kg (in total)

MONACOR INTERNATIONAL INSTALLATION 149

Signal Processing Signal Optimisation

MCX-200/SW

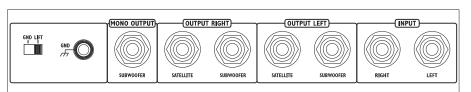
Order No. 0244170



Electronic stereo crossover network

- Subwoofer operation/satellite operation
- Additional mono subwoofer output
- Output level can be adjusted individually for each frequency range
- Switchable phase for subwoofer output
- Adjustable crossover frequency
- Ground lift switch
- All connections via 6.3 mm jacks, unbal.





Model	MCX-200/SW
Frequency range	10-30,000 Hz, -0.5 dB
Crossover frequency	60-500 Hz, 12 dB/oct.
High-pass filter	15 Hz, 12 dB/oct.
THD	< 0.03%
Inputs	6 V max./56 kΩ
Outputs	6 V max./100 Ω (±10 dB)
S/N ratio	> 80 dB
Power supply	~ 230 V/50 Hz/5 VA
Admiss. ambient temp.	0-40 °C
Dimensions	482 x 44.5 x 185 mm, 1 RS
Weight	2 kg

MDSP-24/HD

Order No. 0112710



Digital HD signal processor (DSP), in a compact housing with 2 analogue inputs, 1 digital input and 4 analogue outputs.

- 400 Mhz audio processor, 32 bits
- Sampling rate: 96 kHz
- AD/DA converter: 24 bits
- Audio streaming up to 192 kHz via USB interface
- 2 RCA inputs (2 V/4 V, switchable)
- 1 digital input (Toslink)

Model	MDSP-24/HD
Input signal	2 V/4 V
Output signal	2 V
High-pass filter	software
Low cut	software
THD	0.001%
Power supply	via encl. power supply
Dimensions	119 x 27 x 107 mm
Weight	275 g
Inputs	2 x RCA
	1 x Toslink
Outputs	4 x RCA





RETAIL Catalogue

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VCA-202

Order No. 017188



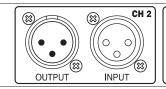
Voltage-controlled 2-channel VCA volume

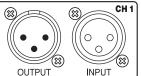
- 2-channel mono operation or stereo operation
- Remote control for each channel via optional wall-mounted volume control VCA-202RN or via lin. 10 k Ω potentiometer (not supplied), control voltage: = 0-10 V
- 10 V voltage output for potentiometer
- Servo-balanced inputs and outputs
- 482 mm (19") rack installation, 1 RS

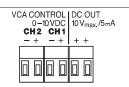


For the remote volume control of PA systems in large areas (e.g. churches, workshops). The volume control VCA-202 is inserted between preamplifier and power amplifier.

The surface-mounted housing ATT-300 can be used for universal mounting of the potentiometers.







Model	VCA-202	
Line input	1 V/30 kΩ	
Input control voltage	0-10 V/100 kΩ	
Line output	1 V/600 Ω	
Output control voltage	10 V/5 mA	
Frequency range	20-20,000 Hz	
THD	0.1%	
S/N ratio	70 dB	
Power supply	~ 230 V/50 Hz/10 VA	
Dimensions	482 x 48 x 105 mm, 1 RS	
Weight	1.5 kg	

VCA-202RN

Order No. 0173000

Wall-mounted volume control, for use with

VCA-202 or similar applications.

- ullet Linear 10 k Ω potentiometer, mono
- Built-in relay (= 24 V) for priority circuit
- Flush mounting into standard 60 mm wall socket
- Surface mounting with matching housing ATT-300, available at option
- Mounting depth: 27 mm
- Plug-in screw terminal



SLA-35

Order No. 0214010

Stereo level and impedance matching amplifier

Volume distortions or volume losses may occur when connecting smartphones, mobile phones, tablet PCs and MP3 players to an amplifier or a mixer. Due to the correct setting of impedance and gain, the SLA-35 is able to provide a better sound.

- Adjustable attenuation down to 1/10 (-20 dB) or gain up to 10-fold (+20 dB)
- Impedance switching Hi/Lo
- RCA and 3.5 mm stereo inputs and outputs
- Metal housing
- Supplied with plug-in power supply

Model	SLA-35
Frequency range	3-50,000 Hz
Input signal	7 V max.
Input impedance	35 kΩ/8.1 kΩ (switch -5.6 dB)
Output signal	max. 4.5 V/1.6 kΩ
Gain	0.1-10 (±20 dB)
	continuously adjustable,
	additionally -5.6 dB, switchable
S/N ratio	> 83 dB
Channel separation	> 68 dB
THD	< 0.03%
Power supply	via encl. power supply
Dimensions	88 x 37 x 103 mm
Weight	450 g





ILA-100RCA

Order No. 0212900

Passive stereo level control (RCA version)

- 1 x stereo RCA input, 1 x 3.5 mm stereo input
- 1 x stereo RCA output, 1 x 3.5 mm stereo output
- Large, easy-turning level control
- Mute button
- Frequency range: 20-20,000 Hz
- Passive, no power supply required
- High-quality metal console housing with brushed aluminium front panel
- Dimensions: 142 x 60 x 86 mm
- Weight: 300 g



ILA-100XLR

Order No. 0212910

Passive stereo level control (XLR version)

- 2 x balanced comb. input (XLR/6.3 mm jack),
 1 x 3.5 mm stereo input
- 2 x balanced XLR output, 1 x 3.5 mm stereo output
- Large, easy-turning level control
- Mute button
- Frequency range: 20-20,000 Hz

- Passive, no power supply required
- High-quality metal console housing with brushed aluminium front panel
- Dimensions: 142 x 60 x 86 mm
- Weight: 300 g



ATT-1950

Order No. 0171370

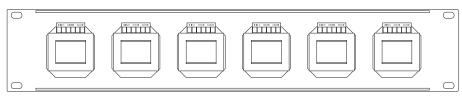
ATT-19100 Order No. 0172640

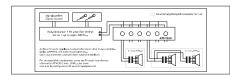


6-way PA volume controls for 482 mm (19") rack installation

- 6 audio transformers for 100 V line technique
- Connection for priority circuit, 6 priority relays (= 24 V/20 mA)
- Attenuation in 10 steps, position 0 is OFF
- Aluminium front panel
- Available in 3 power classes
- Plug-in screw terminal







ATT-1950	ATT-19100	
50-18,000 Hz	50-18,000 Hz	
6 x 50 W	6 x 100 W	
yes	yes	
484 x 88 x 77 mm, 2 RS	484 x 88 x 77 mm, 2 RS	
1.379 kg	2 kg	
	50-18,000 Hz 6 x 50 W yes 484 x 88 x 77 mm, 2 RS	50-18,000 Hz 50-18,000 Hz 6 x 50 W 6 x 100 W yes yes 484 x 88 x 77 mm, 2 RS 484 x 88 x 77 mm, 2 RS

ATT-442ST

Order No. 0171860

4-channel speaker volume control, stereo

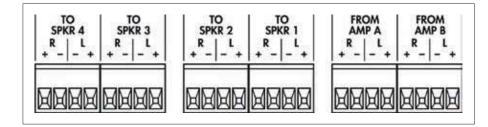
Particularly high quality due to transformer technology with universal output assignment (4-16 Ω for each speaker), 20-20,000 Hz, attenuation in 10 steps for each pair, position 0 is OFF.

- 2 stereo inputs (100 W max. for each channel) and 4 stereo speaker outputs (18 W/4-16 Ω each)
- \bullet Source selector switch for each speaker output
- Screw terminals
- Black metal housing
- Dimensions: 432 x 78 x 190 mm
- Weight: 3.4 kg

With this device, it is finally possible to adjust the level of several pairs of speakers (up to 4) independently, even without 100 V line technique and connect them together to basic amplifiers without any problems.



Even speaker systems with different impedances between 4 and 16 Ω can be mixed as desired. Ideally suited for restaurants and bars.



Wall-mounted PA Volume Controls with 24 V Emergency

Priority Relay

- Attenuation in 10 steps, position 0 is OFF
- For 100 V line technique
- White plastic front panel and knob
- Also suitable for already existing series of switches with standard cover frames (cutout: 50 mm or 55 mm)
- Flush mounting into standard 60 mm wall sockets (ATT-5100PEU into 65 mm wall socket)
- Plug-in screw terminal





Model	Order No.	Frequency range	Power rating	Priority facility	Dimensions	Mounting depth	Weight	Surface-mounted housing
ATT-506PEU	0173890	50-18,000 Hz	6 W	yes	80 x 80 x 67 mm	45 mm	212 g	-
ATT-512PEU	0173900	50-18,000 Hz	12 W	yes	80 x 80 x 67 mm	45 mm	222 g	-
ATT-524PEU	0173910	50-18,000 Hz	24 W	yes	80 x 80 x 66 mm	45 mm	231 g	=
ATT-5100PEU	0173940	50-18,000 Hz	100 W	yes	80 x 80 x 70 mm	50 mm	342 g	-

Wall-Mounted PA Volume Controls with 24 V Emergency

Priority Relay

- Attenuation in 10 steps, position 0 is OFF
- For 100 V line technique
- Snow-white plastic front panel and knob
- Flush mounting into standard 65 mm wall sockets (except ATT-3100PEU)
- Surface mounting with matching housing ATT-300, available at option
- $\bullet \ \mathsf{Plug}\text{-}\mathsf{in} \ \mathsf{screw} \ \mathsf{terminal}$





Model	Order No.	Frequency range	Power rating	Priority facility	Dimensions	Mounting depth	Weight	Surface-mounted housing
ATT-306PEU	0173690	50-18,000 Hz	6 W	yes	80 x 80 x 67 mm	45 mm	97 g	ATT-300
ATT-312PEU	0171380	50-18,000 Hz	12 W	yes	80 x 80 x 67 mm	45 mm	168 g	ATT-300
ATT-324PEU	0171390	50-18,000 Hz	24 W	yes	80 x 80 x 67 mm	45 mm	175 g	ATT-300
ATT-336PEU	0171400	50-18,000 Hz	36 W	yes	80 x 80 x 67 mm	45 mm	234 g	ATT-300
ATT-350PEU	0171410	50-18,000 Hz	50 W	yes	80 x 80 x 67 mm	45 mm	233 g	ATT-300
ATT-3100PEU	0172630	50-18,000 Hz	100 W	yes	80 x 80 x 67 mm	45 mm	335 g	ATT-300

Wall-Mounted PA Volume

Controls

- Attenuation in 10 steps, position 0 is OFF
- Audio transformer for 100 V line technique
- White plastic front panel and knob
- Flush mounting, surface mounting with matching housing ATT-200, available at option





Model	Order No.	Frequency range	Power rating	Priority facility	Dimensions	Mounting depth	Weight	Surface-mounted housing
ATT-212/WS	0173670	50-18,000 Hz	12 W	no	85 x 85 x 66 mm	42 mm	156 g	ATT-200
ATT-224/WS	0173680	50-18,000 Hz	24 W	no	85 x 85 x 66 mm	38 mm	154 g	ATT-200
ATT-235/WS	0170580	50-18,000 Hz	35 W	no	85 x 85 x 71 mm	42 mm	212 g	ATT-200
ATT-250/WS	0170590	50-18,000 Hz	50 W	no	85 x 85 x 71 mm	42 mm	211 g	ATT-200
ATT-2100/WS	0172610	50-18,000 Hz	100 W	no	85 x 85 x 71 mm	42 mm	260 g	ATT-200

MONACOR INTERNATIONAL INSTALLATION 153

Wall-mounted PA volume control

- Recessed control to prevent unintentional readjustment
- Attenuation in 11 steps and OFF
- Audio transformer for 100 V line technique
- White plastic front panel (removable) and knob
- Flush mounting in standard hollow wall boxes
- Surface mounting with matching housing ATT-200, available at option





Model	Order No.	Frequency range	Power rating	Priority facility	Dimensions	Mounting depth	Weight	Surface-mounted housing
ATT-212H/WS	0176110	50-18,000 Hz	12 W	no	85 x 85 x 43 mm	35 mm	150 g	ATT-200
ATT-224H/WS	0176120	50-18,000 Hz	24 W	no	85 x 85 x 45 mm	37 mm	160 g	ATT-200
ATT-235H/WS	0176130	50-18,000 Hz	35 W	no	85 x 85 x 45 mm	34 mm	155 g	ATT-200
ATT-250H/WS	0176140	50-18,000 Hz	50 W	no	85 x 85 x 50 mm	42 mm	257 g	ATT-200
ATT-2100H/WS	0176150	50-18,000 Hz	100 W	no	85 x 85 x 50 mm	42 mm	250 g	ATT-200

ATT-412PEU

Order No. 0171460

Wall-mounted PA volume control with programme selector and 24 V emergency priority relay

- Attenuation in 10 steps, position 0 is OFF
- Switches one of 6 signal sources to one speaker output (programme)
- For 100 V line technique
- Snow-white plastic front panel and knob
- Flush mounting into standard 65 mm wall sockets
- Surface mouting with matching housing ATT-400, available at option
- Plug-in screw terminals

Model	ATT-412PEU	
Frequency range	50-18,000 Hz	
Power rating	12 W	
Priority facility	yes	
Dimensions	80 x 154 x 68 mm	
Mounting depth	45 mm	
Weight	280 g	
Surface-mounted housing	ATT-400	





ATT-424PEU

Order No. 0171470

Wall-mounted PA volume control with programme selector and 24 V emergency priority relay

- Attenuation in 10 steps, position 0 is OFF
- Switches one of 6 signal sources to one speaker output (programme)
- For 100 V line technique
- Snow-white plastic front panel and knob
- Flush mounting into standard 65 mm wall sockets
- Surface mouting with matching housing ATT-400, available at option
- Plug-in screw terminals

Model	ATT-424PEU	
Frequency range	50-18,000 Hz	
Power rating	24 W	
Priority facility	yes	
Dimensions	80 x 154 x 68 mm	
Mounting depth	45 mm	
Weight	290 g	
Surface-mounted housing	ATT-400	





ATT-306

Order No. 0171420

PA programme selector

- Switches one of 6 signal sources to one speaker output
- For 100 V audio technique or other signals
- Built-in relay (24 V) for priority circuit
- Snow-white plastic front panel and knob
- Flush mounting into standard 65 mm wall sockets

Model	ATT-306
Priority facility	yes
Dimensions	80 x 80 x 57 mm
Mounting depth	35 mm
Weight	111 g





ATT-325ST

Order No. 0171430

Stereo volume control, of high-quality transmitting technology.

- 4 Ω amplifier input and 4 Ω speaker output
- Power rating: 25 W per channel
- Attenuation in 10 steps, position 0 is OFF
- Snow-white plastic front panel and knob
- Surface mounting with matching housing ATT-300, available at option

Model	ATT-325ST	
Frequency range	20-20,000 Hz	
Power rating	25 W	
Dimensions	80 x 80 x 73 mm	
Mounting depth	50 mm	
Weight	277 g	
Surface-mounted housing	ATT-300	





ATT-200

Order No. 0170550

Surface-mounted housing

- For wall-mounted PA volume controls of the 200 series with 2-hole fixing
- Also suitable as protective housing for flush mounting
- White plastic



ATT-200P

Order No. 0170870

Front panel, white, plastic

- For universal mounting in combination with surface-mounted housing ATT-200
- Without imprint
- With drill hole Ø 9.0 mm



ATT-300C

Order No. 0176430

Flush-mounted housing

- For wall-mounted PA volume controls of the series ATT-3...PEU
- Combinable
- Grey-transparent plastic



ATT-300

Order No. 0171440

Surface-mounted housing

- For wall-mounted PA volume controls of the series ATT-3...PEU
- Snow-white plastic



ATT-400

Order No. 0171450

Surface-mounted housing

- For wall-mounted PA volume controls with programme selector of the series ATT-4...PEU
- Snow-white plastic



ATT-500PD

Order No. 0173880

Mounting frame

- For all panel jacks of the D series from NELITRIK
- Flush mounting in standard 60 mm wall sockets
- Also suitable for already existing series of switches with standard cover frame

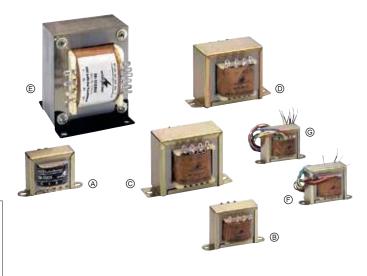


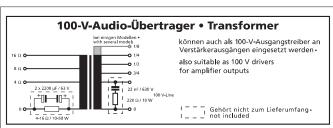
(50 mm or 55 mm cutout)

- Dimensions: 80 x 80 x 10 mm
- Supplied with mounting screws

100 V High-performance Audio Transformers

- An external 100 V transformer is necessary for an amplifier or speaker without installed 100 V audio transformer
- Each of the offered 100 V audio transformers can be used





Model	Order No.	Power	Primary	Secondary	Frequency range	Dimensions	Weight	Position
TR-1005	0170230	10 W	10/5/2.5/1.25/0.625 W	4/8/16 Ω	40-30,000 Hz	71 x 43 x 41 mm	276 g	А
TR-1010LC	0170250	10 W	10/7.5/5/2.5 W	4/8/16 Ω	35-20,000 Hz	71 x 43 x 38 mm	271 g	В
TR-1025LC	0170270	25 W	25/20/12/6 W	4/8/16 Ω	25-20,000 Hz	92 x 60 x 52 mm	752 g	C
TR-1050LC	0170290	50 W	50/37.5/25/12.5 W	4/8/16 Ω	30-15,000 Hz	92 x 60 x 58 mm	860 g	D
TR-1120LC	0170310	120 W	120/100/90/60/30 W	4/8/16 Ω	20-20,000 Hz	72 x 99 x 78 mm	2,060 g	E
TR-175/6	0170440	6 W	6/4/2/1 W	4/8/16 Ω	28-25,000 Hz	71 x 42 x 40 mm	273 g	F
TR-175/10	0170450	10 W	10/6/4/2/1 W	4/8/16 Ω	35-25,000 Hz	71 x 42 x 40 mm	287 g	G

100 V Toroidal Audio Transformers

- \bullet Very high-quality version with a perfect frequency response and extra low THD
- Flat design
- Sealed



Model	Order No.	Power	Primary	Secondary	Frequency range	Dimensions	Weight
TR-520	0171920	20 W	5/10/15/20 W	4 Ω	80-18,000 Hz	Ø 60 mm x 30 mm	348 g
TR-525	0171210	5 W	2.5/5 W	4 Ω	80-18,000 Hz	Ø 50 mm x 20 mm	155 g

PATL-100/XC

Order No. 1000092



100 V transformer, for connecting a 100 V audio signal source to devices with line input.

- Adjustable line output level (0-5.6 V at 100 V input voltage), can be switched internally for other output voltages
- 100 V input with plug-in screw terminal
- Balanced XLR output, impedance: 1 $k\Omega$, XLR panel plug
- RCA output
- Insulated plastic housing
- Galvanically isolated input and output
- Dimensions: 100 x 60 x 190 mm
- Weight: 625 g



ATT-20

Order No. 0034500

Rotary knob, white

- \bullet For shafts Ø 6 mm, 18 teeth
- Suitable for PA volume controls ATT-.../WS
- Diameter: approx. 20 mm
- Height: approx. 17 mm



LKB-1

Order No. 0161830

Connection terminal, for 100 V PA speakers.

- 3-pole ceramic screw terminal
- Thermal fuse 1 A/150 °C for disconnecting a faulty speaker in case of a short circuit (fire), so that the function of one speaker line is maintained



• Dimensions: 35 x 20 x 20 mm

SPS-80S

Order No. 0211750

Speaker switch box

- For connecting up to 8 pairs of speakers (4-8 Ω) in any combination to 1 stereo amplifier output
- With built-in power protective resistors
- Music power: 300 W
- Dimensions: 310 x 60 x 115 mm



• Weight: 1.1 kg

SPS-40S

Order No. 0210390

Speaker switch box

- For connecting up to 4 pairs of speakers (4-8 Ω) in any combination to 1 stereo amplifier output
- With built-in power protective resistors
- Music power: 200 W



SPS-20S

Order No. 0210670

Speaker switch box

- For connecting up to 2 pairs of speakers (4-8 Ω) in any combination to 1 stereo amplifier output
- Music power: 200 W
- Dimensions: 176 x 50 x 100 mm
- Weight: 430 g



SPS-41A

Order No. 0210410

Stereo line switch box

- 4 line sources to 1 amplifier line input
- RCA inputs and RCA outputs
- Metal housing
- Dimensions: 126 x 58 x 108 mm
- Weight: 335 g



MMX-8

Order No. 0242860

Miniature universal audio mixer

- 8 mono channels, switchable mic/line
- Selection of 4 stereo channels
- 2 output level controls, 2 peak LEDs
- Supplied w/o battery



VB-202A

Order No. 0181020

Passive 2-wire transmission set, for audio signals.

- Audio transmission via one pair of wires of a Cat. 5 cable, 1,000 m max.
- Transmission range: 20-20,000 Hz
- RCA connections
- Cable connection via screw terminals



LPC-1

Order No. 0210600

Line/phono adapter

- Input: 2 x RCA, 56 kΩ/1 kHz
- \bullet Output: 2 x RCA, 560 $\Omega/1$ kHz
- Dimensions: 37 x 53 x 22 mm
- Weight: 48 g
- No power supply required



SMC-1

Order No. 0211930

Stereo/mono converter

- 1 x stereo to 2 x mono
- \bullet Input impedance: 4.7 $k\Omega$
- Connections: input 1 x RCA L/R, output 2 x RCA mono
- Dimensions: 65 x 22 x 37 mm



PREAMP-1UP

Order No. 0171350

Flush-mounted preamplifier

- For connection of power amplifiers
- Fitted metal base plate
- Connections and level controls for line input and microphone input

Model	PREAMP-1UP
Line input	400 mV (line)
	4 mV (mic)
Input control voltage	0-10 V
Line output	5 V max./50 Ω
Frequency range	20-20,000 Hz (line)
	40-15,000 Hz (mic)
Power supply	22-26 V/0.025 A
Connections	7-pole terminal strip,
	removable
	1 x RCA L/R (line)
	1 x 6.3 mm jack (mic)



AD-200A

Order No. 0069170

Digital to analogue audio converter

- For converting digital electronic signals (e.g. Toslink) into analogue audio signals
- Inputs: 1 x digital, coaxial (S/PDIF), 1 x optical (Toslink)
- Outputs: 1 x RCA L/R



FGA-30

Order No. 0212430

Ground isolator

- Prevents hum loops
- 2 RCA jacks • 3.5 mm stereo plug



FGA-30M

Order No. 0213010

Ground isolator

- Prevents hum loops
- 2 RCA plugs
- 3.5 mm stereo plug



FGA-35

Order No. 0212420

Ground isolator

- Prevents hum loops
- 2 x 3.5 mm stereo plug



FGA-40MF

Order No. 0213050

Ground isolator

- Prevents hum loops
- 2 RCA jacks
- 2 RCA plugs



FGA-40HQ

Order No. 0066380

High-end ground isolator

- For preventing signal interference and hum loops which may occur, e.g. when connecting the car radio to an amplifier
- Gold-plated RCA jacks



FGA-40

Order No. 0064370

Ground isolator

- For preventing signal interference and hum loops which may occur, e.g. when connecting the car radio to an amplifier
- RCA plugs and RCA jacks



AKB-160

Order No. 0174260



PA amplifier module, with 100 V output.

- 1 x 40 W
- Silent operation due to fanless cooling concept
- Balanced line input (XLR) and unbalanced line
- Speaker output via spring-loaded speaker terminals
- Volume control
- Metal housing with mounting brackets

Model	AKB-160
Peak output power	60 W
Power rating at 100 V	40 W
Inputs	390 mV/26 kΩ, bal.
	420 mV/11 kΩ, unbal.
Frequency range	17-20,000 Hz
S/N ratio	> 80 dB
THD	< 1%
Power supply	~ 230 V/50 Hz/75 VA
Dimensions	213 x 55 x 238 mm
Weight	3.2 kg



SAM-500D

Order No. 0320800



Class D active subwoofer module, 500 W at 4 Ω

- High-performance active module in class D technology
- Variable low-pass filter: 40-200 Hz (18 dB)
- Continuously adjustable phase control 0-180° for perfectly matching it to the main speakers
- Line input, par. line output
- Integrated bass boost of approx. 3 dB at 40 Hz
- High-level inputs for parallel connection to the speaker cables
- Very high power reserves for bass speakers with a diameter up to 46 cm

Model	SAM-500D
Peak output power	700 W
Power rating	500 W
Power rating at 4 Ω	500 W
Power rating at 8 Ω	250 W
Inputs	max. 7 V/22 kΩ
Attenuation factor	25.0
Frequency range	20 Hz - (var. 40-200 Hz)
S/N ratio	> 70 dB
THD	< 1%
Power consumption, standby	< 0.5 W
Dimensions	251 x 270 x 90 mm
Weight	2.6 kg
Connections	1 x RCA (line in),
	1 x speaker terminal (high power in),
	1 x RCA (line out)



SAM-300D

Order No. 0320790



Class D active subwoofer module, 300 W at 4 Ω

- High-performance active module in class D technology
- Variable low-pass filter: 40-200 Hz (18 dB)
- Continuously adjustable phase control 0-180° for perfectly matching it to the main speakers
- Line input, par. line output
- Integrated bass boost of approx. 3 dB at 40 Hz
- High-level inputs for parallel connection to the speaker cables
- High power reserves

Model	SAM-300D	
Peak output power	420 W	
Power rating	300 W	
Power rating at 4 Ω	300 W	
Power rating at 8 Ω	150 W	
Inputs	max. 7 V/22 kΩ	
Attenuation factor	24.4	
Frequency range	20 Hz - (var. 40-200 Hz)	
S/N ratio	> 70 dB	
THD	< 0.1%	
Power supply	~ 230 V/50 Hz/440 VA	
Power consumption, standby	< 0.5 W	
Dimensions	188 x 255 x 90 mm	
Weight	1.3 kg	
Connections	1 x RCA (line in),	
	1 x speaker terminal (high power in),	
	1 x RCA (line out)	



SAM-200D

Order No. 0320780



Class D active subwoofer module, 200 W at 4 Ω

- High-performance active module in class D technology
- Variable low-pass filter: 40-200 Hz (18 dB)
- Continuously adjustable phase control 0-180° for perfectly matching it to the main speakers
- Line input, par. line output
- Integrated bass boost of approx. 3 dB at 40 Hz
- High power reserves

Model	SAM-200D
Peak output power	280 W
Power rating	200 W
Power rating at 4 Ω	200 W
Power rating at 8 Ω	100 W
Inputs	max. 7 V/20 kΩ
Attenuation factor	26.6
Frequency range	20 Hz - (var. 40-200 Hz)
S/N ratio	> 70 dB
THD	< 0.1%
Power supply	~ 230 V/50 Hz/330 VA
Power consumption, standby	< 0.5 W
Dimensions	178 x 204 x 80 mm
Weight	1.05 kg
Connections	1 x RCA (line in),
	1 x RCA (line out)



SAM-2

Order No. 0320670



Active subwoofer module, 200 W

- High-power active module
- 24 dB subsonic filter
- Variable low-pass filter: 50-150 Hz (18 dB)
- Semiparametric bass boost (variable 30-50 Hz midrange with boost up to 6 dB, continuously adjustable)
- Contin. adjust. phase control 0-180° for uncompromising room correction and optimum speaker setup
- Variable high-pass filter: 50-150 Hz (12 dB) for equalizing the bass frequencies of the satellite amplifier and the satellite speakers
- Ground lift switch from the studio technology to prevent hum interference
- Various protective circuits against short circuit, overheating and DC voltage overload

SAM-2
250 W
200 W
200 W
125 W
8.4 V mono/4.2 V stereo/20 kΩ (line)
44 V stereo/17 kΩ (high)
satellite: (var. 50-150 Hz) - 20,000 Hz
subwoofer: 20 Hz - (var. 50-150 Hz)
> 70 dB
< 0.1%
~ 230 V/50 Hz/300 VA
6 VA
185 x 370 x 90 mm
4.9 kg

- Perfect drive for bass speakers with a diameter of up to 46 cm
- Impressive sound and workmanship



EVA-16/2

Order No. 0176710



Audio management controller, for PA applications and voice alarm systems (VAS) according to EN 54-16 in compliance with DIN EN 60849 (VDE 0828) and DIN VDE 0833-4.

As a central controller, EVA-16/2 is used for managing and monitoring microphone announcements, emergency announcements and stored evacuation announcements, any required music feeds and for a reliable reproduction of chimes and sirens. Furthermore, EVA-16/2 is also monitoring power amplifiers connected as well as a possible emergency power supply. Connected speaker lines are also monitored for disconnection, impedance deviation as well as for short-circuit and fault to earth. For an easy and convenient operation, controller EVA-16/2 is equipped with the following features and functions:

- 11.5 cm (4.5") colour touch panel/touch screen
- $-\operatorname{Real}$ time clock with extensive event tracing
- Protected slot for SD card on the front panel
- Integrated audio monitor/monitor speaker
- Extended BUS function

EVA-16/2 to be used as a master controller for individual projects and in master/slave for more complex projects, can be cascaded to up to 10 systems.

- Monitoring of the amplifiers with emergency switching (8 amplifiers and 1 spare amplifier)
- Monitoring of up to 8 speaker lines in A/B cabling (16 testing circuits)
- 2 x fireman's microphone can be connected on the rear panel
- Up to 16 monitored system microphone stations EVA-16TER/2 or EVA-16SY80/2 can be connected
- 4 audio inputs with free assignment/distribution of the audio input signals
- 2 additional audio inputs (AUX)
- 4 transformer-balanced AF outputs + 1 output for backup amplifier with free assignment of the different audio devices





- Digital voice memory for alarm announcements
- Tone control and volume control for each amplifier channel
- Extensive inputs and outputs for controlling and signalling
- RS-232 interface for programming or updating via a
- 482 mm (19") rack installation, 2 RS
- Mains operation and 24 V emergency power operation

EVA-16/2	
~ 230 V/50 Hz/25 VA,	
= 24 V/600 mA	
-5 °C to +55 °C	
483 x 88 x 302 mm	
5.9 kg	
	~ 230 V/50 Hz/25 VA, = 24 V/600 mA -5 °C to +55 °C 483 x 88 x 302 mm

EVA-16TER/2

Order No. 0230640



System microphone station,

according to DIN EN 60849 (VDE 0828).

- Microprocessor-controlled system microphone station, especially for connection to controller EVA-16/2 with EN 54-16 certification
- For announcements in up to 80 speaker circuits, to be selected as desired
- Built-in two-line LCD for indicating the respective operating status
- Separate emergency button
- Individual programming of single, group, collective and emergency announcements with the respective priority level
- Concealed buttons for pre-alarm, building evacuation, music (on/off), fault indication with attention signal



• Connection via RJ45 jack

EVA-16SYS80/2

Order No. 0230630



System microphone station,

according to DIN EN 60849 (VDE 0828).

- Microprocessor-controlled system microphone station, especially for connection to audio management controller EVA-16/2 with EN 54-16 certification
- For announcements in up to 80 speaker circuits (to be selected as desired); partly monitored, depending on the programming
- Built-in two-line LCD for indicating the respective operating status
- Separate emergency button
- Individual programming of single, group, collective and emergency announcements with the respective priority level



• Connection via RJ45 jack

EVA-16FP/2

Order No. 0176670



PA fireman's microphone, for audio management system EVA-16/2.
This fireman's microphone station has especially been developed according to the standards DIN EN 60849 (VDE 0828), EN 54-16 or DIN 14661.
Thus, it allows emergency services to organise a safe and systematic evacuation of the people in case of an alarm.

- Supplied with hand-held PA microphone MEVAC-1FH
- 4 alarm zones
- 4 fireman's microphone stations
- Robust red sheet steel wall-mounted housing



- Relay fire alarm control panel (FACP): 24 V/2 $k\Omega$
- Relay contact ERROR: ~ 120 V/2 A max.

EVA-16REL/2

Order No. 0176690

EVA-16 relay board

- For extending switching functions and logic functions available with audio management controller EVA-16/2
- 4 relays, each with 2 floating change-over contacts with 2 connection facilities
- Insertion into microphone bus of the EVA-16 master via 2 x RJ45 plug-in connector available on the card
- Operation via DC voltage (= 24 V)
- Multiple relay cards can simultaneously be connected to the microphone bus



EVA-16I0

Order No. 0174210



Connection PCB according to EN 54-16

- For connecting system microphone stations such as EVA-16TER/2 to the audio management controller EVA-16/2
- The PCB is to be connected to the EVA-16 system via a 25-pole D-sub cable and a Cat. cable, both available at option
- Additionally, it features a changeover contact which is activated in case a fault occurs
- A further relay is activated in case of an emergency and during installation
- It is also used to connect emergency priority relays of L-pad attenuators



VEN-625/24V

Order No. 1000164



Ventilation kit, for PA equipment rack RACK-625/42.

- Consisting of 2 fans (24 V/18 W) and a thermostat with change-over contact (adjustable 0-60)
- Electronically commutated DC motor with double ball bearings
- Installation via fan plate with 2 cover plates



RACK-625/42

Order No. 0170160



PA equipment rack for 482 mm (19") devices, 42 RS

- For installation of voice alarm systems according to EN 54-16
- Bars adjustable in height in steps of 25 mm for using quick-mount cage nuts
- Flange plate, rear side flange opening in the integrated base with connection jacks for wall distribution
- Ventilation slots in the upper part
- Earthing bolt in each individual part of the case
- Earthing accessories
- Rear-ventilated sheet steel door (rear side of the rack) with cylinder lock
- Colour of body: black, height-adjustable bars: red
- Dimensions: 2,066 x 600 x 600 mm
- Weight: 95 kg

Supplied w/o devices.



RACK-625/42ST

Order No. 0170170



Ventilated sheet steel door, for 19" PA equipment rack RACK-625/42.

- For the front side of the rack

- \bullet For the front side of the rack
- Cylinder lock
- Colour: black
- Dimensions: 1,745 x 515 mm
- Weight: 15 kg

Supplied w/o 19" PA equipment rack.



MONACOR INTERNATIONAL INSTALLATION

Signal Processing EN 54 Systems

SINUS-220 Order No. 0174370

SINUS-20

Order No. 0174240

SINUS-10 Order No. 0174230

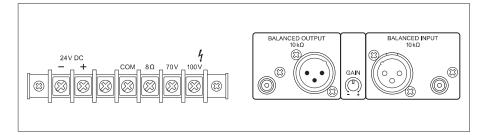


PA power amplifiers, for application in professional PA systems and for setting up standardised voice alarm systems (VAS) according to EN 54-16 when combined with audio management system EVA-16 from MONACOR.

- Temperature-controlled fan
- LED indication for protect and signal
- Mains switch on the rear panel for preventing accidental switch-off
- 24 V emergency power input
- Mains operation or 24 V emergency power operation
- 482 mm (19") rack installation with fitted mounting brackets

SINUS-220 = 2 x 240 W SINUS-20 = 1 x 240 W SINUS-10 = 1 x 120 W





Model	SINUS-220	SINUS-20	SINUS-10
Power rating	480 W	240 W	120 W
Power rating at 8 Ω	2 x 240 W	1 x 240 W	120 W
Power rating at 100 V	2 x 240 W	1 x 240 W	120 W
Inputs	1 V/10 kΩ, bal.	1 V/10 kΩ, bal.	1 V/10 kΩ, bal.
Frequency range	35-18,000 Hz	35-18,000 Hz	35-18,000 Hz
S/N ratio	> 86 dB	> 86 dB	> 86 dB
Crosstalk attenuation	> 80 dB	> 80 dB	> 80 dB
THD	< 1%	< 1%	< 1%
Power supply	~ 230 V/50 Hz/1,280 W,	~ 230 V/50 Hz/640 W,	~ 230 V/50 Hz/320 W,
	24 V/30 A	24 V/15 A	= 24 V/7.5 A
Standby current	0.38 A	0.23 A	0.16 A
Dimensions	425 x 88 x 450 mm, 2 RS	425 x 88 x 305 mm, 2 RS	425 x 88 x 305 mm, 2 RS
Weight	18 kg	10.5 kg	8.5 kg

EPS-24HP

Order No. 1000056







Microprocessor-controlled charging controller for voice evacuation systems, for setting up a standardised emergency power suppy according to EN 54-4.

- Suitable for PA components with 24 V connection
- Output voltage: = 24 V
- Output current: 2 x 60 A max., 4 x 40 A max., 4 x 5 A max., 200 A max. in total
- Charging current: 4-16 A
- Constant monitoring of all primary and secondary input voltages
- Permanent monitoring of the fuses
- Monitoring of the battery charging current
- Indication for discharge status of rechargeable batteries
- LED indication for every relevant operating status

• Floating contacts for fault transmission

- Admissible battery capacities: 270 Ah max. (2 x = 12 V each)
- Cable set EVA-24CON for connecting 2 x AKKU-12/120 is available at option
- Power supply: ~ 230 V/50-60 Hz
- Dimensions: 483 x 43 x 330 mm (1 RS)
- Weight: 4.9 kg

Matching rechargeable lead batteries AKKU-12/120 (2 x) are available at option.

EVA-24CON

Order No. 0174200

Cable set, for connecting 2 rech. lead batteries AKKU-12/120 to charging controller EPS-24HP.



AKKU-12/120

Order No. 0174180

Rechargeable lead battery, 12 V, for

charging controller EPS-24HP.

- Power rating: 12 V/120 Ah
- Gas-tight sealed, maintenance-free
- Dimensions: 32.5 x 17 x 22 cm
- Weight: 35 kg
- 2 rech. batteries AKKU-12/120 are required for an operation with EPS-24HP



MEVAC-4

Order No. 0172670



Evacuation controller, with EN 54-16 certification for voice alarm systems (VAS) according to DIN EN 60849 (VDE 0828) and DIN VDE 0833-4.

As a central controller, the MEVAC-4 can carry out numerous functions:

- Monitoring of the speaker lines
- Monitoring of the amp. with emergency switching (for 4 amplifiers and 1 spare amp.)
- Digital voice storage for alarm announcements
- Monitoring of the fireman's microphones
- Distributor for audio input signals like microphone and background music
- 4 independently addressable announcement circuits in A/B wiring
- Fault signalling via relay contacts

Additional features:

- Connection for any number of emergency announcement microphones (1-channel or 4-channel)
- Extensive inputs and outputs for monitoring and signalling

- Modern DSP technology, updatable
- Easy programming via push-buttons and built-in display
- Input for background music
- Aux input to be activated via external contact
- Tone control and volume control for each amplifier channel
- Background music is turned off automatically during 24 V operation
- Bass attenuation in case of an alarm
- RS-232 connection for programming and updating
- Power supply: ~ 230 V/50 Hz/20 VA or = 24 V/500 mA
- Dimensions: 482 x 44 x 315 mm (1 RS)
- Weight: 5 kg
- Mains operation and 24 V emergency power operation

MEVAC-4PTT

Order No. 0235600

PA desktop microphone

(push-to-talk), for connection to evacuation controller MEVAC-4.

- 4 call zone push-buttons
- Push-button for all-call function
- Ready to call indication via LED
- Gooseneck with dynamic microphone cartridge
- 1.8 m connection cable with 9-pole
 D-sub plug



MEVAC-1PTT

Order No. 0235570

PA desktop microphone (push-to-talk), for connection to evacuation controller MEVAC-4.

Programmable push-button for all-call

- function or individual zone
- Ready to call indication via LED
- Gooseneck with dynamic microphone cartridge
- 1.8 m connection cable with 9-pole D-sub plug



MEVAC-1FT

Order No. 0235590

PA desktop microphone, for

emergency announcements according to FN 60849

- For connection to evacuation controller MEVAC-4
- Monitored microphone cartridge and request line
- Push-to-talk button
- Gooseneck with dynamic microphone cartridge
- Red metal housing (fireman's micr.)
- 1.8 m connection cable with 5-pole DIN plug



MEVAC-1FH

Order No. 0235580

Hand-held PA microphone, for

emergency announcements according to EN 60849.

- For connection to evacuation controller MEVAC-4
- Monitored microphone cartridge and request line
- Push-to-talk button
- Red plastic housing (fireman's microphone) with dynamic microphone cartridge and steel clip
- 1 m helix connection cable with 5-pole DIN plug



MEVAC-1CON

Order No. 0172750

Connection box, for hand-held PA microphone MEVAC-1FH or PA desktop microphone MEVAC-1FT.

- 5-pole DIN jack
- Flush mounting into standard 60 mm wall sockets
- Surface mounting with supplied surface-mounted housing
- Dimensions: 80 x 80 x 37 mm



MEVAC-2CON

Order No. 0172760

Connection box, for PA desktop microphone (push-to-talk) MEVAC-1PTT or MEVAC-4PTT.

- 9-pole D-sub jack
- Flush mounting into standard 60 mm wall sockets
- Surface mounting with supplied surface-mounted housing
- Dimensions: 80 x 80 x 37 mm



ATION 163



ONE-500 Order No. 1000100



Voice alarm system (500 W), according to EN 54-16 with integrated emergency power supply (EN 54-4).

- 6 x 100 V speaker line audio outputs
- 2 x class D amplifier 500 W at 70 V/100 V
- EN 54-4 certified emergency power supply
- 3 audio inputs
- Up to 8 microphone stations can be connected
- Internal voice memory for storing pre-recorded messages
- LCD
- Wall-mounting design/rack-mounting design
- 8+2 monitored fire alarm inputs

- Emergency priority outputs
- 4 x 0 dB AF output
- DSP equalizer
- Speaker line monitoring
- Fault detection and fault indication

A rechargeable lead battery 12 V/17 Ah is required for emergency power supply. Please order matching rechargeable back-up battery NPA-12/17 separately.

Model	ONE-500	
Power supply	~100-240 V/50/60 Hz/350 W max.	
Admiss. ambient temp.	-5 °C to +45 °C	
Dimensions	453 x 88 x 455 mm	
Weight	7.5 kg	
Connections	Euroblock	
Other features	frequency range: 80-20,000 Hz,	
	S/N ratio: -95 dB(A),	
	THD: < 0.1%	

A-1

Order No. 1000097



System microphone station (desktop microphone), 1 zone

- Dynamic microphone cartridge
- Local power supply
- Volume control
- Contact relay can be configured for special applications
- Indication for 'busy', 'ready for operation' and 'ready to call'
- Gooseneck with LED indication
- Suitable for voice alarm system ONE-...



MPS-8Z

Order No. 1000101



System microphone station (desktop microphone), 8 zones

- Programmable buttons for 8 zones
- Programmable activities
- Callback function
- Automatic lock function
- LED indication for zone selection
- LED indication for status of voice alarm system ONE-...
- LED indication for 'busy' and general status of microphone station
- Long-life high-performance microphone cartridge
- Approved according to EN 54-16
- Suitable for voice alarm system ONE-...



MPS-8K

Order No. 1000098



Extension unit, for system microphone station (desktop microphone) MPS-8Z.

- 8 buttons for zone selection
- High-quality workmanship and robust housing for continuous operation
- Steel version, anthracite-grey (RAL 7016)
- EN 54 certified



ONE-BC1

Order No. 1000099



Activation card

- For activating EN 54-4 certified emergency power supply
- Micro SD card for permanent installation into voice alarm system ONE-500



ONE-RMA

Order No. 1000109



Mounting set, 3 RS, including mounting screws. For mounting voice alarm system ONE-500.



ONE-RMA2

Order No. 1000111



482 mm (19") rack mounting bracket

- For mounting voice alarm system ONE-500 into a 482 mm (19") rack
- Supplied with mounting screws





ONE-WMA

Order No. 1000107



Wall bracket

- For wall mounting voice alarm system ONE-500
- Galvanised metal
- 4 mounting holes, Ø 6.5 mm
- Supplied with mounting screws



STE-21

Order No. 1000115



I/O Ethernet interface module,

for controlling and monitoring devices without Ethernet connection.

- Ethernet: 10/100 Base-T, full-duplex and half-duplex (auto)
- Supported protocols: TCP, UDP, HTTP, Telnet



- Connections:
- 1 x Ethernet port
- 2 x RS-232 port
- 1 x RS-485 port
- -2 x IR port
- 10 x GPIO port
- 1 x USB port

TFL-2

Order No. 1000116



Sounder circuit end of line resistor module (EOL)

- Monitoring of 70 V or 100 V speaker
- Easy connection
- Easy installation
- Multiple units can be connected to the same speaker cables
- Low power consumption
- Suitable for voice alarm systems NEO-... and ONE-...



INSTALLATION **MONACOR INTERNATIONAL** 165

VAP-1

Order No. 100011



Emergency microphone station (EN 54-16)

- Up to 56 groups with up to 8 sections per group (448 sections in the whole system)
- Pre-alarm event launcher
- Attention signal
- Volume control
- Indications for power supply, emergency status, fault status, connection with system, power supply fault, microphone cartridge fault
- Transmission of voice evacuation messages and display of pre-recorded messages
- Emergency controls, reset, confirm, test, alarm signal, evacuation signal
- Lateral connection (connect port) of up to 7 extension keypads VAP-8K
- Priority configuration and operating parameters
- Local power supply or power supply via central unit
- Wall mounting or 482 mm (19") rack mounting
- EN 54-16 certified



Model	VAP-1
Power supply	4.5-5.5 V/200-500 mA
Admiss. ambient temp.	-5 °C to +45 °C
Dimensions	259 x 132 x 50 mm
Weight	1 kg
Connections	2 x RJ45 (ASCI bus in/out)
	mini USB (power supply)

VAP-8K

Order No. 1000119



Extension keypad

- 8 additional buttons for emergency microphone station VAP-1
- Up to 7 x VAP-8K can be connected to a VAP-1
- $\bullet \ \mathsf{LED} \ \mathsf{indications}$
- Robust metal housing
- EN 54 certified



VAP-1EC

Order No. 1000118



Mounting kit, for mounting emergency system microphone station VAP-1 into wall-mounted housings RACK-4ALT and RACK-6ALT.



RACK-6ALT

Order No. 1000102



482 mm (19") wall-mounted housing, 6 RS

- 6 RS rack for wall mounting
- Metal framed glass door at the front with lock and key, opening angle: 180°
- Complete design with 19" rack guides
- Wiring opening at the top and bottom
- Dimensions: 601 x 372 x 152 mm



RACK-4ALT

Order No. 1000105



482 mm (19") wall-mounted housing, 4 RS

- 4 RS rack for wall mounting
- Metal framed glass door at the front with lock and key, opening angle: 180°
- Complete design with 19" rack guides
- Wiring opening at the top and bottom
- Dimensions: 601 x 282 x 151 mm



PA-26FMU



PA emergency sound system, for integrating into PA systems according to EN 60849.

- Hand-held microphone with monitored functionality
- Alarm input for triggering alarm
- Reproduction of MP3 voice recordings via integrated SD card slot (for media up to 32 GB, not supplied), volume control
- Siren emits an acoustic signal for 10 seconds when alarm is triggered, volume control
- Built-in signal light FIRE flashes when alarm is triggered
- Balanced line output via spring-loaded terminal
- 24 V power supply via PSS-3000SV, available at option



Model	PA-26FMU	
Output level	1.23 V/600 Ω, bal.	
Siren frequency	800 Hz	
Max. recording time	dep. on storage medium	
Power supply	= 24 V/200 mA	
Dimensions	482 x 88 x 200 mm, 2 RS	
Weight	3 kg	

PA-24ESP

Order No. 0243120



24 V emergency power supply, for our PA components with 24 V connection.

- Possible to install 2 x rechargeable lead battery NPA-12/24
- Screw terminal for external 24 V rechargeable batteries
- Maximum charging current: 2.5 A
- Electronic charging control with overload protection, protection against total discharge and trickle charge
- 1 x output = 24 V/1 A (unswitched)
- 2 x output = 24 V/32 A
- 3 x output = 24 V/16 A
- Power supply: ~ 230 V/50 Hz/110 VA
- Dimensions: 482 x 135 x 405 mm
- Weight: 11.7 kg



MAESTRO-1



PA telephone announcement adapter, for connecting to a telephone system as an analogue AB extension line.

- Announcement facility for each telephone connected to the telephone system
- Automatic call acceptance
- Automatic disconnection
- Chime can be activated as required
- Integrated micro SD card (4 GB) for storing announcements (audio files in MP3 format or WAV format)
- Analogue telephone connection (2-wire connection)
- Connection via plug-in screw terminals

- Mini USB port for configuration of the MAESTRO-1 via
- Power is provided via enclosed plug-in power supply
- Supplied with USB cable



INSTALLATION **MONACOR INTERNATIONAL** 167 TS-C50-1000/T

Order No. 0163470

TS-C30-700/T Order No. 0163720

TS-C20-500/T

Order No. 0163730

TS-C10-300/T

Order No. 0163740



Weatherproof PA Column Speakers, with EN 54-24 certification.

- 100 V line technique
- 7.7 cm (3") waterproof full range speaker in different quantities
- Connection via ceramic terminals with thermal fuse in the cabinet
- 2 x PG9 cable gland
- Robust, plastic-coated aluminium cabinet with front protective grille
- The speaker complies with British Standard BS 5839, Part 8
- Supplied with plastic wall bracket for pivoting and tilting



Model	TS-C50-1000/T	TS-C30-700/T	TS-C20-500/T	TS-C10-300/T
Power rating (RMS)	50/30/15/7.5 W	30/15/7.5 W	20/15/10/5 W	10/6/3/1.5 W
Frequency range	200-20,000 Hz	200-17,000 Hz	200-17,000 Hz	200-18,000 Hz
Number of built-in speakers	8	6	4	2
Sensitivity	100 dB/W/m	97 dB/W/m	97 dB/W/m	95 dB/W/m
Beam angle	H173°/V17°	H: 160°/V: 26°	H: 149°/V: 38°	H: 149°/V: 66°
Protection class	IP66	IP66	IP66	IP66
Admiss. ambient temp.	-20 °C to +90 °C			
Dimensions	100 x 971 x 92 mm	100 x 700 x 92 mm	100 x 510 x 92 mm	100 x 296 x 92 mm
Weight	5.1 kg	3.8 kg	2.8 kg	1.6 kg

ESP-1000AB

Order No. 0163670



PA A/B wall speaker, with EN 54-24 certification for voice evacuation systems with A/B speaker distribution according to EN 60849.

- 100 V line technique
- 2 x 10 cm full range speaker
- 2 separate transformers with power taps with 6/3/1.5 W each
- Connection via 2 ceramic screw terminals inside the cabinet
- Plastic cabinet with open rear panel and protective metal front grille

Model	ESP-1000AB	
Power rating (RMS)	2 x 6/3/1.5 W	
Frequency range	80-20,000 Hz	
Sensitivity	92 dB/W/m	
Beam angle	160°	
Admiss. ambient temp.	-10 °C to +50 °C	
Dimensions	Ø 220 mm x 100 mm	
Weight	1.98 kg	

• Supplied with aluminium mounting bracket, screws and wall plugs



EDL-416EN/WS











Moisture-proof PA ball speaker, with EN 54-24 certification, 1438-CPR-0535.

- 100 V line technique
- White ABS housing (UL 94HB), UV-resistant and weatherproof
- Moisture-proof speaker cone
- Supplied with 450 cm connection cable and canopy
- Ceramic connection terminal, thermal fuse

Model	EDL-416EN/WS	
Power rating (RMS)	16/8/4 W	
Frequency range	130-18,000 Hz	
Sensitivity	89.9 dB/W/m	
Beam angle	196° (1 kHz)	
	132° (2 kHz)	
	170° (4 kHz)	
Protection class	IP35	
Admiss. ambient temp.	-20 °C to +80 °C	
Dimensions	Ø 185 mm x 157 mm	
Weight	1.6 kg	



ESP-62AB/WS



PA A/B wall speaker, with EN 54-24 certification for voice evacuation systems with A/B speaker distribution according to EN 60849.

- 100 V line technique
- 13 cm full range speaker with dual voice coil
- 2 separate transformers with power taps with 6/3/1.5 W each
- Connection via 2 ceramic screw terminals inside the cabinet
- Symmetrical design allows for horizontal and vertical mounting

Model	ESP-62AB/WS	
Power rating (RMS)	2 x 6/3/1.5 W	
Frequency range	80-19,000 Hz	
Sensitivity	93 dB/W/m	
Beam angle	160°	
Admiss. ambient temp.	-10 °C to +50 °C	
Dimensions	240 x 330 x 83 mm	
Weight	1.5 kg	

- Plastic cabinet with open rear panel and protective metal front grille
- Supplied with screws and wall plugs



ESP-62/WS

Order No. 0163030









- 100 V line technique via audio transformer with 3 power taps
- Full range speaker with a high-quality sound and a clear voice reproduction
- Plastic cabinet of a special design (open rear panel) with protective metal grille
- Symmetrical design allows for horizontal and vertical mounting

ESP-62/WS
6/3/1.5 W
100-19,000 Hz
93 dB/W/m
-10 °C to +50 °C
240 x 330 x 85 mm
1.2 kg

- Supplied with mounting screws and screw head covers
- Ball-proof according to DIN 18032, Part 3



ESP-50AB/WS

Order No. 0160120







PA A/B wall speaker, with EN 54-24 certification for voice evacuation systems with A/B speaker distribution according to EN 60849 and DIN VDE 0833-4.

- 100 V line technique
- 2 separate full range speakers (10 cm), each with its own transformer 6/3/1.5 W
- Connection via 2 spring-loaded terminals inside the cabinet
- Wooden cabinet with protective metal grille

Model	ESP-50AB/WS
Power rating (RMS)	2 x 6/3/1.5 W
Frequency range	120-20,000 Hz
Sensitivity	92 dB/W/m
Admiss. ambient temp.	-10 °C to +50 °C
Dimensions	265 x 165 x 90 mm
Weight	1.9 kg

- Easy wall mounting via supplied metal bracket and mounting accessories
- Ball-proof according to DIN 18032, Part 3



ESP-50EN/WS









PA wall speaker, with EN 54-24 certification.

- 100 V line technique
- Full range speaker (13 cm)
- Suitable for voice and music transmissions
- Connection via spring-loaded terminal inside the
- Wooden cabinet with protective metal grille
- Easy wall mounting via supplied mounting bracket and mounting accessories
- Ball-proof according to DIN 18032, Part 3

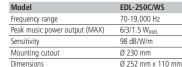
Model	ESP-50EN/WS
Power rating (RMS)	6/3/1.5 W
Frequency range	100-19,000 Hz
Sensitivity	93 dB/W/m
Housing material	wood
Admiss. ambient temp.	-10 °C to +50 °C
Dimensions	265 x 165 x 90 mm
Weight	1.6 kg



EDL-250C/WS







- PA ceiling speaker, with EN 54-24 certification.
- 100 V line technique
- Full range speaker with a very high efficiency and high maximum volume level
- Metal housing
- Fire protection cover
- · Quick mounting facility

• 3 power taps via push terminals

Weight

• Ball-proof according to DIN 18032, Part 3



EDL-224ABC

Order No. 0160100









- 100 V line technique
- 2 separate speaker systems
- Full range speaker with a very high efficiency and high maximum volume level
- Metal housing
- Fire protection cover

Model	EDL-224ABC
Frequency range	75-20,000 Hz
Power rating (RMS)	2 x 6/2 x 3/2 x 1.5 W
Sensitivity	92 dB/W/m
Mounting cutout	Ø 230 mm
Dimensions	Ø 252 mm x 115 mm
Weight	1.84 kg

1.8 kg

- Quick mounting facility
- 3 power taps via push terminals
- Ball-proof according to DIN 18032, Part 3



EDL-165AB/WS

Order No. 0163650









PA A/B ceiling speaker, with EN 54-24 certification
for systems with A/B speaker distribution according to
FN 60849

- 100 V line technique
- 13 cm full range speaker with dual voice coil
- 2 separate transformers with power taps with 6/3/1.5 W each
- Connection via 2 ceramic screw terminals inside the cabinet

Model	EDL-165AB/WS
Frequency range	80-19,000 Hz
Power rating (RMS)	2 x 6/3/1.5 W
Sensitivity	93 dB/W/m
Max. rated SPL	101 dB
Radiation angle	180°
Mounting cutout	Ø 140-150 mm
Dimensions	Ø 170 mm x 95 mm
Weight	1.4 kg

- Metal housing with fire protection cover and protective metal front grille
- Ball-proof according to DIN 18032, Part 3



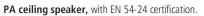
EDL-165C/WS

Order No. 0160090









- 100 V line technique
- Full range speaker with a high efficiency
- Metal housing
- Fire protection cover
- Quick mounting facility

Model	EDL-165C/WS
Frequency range	80-19,000 Hz
Power rating (RMS)	6/3/1.5 W
Sensitivity	93 dB/W/m
Mounting cutout	Ø 150 mm
Dimensions	Ø 170 mm x 95 mm
Weight	1.1 kg

- 3 power taps via push terminals
- Ball-proof according to DIN 18032, Part 3



IT-350/EN













Weatherproof horn speaker (music horn), 2-way technology and EN 54-24 certification

- 100 V line technique with 4 power taps: 30/15/7.5/3.75 W
- Weatherproof and IP66 certified
- High-quality music reproduction
- 16 cm bass-midrange speaker and 25 mm (1") horn
- Robust light grey ABS plastic housing

Model	IT-350/EN	
Power rating (RMS)	30/15/7.5/3.75 W	
Frequency range	100-20,000 Hz	
Sensitivity	101 dB/W/m	
Beam angle	H100°/V60°	
Features	2-way	
Protection class	IP66	
Admiss. ambient temp.	-20 °C to +90 °C	
Dimensions	370 x 250 x 330 mm	
Weight	4.5 kg	

• Supplied with mounting bracket and stainless steel screws



IT-32EN

IT-15EN



Weatherproof horn speakers, with EN 54-24 certification.

- 100 V line technique
- IP66 tested
- Light grey ABS housing (self-extinguishing, complies with the standard UL 94V-0)
- Cable inlet via high-strength cable gland

Model	IT-32EN	IT-15EN
Power rating (RMS)	30/15/7.5 W	15/7.5/3.75 W
Frequency range	350-10,000 Hz	350-10,000 Hz
Sensitivity	110 dB/W/m	110 dB/W/m
Beam angle	H: 110°/V: 55°	H: 110°/V: 55°
Admiss. ambient temp.	-25 °C to +70 °C	-25 °C to +70 °C
Dimensions	180 x 120 x 230 mm	180 x 120 x 230 mm
Weight	2.1 kg	2.1 kg

- Integrated high-pass filter for optimising the sound and stability
- Supplied with mounting bracket



RL-1ENABDS

Order No. 0163690



PA A/B sound projector for wall mounting, with

EN 54-24 certification for voice evacuation systems with A/B speaker distribution according to EN 60849.

- 100 V line technique
- 13 cm full range speaker with dual voice coil
- 2 x 100 V transformer with power taps on the cable 6/3/1.5 W
- Connection via 2 x 4-core cable (length: 1.5 m)

Model	RL-1ENABDS
Power rating (RMS)	2 x 6/3/1.5 W
Frequency range	80-20,000 Hz
Sensitivity	93 dB/W/m
Beam angle	130°
Dimensions	Ø 144 mm x 210 mm
Weight	2.3 kg

- Metal housing with front protective grille
- Supplied with pan/tilt bracket and mounting accessories



RL-1EN

Order No. 0163680



PA sound projector for wall mounting, with EN 54-24 certification.

- 100 V line technique
- 13 cm full range speaker
- 100 V transformer with power taps on the cable 6/3/1.5 W
- Connection via 4-core cable (length: 1.5 m)

Model	RL-1EN	
Power rating (RMS)	6/3/1.5 W	
Frequency range	80-20,000 Hz	
Sensitivity	93 dB/W/m	
Beam angle	130°	
Dimensions	Ø 144 mm x 210 mm	
Weight	1.9 kg	

- Metal housing with front protective grille
- Supplied with pan/tilt bracket and mounting accessories



DA-P20-130/T

Order No. 0163880











Weatherproof PA sound projector, for wall mounting and with EN 54-24 certification.

- 100 V line technique
- 13 cm waterproof full range speaker
- 100 V transformer with power taps on the cable 20/10/5/2.5 W
- Connection via ceramic terminal and thermal fuse in the junction box (cable length: 1 m)

Model	DA-P20-130/T
Power rating (RMS)	20/10/5/2.5 W
Frequency range	150-20,000 Hz
Sensitivity	90 dB/W/m
Beam angle	110°
Admiss. ambient temp.	-20 °C to +90 °C
Dimensions	Ø 145 mm x 222 mm
Weight	1.367 kg

- · ABS plastic housing with front protective grille
- Robust aluminium mounting bracket



DA-10-260/T













- 100 V line technique
- 2 x 13 cm full range speaker for bi-directional
- 100 V transformer with power taps 10/6/3/1.5 W
- Connection via ceramic terminals with thermal fuse in the mounting base

Model	DA-10-260/T	
Power rating (RMS)	10/6/3/1.5W	
Frequency range	120-17,000 Hz	
Sensitivity	93 dB/W/m	
Beam angle	150°	
Protection class	IP65	
Admiss. ambient temp.	-20 °C to +90 °C	
Dimensions	166 x 197 x 161 mm	
Weight	2.31 kg	

- Robust plastic-coated aluminium housing with front protective grille
- Robust vandal-resistant aluminium mounting base



Flush-mount Speakers

EDL-620EN

Order No. 0163180 EDL-612EN



Order No. 0163170 EDL-606EN Order No. 0163160

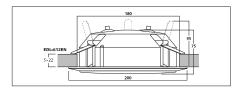


PA ceiling speakers, with EN 54-24 certification.

- 100 V line technique with 3 power taps
- Full range speaker with optimised voice reproduction
- Plastic cover with low mounting depth
- For a ceiling thickness from 5 to 22 mm
- Quick installation
- Robust metal basket and protective grille



Model	EDL-620EN	EDL-612EN	EDL-606EN
Frequency range	120-15,000 Hz	120-15,000 Hz	120-15,000 Hz
Power rating (RMS)	20/10/5 W	12/6/3 W	6/3/1.5 W
Sensitivity	93 dB/W/m	93 dB/W/m	93 dB/W/m
Mounting cutout	Ø 180 mm	Ø 180 mm	Ø 180 mm
Dimensions	Ø 200 mm x 70 mm	Ø 200 mm x 70 mm	Ø 200 mm x 70 mm
Weight	1.1 kg	950 g	880 g



EDL-620 Order No. 0162590

EDL-612

100 V

100 V

Order No. 0161810 **EDL-606**

100 V

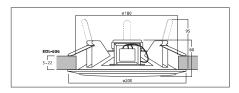
Order No. 0161800

PA ceiling speakers

- 100 V line technique via audio transformer with power taps
- For a ceiling thickness from 5 to 22 mm
- Full range speaker, type 165
- A more powerful reproduction of the range of fundamental notes
- Robust metal version (basket and protective grille)



Model	EDL-620	EDL-612	EDL-606	
Frequency range	100-20,000 Hz	100-20,000 Hz	100-20,000 Hz	
Power rating (RMS)	20/10/5 W	12/6/3 W	6/3/1.5 W	
Sensitivity	93 dB/W/m	92 dB/W/m	92 dB/W/m	
Mounting cutout	Ø 180 mm	Ø 180 mm	Ø 180 mm	
Dimensions	Ø 200 mm x 65 mm	Ø 200 mm x 60 mm	Ø 200 mm x 60 mm	
Weight	900 g	750 g	698 g	



EDL-706/12

Order No. 0163370



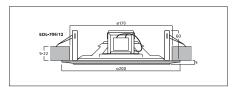
PA ceiling speaker

- 100 V line technique via audio transformer with
- For a ceiling thickness from 5 to 22 mm
- Full range speaker, type 165
- High speech intelligibility
- Robust metal version (basket and protective grille)

Supplied in packing units (PU) of 12 pcs. only



Model	EDL-706/12
Frequency range	120-17,000 Hz
Power rating (RMS)	6/3/1.5 W
Sensitivity	93 dB/W/m
Mounting cutout	Ø 170 mm
Dimensions	Ø 200 mm x 65 mm
Weight	0.6 kg



EDL-118TW

Order No. 0163850 Order No. 0163840





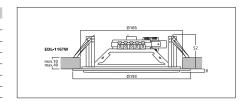
PA ceiling speakers, with integrated tweeter.

- 100 V line technique
- 2-way coaxial speaker
- Metal housing with protective grille
- Power taps: 15/10/6/3 W

- Quick-mounting facility with spring clips
- Connection via spring-loaded terminal
- For a ceiling thickness from 10 to 40 mm



Model	EDL-118TW	EDL-116TW	
Frequency range	90-20,000 Hz	90-20,000 Hz	
Power rating (RMS)	15/10/6/3 W	10/6/3/1.5 W	
Sensitivity	94 dB/W/m	92 dB/W/m	
Max. rated SPL	106 dB	102 dB	
Mounting cutout	Ø 216 mm	Ø 166 mm	
Dimensions	Ø 252 mm x 85 mm	Ø 195 mm x 55 mm	
Weight	1.21 kg	0.82 kg	



EDL-28

Order No. 0161460

100V

EDL-26 Order No. 0161450

100 V

EDL-25 Order No. 0161440

100 V

EDL-24

Order No. 0161430

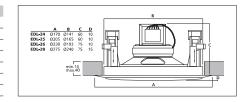
100 V

PA ceiling speakers

- 100 V line technique via audio transformer with power taps
- Full range speaker with dual cone
- Plastic housing with protective metal grille
- ABS plastic material, self-extinguishing according to UL 94V-0
- For a ceiling thickness from 10 to 40 mm



Model	EDL-28	EDL-26	EDL-25	EDL-24
Frequency range	60-14,000 Hz	80-14,000 Hz	100-14,000 Hz	100-14,000 Hz
Power rating (RMS)	10/5/2.5/1.25 W	10/5/2.5/1.25 W	6/3/1.5 W	6/3/1.5 W
Sensitivity	91 dB/W/m	86 dB/W/m	87 dB/W/m	87 dB/W/m
Max. rated SPL	100 dB	95 dB	94 dB	94 dB
Mounting cutout	Ø 240 mm	Ø 200 mm	Ø 165 mm	Ø 142 mm
Dimensions	Ø 275 mm x 90 mm	Ø 230 mm x 85 mm	Ø 205 mm x 70 mm	Ø 170 mm x 70 mm
Weight	1.14 kg	0.922 kg	0.724 kg	0.63 kg



EDL-18

Order No. 0163830

100V

EDL-16

100 V

Order No. 0163820

100 V

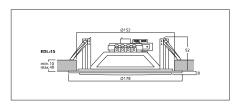
EDL-15 Order No. 0163810

PA ceiling speakers

- 100 V line technique
- EDL-18: 20 cm (8") full range speaker
- EDL-16: 15 cm (6") full range speaker
- EDL-15: 13 cm (5") full range speaker
- Metal housing with protective grille
- Quick-mounting facility with spring clips
- Connection via spring-loaded terminal
- For a ceiling thickness from 10 to 40 mm



Model	EDL-18	EDL-16	EDL-15
Frequency range	90-16,000 Hz	90-16,000 Hz	100-16,000 Hz
Power rating (RMS)	10/6/3/1.5 W	10/6/3/1.5 W	6/3/1.5 W
Sensitivity	94 dB/W/m	92 dB/W/m	92 dB/W/m
Max. rated SPL	106 dB	102 dB	100 dB
Mounting cutout	Ø 216 mm	Ø 166 mm	Ø 152 mm
Dimensions	Ø 252 mm x 85 mm	Ø 195 mm x 55 mm	Ø 182 mm x 50 mm
Weight	1.18 kg	0.8 kg	0.6 kg



Flush-mount Speakers

EDL-224ABC

Order No. 0160100



PA A/B ceiling speaker, with EN 54-24 certification. For systems with A/B speaker distribution. Cost-effective reduction of the required ceiling cutouts.

- 100 V line technique
- 2 separate speaker systems
- Full range speaker with a very high efficiency and high maximum volume level
- Metal housing
- Fire protection cover
- Quick mounting facility
- 3 power taps via push terminals

EDL-224ABC
75-20,000 Hz
2 x 6/2 x 3/2 x 1.5 W
92 dB/W/m
Ø 230 mm
Ø 252 mm x 115 mm
1.84 kg

• Ball-proof according to DIN 18032, Part 3





EDL-165AB/WS Order No. 0163650







PA A/B ceiling speaker, with EN 54-24 certification for systems with A/B speaker distribution according to EN 60849.

- 100 V line technique
- 13 cm full range speaker with dual voice coil
- 2 separate transformers with power taps with 6/3/1.5 W each
- Connection via 2 ceramic screw terminals inside the cabinet
- Quick mounting with stainless steel spring clips

Model	EDL-165AB/WS	
Frequency range	80-19,000 Hz	
Power rating (RMS)	2 x 6/3/1.5 W	
Sensitivity	93 dB/W/m	
Max. rated SPL	101 dB	
Radiation angle	180°	
Mounting cutout	Ø 140-150 mm	
Dimensions	Ø 170 mm x 95 mm	
Weight	1.4 kg	

- Metal housing with fire protection cover and protective metal front grille
- Ball-proof according to DIN 18032, Part 3



EDL-165C/WS

Order No. 0160090







PA ceiling speaker, with EN 54-24 certification.

- 100 V line technique
- Full range speaker with a high efficiency
- Metal housing
- Fire protection cover
- Quick mounting facility
- 3 power taps via push terminals
- Ball-proof according to DIN 18032, Part 3

Model	EDL-165C/WS
Frequency range	80-19,000 Hz
Power rating (RMS)	6/3/1.5 W
Sensitivity	93 dB/W/m
Mounting cutout	Ø 150 mm
Dimensions	Ø 170 mm x 95 mm
Weight	1.1 kg



EDL-150/WS

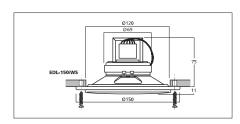
Order No. 0161220

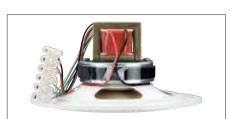


PA ceiling speaker

- 100 V line technique via audio transformer with 5 power taps
- Full range speaker with dual cone
- Metal housing with white, fixed protective metal grille

Model	EDL-150/WS
Frequency range	100-12,000 Hz
Power rating (RMS)	10/5/2.5/1.25/0.625 W
Sensitivity	89 dB/W/m
Mounting cutout	Ø 120 mm
Dimensions	Ø 150 mm x 86 mm
Weight	709 a





EDL-70/WS

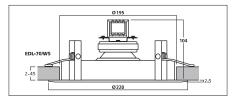
Order No. 0163310



PA ceiling speaker, with special 2-step mounting.

- 100 V line technique
- Snap-in mounting
- For a ceiling thickness from 2 to 45 mm
- Full range speaker with high speech intelligibility
- Wide frequency range
- Robust metal version (basket and protective grille)

EDL-70/WS
90-20,000 Hz
6/3/1.5 W
97 dB/W/m
Ø 195 mm
Ø 220 mm x 104 mm
1 kg





EDL-11TW

Order No. 0161210



EDL-11TW/SW

Order No. 0162410

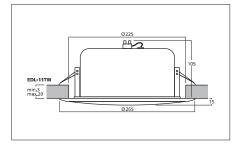


PA ceiling speakers

- 100 V line technique
- White or black metal housing
- Including fire protection cover for a high safety level
- Additional integrated tweeter
- Quick-mounting facility
- For a ceiling thickness from 3 to 20 mm











Model	EDL-11TW	EDL-11TW/SW	
Frequency range	60-20,000 Hz	60-20,000 Hz	
Power rating (RMS)	10/5/2.5 W	10/5/2.5 W	
Sensitivity	97 dB/W/m	97 dB/W/m	
Mounting cutout	Ø 225 mm	Ø 225 mm	
Dimensions	Ø 264 mm x 120 mm	Ø 264 mm x 120 mm	
Weight	1.73 kg	1.6 kg	

EDL-36TW

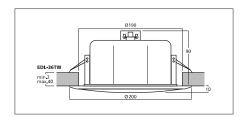
Order No. 0162070



PA ceiling speakers

- 100 V line technique
- Additional integrated tweeter
- Fire protection cover
- Metal housing with fitted ceramic terminal
- Thermal fuse: 1 A/150 °C
- 3-step power selector switch
- Glass fibre insulated supply line with high-strength cable gland
- Quick-mounting facility
- For a ceiling thickness from 2 to 40 mm

Model	EDL-36TW
Frequency range	150-20,000 Hz
Power rating (RMS)	10/5/2.5 W
Sensitivity	95 dB/W/m
Mounting cutout	Ø 190 mm
Dimensions	Ø 200 mm x 100 mm
Weight	1.45 kg







Flush-mount Speakers

EDL-206 Order No. 0161650

EDL-204Order No. 0161630

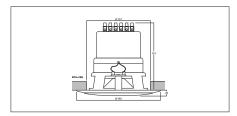


Weatherproof flush-mount PA speakers

- 100 V line technique
- Full range speaker with dual cone, perfect sound characteristics
- Splashproof due to white one-piece plastic design, high-quality polypropylene cone with rubber surround
- For indoor and outdoor applications
- Supplied with stainless steel mounting screws

Model	EDL-206	EDL-204
Frequency range	85-18,000 Hz	100-18,000 Hz
Power rating (RMS)	20/15/10/5/2.5 W	20/15/10/5/2.5 W
Sensitivity	90 dB/W/m	89 dB/W/m
Mounting cutout	Ø 132 mm	Ø 104 mm
Dimensions	Ø 180 mm x 130 mm	Ø 132 mm x 118 mm
Weight	900 g	812 g







EDL-82/WS

Order No. 0161490

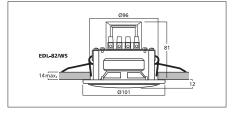


PA ceiling speaker

- 100 V line technique
- White cover
- Similar design to standard flush-mounted halogen lights
- Suitable for speech and background music, very consistent frequency response
- Quick-mounting facility
- Plastic housing with protective metal grille
- ABS plastic material, self-extinguishing according to UL 94V-0
- ullet For a ceiling thickness from 2 to 14 mm

Model	EDL-82/WS	
Frequency range	200-20,000 Hz	
Power rating (RMS)	6/3/1.5 W	
Sensitivity	86 dB/W/m	
Mounting cutout	Ø 96 mm	
Dimensions	Ø 100 mm	
Weight	635 g	







EDL-22/WS

Order No. 0162770

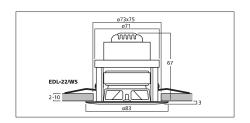


PA ceiling speaker, small and compact design, with a very wide bandwidth reproduction.

- 100 V line technique
- Quick-mounting facility
- White plastic housing
- For a ceiling thickness from 2 to 10 mm

Model	EDL-22/WS
Frequency range	130-20,000 Hz
Power rating (RMS)	6/3/1.5 W
Sensitivity	85 dB/W/m
Mounting cutout	Ø 73 mm
Dimensions	Ø 83 mm x 70 mm
Weight	325 g







ESUB-6C/WS Order No. 0259340

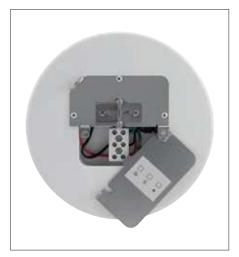




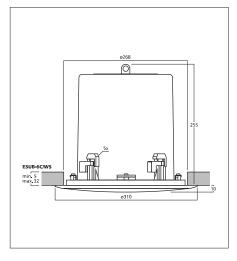
Flush-mount wall and ceiling PA subwoofer, 55 W

- Band-pass subwoofer with 16 cm (6") speaker of long excursion
- 100 V line technique with 4 power taps
- \bullet Switchable to 4 Ω
- Supplied with UL-certified safety rope as additional mounting safeguard for the subwoofer
- Robust ceramic connecting terminal
- Integrated crossover network
- For a ceiling thickness from 5 to 32 mm

Model	ESUB-6C/WS	
Frequency range	45-280 Hz	
Power rating (RMS)	40/20/10 W (100 V),	
	55 W (4 Ω)	
Peak music power output (MAX)	110 W	
Sensitivity	88 dB/W/m	
Max. rated SPL	104 dB	
Radiation angle	180°	
Mounting cutout	Ø 268 mm	
Dimensions	Ø 310 mm x 265 mm	
Weight	5 kg	





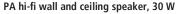


MONACOR INTERNATIONAL INSTALLATION

EDL-82HQ

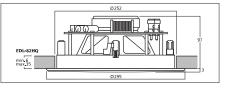
Order No. 0163440





- 100 V line technique or 8 Ω operation
- 2-way version with coaxial dome tweeter
- 20 cm (8") bass speaker with waveguide and 25 mm (1") silk dome
- Pivoting tweeter via ball joint
- Excellent sound characteristics
- Stylish flush fit protective metal grille with slim plastic
- Protective grille magnetically attached to speaker front
- For a wall thickness/ceiling thickness from 6 to 35 mm

Model	EDL-82HQ
Frequency range	30-20,000 Hz
Resonant frequency (fs)	40 Hz
Power rating (RMS)	50 W (8 Ω)
	30/16/8/4 W (100 V)
Sensitivity	89 dB/W/m
Mounting cutout	Ø 252 mm
Dimensions	Ø 295 mm x 100 mm
Weight	2 kg





EDL-62HQ



PA hi-fi wall and ceiling speaker, 30 W

- 100 V line technique or 8 Ω operation
- 2-way version with coaxial dome tweeter
- 16 cm (6½") bass speaker with waveguide and 25 mm (1") silk dome
- Pivoting tweeter via ball joint
- Excellent sound characteristics
- Stylish flush fit protective metal grille with slim plastic
- Protective grille magnetically attached to speaker front
- For a wall thickness/ceiling thickness from 6 to 35 mm

Model	EDL-62HQ
Frequency range	50-20,000 Hz
Resonant frequency (fs)	60 Hz
Power rating (RMS)	35 W (8 Ω)
	30/16/8/4 W (100 V)
Sensitivity	89 dB/W/m
Mounting cutout	Ø 210 mm
Dimensions	Ø 250 mm x 98 mm
Weight	1.82 kg



EDL-62HQ min. 6 max.5	95
	Ø250

EDL-42HO

Order No. 0163890









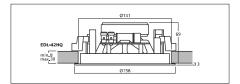


Hi-fi wall and ceiling speaker, 15 W

- \bullet 100 V line technique or 8 Ω operation
- Power taps: 100 V (8/4/2/1 W)
- 2-way version with coaxial dome tweeter
- 10 cm (4") bass speaker with waveguide and 20 mm (3/4") silk dome
- Excellent sound characteristics
- Supplied with 2 stylish protective metal grilles for an individual look
- Protective grille to be magnetically attached
- For a wall thickness/ceiling thickness from 8 to 30 mm

Model	EDL-42HQ
Frequency range	70-20,000 Hz
Resonant frequency (fs)	70 Hz
Power rating (RMS)	15 W (8 Ω)
	8/4/2/1 W (100 V)
Peak music power output (MAX)	30 W
Sensitivity	85 dB/W/m
Max. rated SPL	96 dB
Mounting cutout	Ø 141 mm
Dimensions	Ø 158 mm x 72 mm
Weight	0.930 kg





EDL-10TW/WS

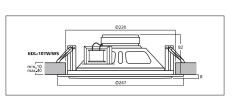
Order No. 0163380



PA ceiling speaker, with integrated tweeter.

- 100 V line technique
- 20 cm (8") 2-way coaxial speaker
- Metal housing with protective speaker grille
- Excellent sound quality with consistent radiation
- Quick-mounting facility with spring clips
- For a ceiling thickness from 10 to 40 mm

Model	EDL-10TW/WS
Frequency range	50-20,000 Hz
Power rating (RMS)	10/6/4/2 W
Sensitivity	95 dB/W/m
Max. rated SPL	105 dB
Radiation angle	110° @ 2,000 Hz
Mounting cutout	Ø 215 mm
Dimensions	Ø 247 mm x 90 mm
Weight	1.2 kg





EDL-10TW

Order No. 0161200

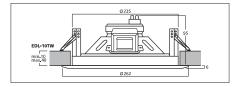


PA ceiling speaker, with additional integrated tweeter

- 100 V line technique
- Metal housing
- Quick-mounting facility
- For a ceiling thickness from 10 to 40 mm

Model	EDL-10TW
Frequency range	50-20,000 Hz
Power rating (RMS)	10/6/4/2 W
Sensitivity	95 dB/W/m
Mounting cutout	Ø 235 mm
Dimensions	Ø 262 mm x 101 mm
Weight	1.5 kg





EDL-158 Order No. 0162930

EDL-156 Order No. 0161910

EDL-155

Order No. 0162920

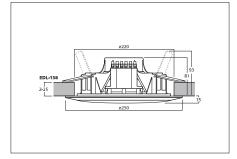


Weatherproof PA ceiling speakers, heat-resistant up to 100 °C. For applications in saunas and swimming

pool areas.

- 100 V line technique
- 2-way system with dome tweeter
- Excellent sound
- White plastic housing
- Weatherproof speaker cone
- Tested according to ASTM B117 (400 h salt spray test)
- For a ceiling thickness from 2 to 25 mm







Model	EDL-158	EDL-156	EDL-155	
Frequency range	50-16,000 Hz	60-20,000 Hz	70-18,000 Hz	
Power rating (RMS)	15/10/5/2.5/1.25 W	15/10/5/2.5/1.25 W	15/10/5/2.5/1.25 W	
Sensitivity	89 dB/W/m	88 dB/W/m	87 dB/W/m	
Mounting cutout	Ø 220 mm	Ø 190 mm	Ø 170 mm	
Dimensions	Ø 250 mm x 96 mm	Ø 226 mm x 100 mm	Ø 202 mm x 100 mm	
Weight	1.12 kg	1.1 kg	1.05 kg	

EDL-65TW

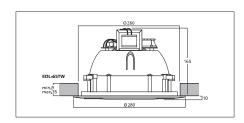
Order No. 0162220



Pivoting PA ceiling speaker

- 100 V line technique
- High power rating with 30 W max.
- High-quality 2-way coaxial speaker system with 2-way crossover network
- Complete speaker part can be moved for optimising the sound radiation pattern indoors
- Plastic housing of superior design with metal grille
- Plastic material of ABS and self-extinguishing according to UL 94V-0
- For a ceiling thickness from 9 to 35 mm

Model	EDL-65TW
Frequency range	50-20,000 Hz
Power rating (RMS)	30/15/7.5 W
Sensitivity	91 dB/W/m
Mounting cutout	Ø 260 mm
Dimensions	Ø 280 mm x 175 mm
Weight	2.38 kg





Wall and Ceiling Speakers

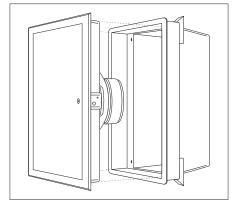
ESP-8U

Order No. 0162170



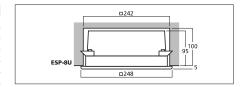
PA wall and ceiling speaker for flush mounting

- 100 V line technique via audio transformer with 3 power taps
- Perfect sound presence for a powerful voice reproduction with a very high audibility
- 20 cm speaker of very sensitivity (99 dB/W/m)
- Plastic tray for flush mounting in walls or solid ceilings
- Required hole in wall: approx. 242 x 242 x 100 mm
- Metal front grille with plastic frame





Model	ESP-8U
Frequency range	200-17,000 Hz
Power rating (RMS)	6/3/1.5 W
Sensitivity	99 dB/W/m
Mounting cutout	242 x 242 mm
Dimensions	248 x 248 x 100 mm
Weight	1.7 kg



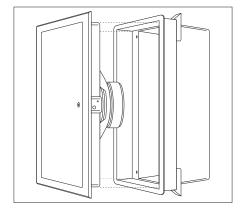
ESP-5U

Order No. 0162160



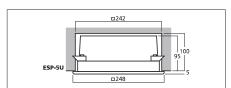
PA wall and ceiling speaker for flush mounting

- 100 V line technique via audio transformer with 3 power taps
- Wide bandwidth radiation for a pleasant music reproduction
- 13 cm speaker of high efficiency (94 dB/W/m)
- Plastic tray for flush mounting in walls or solid ceilings
- Required hole in wall: approx. 242 x 242 x 100 mm
- Metal front grille with plastic frame





Model	ESP-5U
Frequency range	100-19,000 Hz
Power rating (RMS)	6/3/1.5 W
Sensitivity	94 dB/W/m
Mounting cutout	242 x 242 mm
Dimensions	248 x 248 x 100 mm
Weight	1.4 kg



ESP-32/WS

Order No. 0161680

100V

ESP-22/WS Order No. 0161670

100 V

ESP-17/WS Order No. 0161660

100 V

ESP-15/WS Order No. 0161550

100V

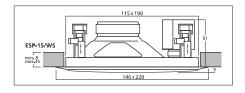
PA hi-fi wall and ceiling speakers

- 100 V line technique, 2-way version with dome tweeter (movable with ESP-17/WS, ESP-22/WS and ESP-32/WS)
- Plastic housing with protective metal grille



- extinguishing according to UL 94V-0
- Excellent sound characteristics
- For a wall thickness/ceiling thickness from 8 to 35 mm

Model	ESP-32/WS	ESP-22/WS	ESP-17/WS	ESP-15/WS
Frequency range	40-20,000 Hz	50-20,000 Hz	55-20,000 Hz	60-20,000 Hz
Power rating (RMS)	30/15/7.5/4/2 W	20/15/10/5/2.5 W	15/7.5/4/2/1 W	15/7.5/4/2/1 W
Sensitivity	89 dB/W/m	88 dB/W/m	87 dB/W/m	87 dB/W/m
Mounting cutout	330 x 225 mm	275 x 190 mm	270 x 185 mm	115 x 190 mm
Dimensions	358 x 256 x 100 mm	306 x 220 x 100 mm	300 x 214 x 90 mm	146 x 220 x 70 mm
Weight	2.8 kg	2.6 kg	1.9 kg	1.3 kg



Special Speakers

which show completely new ways of invisible PA applications: the super dispersion ceiling speakers effectively utilise an open baffle technology for PA ceiling applications.

EDL-310L

Order No. 0162490

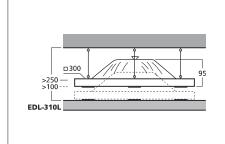


Super dispersion PA ceiling speaker

- 100 V line technique with 3 power taps up to 10 W
- High-quality full range speaker (20 cm)
- For all suspended ceilings and for free suspension
- A very good sound with excellent stereophony with all suspended ceiling grids
- Dimensions: 300 mm x 300 mm, required clearance above the ceiling when resting the speaker directly on the grid: >10 cm, when suspending it above the ceiling: >25 cm
- The sound absorption plate is fitted with 3 foam rubber pads for resting the speaker on the grid and 3 predrilled holes for suspending it









EDL-300L

Model

Weight

Frequency range

Power rating (RMS)

Order No. 0162180



EDL-310L

10/5/2.5 W

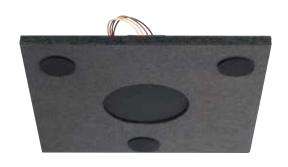
98 dB/W/m 300 x 300 x 95 mm

1.535 kg

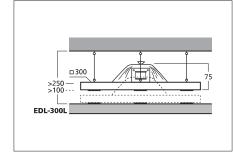
50-18,000 Hz

Super dispersion PA ceiling speaker

- 100 V line technique with 3 power taps
- For all suspended ceilings and for free suspension
- High-quality full range speaker (13 cm)
- A very good sound with excellent stereophony with all suspended ceiling grids
- Dimensions: 300 mm x 300 mm, required clearance above the ceiling when resting the speaker directly on the grid: > 10 cm, when suspending it above the ceiling: > 25 cm
- The sound absorption plate is fitted with 3 foam rubber pads for resting the speaker on the grid and 3 predrilled holes for suspending it



Model	EDL-300L
Frequency range	90-20,000 Hz
Power rating (RMS)	6/3/1.5 W
Sensitivity	93 dB/W/m
Dimensions	300 x 300 x 75 mm
Weight	1.37 kg





Wall and Ceiling Speakers

SPE-82HQ Order No. 0105770

SPE-62HQ



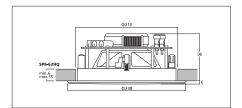


Hi-fi wall and ceiling speakers

- 2-way version with coaxial dome tweeter
- 20 cm (8") bass speaker with waveguide and 25 mm (1") silk dome
- Tweeter movable via ball joint
- Excellent sound characteristics
- Stylish flush fit protective metal grille with slim plastic frame
- Protective grille magnetically attached to the speaker front
- For a wall thickness/ceiling thickness from 6 to 35 mm

Model	SPE-82HQ	SPE-62HQ
Frequency range	30-20,000 Hz	50-20,000 Hz
Resonant frequency (fs)	40 Hz	60 Hz
Power rating (RMS)	50 W	35 W
Peak music power output (MAX)	100 W	70 W
Sensitivity	89 dB/W/m	89 dB/W/m
Mounting cutout	Ø 252 mm	Ø 210 mm
Dimensions	Ø 295 mm x 100 mm	Ø 250 mm x 98 mm
Weight	1.8 kg	1.54 kg





SPE-602HQ

Order No. 0105780

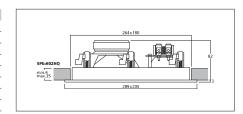


Hi-fi wall and ceiling speaker, 35 W, 8 Ω

- 2-way version with dome tweeter
- 16 cm (6½") bass speaker and 25 mm (1") silk dome with waveguide
- Excellent sound characteristics
- Protective metal grille
- Protective grille magnetically attached to the speaker front
- Adjustable tweeter level ± 3.0 dB
- For a wall thickness/ceiling thickness from 6 to 35 mm



Model	SPE-602HQ	
Frequency range	50-20,000 Hz	
Resonant frequency (fs)	60 Hz	
Power rating (RMS)	35 W	
Peak music power output (MAX)	70 W	
Sensitivity	89 dB/W/m	
Mounting cutout	264 x 180 mm	
Dimensions	289 x 205 x 85 mm	
Weight	1.65 kg	



SPE-252HQ

Order No. 0105800

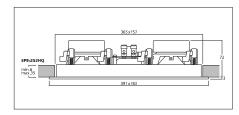


Hi-fi wall and ceiling speaker, 50 W, 8 Ω

- 2-way version with dual bass speaker and dome tweeter
- 2 x 13 cm (5") bass speaker and 25 mm (1") silk dome
- Excellent sound characteristics
- Protective metal grille
- Protective grille magnetically attached to the speaker front
- Ideally suited e.g. as a centre speaker
- For a wall thickness/ceiling thickness from 6 to 35 mm



Model	SPE-252HQ	
Frequency range	60-20,000 Hz	
Resonant frequency (fs)	65 Hz	
Power rating (RMS)	50 W	
Peak music power output (MAX)	100 W	
Sensitivity	88 dB/W/m	
Mounting cutout	365 x 157 mm	
Dimensions	391 x 183 x 75 mm	
Weight	2.6 kg	



SPE-8U

Order No. 010564

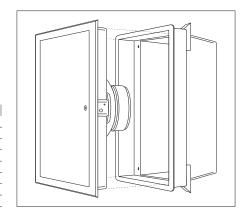


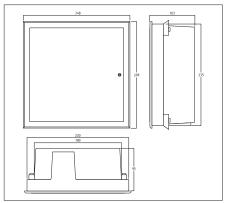
Hi-fi wall and ceiling speaker for flush mounting, 8 $\ensuremath{\Omega}$

- High-quality 2-way coaxial speaker system with excellent sound characteristics
- 20 cm (8") bass speaker with glass fibre cone, 24 mm (1") dome tweeter with titanium cone
- Plastic tray for flush mounting in walls or solid ceilings
- Required hole in wall: approx. 242 x 242 x 100 mm
- Metal front grille with plastic frame



Model	SPE-8U
Frequency range	70-20,000 Hz
Resonant frequency (fs)	60 Hz
Power rating (RMS)	30 W
Peak music power output (MAX)	60 W
Sensitivity	89 dB/W/m
Mounting cutout	242 x 242 mm
Dimensions	248 x 248 x 100 mm
Weight	1.6 kg





SPE-32/WS

Order No. 0105630

8Ω

SPE-22/WS Order No. 0105620

8Ω

SPE-17/WS

Order No. 0105610

8Ω

SPE-15/WS Order No. 0105600

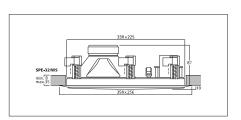
8Ω

Hi-fi wall and ceiling speakers, 8 $\boldsymbol{\Omega}$

- \bullet 2-way version with dome tweeter (pivoting with SPE-17/WS, SPE-22/WS and SPE-32/WS)
- Plastic housing with protective metal grille
- ABS plastic material, self-extinguishing according to UL 94V-0
- Excellent sound characteristics
- For a wall thickness/ceiling thickness from 8 to 35 mm



Model	SPE-32/WS	SPE-22/WS	SPE-17/WS	SPE-15/WS
Frequency range	40-20,000 Hz	50-20,000 Hz	55-20,000 Hz	60-20,000 Hz
Resonant frequency (fs)	37 Hz	51 Hz	59 Hz	90 Hz
Power rating (RMS)	50 W	40 W	30 W	25 W
Peak music power output (MAX)	100 W	80 W	60 W	50 W
Sensitivity	89 dB/W/m	88 dB/W/m	87 dB/W/m	87 dB/W/m
Mounting cutout	330 x 225 mm	275 x 190 mm	270 x 185 mm	115 x 190 mm
Dimensions	358 x 256 x 97 mm	306 x 220 x 87 mm	300 x 214 x 75 mm	146 x 220 x 70 mm
Weight	2.19 kg	1.9 kg	1.4 kg	0.83 kg



Wall and Ceiling Speakers

SPE-150/WS Order No. 0101620

SPE-158/WS

4	Ω	30 W
8	Ω	30 W

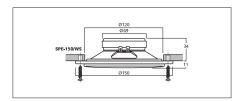
Order No. 0103150

- Dual cone
- Extra slim design with fixed metal grille

Flush-mount full range speakers, 15 W

Model	SPE-150/WS	SPE-158/WS
Frequency range	100-12,000 Hz	100-12,000 Hz
Power rating (RMS)	15 W	15 W
Peak music power	30 W	30 W
output (MAX)		
Sensitivity	89 dB/W/m	88 dB/W/m
Mounting cutout	Ø 120 mm	Ø 120 mm
Dimensions	Ø 153 mm x 45 mm	Ø 153 mm x 45 mm
Weight	500 g	500 g





SPE-140/WS

Order No. 0104470

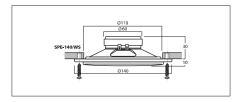


Flush-mount speaker, 10 W

- Dual cone for a full range reproduction
- Extra slim design
- Fixed metal grille
- Suitable for indoor announcements and background music

Model	SPE-140/WS
Frequency range	120-12,000 Hz
Power rating (RMS)	10 W
Peak music power output (MAX)	20 W
Sensitivity	87 dB/W/m
Mounting cutout	Ø 110 mm
Dimensions	Ø 140 mm x 40 mm
Weight	311 g





SPE-82/CR Order No. 0161520

SPE-82/WS

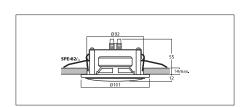
4Ω	12 W
4Ω	12 W

Small flush-mount speakers, 6 W, 4 Ω

- Chrome (CR) or white (WS) covers
- Similar design to standard flush-mounted halogen lights
- Suitable for speech and background music, very consistent frequency response
- Quick-mounting facility

Model	SPE-82/CR	SPE-82/WS
Frequency range	130-20,000 Hz	130-20,000 Hz
Power rating (RMS)	6 W	6 W
Peak music power	12 W	12 W
output (MAX)		
Sensitivity	87 dB/W/m	87 dB/W/m
Mounting cutout	Ø 96 mm	Ø 96 mm
Dimensions	Ø 100 mm x 57 mm	Ø 100 mm x 57 mm
Weight	340 g	340 g





SPE-15F/WS

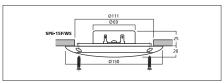


Pair of weatherproof flush-mount PA speakers, 15 W, with UV-stabilised plastic housing, extra slim

Versatile use for PA, car hi-fi, terrace, boat, swimming pool areas.

- Weatherproof polypropylene spaker cone
- Tested according to ASTM B117 (400 h salt spray test)
- Low stray magnetic field
- Supplied with stainless mounting accessories and connection cable

Model	SPE-15F/WS
Frequency range	80-16,000 Hz
Power rating (RMS)	15 W
Peak music power output (MAX)	30 W
Sensitivity	86 dB/W/m
Mounting cutout	Ø 111 mm
Dimensions	Ø 150 mm x 45 mm
Weight	270 g





CRB-265/WS

Order No. 0130930

CRB-230/WS

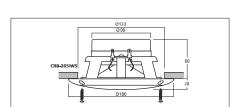
Order No. 0130920

4Ω	444	60 W	PAAR PAIR
4Ω	444	50 W	PAAR PAIR

Pairs of flush-mount speakers, coaxial system, 4Ω , tweeter with ferrofluid.

- Moisture-proof
- White one-piece plastic design and plastic cone
- Versatile use for car hi-fi, PA, terrace, boat

Model	CRB-265/WS	CRB-230/WS
Frequency range	80-20,000 Hz	100-20,000 Hz
Power rating (RMS)	30 W	25 W
Peak music power	60 W	50 W
output (MAX)		
Sensitivity	90 dB/W/m	89 dB/W/m
Mounting cutout	Ø 133 mm	Ø 110 mm
Dimensions	Ø 180 mm x 80 mm	Ø 150 mm
Weight	0.8 kg	0.5 kg





CRB-165/WS Order No. 0130910

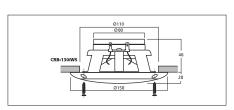
CRB-130/WS Order No. 0130900

4Ω	444	50 W	PAAR PAIR
4Ω	444	40 W	PAAR PAIR

Pairs of flush-mount speakers, with dual cone, 4Ω .

- Moisture-proof
- White one-piece plastic design and plastic cone
- Versatile use for car hi-fi, PA, terrace, boat

Model	CKD-103/W3	CKD-130/W3
Frequency range	80-10,000 Hz	80-10,000 Hz
Power rating (RMS)	25 W	20 W
Peak music power	50 W	40 W
output (MAX)		
Sensitivity	90 dB/W/m	89 dB/W/m
Mounting cutout	Ø 135 mm	Ø 110 mm
Dimensions	Ø 180 mm x 80 mm	Ø 150 mm x 66 mm
Weight	0.8 kg	0.5 kg





SPE-265/WS Order No. 0102690

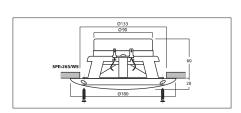
SPE-230/WS Order No. 0102700

8Ω	333	60 W	PAAR Pair
8Ω	333	50 W	PAAR Pair

Pair of flush-mount speakers, coaxial system, 8Ω , tweeter with ferrofluid.

- Moisture-proof
- White one-piece plastic design and plastic cone
- Versatile use for car hi-fi, PA, terrace, boat

Model	SPE-265/WS	SPE-230/WS
Frequency range	80-20,000 Hz	100-20,000 Hz
Power rating (RMS)	30 W	25 W
Peak music power	60 W	50 W
output (MAX)		
Sensitivity	87 dB/W/m	85 dB/W/m
Mounting cutout	Ø 133 mm	Ø 110 mm
Dimensions	Ø 180 mm x 80 mm	Ø 150 mm x 66 mm
Weight	0.8 kg	0.5 kg





MONACOR INTERNATIONAL INSTALLATION 185

Wall and Ceiling Speakers

SPE-284/WS

Order No. 0105520

SPE-264/WS Order No. 0104900



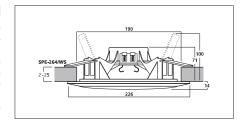
Pair of weatherproof PA ceiling speakers, heat-resistant up to 100 °C.

For applications in saunas and swimming pool areas.

- 2-way system with dome tweeter
- Excellent sound
- White plastic housing
- Weatherproof speaker cone
- Tested according to ASTM B117 (400 h salt spray test)
- For a ceiling thickness from 2 to 25 mm
- Spring-loaded speaker terminals

Model	SPE-284/WS	SPE-264/WS
Frequency range	45-20,000 Hz	60-20,000 Hz
Power rating (RMS)	50 W	45 W
Peak music power	100 W	90 W
output (MAX)		
Sensitivity	89 dB/W/m	88 dB/W/m
Mounting cutout	Ø 220 mm	Ø 190 mm
Dimensions	Ø 250 mm x 96 mm	Ø 226 mm x 100 mm
Weight	0.95 kg	0.9 kg





SPE-130/WS



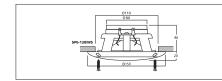


Pair of flush-mount speakers, with dual cone, 8Ω .

- Moisture-proof
- White one-piece plastic design and plastic cone
- Versatile use for car hi-fi, PA, terrace, boat

Model	SPE-130/WS
Frequency range	80-10,000 Hz
Power rating (RMS)	20 W
Peak music power output (MAX)	40 W
Sensitivity	85 dB/W/m
Mounting cutout	Ø 110 mm
Dimensions	Ø 150 mm x 66 mm
Weight	500 g





SPE-72/WS

Order No. 0162310





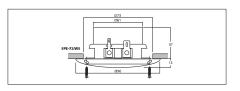




Weatherproof flush-mount full range speaker with dual cone, 20 W, 4 Ω

- Weatherproof speaker of compact size and a high power capability with a wide bandwidth and particularly brilliant reproduction due to a twin cone
- High-quality one-piece white plastic basket with magnetic sleeve
- Polypropylene cone and mica dual cone
- Rubber surround, supplied with matching plastic grille (to be glued in)
- Also suitable for PA applications in a damp environment and outdoors

SPE-72/WS
100-20,000 Hz
100 Hz
20 W
40 W
86 dB/W/m
Ø 73 mm
Ø 90 mm x 50 mm
230 g





SPE-70/WS

Order No. 0162300





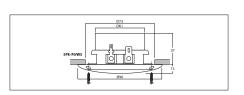




Weatherproof flush-mount full range speaker and bass-midrange speaker, 20 W, 8 Ω

- Weatherproof speaker of compact size and high power capability with a wide bandwidth reproduction
- High-quality one-piece white plastic basket with magnetic sleeve
- Polypropylene cone, rubber surround, supplied with matching plastic grille (to be glued in)
- Also suitable for PA applications in a damp environment and outdoors
- As a bass-midrange speaker also suitable in small hi-fi systems

Model	SPE-70/WS
Frequency range	100-20,000 Hz
Resonant frequency (fs)	100 Hz
Power rating (RMS)	20 W
Peak music power output (MAX)	40 W
Sensitivity	86 dB/W/m
Mounting cutout	Ø 73 mm
Dimensions	Ø 90 mm x 50 mm
Weight	230 g





SPE-110P/SW

SPE-110P/WS





Weatherproof flush-mount speakers, 15 W, 4 Ω , heat-resistant up to 120 °C.

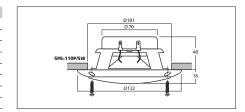
For saunas and swimming pool areas, as well as other areas where a reliable operation at high temperatures must be ensured.

- Black (SW) or white (WS) plastic housing
- ABS plastic material, self-extinguishing according to UL 94V-0
- Weatherproof speaker cone
- Tested according to ASTM B117 (400 h salt spray test)

Model	SPE-110P/SW, SPE-110P/WS
Frequency range	180-18,000 Hz
Resonant frequency (fs)	250 Hz
Power rating (RMS)	15 W
Peak music power output (MAX)	30 W
Sensitivity	86 dB/W/m
Mounting cutout	Ø 101 mm
Dimensions	Ø 132 mm

285 q





This high-quality Bluetooth audio system

consists of an active ceiling speaker and a passive ceiling speaker with Bluetooth receiver and serves as a plug-and-play stereo pair for background PA applications.

A robust ABS housing with moisture-resistant bass speaker and coaxially mounted tweeter as well as the magnetically attached metal protective grille and the excellent workmanship all ensure an overall high-quality appearance and optimum handling.

The frameless speaker grille allows for an unobtrusive appearance when mounted into the ceiling or wall. A wireless connection between audio players like smartphones, tablets, PCs, Android devices or Apple devices such as iPads or iPhones can be established via Bluetooth 4.0 technology. A new initialisation is not required. Depending on the room, the operating range can be up to 10 m.

Weight

To save power, the integrated amplifier switches to standby mode in case of inactivity.

SPE-230BT

Order No. 0163320



Bluetooth hi-fi flush-mount stereo speaker set,

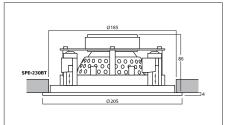
consists of a 2-way active speaker with integrated amplifier, Bluetooth module and crossover network, a 2-way passive speaker with crossover network as well as a matching power supply.

- Pair of 2-way hi-fi speakers for wall mounting and ceiling suspension
- 13 cm (5¼") bass-midrange speaker, 2.54 cm (1") coaxial tweeter
- Master/slave mode (active speaker and passive speaker are combined to create a stereo pair)
- Active speaker with integrated class D amplifier module, 2 x 45 W
- Bluetooth 4.0, APTX
- Operating range: 10 m, class 1
- High-quality crossover network
- Frameless protective metal grille, magnetically attached
- Quick-mount system
- 4-digit PIN code for initial linking
- Recognition of devices which have previously been linked.
- 230 V power supply with earthed plug and plug-in connector for active speaker



Model	SPE-230BT
Power rating (RMS)	2 x 45 W
Frequency range	50-20,000 Hz
Sensitivity	89 dB/W/m
Housing material	plastic
Mounting device	quick-mount system
Admiss. ambient temp.	0-40 °C
Power supply	encl. power supply
Dimensions	Ø 205 mm x 90 mm
Weight	1.26 kg (active speaker)
	1.18 kg (passive speaker)





List of flush-mount PA ceiling speakers, sorted by mounting dimensions

Model	Order No.	Power rating	Connection	Width	Height	Mounting cutout	Mounting depth	Frame	Front grille
EDL-22/WS	0162770	6/3/1.5 W	100 V	Ø 83 mm	=	Ø 73 mm	67 mm	plastic	plastic
EDL-82/WS	0161490	6/3/1.5 W	100 V	Ø 100 mm	=	Ø 96 mm	98 mm	plastic	metal
EDL-204	0161630	20/15/10/5/2.5 W	100 V	Ø 132 mm	-	Ø 104 mm	102 mm	plastic	plastic
EDL-150/WS EDL-206	0161220 0161650	10/5/2.5/1.25/0.625 W 20/15/10/5/2.5 W	100 V 100 V	Ø 150 mm Ø 180 mm	-	Ø 120 mm Ø 132 mm	75 mm 110 mm	metal	metal
EDL-42HQ	0163890	15 W (8 Ω)	100 V/8 Ω	Ø 158 mm		Ø 141 mm	69 mm	plastic	plastic metal/plastic
LDL-42IIQ	0103030	8/4/2/1 W (100 V)	100 1/0 32	10 100 111111		0 141 111111	05 111111		metal/plastic
EDL-24	0161430	6/3/1.5 W	100 V	Ø 170 mm	-	Ø 142 mm	60 mm	plastic	metal
EDL-165AB/WS	0163650	2 x 6/3/1.5 W	100 V	Ø 170 mm	-	Ø 140-150 mm	90 mm	metal	metal
EDL-165C/WS	0160090	6/3/1.5 W	100 V	Ø 170 mm	-	Ø 150 mm	90 mm	metal	metal
EDL-15	0163810	6/3/1.5 W	100 V	Ø 182 mm	-	Ø 152 mm	50 mm	metal	metal
EDL-25	0161440	6/3/1.5 W	100 V	Ø 205 mm	-	Ø 165 mm	60 mm	plastic	metal
EDL-16	0163820	10/6/3/1.5 W	100 V	Ø 195 mm	-	Ø 166 mm	55 mm	metal	metal
EDL-116TW	0163840	15/10/6/3 W	100 V	Ø 195 mm	-	Ø 166 mm	55 mm	metal	metal
EDL-155	0162920	15/10/5/2.5/1.25 W	100 V	Ø 202 mm	-	Ø 170 mm	95 mm	plastic	plastic
EDL-706/12 EDL-606	0163370 0161800	6/3/1.5 W 6/3/1.5 W	100 V 100 V	Ø 200 mm Ø 200 mm	-	Ø 170 mm Ø 180 mm	60 mm 50 mm	metal metal	metal metal
EDL-612	0161810	12/6/3 W	100 V	Ø 200 mm		Ø 180 mm	50 mm	metal	metal
EDL-620	0162590	20/10/5 W	100 V	Ø 200 mm	-	Ø 180 mm	50 mm	metal	metal
EDL-606EN	0163160	6/3/1.5 W	100 V	Ø 200 mm	=	Ø 180 mm	60 mm	metal	metal
EDL-612EN	0163170	12/6/3 W	100 V	Ø 200 mm	-	Ø 180 mm	60 mm	metal	metal
EDL-620EN	0163180	20/10/5 W	100 V	Ø 200 mm	-	Ø 180 mm	60 mm	metal	metal
EDL-36TW	0162070	10/5/2.5 W	100 V	Ø 200 mm	-	Ø 190 mm	90 mm	metal	metal
EDL-156	0161910	15/10/5/2.5/1.25 W	100 V	Ø 226 mm	-	Ø 190 mm	75 mm	plastic	plastic
EDL-70/WS	0163310	6/3/1.5 W	100 V	Ø 220 mm	-	Ø 195 mm	100 mm	metal	metal
EDL-26 EDL-62HQ	0161450 0163430	10/5/2.5/1.25 W 35 W (8 Ω)	100 V 100 V/8 Ω	Ø 230 mm Ø 250 mm	-	Ø 200 mm Ø 210 mm	75 mm 95 mm	plastic	metal metal/plastic
LDL-02NQ	0105450	30/16/8/4 W (100 V)	100 4/0 22	N ZJU IIIII	-	NO Z TO IIIIII	וווווו ככ		metai/pidstic
EDL-10TW/WS	0163380	10/6/4/2 W	100 V	Ø 247 mm	-	Ø 215 mm	90 mm	metal	
EDL-158	0162930	15/10/5/2.5/1.25 W	100 V	Ø 250 mm	=	Ø 220 mm	85 mm	plastic	plastic
EDL-18	0163830	10/6/3/1.5 W	100 V	Ø 252 mm	-	Ø 216 mm	85 mm	metal	metal
EDL-118TW	0163850	15/10/6/3 W	100 V	Ø 252 mm		Ø 216 mm	85 mm	metal	metal
EDL-224ABC	0160100	2x6/2x3/2x1.5 W	100 V	Ø 252 mm	-	Ø 230 mm	110 mm	metal	metal
EDL-11TW	0161210	10/5/2.5 W	100 V	Ø 264 mm	=	Ø 225 mm	110 mm	metal	
EDL-11TW/SW EDL-10TW	0162410 0161200	10/5/2.5 W 10/6/4/2 W	100 V 100 V	Ø 264 mm Ø 262 mm	-	Ø 225 mm Ø 235 mm	105 mm 95 mm	metal metal	metal
EDL-28	0161460	10/5/2.5/1.25 W	100 V	Ø 275 mm		Ø 240 mm	75 mm	plastic	metal
EDL-82HQ	0163440	50 W (8 Ω)	100 V/8 Ω	Ø 295 mm	=	Ø 252 mm	97 mm	pidatic	metal/plastic
		30/16/8/4 W (100 V)							·
EDL-65TW	0162220	30/15/7.5 W	100 V	Ø 280 mm	=	Ø 260 mm	165 mm	plastic	metal
ESP-15/WS	0161550	15/7.5/4/2/1 W	100 V	146 mm	220 mm	115 x 190 mm	61 mm	plastic	metal
ESP-17/WS ESP-22/WS	0161660 0161670	15/7.5/4/2/1 W 20/15/10/5/2.5 W	100 V 100 V	300 mm 306 mm	214 mm 220 mm	270 x 185 mm 275 x 190 mm	80 mm 90 mm	plastic plastic	metal metal
ESP-32/WS	0161680	30/15/7.5/4/2 W	100 V	358 mm	256 mm	330 x 225 mm	90 mm	plastic	metal
SPE-15/WS	0105600	25 W/50 W (RMS/MAX)	8Ω	146 mm	220 mm	115 x 190 mm	61 mm	plastic	metal
SPE-602HQ	0105780	35 W/70 W (RMS/MAX)	8Ω	289 mm	205 mm	264 x 180 mm	82 mm	plastic	metal
SPE-17/WS	0105610	30 W/60 W (RMS/MAX)	8Ω	300 mm	214 mm	270 x 185 mm	65 mm	plastic	metal
SPE-22/WS	0105620	40 W/80 W (RMS/MAX)	8Ω	306 mm	220 mm	275 x 190 mm	77 mm	plastic	metal
SPE-32/WS	0105630	50 W/100 W (RMS/MAX)	8Ω	358 mm	256 mm	330 x 225 mm	87 mm	plastic	metal
SPE-252HQ	0105800	50 W/100 W (RMS/MAX)	8Ω	391 mm	183 mm	365 x 157 mm	72 mm	plastic	metal
SPE-72/WS SPE-70/WS	0162310 0162300	20 W/40 W (RMS/MAX) 20 W/40 W (RMS/MAX)	4Ω	Ø 90 mm Ø 90 mm		Ø 73 mm Ø 73 mm	37 mm 37 mm	plastic plastic	plastic plastic
SPE-82/CR	0161520	6 W/12 W (RMS/MAX)	4Ω	Ø 100 mm		Ø 96 mm	57 mm	plastic	metal
SPE-82/WS	0161540	6 W/12 W/ (RMS/MAX)	4 Ω	Ø 100 mm	-	Ø 96 mm	57 mm	plastic	metai
SPE-110P/SW	0162530	15 W/30 W (RMS/MAX)	4 Ω	Ø 132 mm	-	Ø 101 mm	40 mm	plastic	plastic
SPE-110P/WS	0162540	15 W/30 W (RMS/MAX)	4 Ω	Ø 132 mm	-	Ø 101 mm	40 mm	plastic	plastic
SPE-140/WS	0104470	10 W/20 W (RMS/MAX)	4 Ω	Ø 140 mm	-	Ø 110 mm	30 mm	metal	metal
CRB-230/WS	0130920	25 W/50 W (RMS/MAX)	4 Ω	Ø 150 mm	-	Ø 110 mm	50 mm	plastic	plastic
CRB-130/WS	0130900	20 W/40 W (RMS/MAX)	4Ω	Ø 150 mm	-	Ø 110 mm	50 mm	plastic	plastic
SPE-15F/WS SPE-130/WS	0162840 0102680	15 W/30 W (RMS/MAX) 20 W/40 W (RMS/MAX)	4Ω	Ø 150 mm Ø 150 mm	-	Ø 111 mm Ø 110 mm	25 mm 50 mm	plastic plastic	plastic plastic
SPE-230/WS	0102000	25 W/50 W (RMS/MAX)	8Ω	Ø 150 mm	-	Ø 110 mm	50 mm	plastic	plastic
SPE-150/WS	0102700	15 W/30 W (RMS/MAX)	4Ω	Ø 153 mm		Ø 120 mm	34 mm	metal	metal
SPE-158/WS	0103150	15 W/30 W (RMS/MAX)	8Ω	Ø 153 mm	-	Ø 120 mm	34 mm	metal	metal
CRB-265/WS	0130930	30 W/60 W (RMS/MAX)	4 Ω	Ø 180 mm	-	Ø 133 mm	60 mm	plastic	plastic
CRB-165/WS	0130910	25 W/50 W (RMS/MAX)	4 Ω	Ø 180 mm	-	Ø 135 mm	60 mm	plastic	plastic
SPE-265/WS	0102690	30 W/60 W (RMS/MAX)	8Ω	Ø 180 mm	-	Ø 133 mm	60 mm	plastic	plastic
SPE-264/WS	0104900	45 W/90 W (RMS/MAX)	4 Ω	Ø 226 mm	-	Ø 190 mm	71 mm	plastic	plastic
SPE-62HQ SPE-284/WS	0105760 0105520	35 W/70 W (RMS/MAX)	8Ω	Ø 250 mm Ø 250 mm	-	Ø 210 mm Ø 220 mm	95 mm 85 mm	plastic	metal
SPE-284/WS SPE-82HQ	0105520	50 W/100 W (RMS/MAX) 50 W/100 W (RMS/MAX)	8Ω	Ø 295 mm	-	Ø 252 mm	97 mm	plastic plastic	plastic metal
IT-10M	0160470	10/5/2.5 W	100 V	120 mm	120 mm	Ø 101 mm	-	plastic	-
NR-10M	0160480	10 W/20 W (RMS/MAX)	4Ω	120 mm	120 mm	Ø 101 mm	-	plastic	-
SPE-230BT	0163320	2 x 45 W	Bluetooth	Ø 205 mm		Ø 185 mm	86 mm	plastic	metal
		·					·		

Important note:

Dimensions may deviate due to manufacturing tolerances. Ceiling cutouts should not be made prior to receiving the speakers.

ESP-157/WS

Order No. 0163210



PA wall speaker

- 100 V line technique via audio transformer with 2 power taps
- Good sound characteristics due to 2-way system
- Plastic cabinet of a special design with protective metal grille
- Closed rear panel, srewed
- Horizontal and vertical mounting possible

Model	ESP-157/WS
Power rating (RMS)	15/7.5 W
Frequency range	100-20,000 Hz
Sensitivity	91 dB/W/m
Dimensions	240 x 340 x 105 mm
Weight	1.7 kg



ESP-152/WS

Order No. 0162150



PA wall speaker

- 100 V line technique via audio transformer with 3 power taps
- High-quality sound and high volume capability due to 2-way coaxial system
- Plastic cabinet of a special design (open rear panel) with protective metal grille
- Symmetrical design allows for horizontal and vertical mounting
- Supplied with mounting screws and cover plates for the screws

Marial I	ECD 4E20MC
Model	ESP-152/WS
Power rating (RMS)	15/7.5/3.75 W
Frequency range	100-20,000 Hz
Sensitivity	91 dB/W/m
Dimensions	240 x 330 x 85 mm
Weight	1.84 ka



ESP-63/WS

Order No. 0163200



PA wall speaker

- 100 V line technique via audio transformer with 2 power taps
- 2-way system with good sound characteristics
- Plastic cabinet of special design with protective metal grille
- Closed rear panel, screwed
- Horizontal and vertical mounting possible

Model	ESP-63/WS
Power rating (RMS)	6/3 W
Frequency range	100-20,000 Hz
Sensitivity	91 dB/W/m
Dimensions	240 x 340 x 105 mm
Weight	1.6 kg
Inputs	power taps



ESP-62AB/WS

Order No. 0163660



PA A/B wall speaker, with EN 54-24 certification for voice evacuation systems with A/B speaker distribution according to EN 60849.

- 100 V line technique
- 13 cm full range speaker with dual voice coil
- 2 separate transformers with power taps with 6/3/1.5 W each
- Connection via 2 ceramic screw terminals inside the
 sphings.
- Symmetrical design allows for horizontal and vertical mounting

Model	ESP-62AB/WS
Power rating (RMS)	2 x 6/3/1.5 W
Frequency range	80-19,000 Hz
Sensitivity	93 dB/W/m
Dimensions	240 x 330 x 83 mm
Weight	1.5 kg

- Plastic cabinet with open rear panel and protective metal front grille
- Supplied with screws and wall plugs



MONACOR INTERNATIONAL INSTALLATION

Wall and Ceiling Speakers

ESP-62/WS

Order No. 0163030









- 100 V line technique via audio transformer with 3 power taps
- Full range speaker with a high-quality sound and high speech intelligibility
- Plastic cabinet of a special design (open rear panel) with protective metal grille
- Symmetrical design allows for horizontal and vertical mounting

Model	ESP-62/WS
Power rating (RMS)	6/3/1.5 W
Frequency range	100-19,000 Hz
Sensitivity	93 dB/W/m
Admiss. ambient temp.	-10 °C to +50 °C
Dimensions	240 x 330 x 85 mm
Weight	1.2 kg

- Supplied with mounting screws and screw head covers
- Ball-proof according to DIN 18032, Part 3



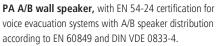
ESP-50AB/WS

Order No. 0160120









- 100 V line technique
- 2 separate full range speakers (10 cm), each with its own transformer 6/3/1.5 W
- Connection via 2 spring-loaded terminals inside the cabinet
- Wooden cabinet with protective metal grille

Model	ESP-50AB/WS
Power rating (RMS)	2 x 6/3/1.5 W
Frequency range	120-20,000 Hz
Sensitivity	92 dB/W/m
Admiss. ambient temp.	-10 °C to +50 °C
Dimensions	265 x 165 x 90 mm
Weight	1.9 kg

- Easy wall mounting via supplied metal bracket and mounting accessories
- Ball-proof according to DIN 18032, Part 3



ESP-50EN/WS

Order No. 0160260









PA wall speaker, with EN 54-24 certification.

- 100 V line technique
- Full range speaker (13 cm)
- Suitable for voice and music transmissions
- Connection via spring-loaded terminal inside the cabinet
- Wooden cabinet with protective metal grille
- Easy wall mounting via supplied mounting bracket and mounting accessories
- Ball-proof according to DIN 18032, Part 3

Model	ESP-50EN/WS	
Power rating (RMS)	6/3/1.5 W	
Sensitivity	93 dB/W/m	
Housing material	wood	
Colour	white	
Admiss. ambient temp.	-10 °C to +50 °C	
Dimensions	265 x 165 x 90 mm	
Weight	1.6 kg	



ESP-72/WS

Order No. 0162130





- 100 V line technique
- 2-way coaxial speaker, providing a high-quality sound
- 5-step rotary switch for 20/10/5/2.5 W/off
- Rotary switch can be replaced with a cover plate to avoid accidental changing of the power selection
- Emergency priority relay
- White wooden cabinet with protective metal grille
- Mounting plate for easy wall mounting
- Ball-proof according to DIN 18032, Part 3

Model	ESP-72/WS
Power rating (RMS)	20/10/5/2.5 W
Frequency range	85-20,000 Hz
Dimensions	300 x 200 x 90 mm
Weight	2.8 kg





ESP-70/WS

Order No. 0162120



PA wall speaker

- 100 V line technique
- 5-step rotary switch for 10/6/4/2 W/off
- Rotary switch can be replaced with a cover plate to avoid accidental changing of the power selection
- Emergency priority relay
- White wooden cabinet with protective metal grille
- Easy wall mounting via supporting plate
- Ball-proof according to DIN 18032, Part 3

ESP-70/WS	
10/6/4/2 W	
95-19,000 Hz	
300 x 200 x 90 mm	
2.3 kg	
	10/6/4/2 W 95-19,000 Hz 300 x 200 x 90 mm





ESP-60/WS

Order No. 0161110



PA wall speaker

- 100 V line technique via audio transformer with 4 power taps
- White wooden cabinet, without rear panel, foam front cover
- Supplied with mounting screws

Model	ESP-60/WS	
Power rating (RMS)	6/4/2/1 W	
Frequency range	60-8,000 Hz	
Dimensions	300 x 200 x 90 mm	
Weight	1.8 kg	



ESP-1000AB

Order No. 0163670





PA A/B wall speaker, with EN 54-24 certification for voice evacuation systems with A/B speaker distribution according to EN 60849.

- 100 V line technique
- 2 x 10 cm full range speaker
- 2 separate transformers with power taps with 6/3/1.5 W each
- Connection via 2 ceramic screw terminals inside the cabinet

Model	ESP-1000AB
Power rating (RMS)	2 x 6/3/1.5 W
Frequency range	80-20,000 Hz
Sensitivity	92 dB/W/m
Beam angle	160°
Admiss. ambient temp.	-10 °C to +50 °C
Dimensions	Ø 220 mm x 100 mm
Weight	1.98 kg

- Plastic cabinet with open rear panel and protective metal front grille
- Supplied with aluminium mounting bracket, screws and wall plugs



ESP-90/WS

Order No. 0162680



PA wall speaker

- 100 V line technique via audio transformer with 3 power taps
- White plastic housing (surface-mount version with open rear panel) with protective metal grille
- Supplied with mounting accessories

Model	ESP-90/WS	
Power rating (RMS)	6/3/1.5 W	
Frequency range	80-19,000 Hz	
Dimensions	Ø 168 mm x 72 mm	
Weight	600 g	



Wall and Ceiling Speakers

ESP-360/WS

Order No. 0161900



PA wall speaker

- 100 V line technique via audio transformer with 2 power taps
- Full range speaker with dual cone
- White plastic cabinet
- Curved cabinet for a perfect radiation angle

Model	ESP-360/WS
Power rating (RMS)	6/3 W
Frequency range	130-15,000 Hz
Dimensions	185 x 255 x 123 mm
Weight	1.1 kg
Inputs	power taps



ESP-130/WS

Order No. 0161600



PA wall speaker

- 100 V line technique via audio transformer with 2.5 W and 5 W power taps
- 2-way system with neodymium bass-midrange speaker and dome tweeter
- White plastic cabinet with protective metal grille
- Extra slim design for unobtrusive wall mounting

Model	ESP-130/WS
Power rating (RMS)	5/2.5 W
Frequency range	80-18,000 Hz
Dimensions	185 x 275 x 38 mm
Weight	1.15 kg



ESP-80/WS

Order No. 0162380



PA wall speaker, vandal-resistant.

- 100 V line technique via audio transformer with 4 power taps
- Full range speaker with a good voice reproduction, suitable for background music
- Very robust 2-piece metal housing

Model	ESP-80/WS
Power rating (RMS)	6/3/1.5/0.75 W
Frequency range	250-10,000 Hz
Dimensions	170 x 170 x 63 mm
Weight	1.5 kg



TS-C50-1000/T

Order No. 0163470

TS-C30-700/T

Order No. 0163720

TS-C20-500/T Order No. 0163730

TS-C10-300/T Order No. 0163740

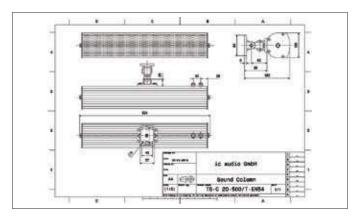






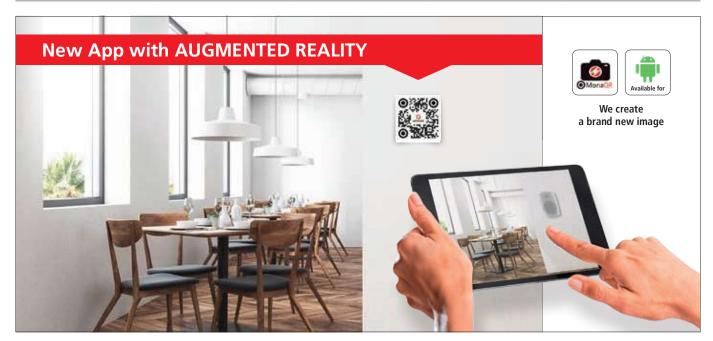
Weatherproof PA Column Speakers, with EN 54-24 certification.

- 100 V line technique
- 7.7 cm (3") waterproof full range speaker in different quantities
- Connection via ceramic terminals with thermal fuse in the cabinet
- 2 x PG9 cable gland
- Robust, plastic-coated aluminium cabinet with front protective grille
- The speaker complies with British Standard BS 5839, Part 8
- Supplied with plastic wall bracket for pivoting and tilting





Model	TS-C50-1000/T	TS-C30-700/T	TS-C20-500/T	TS-C10-300/T
Power rating (RMS)	50/30/15/7.5 W	30/15/7.5 W	20/15/10/5 W	10/6/3/1.5 W
Frequency range	200-20,000 Hz	200-17,000 Hz	200-17,000 Hz	200-18,000 Hz
Number of built-in speakers	8	6	4	2
Sensitivity	100 dB/W/m	97 dB/W/m	97 dB/W/m	95 dB/W/m
Beam angle	H173°/V17°	H: 160°/V: 26°	H: 149°/V: 38°	H: 149°/V: 66°
Admiss. ambient temp.	-20 °C to +90 °C			
Dimensions	100 x 971 x 92 mm	100 x 700 x 92 mm	100 x 510 x 92 mm	100 x 296 x 92 mm
Weight	5.1 kg	3.8 kg	2.8 kg	1.6 kg



INSTALLATION MONACOR INTERNATIONAL 193

ETS-8100TW/SW

Order No. 0163790

ETS-8100TW/WS

Order No. 0163800



High-quality weatherproof PA column speakers,

- High-quality 2-way column speaker with excellent sound characteristics
- 100 V line technique or 8 Ω operation
- 8 x 7.7 cm (3") speaker with polypropylene cone
- 25 mm (1") centrally arranged dome tweeter
- 3 power taps: 60/30/15 W
- \bullet Power capability: 100 W in 8 Ω operation
- Connection is made via cable with high-strength cable gland (length: 2 m)
- Robust aluminium cabinet with plastic front protective grille
- Supplied with robust wall bracket for pivoting and tilting



Model	ETS-8100TW/SW	ETS-8100TW/WS	
Power rating (RMS)	60/30/15 W (100 V)	60/30/15 W (100 V)	
	100 W (8 Ω)	100 W (8 Ω)	
Frequency range	110-20,000 Hz	110-20,000 Hz	
Number of built-in speakers	9	9	
Sensitivity	95 dB/W/m	95 dB/W/m	
Beam angle	H: 70°/V: 20°	H: 70°/V: 20°	
Admiss. ambient temp.	0-40 °C	0-40 °C	
Dimensions	125 x 869 x 110 mm	125 x 869 x 110 mm	
Weight	6 kg	6 kg	

ETS-8060TW/WS

Order No. 0163780



PA hi-fi column speaker

- High-quality 2-way column speaker with excellent sound characteristics
- \bullet 100 V line technique or 8 Ω operation
- 4 x 5 cm (2") full range speaker with paper cone
- 25 mm (1") centrally arranged dome tweeter
- 3 power taps: 20/10/5 W
- \bullet Power capability: 40 W in 8 Ω operation
- Connection is made via cable with high-strength cable gland (length: 2 m)
- Robust aluminium cabinet of an appealing design with cloth-covered plastic front protective grille
- Supplied with pivoting and tiltable wall bracket



Model	ETS-8060TW/WS
Power rating (RMS)	20/10/5 W (100 V)
	40 W (8 Ω)
Frequency range	160-20,000 Hz
Number of built-in speakers	5
Sensitivity	89 dB/W/m
Beam angle	H: 180°/V: 40°
Dimensions	85 x 430 x 70 mm
Weight	2.5 kg



ETS-442TW/WS

Order No. 0163140

ETS-432TW/WS

Order No. 0163130

ETS-422TW/WS

Order No. 0163120



Weatherproof PA column speakers, with a

top-quality sound.

- Weatherproof and hose-proof, extruded aluminium cabinet
- 100 V line technique
- 2-way version (with additional integrated tweeter for a clearly improved sound)
- Integrated crossover network
- Aluminium front grille
- Supplied with a robust tiltable and movable aluminium wall bracket
- Connection via cable with 4 power taps



Model	ETS-442TW/WS	ETS-432TW/WS	ETS-422TW/WS
Power rating (RMS)	40/20/10/5 W	30/15/7.5/3.75 W	20/10/5/2.5 W
Frequency range	110-20,000 Hz	120-20,000 Hz	130-20,000 Hz
Number of built-in speakers	8+1	6+1	4+1
Sensitivity	93 dB/W/m	93 dB/W/m	92 dB/W/m
Admiss. ambient temp.	-20 °C to +50 °C	-20 °C to +50 °C	-20 °C to +50 °C
Dimensions	124 x 1,016 x 108 mm	124 x 813 x 108 mm	124 x 610 x 108 mm
Weight	6.9 kg	5.5 kg	4 kg

ETS-240TW/WS

Order No. 0162960

ETS-220TW/WS

Order No. 0162950

ETS-210TW/WS

Order No. 0162940



PA column speakers, in extruded aluminium cabinets.

- Weatherproof and hose-proof
- 100 V line technique
- 2-way version (with additional integrated tweeters for a clearly improved sound)
- Connection cable with 5 power taps
- 2 x M6 threaded bushing
- Aluminium front grille
- Supplied with mounting brackets



Model	ETS-240TW/WS	ETS-220TW/WS	ETS-210TW/WS
Power rating (RMS)	40/30/20/10/5 W	20/15/10/5/2.5 W	10/5/2.5/1.25/0.63 W
Frequency range	150-20,000 Hz	150-20,000 Hz	170-20,000 Hz
Number of built-in speakers	8+4	4+2	2+1
Sensitivity	90 dB/W/m	89 dB/W/m	86 dB/W/m
Admiss. ambient temp.	-20 °C to +50 °C	-20 °C to +50 °C	-20 °C to +50 °C
Dimensions	80 x 846 x 70 mm	80 x 469 x 70 mm	80 x 280 x 70 mm
Weight	2.7 kg	1.6 kg	1 kg

MONACOR INTERNATIONAL INSTALLATION

Speakers Column Speakers

ETS-530TW/SW

Order No. 0162650

ETS-530TW/WS

100V **8**Ω

8Ω

8Ω

100V

100V

Order No. 0162660 ETS-515TW/SW

100V **8**Ω

Order No. 0162620

ETS-515TW/WS Order No. 0162630

PA column speakers

- 100 V line technique or 8 Ω operation
- 2-way version (with additional integrated tweeter for a clearly improved sound)
- Integrated crossover network
- ullet 6-step power selector switch with 8 Ω switching
- 2 x 6 mm threaded bushing
- Plastic cabinet and protective metal grille in black (SW) or white (WS)
- Supplied with mounting brackets
- Connection via spring-loaded speaker terminal



Model	ETS-530TW/SW, ETS-530TW/WS	ETS-515TW/SW, ETS-515TW/WS
Total power rating	60 W	30 W
Power rating (RMS)	30/15/7.5/4/2 W (100 V)	15/7.5/4/2/1 W (100 V)
	30 W (8 Ω)	15 W (8 Ω)
Frequency range	85-20,000 Hz	90-20,000 Hz
Number of built-in speakers	4+1	2+1
Sensitivity	89 dB/W/m	87 dB/W/m
Dimensions	128 x 620 x 140 mm	128 x 385 x 140 mm
Weight	4.5 kg	2.8 kg

ETS-230TW/WS

Order No. 0162110

ETS-215TW/WS

Order No. 0162100



PA column speakers, in extruded aluminium cabinets, with top and bottom plates of aluminium.

- 100 V line technique
- 2-way version (with additional integrated tweeters for a clearly improved sound)
- Integrated crossover network
- 5-step power selector switch
- 2 x M6 threaded bushing
- Metal front grille
- Supplied with mounting brackets
- Connection via cable, 2 cores

ETS-230TW/WS with 4 tweeters ETS-215TW/WS with 2 tweeters

Model	ETS-230TW/WS	ETS-215TW/WS
Power rating (RMS)	20/10/5/2.5 W	12/6/3/1.5 W
Frequency range	200-20,000 Hz	250-20,000 Hz
Number of built-in	8+4	4+2
speakers		
Sensitivity	94 dB/W/m	90 dB/W/m
Dimensions	105 x 700 x 75 mm	105 x 410 x 75 mm
Weight	4.2 kg	2.6 kg



ETS-230/WS

Order No. 0161310

100V

ETS-215/WS

Order No. 0161300

100V

PA column speakers, in extruded aluminium cabinets, with top and bottom plates of aluminium.

- 100 V line technique
- 5-step power selector switch
- 2 x M6 threaded bushing
- Metal front grille
- Supplied with mounting brackets
- Connection via cable, 2 cores

Model	ETS-230/WS	ETS-215/WS
Power rating (RMS)	30/15/7.5/3.75 W	15/7.5/3.75/2 W
Frequency range	200-15,000 Hz	250-15,000 Hz
Number of built-in	8	4
speakers		
Sensitivity	95 dB/W/m	92 dB/W/m
Dimensions	105 x 687 x 85 mm	105 x 405 x 85 mm
Weight	3.9 kg	2.5 kg



ETS-360TW/WS

Order No. 016227



High-end column speaker, (indoors), 100 V. Column speakers in a wooden cabinet of compact size, coated with high-quality foils in decorative wood pattern, 2½-way technology with tweeter (25 mm textile dome), clearly extended frequency range compared with standard full range column speakers. The ETS-360... speakers impress with an incredibly dynamic and complete sound, a convincing speech intelligibility and an amazing sound even at higher volume levels.

- 2 bass speakers, 4 bass-midrange speakers, 1 tweeter
- Spring-loaded terminals with 3 power taps
- 2 x M8 threaded bushing
- Supplied with mounting brackets
- Metal front grille



Model	ETS-360TW/WS
Power rating (RMS)	60/30/15 W
Frequency range	90-19,000 Hz
Number of speakers	6+1
Sensitivity	94 dB/W/m
Dimensions	135 x 825 x 110 mm
Weight	7.3 kg

ETS-340TW/WS

Order No. 0162250



High-end column speaker, (indoors), 100 V. Column speaker in a wooden cabinet of compact size, coated with high-quality foils in decorative wood pattern, 2½-way technology with tweeter (25 mm textile dome), clearly extended frequency range compared with standard full range column speakers. The sound is ideally matched to the reproduction of both music and vocals.

- 4 bass speakers, 2 bass-midrange speakers, 1 tweeter
- Spring-loaded terminal with 3 power taps
- 2 x M8 threaded bushing
- Supplied with mounting brackets
- Metal front grille



Model	ETS-340TW/WS	
Power rating (RMS)	40/20/10 W	
Frequency range	100-19,000 Hz	
Number of speakers	6+1	
Sensitivity	92 dB/W/m	
Dimensions	95 x 500 x 120 mm	
Weight	3.5 kg	

MONACOR INTERNATIONAL INSTALLATION 197

ETS-120SL/WS



Pair of line array design speakers, 4 Ω , in extra slim extruded aluminium cabinets.

- Elegant slim line design
- Cross-sectional area not much bigger than a 1 Euro
- New type of speaker systems with magnetostatic drive and flat cone speakers
- Very wide bandwidth reproduction with an excellent sound quality
- High transmission range due to line array system
- Connection via screw terminal
- Fine-meshed front grille with fleece lining
- Supplied with mounting brackets and connection cables

Model	ETS-120SL/WS
Total power rating	80 W
Power rating (RMS)	40 W
Impedance	4 Ω
Frequency range	120-20,000 Hz
Number of speakers	4
Sensitivity	88 dB/W/m
Beam angle	H: 160°/V: 40°
Dimensions	36 x 1,210 x 22 mm
Weight	0.95 kg





ESUB-6W/WS

Order No. 0259930



Wall-mount PA subwoofer, 2 x 60 W

- Dual vented band-pass subwoofer for unobtrusive wall mounting
- 16 cm (6") high-performance speaker of long excursion with dual voice coil
- 100 V line technique with 4 power taps: 60/30/15 W
- \bullet Impedance switchable to 4 Ω + 4 Ω
- Frequency range: 50-200 Hz (-6 dB), integrated crossover network
- ullet 2 x 4 Ω satellite speaker outputs with high-pass filter
- Connection via Euroblock connectors
- High-quality white coating
- Supplied with robust wall bracket



Model	ESUB-6W/WS	
Total power rating	2 x 125 W	
Power rating (RMS)	60/30/15 W (100 V)	
	2 x 60 W (4 Ω)	
Impedance	4 Ω + 4 Ω	
Frequency range	50-200 Hz	
Number of speakers	1	
Sensitivity	87 dB/W/m	
Dimensions	450 x 350 x 180 mm	
Weight	12.25 kg	

WALL-06T/SW

Order No. 0163600

WALL-06T/WS

Order No. 0163610



Pairs of 2-way PA speaker systems

- 100 V wall speaker with plastic cabinet in white (WS) or black (SW)
- ullet 4 power taps as well as switchable to 8 Ω operation
- 16 cm (6") bass-midrange speaker and 25 mm (1") dome tweeter
- High sound quality and high speech intelligibility
- Mounting bracket for pivoting and tilting
- Connecting terminal with cover



Model	WALL-06T/SW	WALL-06T/WS
Total power rating	100 W	100 W
Power rating (RMS)	32/16/8/4 W (100 V)	32/16/8/4 W (100 V)
	50 W (8 Ω)	50 W (8 Ω)
Frequency range	70-20,000 Hz	70-20,000 Hz
Sensitivity	90 dB/W/m	90 dB/W/m
Dimensions	196 x 303 x 250 mm (with bracket)	196 x 303 x 250 mm (with bracket)
Weight	3.5 kg	3.5 kg
Inputs	spring-load. speaker term.	spring-load. speaker term.

WALL-05T/SW

Order No. 0163580

WALL-05T/WSOrder No. 0163590

100V	8Ω	80 W	PAAR PAIR	IP65
100V	8Ω	$\overline{}$	PAAR PAIR	$\overline{}$

Pairs of 2-way PA speaker systems

- Wall speaker with plastic cabinet in white (WS) or black (SW)
- \bullet 4 power taps as well as switchable to 8 Ω operation
- 13 cm (5") bass-midrange speaker and 12 mm (½") dome tweeter
- High sound quality and high speech intelligibility
- Mounting bracket for pivoting and tilting
- Connecting terminal with cover



Model	WALL-05T/SW	WALL-05T/WS
Total power rating	80 W	80 W
Power rating (RMS)	16/8/4/2 W (100 V)	16/8/4/2 W (100 V)
	40 W (8 Ω)	40 W (8 Ω)
Frequency range	80-20,000 Hz	80-20,000 Hz
Sensitivity	89 dB/W/m	89 dB/W/m
Dimensions	163 x 252 x 203 mm (with bracket)	163 x 252 x 203 mm (with bracket)
Weight	2.6 kg	2.6 kg
Inputs	spring-load. speaker term.	spring-load. speaker term.

WALL-04T/SW Order No. 0163560

WALL-04T/WSOrder No. 0163570

 100V
 8Ω
 60W
 PAAR PAIR IP65

 100V
 8Ω
 60W
 PAAR PAIR IP65

Pairs of 2-way PA speaker systems

- 100 V wall speaker with plastic cabinet in white (WS) or black (SW)
- ullet 4 power taps as well as switchable to 8 Ω operation
- 10 cm (4") bass-midrange speaker and 12 mm (½") dome tweeter
- High sound quality and high speech intelligibility
- Mounting bracket for pivoting and tilting
- Connecting terminal with cover



Model	WALL-04T/SW	WALL-04T/WS
Transmission method	100 V	100 V
Total power rating	60 W	60 W
Power rating (RMS)	16/8/4/2 W (100 V)	16/8/4/2 W (100 V)
	30 W (8 Ω)	30 W (8 Ω)
Frequency range	90-20,000 Hz	90-20,000 Hz
Sensitivity	87 dB/W/m	87 dB/W/m
Dimensions	130 x 197 x 164 mm (with bracket)	130 x 197 x 164 mm (with bracket)
Weight	1.8 kg	1.8 kg
Inputs	spring-load. speaker term.	spring-load. speaker term.

MONACOR INTERNATIONAL INSTALLATION 199

WALL-06/SW

Order No. 0130120



Pair of 2-way speaker systems, 50 W, 8 Ω

- Wall speaker with plastic cabinet in black
- 16 cm (6") bass-midrange speaker and 25 mm (1") dome tweeter
- High sound quality and high speech intelligibility
- Mounting bracket for pivoting and tilting
- Connecting terminal with cover



Model	WALL-06/SW
Total power rating	100 W
Power rating (RMS)	50 W
Frequency range	70-20,000 Hz
Sensitivity	90 dB/W/m
Dimensions	196 x 303 x 250 mm (with bracket)
Weight	3.05 kg
Inputs	spring-load. speaker term.

WALL-05/SW

Order No. 0130100

PAAR PAIR 8Ω IP65 80 W 8Ω 80 W **IP65**

WALL-05/WS

Order No. 0130110

Pairs of 2-way speaker systems, 40 W, 8 Ω

- Wall speaker with plastic cabinet in white (WS) or black (SW)
- 13 cm (5") bass-midrange speaker and 12 mm (½") dome tweeter
- High sound quality and high speech intelligibility
- Mounting bracket for pivoting and tilting
- Connecting terminal with cover



Model	WALL-05/SW	WALL-05/WS
Total power rating	80 W	80 W
Power rating (RMS)	40 W	40 W
Frequency range	80-20,000 Hz	80-20,000 Hz
Sensitivity	89 dB/W/m	89 dB/W/m
Dimensions	163 x 252 x 203 mm (with bracket)	163 x 252 x 203 mm (with bracket)
Weight	2.2 kg	2.2 kg
Inputs	spring-load. speaker term.	spring-load. speakter term.

WALL-04/SW Order No. 0130070

WALL-04/WS Order No. 0130080

8Ω	60 W	PAAR Pa i r	IP65
8Ω	60 W	PAAR PAIR	IP65

Pairs of 2-way speaker systems, 30 W, 8 Ω

- Wall speaker with plastic cabinet in white (WS) or black (SW)
- 10 cm (4") bass-midrange speaker and 12 mm (1/2") dome tweeter
- High sound quality and high speech intelligibility
- Mounting bracket for pivoting and tilting
- Connecting terminal with cover



Model	WALL-04/SW	WALL-04/WS
Total power rating	60 W	60 W
Power rating (RMS)	30 W	30 W
Frequency range	90-20,000 Hz	90-20,000 Hz
Sensitivity	87 dB/W/m	87 dB/W/m
Dimensions	130 x 197 x 164 mm (with bracket)	130 x 197 x 164 mm (with bracket)
Weight	1.3 kg	1.3 kg
Inputs	spring-load. speaker term.	spring-load. speaker term.

EUL-80/SW Order No. 0161190

EUL-80/WS

Order No. 0161230

EUL-60/SW Order No. 0161170

EUL-60/WS Order No. 0161180

EUL-30/SW Order No. 0161150

EUL-30/WS Order No. 0161160

PAAR PAIR 100 V PAAR Pair 100 V

100 V

PAAR Pair





Pairs of universal PA speaker systems

- 100 V line technique, 2-way version
- EUL-80... with a 25 mm dome tweeter, EUL-60... and EUL-30... with an 11 mm dome tweeter
- Excellent sound quality
- 6-step power selector switch
- Black (SW) or white (WS) plastic cabinet
- Pivoting mounting bracket
- Bevelled shape of cabinets also allows mounting in corners

Model	EUL-80/SW, EUL-80/WS	EUL-60/SW, EUL-60/WS	EUL-30/SW, EUL-30/WS
Power rating (RMS)	30/15/7.5/4/2 W	15/7.5/4/2/1 W	15/7.5/4/2/1 W
Frequency range	40-20,000 Hz	60-20,000 Hz	80-20,000 Hz
Sensitivity	89 dB/W/m	89 dB/W/m	87 dB/W/m
Dimensions	270 x 370 x 220 mm	215 x 290 x 172 mm	130 x 192 x 115 mm
Weight	5.4 kg	3.4 kg	3.3 kg (pair)
Inputs	spring-load. speaker term.	spring-load. speaker term.	spring-load. speaker term.

PAB-82WP/WS

Order No. 0253590













Weatherproof high-performance PA speaker system, 120 W

- 2-way coaxial speaker system in an ABS cabinet
- 20 cm (8") PA coaxial system with impregnated paper cone
- Coaxially integrated 25 mm (1") horn tweeter
- Front grille with water-repellent gauze
- Recessed connection terminal with cover plate and high-strength cable gland
- Metal parts and wall bracket made of stainless steel
- Ball-proof according to DIN 18032, Part 3



Model	PAB-82WP/WS
Total power rating	240 W
Power rating (RMS)	120/60/30 W
Impedance	8Ω
Frequency range	50-20,000 Hz
Sensitivity	96 dB/W/m
Protection class	IP45
Admiss. ambient temp.	-10 °C to +40 °C
Dimensions	280 x 280 x 270 mm
Weight	9.5 kg

PAB-52WP/WS











Weatherproof high-performance PA speaker system, 50 W

- Wideband bass-reflex system in an ABS cabinet
- 100 V or 4 Ω operation, selectable
- 13 cm (5") high-quality full range speaker with aluminium cone
- Front grille with water-repellent gauze
- Metal parts and wall bracket made of stainless steel
- Ball-proof according to DIN 18032, Part 3



Model	PAB-52WP/WS
Power rating (RMS)	50/25/12.5 W
Impedance	4Ω
Frequency range	60-18,000 Hz
Number of speakers	1
Sensitivity	87 dB/W/m
Protection class	IP45
Admiss. ambient temp.	-10 °C to +40 °C
Dimensions	200 x 200 x 190 mm
Weight	5.1 kg

INSTALLATION 1101 **MONACOR INTERNATIONAL**

PAB-120WP/SW

Order No. 0253750



Weatherproof high-performance PA speaker system, 120 W

- 2-way bass-reflex system in an ABS cabinet
- 100 V line technique
- 30 cm (12") PA bass speaker with impregnated paper
- 25 mm (1") horn tweeter system
- Front grille with water-repellent gauze
- Metal parts made of stainless steel
- 4 x M10 threaded insert each at the top and bottom for suspended installation
- Stand sleeve
- Ball-proof according to DIN 18032, Part 3

Model	PAB-120WP/SW
Power rating (RMS)	120/60/30 W
Frequency range	42-20,000 Hz
Number of speakers	2
Sensitivity	98 dB/W/m
Colour	black
Protection class	IP45
Admiss. ambient temp.	-20 °C to +40 °C
Dimensions	370 x 655 x 410 mm
Weight	22.14 kg







EUL-75/WS

Order No. 0162500



PA speaker system

- 100 V line technique
- 6-step power selector switch
- Hi-fi full range speaker
- Excellent sound quality
- White grained wooden cabinet with metal front grille
- Floorstanding speaker with wall holder

Model	EUL-75/WS
Power rating (RMS)	10/5/2.5/1.25/0.625 W
Frequency range	70-18,000 Hz
Sensitivity	86 dB/W/m
Dimensions	180 x 290 x 170 mm
Weight	3.7 kg



EUL-42/WS

Order No. 0161970



Pair of universal PA speaker systems

- 100 V line technique, 2-way version
- White plastic cabinet with metal front grille
- Integrated suspension device for wall mounting
- Pivoting mounting bracket

Model	EUL-42/WS	
Power rating (RMS)	10/5/2.5 W	
Frequency range	80-18,000 Hz	
Sensitivity	87 dB/W/m	
Dimensions	95 x 150 x 82 mm	
Weight	960 g	



EUL-10

Order No. 0160330







Universal PA speaker systems

- 100 V line technique, 2-way version
- Excellent sound quality
- 5-step power selector switch
- Diecast metal cabinet with black (EUL-10) or white (EUL-10/WS) textured coating and protective metal grille

Model	EUL-10, EUL-10/WS
Power rating (RMS)	10/5/2.5/1.25 W
Frequency range	60-18,000 Hz
Dimensions	118 x 220 x 115 mm
Weight	1.85 kg







ESP-315/SW Order No. 0162860

ESP-315/WS Order No. 0162870

100V	8Ω
100V	8Ω

2-way PA wall-mount speaker systems

- 100 V PA speaker system with an excellent sound
- 2-way system with 10 x 15 cm bass-midrange speaker and 13 mm dome tweeter
- Power taps: 15/10/5/2.5 W
- ullet Power selector switch with 8 Ω operating position
- Can be mounted horizontally or vertically

Model	ESP-315/SW	ESP-315/WS
Total power rating	30 W	30 W
Power rating (RMS)	15/10/5/2.5 W (100 V)	15/10/5/2.5 W (100 V)
	15 W (8 Ω)	15 W (8 Ω)
Impedance	8 Ω	8Ω
Frequency range	75-20,000 Hz	75-20,000 Hz
Sensitivity	90 dB/W/m	90 dB/W/m
Dimensions	Ø 133 mm x 280 mm	Ø 133 mm x 280 mm
Weight	2.1 kg	2.1 kg

• Direction of sound radiation can individually be aligned



ESP-250/WS

Order No. 0162780

ESP-230/WS Order No. 0190010

ESP-215/WS Order No. 0199990

100 V IP65 100V **IP65**

100V 8Ω IP65

PA speaker system, in a weatherproof white plastic cabinet with aluminium protective grille.

• 100 V line technique

Hos	se-proof
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- ullet Switchable to 8 Ω operation
- ullet 5 power taps, 8 Ω connection and 100 V power selector switch
- 2-way system
- Stainless steel mounting bracket

Model	ESP-250/WS	ESP-230/WS	ESP-215/WS
Total power rating	100 W	100 W	60 W
Power rating (RMS)	50/40/30/20/10 W (100 V)	30/20/10/5/2.5 W (100 V)	15/10/5/2.5/1.5 W (100 V)
	50 W (8 Ω)	50 W (8 Ω)	30 W (8 Ω)
Impedance	8 Ω	8Ω	8 Ω
Frequency range	80-20,000 Hz	80-20,000 Hz	100-20,000 Hz
Sensitivity	92 dB/W/m	92 dB/W/m	87 dB/W/m
Protection class	IP65	IP65	IP65
Admiss. ambient temp.	-20 °C to +50 °C	-20 °C to +50 °C	-20 °C to +50 °C
Dimensions	157 x 260 x 170 mm	157 x 260 x 170 mm	98 x 195 x 105 mm
Weight	2.4 kg	1.8 kg	0.85 kg



ESP-232/SW

Order No. 0162600

ESP-232/WS

Order No. 0162610

100V	8Ω	***************************************	IP55
100V	8Ω	***************************************	IP55

- 13 cm polypropylene bass-midrange speaker and tweeter
- 4 power taps
- ullet Power selector switch with 8 Ω operating position

Weatherproof 2-way PA wall-mount speaker systems

• 100 V PA speaker system with an excellent sound

Model	ESP-232/SW	ESP-232/WS
Total power rating	50 W	50 W
Power rating (RMS)	30/20/10/5 W (100 V)	30/20/10/5 W (100 V)
	25 W (8 Ω)	25 W (8 Ω)
Impedance	8 Ω	8Ω
Frequency range	75-20,000 Hz	75-20,000 Hz
Number of speakers	2	2
Sensitivity	89 dB	89 dB
Protection class	IP55	IP55
Admiss. ambient temp.	-20 °C to +50 °C	-20 °C to +50 °C
Dimensions	160 x 260 x 180 mm	160 x 260 x 180 mm
Weight	2.3 kg	2.3 kg



EUL-26/SW Order No. 0163280

EUL-26/WS Order No. 0163290

100V	8Ω	PAAR Pair
100V	8Ω	PAAR PAIR

Pair of miniature PA speaker systems

- Speakers for general applications, very small dimensions, 100 V line technique
- \bullet Can also be connected at 8 Ω
- 6.5 cm (2.5") full range speaker
- Good sound characteristics and high speech intelligibility

Model	EUL-26/SW, EUL-26/WS
Total power rating	20 W
Power rating (RMS)	6 W (100 V)
	10 W (8 Ω)
Frequency range	150-20,000 Hz
Sensitivity	88 dB/W/m
Dimensions	90 x 90 x 115 mm
Weight	0.65 kg

- Turnable, for pivoting and tilting
- An additional subwoofer system is recommended for complementing the low-frequency music reproduction (e.g. EUL-2SUB/SW, SOUND-100SUB)



MKS-26/WS

Order No. 0132380





Pair of miniature speaker systems, 8 Ω , 10 W

- For general applications, very small dimensions
- 6.5 cm (2.5") full range speaker
- Good sound characteristics and high speech intelligibility
- Mounting bracket with ball joint for turning, pivoting and tilting

Model	MKS-26/WS	
Total power rating	20 W	
Power rating (RMS)	10 W	
Frequency range	150-22,000 Hz	
Sensitivity	88 dB/W/m	
Dimensions	90 x 90 x 115 mm	
Weight	0.45 kg	



INSTALLATION **MONACOR INTERNATIONAL** 1103 MKS-248/SW

Order No. 0132040

MKS-248/WS Order No. 0132050

8Ω	100 W	PAAR Pair
8Ω	100 W	PAAR PAIR

Pairs of 2-way wall-mount design speaker systems, 60 W, 8 Ω

- High-performance PA speaker systems (bass-reflex) with a perfect sound
- Each equipped with 2 x 10 cm polypropylene bass-midrange speaker and 1 x high-quality dome
- High efficiency, high power capability
- White plastic housing with lacquered aluminium grille
- Supplied with matching metal wall bracket (for pivoting and tilting)

Model	MKS-248/SW	MKS-248/WS
Total power rating	100 W	100 W
Power rating (RMS)	60 W	60 W
Frequency range	70-20,000 Hz	70-20,000 Hz
Sensitivity	89 dB/W/m	89 dB/W/m
Dimensions	150 x 300 x 190 mm	150 x 300 x 190 mm
Weight	3.4 kg	3.4 kg



MKS-232/SW

Order No. 0132160

8Ω Ω 8









MKS-232/WS

Order No. 0132170

Pairs of weatherproof 2-way wall-mount speaker systems, 30 W, 8 Ω

- PA speaker systems with an excellent sound
- 13 cm polypropylene bass-midrange speaker and dome tweeter
- High efficiency
- Black (SW) or white (WS) plastic housing with lacquered aluminium grille
- Supplied with matching metal wall brackets

Model	MKS-232/SW	MKS-232/WS
Total power rating	50 W	50 W
Power rating (RMS)	30 W	30 W
Impedance	8Ω	8Ω
Sensitivity	89 dB/W/m	89 dB/W/m
Protection class	IP55	IP55
Admiss. ambient temp.	-20 °C to +50 °C	-20 °C to +50 °C
Dimensions	160 x 260 x 180 mm	160 x 260 x 180 mm
Weight	1.8 kg	1.8 kg



MKS-48/WS

Order No. 0132130







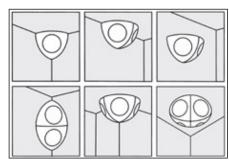
Pair of wall/ceiling/corner mount speaker systems, 15 W, 8 Ω

These really universally mountable speakers allow a perfect integration into most versatile indoor mounting positions. Interesting possibilities due to the optional creation of a cluster with 1-4 elements, from ceiling suspension in a corner to a hemisphere of wide radiation in the middle of the wall or ceiling. The sound of the pure white speakers is adjusted in such a precise way that it provides a complete sound of high quality, no matter in which position the speakers are placed.

- White ABS cabinet
- High-quality 10 cm full range speaker
- Variable support and mounting system

Model	MKS-48/WS
Total power rating	30 W
Power rating (RMS)	15 W
Frequency range	100-20,000 Hz
Sensitivity	87 dB/W/m
Dimensions	195 x 145 x 140 mm
Weight	1.5 kg





PAB-12WP/SW

Order No. 0253740



Weatherproof high-performance PA speaker system, 200 W, 8 Ω

- 2-way bass-reflex system in an ABS cabinet
- 30 cm (12") PA bass speaker with impregnated paper
- 25 mm (1") horn tweeter system
- Front grille with water-repellent gauze
- Metal parts made of stainless steel
- 4 x M10 threaded insert each at the top and bottom for suspended installation
- Stand sleeve
- Ball-proof according to DIN 18032, Part 3

Model	PAB-12WP/SW
Total power rating	400 W
Power rating (RMS)	200 W
Frequency range	42-20,000 Hz
Sensitivity	98 dB/W/m
Protection class	IP45
Admiss. ambient temp.	-10 °C to +40 °C
Dimensions	370 x 655 x 410 mm
Weight	20.32 kg
Inputs	1 x SPEAKER
Outputs	1 x SPEAKER, par. out



PAB-8WP/WS

Order No. 0253570













Weatherproof high-performance PA speaker system, 120 W

- 2-way bass-reflex system in an ABS cabinet
- \bullet 100 V or 8 Ω operation, selectable
- 20 cm (8") PA bass speaker with impregnated paper cone
- 25 mm (1") horn tweeter system
- Front grille with water-repellent gauze
- Metal parts and wall bracket made of stainless steel
- Ball-proof according to DIN 18032, Part 3

Model	PAB-8WP/WS
Total power rating	240 W
Power rating (RMS)	120/60/30 W
Frequency range	48-20,000 Hz
Sensitivity	96 dB/W/m
Protection class	IP45
Admiss. ambient temp.	-10 °C to +40 °C
Dimensions	240 x 430 x 250 mm
Weight	11.42 kg
Inputs	1 x SPEAKER,
	screw terminal
Outputs	1 x SPEAKER, par. out



PAB-6WP/WS

Order No. 0253560











Weatherproof high-performance PA speaker system, 100 W

- Compact 2-way bass-reflex system in an ABS cabinet
- 100 V or 8 Ω operation, selectable
- 16 cm bass speaker with coated carbon fibre cone
- 30 mm dome tweeter with horn front attachment
- Front grille with water-repellent gauze
- Recessed connection terminal with cover plate and high-strength cable gland
- Metal parts and wall bracket made of stainless steel
- Ball-proof according to DIN 18032, Part 3

Model	PAB-6WP/WS	
Total power rating	180 W	
Power rating (RMS)	100/50/25 W	
Frequency range	42-19,000 Hz	
Sensitivity	90 dB/W/m	
Protection class	IP45	
Admiss. ambient temp.	-10 °C to +40 °C	
Dimensions	200 x 370 x 240 mm	
Weight	7.1 kg	
Inputs	screw terminal	



PAB-506/WS

Order No. 0243130

PAB-586/WS

Order No. 0246780



Universal PA speaker systems, 100 W, 4 Ω (PAB-506) or 8Ω (PAB-586)

- High-quality mini PA speaker system of highest manufacturing quality
- 16 cm carbon fibre bass-midrange speaker of long excursion
- Special dome tweeter of high power capability with flat horn design
- Very linear frequency response and a fantastic sound with a surprisingly high level stability and very high efficiency for its small size
- Extra lightweight ABS plastic cabinet
- Supplied with mounting bracket
- Suitable for any small and medium PA application. With additional subwoofer and/or in multiple arrangement, also suitable for DJ and similar applications
- The connecting terminals (spring-loaded speaker terminals and Speakon) are connected in parallel and can either be used as input or output



Model	PAB-506/WS	PAB-586/WS
Total power rating	180 W	180 W
Power rating (RMS)	100 W	100 W
Frequency range	65-20,000 Hz	65-20,000 Hz
Sensitivity	93 dB/W/m	93 dB/W/m
Dimensions	235 x 385 x 220 mm	235 x 385 x 220 mm
Weight	5.9 kg	5.9 kg
Inputs	1 x NEUTRIK SPEAKON	1 x NEUTRIK SPEAKON
	1 x spring-load. speaker term.	1 x spring-load. speaker term.
Outputs	1 x NEUTRIK SPEAKON	1 x NEUTRIK SPEAKON
	1 x spring-load. speaker term.	1 x spring-load. speaker term.

PAB-68/SW

Order No. 0131930

PAB-68/WS



Order No. 0131940

Pairs of high-quality PA speakers, 8 Ω

- 2-way speaker systems in an ABS cabinet which is both functional and at the same time of an attractive appearance, bass-reflex
- Polypropylene bass speaker and dome tweeter with horn front attachment (waveguide)
- High-quality crossover networks with a perfect long-term stability, e.g. due to consistently applying film capacitors
- Really fast and brilliant sound of high efficiency and high dynamic range, particularly suitable for PA applications of modern music with higher volume levels
- LED at the front for indicating the level
- Supplied with wall bracket



Model	PAB-68/SW	PAB-68/WS
Total power rating	70 W	70 W
Power rating (RMS)	40 W	40 W
Frequency range	55-22,000 Hz	55-22,000 Hz
Sensitivity	90 dB/W/m	90 dB/W/m
Dimensions	210 x 350 x 200 mm	210 x 350 x 200 mm
Weight	3.9 kg	3.9 kg
Inputs	speaker screw terminal	speaker screw terminal

PAB-58/WS

Order No. 0131920



Pair of high-quality PA speakers, 30 W, 8 Ω

- 2-way speaker systems in an ABS cabinet which is both functional and at the same time of an attractive appearance
- Polypropylene bass speaker and dome tweeter with horn front attachment
- High-quality crossover networks with a perfect long-term stability, e.g. due to consistently applying film capacitors
- Really fast and brilliant sound of high efficiency and high dynamic range, particularly suitable for PA applications of modern music with higher volume levels
- Supplied with wall bracket



Model	PAB-58/WS
Total power rating	50 W
Power rating (RMS)	30 W
Frequency range	75-22,000 Hz
Sensitivity	92 dB/W/m
Dimensions	160 x 250 x 150 mm
Weight	2.2 kg
Inputs	speaker screw terminal

PAB-416/SW

Order No. 0131870

PAB-416/WS



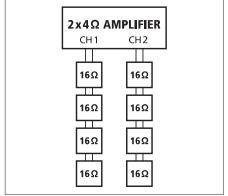
Order No. 0131880

Pairs of high-quality PA speakers, 20 W, 16 Ω

- 2-way speaker systems in an ABS cabinet which is both functional and at the same time of an attractive appearance
- Polypropylene bass speaker and dome tweeter with horn front attachment (waveguide)
- High-quality crossover networks with a perfect long-term stability, e.g. due to consistently applying film capacitors
- Very well-balanced and clear sound which also convinces with the genuine reproduction of voices and demanding music and at the same time appears to be very unobtrusive at moderate levels
- Supplied with wall bracket



Due to the availability of the PAB-416/... speaker systems in 16 Ω , too, up to 8 speaker systems can be driven at one 2-channel standard amplifier with 4 Ω stability by means of basic parallel connection.



Model	PAB-416/SW	PAB-416/WS
Total power rating	30 W	30 W
Power rating (RMS)	20 W	20 W
Frequency range	80-22,000 Hz	80-22,000 Hz
Sensitivity	87 dB/W/m	87 dB/W/m
Dimensions	150 x 240 x 140 mm	150 x 240 x 140 mm
Weight	1.8 kg	1.8 kg
Inputs	speaker screw terminal	speaker screw terminal

MKS-8PRO

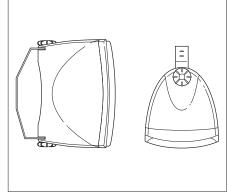
Order No. 0131770



Pair of high-performance PA speakers, 100 W each speaker system

- 2-way speaker systems in an ABS cabinet (bass-reflex) of modern design
- 20 cm bass speaker and dome tweeter
- Very extended frequency response and high volume capability
- Supplied with mounting brackets for wall mounting





Model	MKS-8PRO
Total power rating	180 W
Power rating (RMS)	100 W
Frequency range	40-21,000 Hz
Sensitivity	91 dB/W/m
Dimensions	265 x 374 x 285 mm
Weight	5.7 kg
Inputs	speaker screw terminal

MKS-88/SW

Order No. 0131150 MKS-88/WS

Order No. 0131160 **MKS-64/SW** Order No. 0131130

MKS-64/WS Order No. 0131140

MKS-34/SW Order No. 0131110

MKS-34/WS Order No. 0131120

8Ω	125 W	PAAR Pair
8Ω	125 W	PAAR Pair
4Ω	90 W	PAAR Pair
4Ω	90 W	PAAR Pair
4Ω	40 W	PAAR Pair
4Ω	40 W	PAAR PAIR

Pairs of 2-way speaker systems

- MKS-88... in 8 Ω , MKS-64... and MKS-34... in 4 Ω
- Dome tweeter
- Excellent sound quality
- Black (SW) or white (WS) plastic cabinet
- Pivoting mounting bracket
- Bevelled shape of cabinets also allows mounting in corners



Model	MKS-88/SW	MKS-88/WS	MKS-64/SW	MKS-64/WS	MKS-34/SW	MKS-34/WS
Total power rating	125 W	125 W	90 W	90 W	45 W	45 W
Power rating (RMS)	85 W	85 W	60 W	60 W	30 W	30 W
Frequency range	40-20,000 Hz	40-20,000 Hz	60-20,000 Hz	60-20,000 Hz	80-20,000 Hz	80-20,000 Hz
Sensitivity	89 dB/W/m	89 dB/W/m	89 dB/W/m	89 dB/W/m	87 dB/W/m	87 dB/W/m
Dimensions	270 x 370 x 220 mm	270 x 370 x 220 mm	215 x 290 x 172 mm	215 x 290 x 172 mm	130 x 192 x 115 mm	130 x 192 x 115 mm
Weight	5.4 kg	5.4 kg	3.4 kg	3.4 kg	1.3 kg	1.3 kg
Inputs	sprload. sp. term.					

MONACOR INTERNATIONAL INSTALLATION 1107

MKS-42/SW

Order No. 0131520

MKS-42/WS Order No. 0131530



Pairs of universal 2-way speaker systems, 20 W,

- Black (SW) or white (WS) plastic cabinet with metal front grille
- Integrated holder for wall mounting
- Pivoting mounting bracket

Model	MKS-42/SW, MKS-42/WS
Total power rating	40 W
Power rating (RMS)	20 W
Frequency range	80-18,000 Hz
Dimensions	95 x 150 x 82 mm
Weight	1.4 kg (pair)
Inputs	spring-load. speaker term.



GLS-351/GR

Order No. 0163080













Weatherproof PA garden speaker 'Rock', stone look, for general PA applications, e.g. in gardens, hotels, restaurants and pubs.

- 100 V line technique or 8 Ω operation
- Robust, glass fibre reinforced plastic cabinet
- 2-way coaxial speaker system (200 mm bass speaker and 13 mm tweeter)
- Integrated audio transformer with 4 power taps (30/20/10/5 W)
- Connection cable with luster terminals

Model	GLS-351/GR
Total power rating	90 W
Power rating (RMS)	30/20/10/5 W (100 V)
	45 W (8 Ω)
Frequency range	60-20,000 Hz
Sensitivity	88 dB/W/m
Protection class	IP55
Admiss. ambient temp.	-20 °C to +50 °C
Dimensions	370 x 300 x 300 mm
Weight	5.8 kg



GLS-301/GR

Order No. 0163070













Weatherproof PA garden speaker 'Rock', stone look, for general PA applications, e.g. in gardens, hotels, restaurants and pubs.

- Omnidirectional radiation pattern
- 100 V line technique or 8 Ω operation
- Robust, glass fibre reinforced plastic cabinet
- 2-way coaxial speaker system (200 mm bass speaker and 13 mm tweeter)
- Integrated audio transformer with 4 power taps (30/20/10/5 W)
- Connection cable with luster terminals

Model	GLS-301/GR
Total power rating	90 W
Power rating (RMS)	30/20/10/5 W (100 V)
	45 W (8 Ω)
Impedance	8Ω
Frequency range	60-20,000 Hz
Sensitivity	85 dB/W/m
Protection class	IP55
Admiss. ambient temp.	-20 °C to +50 °C
Dimensions	320 x 500 x 310 mm
Weight	9.5 kg



SOUND-4BT/WS

Order No. 0257060



Active 2-way stereo speaker system, with Bluetooth receiver, 2 x 30 W.

- Set consists of one active and one passive bass-reflex speaker system. Connection of the passive system to the active system via spring-loaded speaker terminals
- Bluetooth receiver V4.0 with APTX
- Active speaker system with integrated 2-channel class D amplifier
- Stereo RCA and 3.5 mm jack input, optical digital input (Toslink), mono sub out via RCA jack
- Supplied with remote control
- 10 cm (4") bass speaker and 25 mm (1") dome tweeter
- Excellent sound characteristics with linear adjustment
- High-gloss lacquered MDF wooden cabinet of high quality





Model	SOUND-4BT/WS
Power rating (RMS)	2 x 30 W
Frequency range	45-20,000 Hz
Input signal	Bluetooth
	500 mV/10 kΩ
Sensitivity	85 dB/W/m (each speaker system)
Power supply	~ 230 V/50 Hz/170 VA
Dimensions	140 x 215 x 170 mm
Weight	5.2 kg (pair)
Inputs	1 x RCA L/R
	1 x 3.5 mm stereo jack
	1 x Toslink, optical digial input
	spring-load. speaker term. for passive speak. system

SOUND-65/SW

Order No. 0250680



Pair of high-quality active speakers, 2 x 50 W

- 2-way active switching for each speaker system with separate power amplifiers for bass speaker and tweeter (bi-amping)
- Amplifier output power: bass speaker: 30 W, tweeter: 20 W
- High-quality bass-reflex MDF cabinet with black lacquered surface
- 16 cm bass-midrange speaker with glass fibre cone and 25 mm soft dome tweeter
- Tweeter power amplifier with switchable adjustment allows fine adjustment of tweeter level without any losses in the level (-2/-1/0/+1 dB)
- Each speaker system is equipped with an unbalanced RCA input, a balanced XLR input and a jack input (6.3 mm), each to be adjusted via gain control
- Including speaker grille, magnetically attached





Model	SOUND-65/SW
Power rating (RMS)	50 W
Frequency range	42-20,000 Hz
Input signal	720 mV/10 kΩ (bal.)
	720 mV/7.7 kΩ (unbal.)
Sensitivity	86 dB/W/m
Power supply	~ 230 V/50 Hz/120 VA
Dimensions	228 x 324 x 295 mm
Weight	7.8 kg
Inputs	1 x RCA, unbal., IN (each speaker system)
	1 x XLR, bal., IN (each speaker system)
	1 x 6.3 mm jack, bal., IN (each speaker system)

WALL-05SET/WS

Order No. 0130132



Active 2-way stereo speaker system, 2 x 30 W

- Set consists of one active and one passive speaker system. Connection of the passive system to the active system via screw terminal strip
- Active speaker system with integrated 2-channel amplifier
- Stereo RCA input or balanced input L/R via screw terminal strip
- Volume control and 2-way tone control
- Auto standby
- 13 cm (5") bass speaker system and dome tweeter
- Mounting bracket for pivoting and tilting

Model	WALL-05SET/WS
Total output power	2 x 50 W
Power rating (RMS)	2 x 30 W
Frequency range	80-20,000 Hz
Input signal	500 mV/20 kΩ (unbal.)
	660 mV/40 kΩ (bal.)
Sensitivity	89 dB/W/m
Power supply	~ 230 V/50 Hz/100 VA
Dimensions	163 x 252 x 203 mm (with bracket)
Weight	5.5 kg (pair)
Inputs	1 x RCA L/R (unbalanced)
	1 x terminal L/R (balanced)
	sprload. speak. term. (passive speaker system)
	sprload. speak. term.



WALL-06SET/WS

Order No. 0130131







Active 2-way stereo speaker system, 2 x 30 W

- Set consists of one active and one passive speaker system. Connection of the passive system to the active system via screw terminal strip
- Active speaker system with integrated 2-channel amplifier
- Stereo RCA input or balanced input L/R via screw terminal strip
- Volume control and 2-way tone control
- Auto standby
- Built-in power supply with 3-pin IEC jack
- 16 cm (6") bass speaker system and dome tweeter
- Mounting bracket for pivoting and tilting

Model	WALL-06SET/WS
Total output power	2 x 50 W
Power rating (RMS)	2 x 30 W
Frequency range	70-20,000 Hz
Input signal	890 mV/20 kΩ (unbal,.)
	1,600 mV/40 kΩ (bal.)
Sensitivity	90 dB/W/m
Power supply	~ 230V/50 Hz/140VA
Dimensions	196 x 303 x 250 mm (with bracket)
Weight	8 kg (pair)
Inputs	1 x RCA L/R (unbalanced)
	1 x terminal L/R (balanced)
	sprload. speak. term. (passive speaker system)
	spr. load. speak. term.



MKA-50SET/SW

Order No. 0132350

MKA-50SET/WS

Order No. 0132360













Active 2-way stereo speaker systems, 2 x 20 W

- Set consists of an active and a passive speaker system. Connection of the passive system to the active system via screw terminals
- Active speaker system with integrated 2-channel amplifier and power supply
- Speakers with magnetic shielding
- Auto-standby function
- Volume control and 2-way tone control

Model	MKA-50SET/SW, MKA-50SET/WS
Total output power	2 x 40 W
Power rating (RMS)	2 x 20 W
Frequency range	60-20,000 Hz
Input signal	420 mV/24 kΩ
Sensitivity	89 dB/W/m
Power supply	~ 230 V/50 Hz/110 VA
Dimensions	180 x 250 x 160 mm
Weight	5.9 kg (pair)
Inputs	1 x RCA L/R (active speak. system only)
	1 x 3.5 mm jack
	screw terminals (both speaker systems)



MKA-60SET/SW

Order No. 0131580

MKA-60SET/WS

Order No. 0131590



Active 2-way stereo speaker systems, 2 x 15 W

- Set consists of an active and a passive speaker system. Connection of the passive system to the active system via spring-loaded speaker terminals
- Active speaker system with integrated 2-channel amplifier, stereo RCA input, volume control and 2-way tone control, built-in power supply with 3-pin IEC jack
- 16 cm (61/2") bass speaker system and dome tweeter

- · Black (SW) or white (WS) plastic cabinet
- Pivoting mounting bracket

Model	MKA-60SET/SW, MKA-60SET/WS
Total output power	2 x 25 W
Power rating (RMS)	2 x 15 W
Frequency range	45-20,000 Hz
Input signal	400 mV/10 kΩ
Sensitivity	89 dB/W/m
Power supply	~ 230 V/50 Hz/75 VA
Dimensions	220 x 293 x 170 mm
Weight	8 kg (pair)
Inputs	1 x RCA L/R (active speaker system only)
	sprload. speak. term. (link, both speak. systems)



SOUND-100SUB

Order No. 0250730



Active subwoofer system, 120 W

- Active subwoofer for adding to the active SOUND speaker systems, but also to any other compact speaker for hi-fi or home cinema applications and home recordings
- The amplifier features a variable input sensitivity, a phase switch and an automatic switch-on system which can additionally be activated as well as an adjustable crossover frequency (50-150 Hz)
- High-quality bass-reflex MDF cabinet (black wood veneer look)
- 25 cm (10") bass speaker
- Volume control for the subwoofer
- Inputs via 1 x RCA L/R, RCA LFE or screw terminals for high-level L/R
- Additional outputs for mid-high range speakers, thus well-suited for connection to already existing speaker cables







Model	SOUND-100SUB
Power rating (RMS)	120 W
Frequency range	35-100 Hz
Input signal	150 mV/24 kΩ (RCA L/R)
	55 mV/16 kΩ (RCA mono)
	2.3 V/440 Ω (high IN)
Sensitivity	88 dB/W/m
Power supply	~ 230 V/50 Hz/240 VA
Dimensions	330 x 360 x 360 mm
Weight	13 kg
Inputs	1 x RCA (L/R), unbal., IN
	1 x RCA (mono), unbal., IN
	1 x screw terminal (stereo), high-level IN
Outputs	1 x screw terminals (stereo), high-level out

ESUB-8F/WS

Order No. 0259300



Active subwoofer system, 50 W

- Compact active subwoofer of elegant design as an addition to compact speakers for hi-fi, PA, home cinema and home recording
- The amplifier features volume control, a phase switch and an automatic switch-on as well as an adjustable crossover frequency (50-250 Hz)
- High-quality bass-reflex MDF cabinet, high-gloss white
- 20 cm (8") bass speaker
- Inputs via 1 x RCA L/R or screw terminals for high-level L/R
- Parallel line out RCA L/R
- Additional outputs high-level L/R for mid-high range speakers. Thus, well suited for connection to already existing speaker lines
- White fabric front cover







Model	ESUB-8F/WS
Total output power	90 W
Power rating (RMS)	50 W
Frequency range	30-250 Hz
Input signal	185 mV/9 kΩ (RCA L/R)
	4 V/480 Ω (high IN)
Sensitivity	87 dB/W/m
Power supply	~ 230 V/50 Hz/152 VA
Dimensions	300 x 330 x 340 mm
Weight	9.8 kg
Inputs	1 x RCA (L/R), unbal., IN
	1 x screw terminals (stereo), high-level IN
Outputs	1 x RCA (L/R)
	1 x screw terminals (stereo), high-level OUT

MONACOR INTERNATIONAL INSTALLATION I 111

MOVE-12AMK2

Order No. 1000224



Professional active DSP speaker system with POWERSOFT 2-channel amplifier, 700 W

- Active module POWERSOFT D-Cell504 IS with DSP
- 4 selectable presets
- 30 cm (12", FaitalPro 12PR300) bass speaker
- 25 mm (1", 44 mm voice coil, Celestion CDX1-1747) horn tweeter, can be turned by 90°
- High-quality coating and neat workmanship
- Multi-purpose positioning and installation options
- M8 threaded inserts for suspended installation, stand sleeve
- 1 x balanced line input
- 1 x balanced line output
- Auto power on/off with LED indication
- POWERCON mains connection with POWERCON parallel output

Model	MOVE-12AMK2
Power rating (RMS)	DSP-controlled, 2 x 350 W
	bass: 350 W
	treble: 200 W
requency range	45-20,000 Hz
nput signal	1,200 mV/8 kΩ (aux)
ensitivity	98 dB/W/m
ower supply	~ 230 V/50 Hz/750 VA
Dimensions	350 x 620 x 385 mm
Veight	16.6 kg
nputs	1 x XLR line in
Outputs	1 x XLR, par. out



MOVE-10AMK2

Order No. 1000223







Professional active DSP speaker system with POWERSOFT 2-channel amplifier, 700 W

- Compact 10/2 full range system with cabinet made of birch plywood
- Active module POWERSOFT D-Cell504 IS with DSP
- 4 selectable presets
- 25 cm (10", FaitalPro 10PR300) bass speaker
- 25 mm (1", 44 mm voice coil, Celestion CDX1-1747) horn tweeter, can be turned by 90°
- High-quality coating and neat workmanship
- Multi-purpose positioning and installation options
- M8 threaded inserts for suspended installation, stand sleeve
- 1 x balanced line input
- 1 x balanced line output
- Auto power on/off with LED indication

Model	MOVE-10AMK2
Power rating (RMS)	DSP-controlled, 2 x 350 W
	bass: 350 W
	treble: 200 W
Frequency range	50-20,000 Hz
Input signal	1,200 mV/8 kΩ (aux)
Sensitivity	98 dB/W/m
Power supply	~ 230 V/50 Hz/750 VA
Dimensions	320 x 545 x 350 mm
Weight	14.5 kg
Inputs	1 x XLR line in
Outputs	1 x XLR, par. out

 POWERCON mains connection with POWERCON parallel output



MOVE-08AMK2

Order No. 1000222









Professional active DSP speaker system with POWERSOFT 2-channel amplifier, 700 W

- Compact 8/2 full range system with cabinet made of birch plywood
- Active module POWERSOFT D-Cell504 IS with DSP
- 4 selectable presets
- 20 cm (8", FaitalPro 8PR200) bass speaker
- 25 mm (1", 44 mm voice coil, Celestion CDX1-1747) horn tweeter, can be turned by 90°
- High-quality coating and neat workmanship
- Multi-purpose positioning and installation options
- M8 threaded inserts for suspended installation, stand
- 1 x balanced line input
- 1 x balanced line output

Model	MOVE-08AMK2
Power rating (RMS)	DSP-controlled, 2 x 350 W
	bass: 250 W
	treble: 200 W
Frequency range	60-20,000 Hz
Input signal	1,200 mV/8 kΩ (aux)
Sensitivity	95 dB/W/m
Power supply	~ 230 V/50 Hz/750 VA
Dimensions	290 x 490 x 315 mm
Weight	12.8 kg
Inputs	1 x XLR line in
Outputs	1 x XLR, par. out

- Auto power on/off with LED indication
- POWERCON mains connection with POWERCON parallel output



MOVE-12PMK2

Order No. 1000227



Professional PA speaker system, 350 W, 8 Ω

- Compact professional full range bass-reflex system
- Cabinet made of birch plywood
- 30 cm (12"), FaitalPro 12PR300) bass speaker
- 25 mm (1", 44 mm voice coil, Celestion CDX1-1747) horn tweeter, can be turned by 90°
- Switchable between passive operation and bi-amp active operation
- Neutral sound tuning
- 'Catch & Carry' carrying handle
- M8 threaded inserts for suspended installation

MOVE-12PMK2
700 W
350 W
8Ω
98 dB/W/m
350 x 620 x 385 mm
16.1 kg
1 x NEUTRIK SPEAKON
1 x NEUTRIK SPEAKON par.out

- 2 x NEUTRIK SPEAKON terminal, in/out
- Stand sleeve, robust front grille



MOVE-10PMK2

Order No. 1000226









Professional PA speaker system, 350 W, 8 Ω

- Compact professional full range bass-reflex system
- Cabinet made of birch plywood
- 25 cm (10", FaitalPro 10PR300) bass speaker
- 25 mm (1", 44 mm voice coil, Celestion CDX1-1747) horn tweeter, can be turned by 90°
- Switchable between passive operation and bi-amp active operation
- Neutral sound tuning
- 'Catch & Carry' carrying handle
- M8 threaded inserts for suspended installation

Model	MOVE-10PMK2
Total power rating	700 W
Power rating (RMS)	350 W
Impedance	8Ω
Frequency range	55-20,000 Hz
Sensitivity	96 dB/W/m
Dimensions	320 x 545 x 350 mm
Weight	14.2 kg
Inputs	1 x NEUTRIK SPEAKON
Outputs	1 x NEUTRIK SPEAKON par. out

- 2 x NEUTRIK SPEAKON terminal, in/out
- Stand sleeve, robust front grille



MOVE-08PMK2

Order No. 1000225









Professional PA speaker system, 250 W, 8 Ω

- Compact professional full range bass-reflex system
- Cabinet made of birch plywood
- 20 cm (8", FaitalPro 8PR200) bass speaker
- 25 mm (1", 44 mm voice coil, Celestion CDX1-1747) horn tweeter, can be turned by 90°
- Switchable between passive operation and bi-amp active operation
- Neutral sound tuning
- 'Catch & Carry' carrying handle
- M8 threaded inserts for suspended installation

Model	MOVE-08PMK2
Total power rating	500 W
Power rating (RMS)	250 W
Impedance	8Ω
Frequency range	65-20,000 Hz
Sensitivity	95 dB/W/m
Dimensions	290 x 490 x 315 mm
Weight	12.3 kg
Inputs	1 x NEUTRIK SPEAKON
Outputs	1 x NEUTRIK SPEAKON par.out

- 2 x NEUTRIK SPEAKON terminal, in/out
- Stand sleeve, robust front grille



MOVE-12/BAG

Order No. 1000210



MOVE-10/BAG Order No. 1000207

MOVE-08/BAG

Order No. 1000204

Protective covers for speaker systems

MOVE-12/BAG for PA speaker systems MOVE-12AMK2, MOVE-12PMK2 MOVE-10/BAG for PA speaker systems MOVE-10AMK2, MOVE-10PMK2

- MOVE-08/BAG for PA speaker systems MOVE-08AMK2, MOVE-08PMK2
- Outer material made of robust, black synthetic cloth • Openings for handles



MONACOR INTERNATIONAL INSTALLATION

PAB-308/SW

Order No. 0254290

PAB-308/WS

Order No. 0254300



Universal PA speaker systems, 125 W, 8 Ω

- Compact 8/2 full range bass-reflex system
- 20 cm (8") bass speaker, 25 mm (1") horn tweeter
- Tweeter protection circuit
- High-quality MDF wooden cabinet in black (SW) or white (WS), with protective metal grille
- 4 x M8 threaded inserts for suspended installation

Model	PAB-308/SW, PAB-308/WS
Total power rating	250 W
Power rating (RMS)	125 W
Frequency range	60-20,000 Hz
Sensitivity	93 dB/W/m
Dimensions	258 x 410 x 247 mm
Weight	7.5 kg
Inputs	1 x NEUTRIK SPEAKON
Outputs	1 x NEUTRIK SPEAKON par. out

- Supplied with mounting bracket and integrated stand
- NEUTRIK SPEAKON terminal



PAB-306/SW Order No. 0254270

PAB-306/WS Order No. 0254280



Universal PA speaker systems, 160 W, 8 Ω

- Closed 2-way system
- 2 x 16 cm (6.5") bass speaker, 25 mm (1") horn tweeter
- Tweeter protection circuit
- High-quality MDF wooden cabinets in black (SW) or white (WS), with protective metal grille

Model	PAB-306/SW, PAB-306/WS
Total power rating	320 W
Power rating (RMS)	160 W
Frequency range	65-20,000 Hz
Sensitivity	93 dB/W/m
Dimensions	212 x 565 x 190 mm
Weight	9.5 kg
Inputs	1 x NEUTRIK SPEAKON
Outputs	1 x NEUTRIK SPEAKON, par. out

- 4 x M8 threaded inserts for suspended installation
- Supplied with mounting bracket and integrated stand sleeve
- NEUTRIK SPEAKON terminal



CLUB-1TOP









Order No. 0252490

Pair of professional PA speaker systems, 2 x 100 W/8 Ω

- 16 cm high-performance bass-midrange speaker with carbon fibre cone
- Waveguide dome tweeter
- NEUTRIK SPEAKON IN/OUT for an easy parallel connection
- High-quality lacquered MDF cabinet, full front grille with acoustic foam

Model	CLUB-1TOP
Total power rating	160 W
Power rating (RMS)	100 W
Frequency range	55-21,000 Hz
Sensitivity	90 dB/W/m
Dimensions	210 x 300 x 260 mm
Weight	6 kg
Inputs	1 x NEUTRIK SPEAKON
Outputs	1 x NEUTRIK SPEAKON

• 6 x M8 threaded insert, 1 x standard stand sleeve



CLUB-1SUB













Order No. 0252480

2 x 300 W/4 Ω

Professional subwoofer, 600 W/8 Ω or 2 Ω or

- 4 x 20 cm (8") top-class woofer
- Variable impedance concept (switchable between $1 \times 8 \Omega$ and $2 \times 4 \Omega$, for parallel connection in the $2 \times 4 \Omega$ position as $1 \times 2 \Omega$)
- High-quality lacquered MDF cabinet, full front grille with acoustic foam
- An amplifier with integrated or external active crossover network is required for operation

) mm
RIK SPEAKON,



SUB-10

Order No. 0259875



Passive subwoofer, 500 W/8 Ω

- Band-pass subwoofer with double ventilation
- 1 x 25 cm (10") top-class woofer
- Slimline and compact design for upright and horizontal setup
- High-quality lacquered cabinet made of plywood, front grille with inner lining
- Integrated crossover network (low-pass) with crossover frequency at 200 Hz

Model	SUB-10
Total power rating	500 W
Power rating (RMS)	250 W
Frequency range	40-200 Hz
Sensitivity	92 dB/W/m
Dimensions	300 x 610 x 410 mm
Weight	19.84 kg
Inputs	1 x NEUTRIK SPEAKON,
	speaker terminals



EUL-2/SW

Order No. 0174450



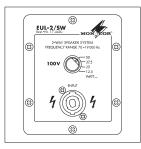
PA speaker system in 100 V line technique

- High-quality cabinet with durable PU coating
- 20 cm (2 x 8") double bass speaker of high power capability and a dyn. 25 mm (1") horn tweeter
- Well-balanced and dynamic sound for speech and music applications
- SPEAKON connection, rotary switch for power selection, stand sleeve
- A subwoofer support is useful for bass reproductions of high requirements (e.g. with EUL-2SUB/SW)
- This speaker can be integrated into any existing or new 100 V system by simply connecting it in parallel, as long as the amplifier features the respective power reserves

Matching intermediate piece for speaker systems PAST-28/SW is available at option.









Model	EUL-2/SW
Power rating (RMS)	50/37.5/25/12.5 W
Frequency range	70-19,000 Hz
Sensitivity	95 dB/W/m
Dimensions	320 x 485 x 250 mm
Weight	8.7 kg
Inputs	1 x SPEAKON

EUL-2SUB/SW

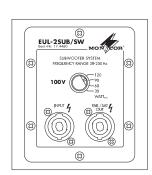
Order No. 0174460



Subwoofer in 100 V line technique

- High-quality cabinet with durable PU coating
- 30 cm (12") bass speaker for a deep and dynamic bass reproduction
- SPEAKON connections (input and sat out/par. out)
- The design and high efficiency perfectly match the EUL-2/SW, but it is also suitable as an addition to many other 100 V systems
- Built-in crossover network (low-pass) allows for an almost unlocatable bass
- Sufficient power capability of the 100 V amplifier must be ensured

Matching intermediate piece for speaker systems PAST-28/SW is available at option.





Model	EUL-2SUB/SW	
Power rating (RMS)	120/90/60/30 W	
Frequency range	38-250 Hz	
Sensitivity	95 dB/W/m	
Dimensions	420 x 430 x 445 mm	
Weight	18.2 kg	
Inputs	1 x SPEAKON IN	
Outpute	1 v SDEAVON par out/cat out	

MONACOR INTERNATIONAL INSTALLATION I 1115

IT-400TW

Order No. 0162580





Weatherproof horn speaker (music horn), 2-way technology

- 100 V line technique with very high tapping power
- Weatherproof and IP66 certified
- Very wideband sound with a distinct bass volume, even at very high volume levels
- 16 cm bass-midrange speaker and 25 mm (1") horn
- Robust plastic housing
- Supplied with mounting bracket and screws made of stainless steel







Model	IT-400TW
Power rating (RMS)	60/30/15/7.5 W
Frequency range	100-20,000 Hz
Sensitivity	98 dB/W/m
Beam angle	H: 100°/V: 60°
Admiss. ambient temp.	-20 °C to +50 °C
Dimensions	420 x 335 x 400 mm
Weight	6.68 kg

IT-400RTW

Order No. 0163350



Weatherproof horn speaker (music horn), 2-way technology

- 100 V line technique with very high tapping power
- Weatherproof and IP66 certified
- Very wideband sound with a distinct bass volume, even at very high volume levels
- 16 cm bass-midrange speaker and 25 mm (1") horn
- Suitable for indoor and outdoor applications
- Due to round design, consistent radiation pattern in the required area, e.g. ceiling suspension in halls
- Robust plastic housing
- Supplied with mounting bracket and screws made of stainless steel

Model	IT-400RTW
Power rating (RMS)	60/30/15/7.5 W
Frequency range	120-20,000 Hz
Sensitivity	101 dB/W/m
Beam angle	H: 90°/V: 90°
Admiss. ambient temp.	-20 °C to +50 °C
Dimensions	Ø 400 mm x 420 mm
Weight	6.5 kg





Professional PA Solutions for Your Project



Your Project is Our Project

IT-350/EN











Weatherproof horn speaker (music horn), 2-way technology and EN 54-24 certification

- 100 V line technique with 4 power taps: 30/15/7.5/3.75 W
- Weatherproof and IP66 certified
- High-quality music reproduction
- 16 cm bass-midrange speaker and 25 mm (1") horn
- Robust light grey ABS plastic housing
- Supplied with mounting bracket and stainless steel screws

Model	IT-350/EN	
Total power rating	30 W	
Power rating (RMS)	30/15/7.5/3.75 W	
Frequency range	100-20,000 Hz	
Sensitivity	101 dB/W/m	
Beam angle	H100°/V60°	
Admiss. ambient temp.	-20 °C to +90 °C	
Dimensions	370 x 250 x 330 mm	
Weight	4.5 kg	



IT-300TW

Order No. 0162230







Weatherproof horn speaker (music horn), 2-way technology

- 100 V line technique with high power taps
- Weatherproof and IP66 certified
- Very wideband sound with a distinct bass volume
- 16 cm bass-midrange speaker and 25 mm (1") horn
- Robust light grey ABS plastic housing
- Supplied with mounting bracket and stainless steel screws

Model	IT-300TW
Power rating (RMS)	30/15/7.5/3.75 W
Frequency range	110-20,000 Hz
Sensitivity	101 dB/W/m
Beam angle	H: 100°/V: 60°
Admiss. ambient temp.	-20 °C to +50 °C
Dimensions	370 x 250 x 300 mm
Weight	5.26 kg



IT-250TW







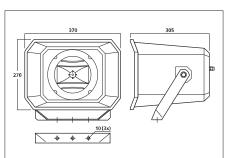




Weatherproof horn speaker (music horn), 2-way technology

- 100 V line technique or 8 Ω operation
- IP66 certified
- High-performance music horn at an attractive price
- 16 cm bass-midrange speaker and 25 mm (1") horn
- ABS plastic housing
- Supplied with mounting bracket

Model	IT-250TW
Power rating (RMS)	50/25/12.5/9/4.5/3.5 W (100 V)
	50 W (8 Ω)
Frequency range	150-15,000 Hz
Sensitivity	97 dB/W/m
Beam angle	H: 100°/V: 60°
Admiss. ambient temp.	-20 °C to +50 °C
Dimensions	370 x 270 x 305 mm
Weight	4.1 kg





IT-100TW



Weatherproof horn speaker (music horn), 2-way technology

- 100 V line technique
- Weatherproof and IP66 certified
- Wideband sound with a distinct bass volume
- 13 cm bass-midrange speaker and 25 mm (1") horn
- Suitable for indoor and outdoor applications
- Robust plastic housing of very low resonance
- Supplied with stainless steel mounting bracket
- 4 power taps, connection via screw terminals

Model	IT-100TW
Power rating (RMS)	30/15/7.5/3.75 W
Frequency range	100-20,000 Hz
Sensitivity	99 dB/W/m
Beam angle	H: 110°/V: 60°
Admiss. ambient temp.	-20 °C to +50 °C
Dimensions	310 x 215 x 330 mm
Weight	4.42 kg



IT-100RTW

Order No. 0163340







Weatherproof horn speaker (music horn), 2-way technology

- 100 V line technique with very high tapping power
- Weatherproof and IP66 certified
- Very wideband sound with a distinct bass volume, even at very high volume levels
- 13 cm bass-midrange speaker and 25 mm (1") horn
- Due to round design, consistent radiation pattern in the required area, e.g. ceiling suspension in halls

Model	IT-100RTW	
Power rating (RMS)	30/15/7.5/3.75 W	
Frequency range	150-20,000 Hz	
Sensitivity	101 dB/W/m	
Beam angle	H: 90°/V: 90°	
Admiss. ambient temp.	-20 °C to +50 °C	
Dimensions	Ø 300 mm x 360 mm	
Weight	4.4 kg	

- Robust plastic housing
- Supplied with mounting bracket and screws made of stainless steel



IT-60

Order No. 0162990











Weatherproof horn speaker, with high power capability.

- 100 V line technique
- Weatherproof and IP66 tested
- Protected against powerful water jets
- Suitable for general indoor and outdoor applications
- Light grey ABS housing (self-extinguishing, complies with standard UL 94V-0)
- Supplied with stainless steel mounting bracket
- Integrated ceramic connection terminal with thermal fuse
- 4 power taps

11-00	
60/30/15/7.5 W	
230-9,000 Hz	
110 dB/W/m	
H: 80°/V: 30°	
-20 °C to +50 °C	
Ø 305 mm x 385 mm	
4 kg	
	60/30/15/7.5 W 230-9,000 Hz 110 dB/W/m H: 80°/V: 30° -20 °C to +50 °C Ø 305 mm x 385 mm



IT-40

Order No. 0161360











Weatherproof horn speaker

- 100 V line technique
- Weatherproof and IP66 tested
- Protected against powerful water jets
- Suitable for general indoor and outdoor applications
- Robust plastic housing
- Mounting bracket and screws made of stainless steel
- 5-step power selector switch

Model	IT-40	
Power rating (RMS)	40/30/20/10/5 W	
Frequency range	180-7,000 Hz	
Sensitivity	113 dB/W/m	
Beam angle	H: 100°/V: 45°	
Admiss. ambient temp.	-20 °C to +50 °C	
Dimensions	400 x 200 x 420 mm	
Weight	3.66 kg	



IT-35



Weatherproof horn speaker

- 100 V line technique
- Weatherproof and IP66 tested
- Protected against powerful water jets
- Suitable for general indoor and outdoor applications
- Robust plastic housing
- Mounting bracket and screws made of stainless steel
- 5-step power selector switch

Model	IT-35
Power rating (RMS)	25/20/15/10/5 W
Frequency range	250-10,000 Hz
Sensitivity	108 dB/W/m
Beam angle	H: 110°/V: 52°
Admiss. ambient temp.	-20 °C to +50 °C
Dimensions	300 x 180 x 315 mm
Weight	2.4 kg



IT-33

Order No. 0162190











Weatherproof horn speaker

- 100 V line technique
- IP54 tested
- White ABS housing (self-extinguishing, complies with standard UL 94V-0)
- Particularly high power capability in relation to its size
- Suitable for general indoor and outdoor applications

Model	IT-33
Power rating (RMS)	25/12.5/6.25 W
Frequency range	500-13,000 Hz
Sensitivity	107 dB/W/m
Beam angle	H: 90°/V: 90°
Admiss. ambient temp.	-20 °C to +50 °C
Dimensions	Ø 130 mm x 175 mm
Weight	1.8 kg

• Integrated high-pass filter for optimising the sound and stability



IT-32EN

Order No. 0160020

IT-15EN Order No. 0160230













Weatherproof horn speakers, with EN 54-24 certification.

- 100 V line technique
- IP66 tested
- Light grey ABS housing (self-extinguishing, complies with the standard UL 94V-0)
- Cable inlet via high-strength cable gland

Model	IT-32EN	IT-15EN
Total power rating	30 W	15 W
Power rating (RMS)	30/15/7.5 W	15/7.5/3.75 W
Frequency range	350-10,000 Hz	350-10,000 Hz
Sensitivity	110 dB/W/m	110 dB/W/m
Beam angle	H: 110°/V: 55°	H: 110°/V: 55°
Admiss. ambient temp.	-25 °C to +70 °C	-25 °C to +70 °C
Dimensions	180 x 120 x 230 mm	180 x 120 x 230 mm
Weight	2.1 kg	2.1 kg

- Integrated high-pass filter for optimising the sound and stability
- Supplied with mounting bracket



IT-30

Order No. 0160670











Weatherproof horn speaker

- 100 V line technique
- Weatherproof and IP66 tested
- Protected against powerful water jets
- Suitable for general indoor and outdoor applications
- Aluminium housing
- Mounting bracket and screws made of stainless steel
- 4-step power selector switch

Model	IT-30
Power rating (RMS)	20/15/10/5 W
Frequency range	250-10,000 Hz
Sensitivity	108 dB/W/m
Beam angle	H: 80°/V: 80°
Admiss. ambient temp.	-20 °C to +50 °C
Dimensions	Ø 265 mm x 310 mm
Weight	2.25 kg



IT-20

Order No. 0160660















Weatherproof horn speaker

- 100 V line technique
- Weatherproof and IP66 tested
- Protected against powerful water jets
- Suitable for general indoor and outdoor applications
- Robust plastic housing
- Mounting bracket and screws made of stainless steel
- 4-step power selector switch

Model	IT-20	
Power rating (RMS)	15/10/5/2.5 W	
Frequency range	275-7,000 Hz	
Sensitivity	106 dB/W/m	
Beam angle	H: 100°/V: 50°	
Admiss. ambient temp.	-20 °C to +50 °C	
Dimensions	250 x 145 x 300 mm	
Weight	1.88 kg	



Speakers Horn Speakers

IT-130

Order No. 0161710



Weatherproof horn speaker

- 100 V line technique
- Weatherproof and IP66 tested
- Protected against powerful water jets
- Power selector switch
- For open-air events, industrial use, in workshops

IT-130	
30/15/10/5/3/1 W	
250-16,000 Hz	
109 dB/W/m	
-20 °C to +50 °C	
290 x 215 x 260 mm	
1.6 kg	
	30/15/10/5/3/1 W 250-16,000 Hz 109 dB/W/m -20 °C to +50 °C 290 x 215 x 260 mm



IT-115

Order No. 0161700









Weatherproof horn speaker

- 100 V line technique
- Weatherproof and IP66 tested
- Protected against powerful water jets
- Power selector switch
- For open-air events, industrial use, in workshops

Model	IT-115	
Power rating (RMS)	15/10/5/3/1 W	
Frequency range	280-12,500 Hz	
Sensitivity	108 dB/W/m	
Admiss. ambient temp.	-20 °C to +50 °C	
Dimensions	225 x 160 x 235 mm	
Weight	1.3 kg	



IT-110

Order No. 0161690











Horn speaker

- 100 V line technique
- Weatherproof and IP66 tested
- Protected against powerful water jets
- Power selector switch
- For open-air events, industrial use, in workshops

Model	IT-110
Power rating (RMS)	10/5/3/1 W
Frequency range	315-12,500 Hz
Sensitivity	105 dB/W/m
Admiss. ambient temp.	-20 °C to +50 °C
Dimensions	175 x 130 x 185 mm
Weight	1.1 kg



NR-254KS

Order No. 0162480













Weatherproof horn speaker

- 4 Ω speaker system
- IP66 tested, protected against powerful water jets
- Especially suitable for voice transmissions
- Robust plastic housing of compact size
- 2-wire connection cable, length: 50 cm
- Mounting bracket and screws made of stainless steel

Model	NR-254KS	
Total power rating	25 W	
Power rating (RMS)	12 W	
Frequency range	800-8,000 Hz	
Sensitivity	107 dB/W/m	
Beam angle	H: 90°/V: 90°	
Admiss. ambient temp.	-20 °C to +50 °C	
Dimensions	106 x 106 x 88 mm	
Weight	1.08 kg	



NR-60KS



Weatherproof horn speaker, with high power capability.

- 16 Ω speaker system
- IP66 tested, protected against powerful water jets
- Suitable for general indoor and outdoor applications
- Robust light grey plastic housing
- Aluminium mounting bracket

Model	NR-60KS
Total power rating	60 W
Power rating (RMS)	30 W
Frequency range	340-10,000 Hz
Sensitivity	103 dB/W/m
Admiss. ambient temp.	-20 °C to +50 °C
Dimensions	Ø 146 mm x 160 mm
Weight	2 kg



NR-40KS

Order No. 0161370









Weatherproof horn speaker

- 16 Ω speaker system
- IP66 tested, protected against powerful water jets
- Suitable for general indoor and outdoor applications
- Robust plastic housing
- Mounting bracket and screws made of stainless steel

Model	NR-40KS
Total power rating	60 W
Power rating (RMS)	30 W
Frequency range	180-7,000 Hz
Sensitivity	113 dB/W/m
Beam angle	H: 110°N: 45°
Admiss. ambient temp.	-20 °C to +50 °C
Dimensions	400 x 200 x 385 mm
Weight	3 kg



NR-35KS

Order No. 0160250







Horn speaker

- Moisture-proof
- ullet 8 Ω speaker system

Model	NR-35KS
Total power rating	40 W
Power rating (RMS)	20 W
Frequency range	300-12,000 Hz
Sensitivity	107 dB/W/m
Beam angle	H: 100°/V: 50°
Admiss. ambient temp.	0-40 °C
Dimensions	280 x 170 x 215 mm
Weight	1.4 kg



NR-33KS

Order No. 0160650











Weatherproof horn speaker

- IP66 tested, protected against powerful water jets
- 8 Ω speaker system
- Suitable for general indoor and outdoor applications
- Robust plastic housing
- Mounting bracket and screws made of stainless steel

Model	NR-33KS
Total power rating	25 W
Power rating (RMS)	12 W
Frequency range	275-7,000 Hz
Sensitivity	106 dB/W/m
Beam angle	H: 100°/V: 50°
Admiss. ambient temp.	-20 °C to +50 °C
Dimensions	250 x 145 x 272 mm
Weight	1.5 kg



MONACOR INTERNATIONAL INSTALLATION 1121

UHC-30



Weatherproof horn speaker

- 8 Ω speaker system
- IP66 tested, protected against powerful water jets
- For open-air events, industrial use, in workshops
- Mounting bracket and screws made of stainless steel

UHC-30	
40 W	
20 W	
230-10,000 Hz	
108 dB/W/m	
H: 75°/V: 75°	
-20 °C to +50 °C	
Ø 310 mm x 285 mm	
1.89 kg	
	40 W 20 W 230-10,000 Hz 108 dB/W/m H: 75°/V: 75° -20 °C to +50 °C Ø 310 mm x 285 mm



NR-25KS

Order No. 0160240







Horn speaker

- Moisture-proof
- ullet 8 Ω speaker system

Model	NR-25KS
Total power rating	30 W
Power rating (RMS)	15 W
Frequency range	350-8,000 Hz
Sensitivity	102 dB/W/m
Admiss. ambient temp.	0-40 °C
Dimensions	200 x 140 x 235 mm
Weight	1.1 kg



NR-24KS

Order No. 0161020







Model	NR-24KS
Total power rating	30 W
Power rating (RMS)	15 W
Frequency range	400-7,000 Hz
Sensitivity	105 dB/W/m
Admiss. ambient temp.	0-40 °C
Dimensions	200 x 150 x 235 mm
Weight	0.9 kg



- Horn speaker • Moisture-proof
- ullet 8 Ω speaker system

NR-22KS
Order No. 0161010











- Moisture-proof
- ullet 8 Ω speaker system

Model	NR-22KS	
Total power rating	15 W	
Power rating (RMS)	8 W	
Frequency range	600-7,000 Hz	
Sensitivity	104 dB/W/m	
Admiss. ambient temp.	0-40 °C	
Dimensions	Ø 135 mm x 165 mm	
Weight	0.427 kg	



NR-20KS

Order No. 0161000



Horn speaker

- Moisture-proof
- ullet 8 Ω speaker system

Model	NR-20KS
Total power rating	10 W
Power rating (RMS)	5W
Frequency range	800-7,000 Hz
Sensitivity	103 dB/W/m
Admiss. ambient temp.	0-40 °C
Dimensions	Ø 90 mm x 105 mm
Weight	0.39 kg



NR-15KS

Order No. 0160220







Horn speaker

- Aluminium version
- Moisture-proof
- ullet 8 Ω speaker system

Model	NR-15KS
Total power rating	15 W
Power rating (RMS)	8W
Frequency range	350-12,000 Hz
Sensitivity	100 dB/W/m
Admiss. ambient temp.	0-40 °C
Dimensions	210 x 150 x 195 mm
Weight	0.923 kg



NR-12KS

Order No. 0160210







Horn speaker

- Aluminium version
- For open-air events, industrial use, in workshops
- Moisture-proof
- ullet 8 Ω speaker system

Model	NR-12KS
Total power rating	12 W
Power rating (RMS)	6 W
Frequency range	350-12,000 Hz
Sensitivity	100 dB/W/m
Admiss. ambient temp.	0-40 °C
Dimensions	Ø 160 mm x 155 mm
Weight	0.85 kg



NR-18KS

Order No. 0160990









Horn speaker

- Moisture-proof
- ullet 8 Ω speaker system

Model	NR-18KS	
Total power rating	10 W	
Power rating (RMS)	5 W	
Frequency range	1,200-7,000 Hz	
Sensitivity	98 dB/W/m	
Admiss. ambient temp.	0-40 °C	
Dimensions	80 x 100 x 60 mm	
Weight	0.37 kg	



DH-10

Order No. 0160010



Horn speaker

- Moisture-proof
- ullet 8 Ω speaker system

Model	DH-10
Total power rating	10 W
Power rating (RMS)	5 W
Frequency range	350-10,000 Hz
Sensitivity	97 dB/W/m
Admiss. ambient temp.	0-40 °C
Dimensions	120 x 130 x 115 mm
Weight	0.52 kg



RUP-5

Order No. 0160280







Horn speaker

- Moisture-proof
- ullet 8 Ω speaker system

Model	RUP-5
Total power rating	10 W
Power rating (RMS)	5 W
Frequency range	400-8,000 Hz
Sensitivity	102 dB/W/m
Beam angle	H: 90°/V: 90°
Admiss. ambient temp.	0-40 °C
Dimensions	Ø 130 mm x 130 mm
Weight	0.415 kg



RUS-5

Order No. 0160290









Horn speaker

- Moisture-proof
- ullet 8 Ω speaker system

Model	RUS-5	
Total power rating	8 W	
Power rating (RMS)	4 W	
Frequency range	400-8,000 Hz	
Sensitivity	102 dB/W/m	
Beam angle	H: 45°/V: 110°	
Admiss. ambient temp.	0-40 °C	
Dimensions	90 x 105 x 125 mm	
Weight	0.417 kg	



Replacement Voice Coils

For horn systems.



Model	Order No.	For
IT-230/VC	0160750	IT-20, IT-30, IT-35, UHC-30, NR-33KS
IT-40/VC	0161380	IT-40, NR-40KS
KU-516/VC	0160730	KU-516
KU-616T/VC	0160720	KU-616T
KU-916T/VC	0161620	KU-916T

KU-916T

Order No. 0161610











Weatherproof horn driver

- 100 V line technique
- Protected against powerful water jets
- Power selector switch
- 3.5 cm (1%") mounting flange
- 60 cm connection cable

Model	KU-916T
Power rating (RMS)	60/50/40/30/20/10 W
Frequency range	160-7,000 Hz
Sensitivity	113 dB/W/m
Admiss. ambient temp.	-20 °C to +50 °C
Dimensions	Ø 150 mm x 158 mm
Weight	2.75 kg



KU-616T

Order No. 0160710









Weatherproof horn driver

- 100 V line technique
- Protected against powerful water jets
- Power selector switch
- 3.5 cm (1%") mounting flange
- 55 cm connection cable

Model	KU-616T	
Power rating (RMS)	40/30/20/10/5 W	
Frequency range	160-6,500 Hz	
Sensitivity	112 dB/W/m	
Admiss. ambient temp.	-20 °C to +50 °C	
Dimensions	Ø 150 mm x 136 mm	
Weight	2.2 kg	



KU-516

Order No. 0160700











Weatherproof horn driver

- Diecast version, IP66
- Protected against powerful water jets
- 3.5 cm (1%") mounting flange

Model	KU-516	
Total power rating	75 W	
Power rating (RMS)	50 W	
Frequency range	160-6,500 Hz	
Sensitivity	113 dB/W/m	
Admiss. ambient temp.	-20 °C to +50 °C	
Dimensions	Ø 125 mm x 100 mm	
Weight	1.9 kg	



MONACOR INTERNATIONAL INSTALLATION 1125

IT-10M

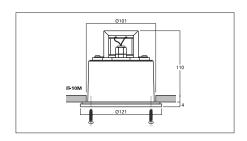
Order No. 0160470



Flush-mount horn speaker (music horn) with full range speaker

- For wall mounting and ceiling installation
- 100 V line technique with 3 power taps
- After installation weatherproof and IP54 certified
- 5 cm (2.5") full range speaker with horn front attachment
- Suitable for general indoor and outdoor applications wherever a high sound pressure level and an excellent sound are required
- ABS plastic housing
- Mounting flange with foam rubber sealing

Model	IT-10M
Power rating (RMS)	10/5/2.5 W
Frequency range	200-15,000 Hz
Sensitivity	98 dB/W/m
Beam angle	H: 100°/V: 100°
Dimensions	120 x 120 x 120 mm
	mounting cutout: Ø 101 mm
Weight	0.75 kg





NR-10M

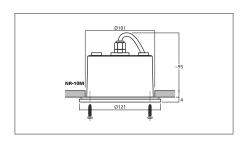
Order No. 0160480



Flush-mount horn speaker (music horn) with full range speaker, 4 Ω

- For wall mounting and ceiling installation
- After installation weatherproof and IP54 certified
- ullet 4 Ω speaker system
- 5 cm (2.5") full range speaker with horn front attachment
- Suitable for general indoor and outdoor applications wherever a high sound pressure level and an excellent sound are required
- ABS plastic housing
- Mounting flange with foam rubber sealing

Model	NR-10M
Total power rating	20 W
Power rating (RMS)	10 W
Frequency range	200-15,000 Hz
Sensitivity	98 dB/W/m
Beam angle	H: 100°/V: 100°
Dimensions	120 x 120 x 120 mm
	mounting cutout: Ø 101 mm
Weight	0.48 kg





ITH-300

Order No. 0163360

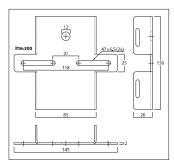
Pole mount set, for PA horn speakers or cameras.

- Suitable for mounting, e.g. IT-130, IT-300TW, IT-40, IT-400TW
- Load capacity: 100 kg (when installed by an expert)
- For pole diameter: up to Ø 300 mm
- Mounting plate and mounting accessories made of V2A steel

Supplied w/o speakers.

Special tools are required for installation. Further information can be obtained from the sales department at MONACOR.

For installation by experts only, as otherwise persons and units will be put at risk.







IMC-300T/EN

Order No. 0163910





High-quality 2-way PA pendant speaker, with 360° sound radiation.

- 100 V line technique: 30/20/10 W
- 2-way coaxial speaker (6.5")
- Elaborate reflector design for a wide and homogeneous omnidirectional radiation
- Excellent sound reproduction due to the attached housing, even down to the bass
- Recommended installation height: approx. 4 m (reflector)
- White lacquered sheet steel housing
- Device is suspended via steel safety ropes and snap

Model	IMC-300T/EN
Power rating (RMS)	30/20/10 W
Frequency range	60-20,000 Hz
Sensitivity	83 dB/W/m
Beam angle	H: 360°N: 160°
Dimensions	Ø 480 mm x 300 mm
Weight	4.5 kg

- Cable inlet via high-strength cable gland (PG11)
- Ceramic terminal



EDL-435/WS

Order No. 0163460



High-quality 2-way PA pendant speaker

- 100 V line technique
- 2-way coaxial system
- High-quality sound for speech and music
- White ABS bass-reflex housing with steel grille
- 5 m connection cable with canopy

Model	EDL-435/WS
Power rating (RMS)	30/20/15/10/5 W
Frequency range	80-20,000 Hz (-10 dB)
	70-20,000 Hz (-20 dB)
Sensitivity	91 dB/W/m
Dimensions	Ø 185 mm x 230 mm
Weight	2.22 kg



EDL-430/WS

Order No. 0162370





- omnidirectional sound radiation. • 100 V line technique
- High-performance full range speaker
- Extensive reflector design
- High speech intelligibility
- White ABS housing
- 150 cm connection cable with canopy

Model	EDL-430/WS	
Power rating (RMS)	20/10/5 W	
Frequency range	80-15,000 Hz	
Sensitivity	92 dB/W/m	
Beam angle	360°	
Dimensions	Ø 250 mm	
Weight	2.3 kg	



EDL-420/WS

Order No. 0161880



Weatherproof PA ball speaker

- 100 V line technique or 8 Ω operation
- White ABS housing (self-extinguishing, complies with standard UL 94V-0)
- Supplied with 480 cm connection cable and canopy

Model	EDL-420/WS
Power rating (RMS)	20/10/5 W
Frequency range	120-20,000 Hz
Sensitivity	94 dB/W/m
Dimensions	Ø 265 mm
Weight	2.3 kg



INSTALLATION **MONACOR INTERNATIONAL**

EDL-416EN/WS



Moisture-proof PA ball speaker, with EN 54-24 certification, 1438-CPR-0535.

- 100 V line technique
- White ABS housing (UL 94HB), UV-resistant and weatherproof
- Moisture-proof speaker cone
- Supplied with 450 cm connection cable and canopy
- Ceramic connection terminal, thermal fuse

Model	EDL-416EN/WS	
Power rating (RMS)	16/8/4 W	
Frequency range	130-18,000 Hz	
Sensitivity	89.9 dB/W/m	
Beam angle	196° (1 kHz)	
	132° (2 kHz)	
	170° (4 kHz)	
Admiss. ambient temp.	-20 °C to +80 °C	
Dimensions	Ø 185 mm x 157 mm	
Weight	1.6 kg	



EDL-412/WS

Order No. 0161860







Weatherproof PA ball speaker

- 100 V line technique or 8 Ω operation
- White ABS housing (self-extinguishing, complies with standard UL 94V-0)
- Supplied with 480 cm connection cable and canopy

Model	EDL-412/WS	
Power rating (RMS)	10/5/2.5 W	
Frequency range	160-20,000 Hz	
Sensitivity	92 dB/W/m	
Dimensions	Ø 184 mm	
Weight	1.7 kg	



RL-1ENABDS

Order No. 0163690





PA A/B sound projector for wall mounting, with

 ${\sf EN}$ 54-24 certification for voice evacuation systems with A/B speaker distribution according to EN 60849.

- 100 V line technique
- 13 cm full range speaker with dual voice coil
- 2 x 100 V transformator with power taps on the cable 6/3/1.5 W
- Connection via 2 x 4-core cable (length: 1.5 m)
- Metal housing with front protective grille
- Supplied with pan/tilt bracket and mounting accessories

RL-1ENABDS
2 x 6/3/1.5 W
80-20,000 Hz
93 dB/W/m
130°
Ø 144 mm x 210 mm
2.3 kg



RL-1EN







PA sound projector for wall mounting, with EN 54-24 certification.

- 100 V line technique
- 13 cm full range speaker
- 100 V transformer with power taps on the cable 6/3/1.5 W
- Connection via 4-core cable (length: 1.5 m)
- Metal housing with front protective grille
- Supplied with pan/tilt bracket and mounting accessories

Model	RL-1EN
Power rating (RMS)	6/3/1.5 W
Frequency range	80-20,000 Hz
Sensitivity	93 dB/W/m
Beam angle	130°
Dimensions	Ø 144 mm x 210 mm
Weight	1.9 kg



EDL-250/WS



Weatherproof PA sound projector

- 100 V line technique
- Protected against powerful water jets
- Weatherproof plastic housing
- Connection cable with 3 power taps
- Movable mounting bracket

Model	EDL-250/WS
Power rating (RMS)	30/15/7.5 W
Frequency range	125-15,000 Hz
Sensitivity	101 dB/W/m
Dimensions	Ø 180 mm x 200 mm
Weight	2.1 kg



EDL-220/WS

Order No. 0161950







Weatherproof PA sound projector

- 100 V line technique
- 2 speakers with polypropylene cone for bilateral radiation
- Splashproof due to plastic housing with rubber seals
- Connection cable with 3 power taps
- Pivoting mounting bracket and screws made of stainless steel

Model	EDL-220/WS
Power rating (RMS)	20/10/5 W
Frequency range	120-20,000 Hz
Sensitivity	94 dB/W/m
Dimensions	Ø 180 mm x 251 mm
Weight	2.76 kg



EDL-110/WS

Order No. 0161930







Weatherproof PA sound projector

- 100 V line technique
- 1 speaker with polypropylene cone
- Splashproof due to plastic housing with rubber seals and high-strength cable gland
- Connection cable with 3 power taps
- Pivoting mounting bracket and screws made of stainless steel

Model	EDL-110/WS
Power rating (RMS)	10/5/2.5 W
Frequency range	120-20,000 Hz
Sensitivity	94 dB/W/m
Dimensions	Ø 180 mm x 270 mm
Weight	2 kg



EDL-255/WS

Order No. 0160860





PA sound projector

- 100 V line technique or 8 Ω operation
- 6-step power selector switch for 15/8/4/2 W/off or 8Ω operation
- White plastic housing with pivoting mounting bracket

Model	EDL-255/WS
Power rating (RMS)	15/8/4/2 W
Frequency range	100-15,000 Hz
Sensitivity	92 dB/W/m
Dimensions	Ø 180 mm x 280 mm
Weight	2.59 kg



DA-P20-130/T



Weatherproof PA sound projector, for wall mounting and with EN 54-24 certification.

- 100 V line technique
- 13 cm waterproof full range speaker
- 100 V transformer with power taps 20/10/5/2.5 W
- Connection via ceramic terminal and thermal fuse in the junction box (cable length: 1 m)
- ABS plastic housing with front protective grille
- Robust aluminium mounting bracket

Model	DA-P20-130/T
Power rating (RMS)	20/10/5/2.5 W
Frequency range	150-20,000 Hz
Sensitivity	90 dB/W/m
Admiss. ambient temp.	-20 °C to +90 °C
Dimensions	Ø 145 mm x 222 mm
Weight	1.367 kg



DA-10-260/T







Weatherproof PA sound projector, for wall mounting and with EN 54-24 certification.

- 100 V line technique
- 2 x 13 cm full range speaker for bi-directional radiation
- 100 V transformer with power taps 10/6/3/1.5 W
- Connection via ceramic terminals with thermal fuse in the mounting base

DA-10-260/T
10/6/3/1.5 W
120-17,000 Hz
93 dB/W/m
150°
-20 °C to +90 °C
166 x 197 x 161 mm
2.31 kg

- Robust plastic-coated aluminium housing with front protective grille
- Robust vandal-resistant aluminium mounting base



AES-7

Order No. 0131100



Extension speaker, 5 W, 6 Ω

- 4 Ω or 8 Ω operation
- Black plastic housing
- Mounting bracket
- 1.70 m connection cable with 3.5 mm plug
- Frequency range: 300-15,000 Hz • Dimensions: 130 x 65 x 58 mm
- Weight: 330 g



AES-6

Order No. 0132300



Extension speaker, 3 W, 8 Ω

- Black plastic housing
- Moisture-proof due to speaker with solid plastic cone
- Mounting bracket
- 1.70 m connection cable with 3.5 mm plug
- Frequency range: 300-15,000 Hz • Dimensions: 80 x 75 x 45 mm
- Weight: 200 g



AES-5

Order No. 0130020





- Compact, moisture-proof version
- Extra robust
- Optimised voice reproduction
- Supplied with 2 m connection cable and 3.5 mm mono plug
- Frequency range: 300-8,000 Hz



RTX-4

Order No. 025963



Bluetooth audio transceiver

- Switchable between transmitting mode and receiving mode
- Volume control via connected devices (passive operation)
- Supports aptX and AAC audio codecs for optimum sound
- Supports aptX Low Latency for low-latency transmission
- Automatic pairing

Model	RTX-4
Frequency range	20-20,000 Hz
Bluetooth	4.1, Class 2
Operating range	≤ 10 m
Profiles	A2DP
Codecs	SBC, MP3, aptX, aptX Low Latency,
	AAC
Power supply	via micro USB
Dimensions	104 x 20 x 24 mm
Weight	43 g
Connections	2 x Toslink, optical/digital
	2 x 3.5 mm stereo jack, analogue
	1 x micro USB



WSA-2

Order No. 0255790



Bluetooth audio receiver

- Multipoint Bluetooth (simultaneous pairing of 2 units)
- Scope of delivery: wireless audio streamer, plug-in power supply, audio cable RCA to 3.5 mm stereo plug

Model	WSA-2
Bluetooth	version 3.0, class 2
Operating range	10 m (typ.)
	20 m (clear view)
Profiles	A2DP
Power supply	via encl. power supply
Dimensions	50 x 24 x 56 mm
Weight	33 g
Connections	Outputs:
	1 x RCA L/R
	1 x 3.5 mm jack, stereo



WSA-10BT

Order No. 0255800



Bluetooth audio receiver, for playing tracks from portable audio players directly on your audio system.

- Audio streaming directly from any Bluetooth device
- Supports aptX for an improved audio quality
- Autopairing
- Up to 10 paired devices can be stored
- Optical and coaxial digital output, analogue line level output

Model	M2V-10R1
Frequency range	20-20,000 Hz
THD	0.05%
Channel separation	45 dB
Bluetooth	4.0, class 2
Operating range	10 m (typ.)
	20 m (clear view)
Profiles	A2DP
Power supply	via encl. power supply
Dimensions	91 x 25 x 57 mm
Weight	60 g
Connections	Outputs:
	1 x Toslink, optical/digital
	1 x RCA, digital
	1 x 3.5 mm stereo jack, analogue



WSA-20BT

Order No. 0257130



Bluetooth audio receiver, for playing music tracks from portable audio players directly on your audio

- Audio streaming directly from any Bluetooth device
- Analogue line level output via 6.3 mm jacks L/R
- LED for status indication
- Integrated magnets for attaching it e.g. to a device housing

Model	WSA-20BT
Frequency range	20-20,000 Hz
THD	≤ 0.01%
Channel separation	≥ 75 dB
Bluetooth	Bluetooth V4.0,
	class 2
Operating range	≤ 10 m
Profiles	HFP, HSP, A2DP, AVRCP, DI
Power supply	via encl. power supply
Dimensions	116 x 35 x 86 mm
Weight	117 g
Connections	Outputs:
	1 x 6.3 mm stereo jack L/R,
	analogue



WSA-50WIFI

Order No. 0257160



WLAN audio receiver,

for audio streaming from your smartphone, tablet PC, stationary PC or Mac. The device receives audio signals via network and then transmits them to a stereo system or an active speaker via cable.

- · Audio streaming directly from any device
- Operating modes: Access Point (AP) or Station (STA)
- WLAN standard: IEEE802.11a/b/g/n
- DLNA, AirPlay
- File formats: e.g. MP3, FLAC, WAV, APE, WMA, AAC
- Data transmission rate: up to 7 Mbps
- Integrated browser
- Free app available, e.g. iMediaShare
- LED status indication
- Volume level control
- Analogue line level output via 6.3 mm jacks L/R and 3-pole XLR L/R

Model	WSA-50WIFI
Frequency range	20-20,000 Hz
THD	· · · · · · · · · · · · · · · · · · ·
	≤ 0.1%
Channel separation	≥ 90 dB
Operating range	> 20 m (AP)
	> 50 m (STA)
Power supply	via encl. power supply
Dimensions	130 x 54 x 130 mm
Weight	516 g
Connections	Outputs:
	1 x 6.3 mm stereo jack L/R, analogue
	1 x 3-pole XLR L/R, analogue
Other features	DLNA, AirPlay, HTTP

- Metal housing
- Power is provided via enclosed plug-in power supply



WSA-24T

Order No. 0257150

Wireless stereo transmitter, 2.4 GHz, for audio streaming.

- Matching the receiver WSA-24R
- Stereo/mono selector switch
- LED for indicating status and peak
- Interference-free operation due to FHSS technology (Frequency Hopping Spread Spectrum)
- \bullet Analogue line level input via 6.3 mm jacks L/R and 3-pole XLR L/R
- Metal housing
- Power is provided via enclosed plug-in power supply

Model	WSA-24T
Frequency range	20-20,000 Hz
THD	< 0.3%
Channel separation	≥ 90 dB
Operating range	> 30 m with clear view
Power supply	via encl. power supply
Dimensions	130 x 54 x 130 mm
Weight	470 g
Connections	Inputs:
	1 x 6.3 mm stereo jack L/R, analogue
	1 x 3-pole XLR L/R, analogue
Other features	2.4 GHz, 25 channels,
	latency: 18 ms



WSA-24R

Order No. 0257140

Wireless stereo receiver, 2.4 GHz, for audio streaming.

- Matching the transmitter WSA-24T
- Interference-free operation due to FHSS technology (Frequency Hopping Spread Spectrum)
- Analogue line level output via 6.3 mm jacks L/R
- Plastic housing
- Power is provided via enclosed plug-in power supply

Model	WSA-24R
Frequency range	20-20,000 Hz
THD	< 0.3%
Channel separation	≥ 90 dB
Power supply	via encl. power supply
Dimensions	116 x 35 x 86 mm
Weight	118 g
Connections	Outputs:
	1 x 6.3 mm stereo jack L/R, analogue
Other features	2.4 GHz, 25 channels,
	latency: 18 ms



FLY-16T

Order No. 0259580

16-channel wireless PA audio transmitter, with UHF PLL technology.

- For analogue wireless transmission of line audio signals in PA systems
- Frequency range: 823-832 MHz
- 16 pre-programmed channels, selectable
- Up to 8 intermodulation-free channels
- Indication for channel and battery status
- Supplied with USB cable

Model	FLY-16T
Description	16-channel wireless PA audio
	transmitter
Carrier frequency range	823-832 MHz
Audio frequency range	30-17,000 Hz
THD	0.3%
Admiss. ambient temp.	0-40 °C
Transmitting power	10 mW
Operating range	approx. 90 m
Power supply transmitter	1 x 1.5 V batt. AA size,
	= 5 V/150 mA via micro USB jack
Dimensions transmitter	22 x 23 x 116 mm
Weight transmitter	54 g
Connections transmitter	3-pole XLR jack



There are restrictions or requirements within the EU! Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!

FLY-16R

Order No. 0259570

16-channel wireless PA audio receiver, with UHF PLL technology.

- For analogue wireless transmission of line audio signals in PA systems
- Frequency range: 823-832 MHz
- 16 pre-programmed channels, selectable
- Up to 8 intermodulation-free channels
- Multiple receivers FLY-16R can be operated via one transmitter FLY-16T
- Indication for channel and battery status
- Supplied with USB cable

Model	FLY-16R
Description	16-channel wireless PA audio
	receiver
Carrier frequency range	823-832 MHz
Audio frequency range	30-17,000 Hz
THD	0.3%
Admiss. ambient temp.	0-40 °C
Power supply receiver	1 x 1.5 V batt. AA size,
	= 5 V/150 mA via micro USB jack
Dimensions receiver	22 x 23 x 102 mm
Weight receiver	25 g
Connections receiver	3-pole XLR plug



There are restrictions or requirements within the EU! Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



MONACOR INTERNATIONAL INSTALLATION 1133

Audio over IP with Dante® Interface

Nowadays, audio signals are conveniently transmitted via Ethernet and Internet. Audio network technology or Audio over IP solutions show their strengths particularly when transmitting audio data over greater distances. New possibilities can now be realised due to a decentralisation of the PA technology. Thus, it is possible to implement multi-zone applications at public places, airports, railway stations or conference centres.

With the systems from MONACOR, audio streaming is also possible without any problems. Thanks to the new DT series, Audio over IP solutions with Dante® interfaces can now conveniently be implemented at a very attractive price. Taking centre stage is the new speaker WALL-05DT for fixed installations in shops, hotels, restaurants and bars, schools or indoor sports facilities.

With a classic design and state-of-the-art components, this speaker system provides an excellent sound for any application. Installation and setup ensure maximum efficiency.

The Dante® standard and an additional range of DT products allow almost unlimited options for application. Audinate's Dante® is the trendsetting network technology for digital audio transmission which allows to simultaneously transmit several digital audio signals. It is possible to transmit uncompressed and synchronised audio signals with virtually no latency. Thus, the Dante® technology is perfectly suited for live events, recording, broadcasting or installations.

The benefits of a standard IT network for audio

transmissions are obvious: the technology allows for a high level of flexibility when planning and implementing a project. It is possible to reduce the costs for cabling significantly. Instead of using heavy and expensive analogue cables or multicore cables, it is possible to apply cost-effective Ethernet cables. Due to logical connections instead of physical ones, it is possible to change the connections with a single click of the mouse button. Several different devices within the same network are able to receive one channel as a carrier of the audio signal.

WALL-05DT

Order No. 0132390











Active speaker with integrated Dante® module

- DSP-controlled 20 W amplifier
- 2-way system
- 13 cm (5") bass-midrange speaker and 13 mm (½") tweeter
- Function control via app
- Mounting bracket for pivoting and tilting
- Power supply via PoE (Power over Ethernet) or 12 V power supply, available at option

Model	WALL-05DT
Power rating (RMS)	20 W
Frequency range	62-20,000 Hz
Sensitivity	89 dB/W/m
Power supply	PoE or
	12 V power supply (not supplied)
Dimensions	163 x 252 x 165 mm
Weight	1.95 kg
Inputs	1 x RJ45 (Dante [®] in)
Outputs	1 x RJ45 (feed-through output)

System requirements Dante®: Windows* 7/8.1/10 or MacOS 10.9.5/10.10.5/10.11





The brand Dante® as well as the Dante® software which may have been integrated into these products are licenced by Audinate Pty Ltd.

IT-400DT

Order No. 0163870















Weatherproof active horn speaker (music horn), 2-way technology

- With integrated Dante® module and DSP
- DSP-controlled 20 W amplifier
- Power supply via PoE (Power over Ethernet)
- Weatherproof and IP66 certified
- Very wideband sound with a distinct bass volume, even at very high volume levels
- 16 cm bass-midrange speaker and 25 mm (1") horn
- Robust plastic housing
- Supplied with mounting bracket and screws made of stainless steel

Model	IT-400DT
Power rating (RMS)	20 W
Frequency range	100-20,000 Hz
Sensitivity	98 dB/W/m
Beam angle	H: 100°/V: 60°
Admiss. ambient temp.	-20 °C to +50 °C
Power supply	PoE
Dimensions	420 x 335 x 400 mm
Weight	6.12 kg
Inputs	1 x RJ45

System requirements Dante®: Windows* 7/8.1/10 or MacOS 10.9.5/10.10.5/10.11



ETS-630DT



Active PA column speaker, with integrated Dante®

- 30 W class D amplifier
- 6 x 7.6 cm (3") full range speaker
- Decoding: 16/24/32 bits
- Sampling rates: 44.1/48/88.2/96 kHz
- PoE (Power over Ethernet)
- 2 x M12 threaded bushing
- Metal cabinet with white metal front grille
- Supplied with mounting bracket

Model	ETS-630DT	
Power rating (RMS)	30 W	
Frequency range	120-18,000 Hz	
Sensitivity	95 dB/W/m	
Beam angle	H: 120°/V: 40°	
Power supply	PoE	
Dimensions	95 x 610 x 120 mm	
Weight	5.57 kg	
Inputs	RJ45	

System requirements Dante®: Windows* 7/8.1/10 or MacOS 10.9.5/10.10.5/10.11

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EDL-80DT

Order No. 0163480



Active 2-way flush-mount ceiling speaker, with integrated Dante® module.

- 30 W amplifier
- 20 cm (8") bass speaker with glass fibre cone, 2.5 cm
 (1") dome tweeter
- Decoding: 16/24/32 bits
- Sampling rates: 44.1/48/88.2/96 kHz
- Power supply via PoE (Power over Ethernet)
- For a ceiling thickness up to 4 cm
- Mounting cutout: Ø 240 mm
- Mounting depth: 225 mm incl. space requirement for network connection

Model	EDL-80DT
Power rating (RMS)	30 W
Frequency range	100-20,000 Hz
Sensitivity	93 dB/W/m
Beam angle	100°
Power supply	PoE via RJ45
Dimensions	Ø 272 mm x 187 mm
Weight	2.7 kg
Inputs	RJ45

System requirements Dante®: Windows* 7/8.1/10 or MacOS 10.9.5/10.10.5/10.11

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ECM-300DT

Order No. 0236910



PA desktop microphone (push-to-talk) with integrated Dante® module

- Electret, hypercardioid polar pattern
- Selectable operating modes: push-to-mute (PTM), push-to-talk (PTT), on/off, off/on
- Low cut switch
- Switchable attentuation: -10/-20/-30 dB
- Encoding: 16/24/32 bits
- Sampling rates: 44.1/48/88.2/96 kHz
- RJ45 jack for connection to a Dante® network
- Power supply via PoE (Power over Ethernet)

System requirements Dante®: Windows* 7/8.1/10 or

Model	ECM-300DT
Polar pattern	hypercardiod
System	electret
Audio frequency range	50-16,000 Hz
Nominal impedance	250 Ω
Sensitivity	10 mV/Pa
S/N ratio	139 dB
Power supply	PoE
Gooseneck length	310 mm
Dimensions	90 x 40 x 130 mm (console
	housing)
Weight	876 g
Connection	RJ45

MacOS 10.9.5/10.10.5/10.11

The brand Dante® as well as the Dante® software which may have been integrated into these products are licenced by Audinate Pty Ltd.



Shuttle computer with ROSI BMS software

- Control and setting up of individual playlists via ROSI BMS software
- Audio streaming in MP3 format with CD quality (44.1 kHz)
- Dante® Virtual Soundcard for digital audio transmission via Dante® network
- Dante® devices can be assigned via intuitive software
- Shuttle PC (touch screen monitor and computer in one housing) with 1.4 GHz CPU, 4 GB RAM, 120 GB SSD hard disk, Windows 10 Home, WLAN, webcam

Any GEMA fees have to be paid separately (at a reduced rate).

The brand Dante® as well as the Dante® software which may have been integrated into these products are licenced by Audinate Pty Ltd.





BMS-ZONE1

Order No. 017616



Shuttle computer with ROSI BMS software, 1 channel, 650 tracks, including Dante® Virtual Soundcard licence

BMS-ZONE2

Order No. 0176170



Shuttle computer with ROSI BMS software, 2 channels, 1,300 tracks, including Dante® Virtual Soundcard licence

BMS-ZONE3

Order No. 0176180



Shuttle computer with ROSI BMS software, 3 channels, 1,950 tracks, including Dante® Virtual Soundcard licence

BMS-ZONE4

Order No. 0176190



Shuttle computer with ROSI BMS software, 4 channels, 2,600 tracks, including Dante® Virtual Soundcard licence

INSTALLATION I 135

PA-900DT

Order No. 0176080



Mono PA mixing amplifier with integrated Dante® module

- 1 x 120 W
- Silent operation due to fanless cooling concept
- 3 balanced mic/line inputs
- Dante® input
- Mic 1 with priority circuit and automatic talkover
- Additional connection for desktop microphone via screw terminal
- 1 aux input
- Speaker outputs via screw terminals
- Line output
- Insert facility, e.g. for effect units, equalizers, feedback controllers
- Input and output level controls
- 2-way tone control for the output
- 20 V phantom power for each microphone input, can be activated individually

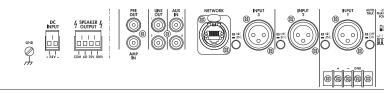


- Mains operation or 24 V emergency power operation
- Removable mounting brackets

System requirements Dante®: Windows* 7/8.1/10 or MacOS 10.9.5/10.10.5/10.11

The brand Dante® as well as the Dante® software which may have been integrated into these products are licenced by Audinate Pty Ltd.

PA-900DT
160 W
120 W
120 W
3 mV (mic),
200 mV (line),
140 mV (aux)
50-15,000 Hz
± 10 dB/100 Hz
± 10 dB/10 kHz
> 80 dB
< 0.5%
~ 230 V/50 Hz/300 VA,
24 V/9 A
482 x 88 x 275 mm, 2 RS
9.9 kg
3 x XLR (mic/line),
1 x RCA L/R (aux),
1 x RJ45 (Dante [®]),
screw terminals (speakers)



AKB-160DT





PA amplifier module with integrated Dante® module

- 1 x 40 W
- 100 V output
- Silent operation due to fanless cooling concept
- Dante® input
- Speaker output via spring-loaded terminals
- Metal housing with mounting brackets

System requirements Dante®: Windows* 7/8.1/10 or MacOS 10.9.5/10.10.5/10.11

Model	AKB-160DT
Peak output power	60 W
Power rating at 100 V	40 W
Inputs	network
Frequency range	17-20,000 Hz
S/N ratio	> 80 dB
THD	< 1%
Power supply	~ 230 V/50 Hz/75 VA
Dimensions	213 x 55 x 238 mm
Weight	3.2 kg
Connections	1 x RJ45 (Dante®)

The brand Dante® as well as the Dante® software which may have been integrated into these products are licenced by Audinate Pty Ltd.



AKB-30DT/DSP

Order No. 0176770



Class D mono mixing amplifier with integrated Dante® module and DSP technology

- 2 x mono 15 W/4-8 Ω
- Silent operation due to fanless cooling concept
- DSP can be controlled via MONACOR DSP software or via app
- Dante® input and feed-through output
- Speaker outputs via plug-in screw terminals
- Metal housing with mounting brackets
- Power is provided via PoE (Power over Ethernet) or optional 12 V power supply

System requirements Dante®: Windows* 7/8.1/10 or MacOS 10.9.5/10.10.5/10.11

Model	AKB-30DT/DSP
Power rating at 4 Ω	2 x 15 W
Power rating at 8 Ω	2 x 8.5 W
Output impedance	4-8 Ω
Inputs	Dante [®]
Frequency range	20-20,000 Hz
Equalizer bass	via DSP
Equalizer midrange	via DSP
Equalizer treble	via DSP
S/N ratio	80 dB
THD	< 0.1%
Power supply	PoE or
	12 V power supply, 3 A (not
	supplied)
Dimensions	130 x 37 x 141 mm
Weight	0.6 kg
Connections	1 x RJ45 (Dante [®] in)
	1 x RJ45 (feed-through output)
	2 x plug-in screw terminals
	(speakers)



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DRM-884

Order No. 0176940



Audio matrix router

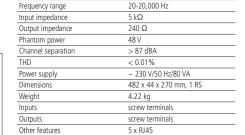
- 8 analogue inputs and 8 analogue outputs
- 4 digital inputs and 4 digital outputs for the extensions DRM-884RC, DRM-884IOP and DRM-884VAP
- An additional 8 digital inputs and 8 digital outputs via Dante® module DRM-884DTM, available at option
- DSP for inputs and outputs, control via software
- Integrated auto mixer, feedback controller and ducker
- Predefined types of filters 6-48 dB/oct. (Butterworth, Bessel, Linkwitz-Riley)
- Up to 2 zone paging microphones DRM-884RC can be connected



Model

- Wall modules DRM-884IOP, DRM-884VAP and DRM-884VP can be connected as extensions
- Link function for several audio matrix routers DRM-884
- LCD for showing device information
- LED status indication
- LED indication for clip and signal per input and output
- 482 mm (19") rack installation

System requirements: Windows* 7/8/10



DRM-884

DRM-884DTM

Order No. 0176950



Dante® module, for inserting audio matrix router DRM-884 into a Dante® network.

- Audio transmission via Ethernet using Dante® protocol
- 8 digital inputs and 8 digital outputs
- Easy signal control via network technology
- Mini PCI plug-in board
- Connections: 2 x RJ45

System requirements: Windows* 7/8/10 or MacOS X



The brand Dante® as well as the Dante® software which may have been integrated into these products are licenced by Audinate Pty Ltd.

DSM-48DT

Order No. 0257790













Digital speaker management system, with Dante® module.

- 4 analogue inputs and 8 analogue outputs (XLR, balanced)
- AES/EBU digital input, stereo
- 2 Dante® channels
- 64-bit DSP, sampling rate: 96 kHz
- Dynamic range: > 118 dB
- Latency: 0.64 ms
- Routing via fader for user-defined routing of the inputs to the outputs
- Audio transmission by means of Ethernet via Dante®
- Graphic user interface, PC editing software (devices will be identified automatically)
- 80 user presets can be stored
- Remote control via USB or TCP/IP LAN
- Dot matrix display with 2 x 16 characters
- VU meter with 4 LEDs for each channel, level display and peak
- 482 mm (19") rack installation, 1 RS

Input (data for each channel)

• Gain control: -48 dB to +12 dB





- Delay to be switched between time (ms) and distance (m): 2,000 ms max. in steps of 10 µsec or 686 m max. in steps of 3.4 mm
- Limiter threshold: from -48 dBu to +24 dBu
- Compressor release time: 10 dB/s to 100 dB/s
- Mute

Output (data for each channel)

- Gain control: -48 dB to +12 dB
- 10 parametric equalizers with 8 types of filters each
- 2 crossover networks with Butterworth, Linkwitz-Riley and Bessel filters as well as individually created types of filters from 6 to 24 dB/oct
- Delay to be switched between time (ms) and distance (m): 2,000 ms max. in steps of 10 µsec or 686 m max. in steps of 3.4 mm

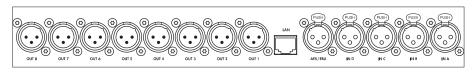


- Limiter threshold: from -48 dBu to +24 dBu
- Compressor release time: 10 dB/s to 100 dB/s
- Mute
- Routing mix for level adjustments via routing fader
- Selectable phase (invert, 180°)

System requirements Dante®: Windows* 7/8.1/10 or MacOS 10.9.5/10.10.5/10.11

The brand Dante® as well as the Dante® software which may have been integrated into these products are licenced by Audinate Pty Ltd.

Model	DSM-48DT
Frequency range	10-40,000 Hz
Input signal	11 V max.
Output signal	4 V max.
S/N ratio	> 110 dB
THD	< 0.005%
Power supply	~ 230 V/50 Hz/15 VA
Dimensions	482 x 44 x 185 mm, 1 RS
Weight	2.3 kg
Inputs	4 x XLR, bal.
	1 x AES/EBU, stereo
	1 x RJ45 (LAN)
Outputs	8 x XLR, bal.
Other features	USB, LAN



DADC-144DT

Order No. 0257910



4-channel Dante® transceiver

- 4 analogue XLR audio inputs
- 4 analogue XLR audio outputs
- 4-channel Dante® input/output (EtherCon/RJ45)
- Analogue input and output levels can be adjusted individually via recessed potentiometers
- 48 V phantom power can be activated as required for each analogue input
- Mute function for each analogue output
- Dante[®] sources and Dante[®] receiver can be combined via software



• Encoding/decoding: 16/24/32 bits

• Sampling rates: 44.1/48/88.2/96 kHz

• Frequency range: 20-20,000 Hz

• LED display for indicating signal, peak, network link, network act and power

• Metal housing

• 482 mm (19") rack installation, 1 RS

The brand Dante® as well as the Dante® software which may have been integrated into these products are licenced by Audinate Pty Ltd.

Model	DADC-144DT
Frequency range	20-20,000 Hz
Input signal	2.3 V max.
Input sensitivity	5.7 mV-2.3 V
Gain	0.2-5.2x
Phantom power	48 V
S/N ratio	> 90 dB
THD	< 0.005%
Power supply	230 V/50 Hz/15 VA
Dimensions	482 x 44.5 x 238 mm, 1 RS
Weight	2.9 kg

9 CH4 8 CH2 8 CH2 8 CH1











Order No. 0257890



Dante® I/O box, for converting analogue audio signals into Dante® streams.

- 2 x microphone/line input (XLR, bal.)
- 1 x aux input (3.5 mm stereo jack)
- 1 x Dante® output (EtherCon/RJ45)
- 1 x monitor output (3.5 mm stereo jack) with 56 dB crosstalk attenuation to the input signal
- Gain adjustable via recessed potentiometer (0-60 dB)
- Individually switchable 12 V phantom power for the inputs
- Encoding/decoding: 16/24/32 bits
- Sampling rates: 44.1/48/88.2/96 kHz
- Frequency range: 20-20,000 Hz
- LED indication for level control, PoE, external power supply and link
- Metal housing



- Power is provided via PoE or optional power supply
- Dimensions: 81 x 45 x 153 mm
- Weight: 400 g

System requirements Dante®: Windows* 7/8.1/10 or MacOS 10.9.5/10.10.5/10.11

The brand Dante® as well as the Dante® software which may have been integrated into these products are licenced by Audinate Pty Ltd.

DTRA-2

Order No. 0257880



Dante® I/O box, for converting Dante® streams into analogue audio signals.

- 1 x Dante® input (EtherCon/RJ45)
- 1 x aux input (3.5 mm stereo jack)
- 2 x audio output (XLR, bal.)
- 1 x monitor output (3.5 mm stereo jack) with 60 dB crosstalk attenuation to the input channel
- Output adjustable via recessed potentiometer (0-15 dBu)
- Individually switchable noise generator for the outputs
- Encoding/decoding: 16/24/32 bits
- Sampling rates: 44.1/48/88.2/96 kHz
- Frequency range: 20-20,000 Hz
- LED indication for level control, PoE, external power supply and link
- Metal housing
- Power is provided via PoE or optional power supply

• Dimensions: 81 x 45 x 153 mm

• Weight: 400 g

System requirements Dante®: Windows* 7/8.1/10 or MacOS 10.9.5/10.10.5/10.11

The brand Dante® as well as the Dante® software which may have been integrated into these products are licenced by Audinate Pty Ltd.

TPE-TG80G

Order No. 0069200



Gigabit Power over Ethernet switch

- 8 ports (RJ45) with 10/100/1,000 Mbps each, 8 PoE/PoE+ ports
- Bandwidth: 16 Gbps
- Power per port: 30 W (PoE+),
 15.4 W (PoE)
- Total power of PoE: 105 W
- Compatible with standards IEEE802.3 10BaseT, IEEE802.3u 100BaseTX, IEEE802.3ab 1000BaseT, IEEE802.3at, IEEE802.3af, IEEE802.3x, IEEE802.3az
- Metal housing
- Power is provided via enclosed power supply



- Admissible ambient temperature: 0-40 °C
- Dimensions: 142 x 30 x 95 mm
- Weight: 400 g





Gigabit Power over Ethernet switch

- 8 ports (RJ45) with 10/100/1,000 Mbps each, 4 of which PoE/PoE+ ports
- Bandwidth: 16 Gbps
- Power per port: 30 W (PoE+, 2 ports max.), 15.4 W (PoE, 4 ports max.)
- Total power of PoE: 60 W
- Compatible with standards IEEE802.3 10BaseT, IEEE802.3u 100BaseTX, IEEE802.3ab 1000BaseT, IEEE802.3at, IEEE802.3af, IEEE802.3x, IEEE802.3az
- Metal housing
- Power is provided via enclosed power supply



- Admissible ambient temperature: 0-40 °C
- Dimensions: 142 x 30 x 95 mm
- Weight: 380 g

ADP-DAI-1X0

Order No. 0259650

Dante® AVIO analogue input adapter (1-channel)

- For connecting analogue audio line level devices (e.g. mixer) to a Dante® audio network
- Adjustable signal level: +24/+4/0 dBu, 0/-10 dBV (via Dante® controller)
- Frequency range: 20-20,000 Hz
- Impedance: 20 kΩ (bal.), 10 k Ω (unbal.)
- Dynamic range: > 100 dB
- S/N ratio: > 100 dB



• THD: < 0.01%

• THD: < 0.01%

24 bits

• Sampling rates: 44.1/48/96 kHz,

• Connections: 1 x RJ45, 1 x XLR plug

- Sampling rates: 44.1/48/96 kHz, 24 bits
- Connections: 1 x RJ45, 1 x XLR inline jack

ADP-DAI-2X0

Order No. 0259660

Dante® AVIO analogue input adapter (2-channel)

- For connecting analogue audio line level devices (e.g. mixer) to a Dante® audio network
- Adjustable signal level: +24/+4/0 dBu, 0/-10 dBV (via Dante® controller)
- Frequency range: 20-20,000 Hz
- Impedance: 20 kΩ (bal.), 10 k Ω (unbal.)
- Dynamic range: > 100 dB
- S/N ratio: > 100 dB





- THD: < 0.01%
- Sampling rates: 44.1/48/96 kHz, 24 bits
- Connections: 1 x RJ45, 2 x XLR inline jack

ADP-DAO-0X1

Order No. 0259670

(1-channel)

△Dante Dante® analogue output adapter

- For connecting analogue audio line level devices (e.g. active speakers) to a Dante® audio network
- Adjustable signal level: +18/+4/0 dBu, 0/-10 dBV (via Dante® controller)
- Frequency range: 20-20,000 Hz
- Impedance: 150 k Ω (bal.), 75 k Ω (unbal.)
- Dynamic range: > 100 dB
- S/N ratio: > 100 dB



Order No. 0259680

△Dante[®]

Dante® analogue output adapter (2-channel)

- For connecting analogue audio line level devices (e.g. active speakers) to a Dante® audio network
- Adjustable signal level: +18/+4/0 dBu, 0/-10 dBV (via Dante® controller)
- Frequency range: 20-20,000 Hz
- Impedance: 150 kΩ (bal.), 75 k Ω (unbal.)
- Dynamic range: > 100 dB

ADP-AES3-2X2

• S/N ratio: > 100 dB





- THD: < 0.01%
- Sampling rates: 44.1/48/96 kHz, 24 bits
- Connections: 1 x RJ45, 2 x XLR plug

ADP-USB-2X2

Order No. 0259690



Dante® AVIO USB adapter

- For connecting a computer to a Dante[®] audio network
- 2-channel recording/reproduction
- Sampling rate: 48 kHz, 24 bits
- Compatible with Windows, Mac OS, iOS and Android devices, no drivers required
- Connections: 1 x RJ45, 1 x USB Type-A



Order No. 0259640 Dante® AVIO AES3/EBU adapter

• For connecting analogue devices with AES3/EBU interface to a Dante® audio network

• Impedance: 110 Ω (bal.)

• S/N ratio: > 135 dB

• Sampling rates: 44.1/48/96 kHz, 24 bits

• Connections: 1 x RJ45, 1 x XLR plug, 1 x XLR inline jack



ADP-BT-2X1

Order No. 1000155



Dante® AVIO Bluetooth adapter

- For connecting a Bluetooth device to a Dante® audio network
- 2-channel recording/playback
- Sampling rate: 48 kHz, 24 bits
- Bluetooth version 5.0 A2DP (AptX,
- Compatible with Windows, Mac OS, iOS and Android devices, no driver required
- Connections: 1 x RJ45



ADP-USBC-2X2

Order No. 1000156



Dante® AVIO USB adapter

- For connecting a computer or a mobile device to a Dante® audio network
- · 2-channel recording/playback
- · Sampling rate: 48 kHz
- · Compatible with Windows, Mac OS, iOS and Android devices, no driver
- Connections: 1 x RJ45, 1 x USB Type-C™



CS-W4C/5

Order No. 1000017







4-channel diversity UHF PLL wideband receivers for conference system

- Bandwidth: 36 MHz
- 6 groups, each with up to 22 compatible preset channels
- 1,441 selectable individual frequencies
- Conference modes: override, priority and open mode
- RF output and mains voltage output for easily cascading up to 10 x CS-W4C/5 receiver without additional splitter
- REMOSET technology for receiver/ transmitter synchronisation
- Removable antennas (BNC connection)
- Auto-scan function
- Pilot tone squelch and noise mute

- Backlit display for indicating the status, e.g. for group/channel, frequency, battery, antenna A/B
- LED for indicating RF level and AF level
- Link connections
- Trigger output
- 482 mm (19") rack installation, 1 RS

There are restrictions or requirements within the EU! Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



Model	CS-W4C/5	CS-W4C/6
Description	receiver unit	receiver unit
Carrier frequency range	506-542 MHz	626-662 MHz
Audio frequency range	60-16,000 Hz	60-16,000 Hz
THD	< 0.6%	< 0.6%
Dynamic range	> 105 dBA	> 105 dBA
Audio signal receiver	630 mV/600 Ω XLR (line),	630 mV/600 Ω XLR (line),
	63 mV/600 Ω XLR (mic),	63 mV/600 Ω XLR (mic),
	316 mV/600 Ω jack	316 mV/600 Ω jack
Power supply receiver	~ 110-240 V/50-60 Hz/20 VA	~ 110-240 V/50-60 Hz/20 VA
Dimensions receiver	485 x 45 x 260 mm	485 x 45 x 260 mm
Weight receiver	2.4 kg	2.4 kg

CS-W4T/5 Order No. 1000018



CS-W4T/6

Order No. 1000122

UHF PLL microphone desk stand transmitters for the chairperson

- Back-electret microphone cartridge, supercardioid polar pattern
- 400 mm gooseneck, removable
- REMOSET technology for receiver/ transmitter synchronisation
- Adjustable sensitivity
- Switchable transmitting power
- Low cut function
- Automatic switch-off

- Lock function
- LCD for indicating group/channel, audio level and battery status

There are restrictions or requirements within the EU! Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!

Model	CS-W4T/5	CS-W4T/6
Polar pattern	supercardioid	supercardioid
System	back electret	back electret
Carrier frequency range	506-542 MHz	626-662 MHz
Transmitting power	10/50 mW	10/50 mW
Operating time	≈ 25 h	≈ 25 h
Audio frequency range	60-16,000 Hz	60-16,000 Hz
Power supply	2 x batt. AA size,	2 x batt. AA size,
	alkaline (not supplied)	alkaline (not supplied)
Dimensions	138 x 29 x 116 mm	138 x 29 x 116 mm
	(console housing)	(console housing)
Weight	720 g	720 g



W4-CH12

Order No. 1000020



Transport case with integrated charging function, for UHF PLL microphone desk stand transmitter CS-W4T/5.

- For simultaneously charging rech. batteries of up to 12 devices
- Average charging time, depending on condition of rechargeable batteries used: approx. 5 hours
- Each slot with LED for indicating battery charging status

- Mechanical reverse polarity protection
- Protection against overload, shortcircuit and deep discharge
- Supplied with 24 x NiMH rech. battery AA size (2,000 mAh)
- Butterfly locks and recessed drop handles
- Stackable

 Matching transport case cover W4-CH12/COVER is available at option, please order separately

Supplied w/o cover and devices.



W4-CH1

Order No. 1000019



Charging station, for a UHF PLL microphone desk stand transmitter CS-W4T/5.

- Average charging time, depending on condition of rechargeable batteries used: approx. 3 hours
- LED for indicating batt. charging status
- Mechanical reverse polarity protection
- Protection against overload, shortcircuit and deep discharge
- Supplied wiht 2 x NiMH rech. battery (2,000 mAh)

Supplied w/o devices.

W4-CH12/COVER

NEW

Order No. 100002



 Suitable for transport case with integrated charging function W4-CH12



Conference System CS-1

Your opinion will be heard! The control unit CS-1CU, the microphone station for the chairperson CS-1CH and the microphone station for conference delegates CS-1DU together form a conference system with extensive configuration facilities for maximum flexibility.

CS-1CU

Order No. 0173060

Control unit, the control centre of the conference system

- For setting up a system with up to 50 microphone stations (2 x 25)
- Power supply for microphone stations
- Built-in speaker
- Headphone connection
- Keypad lock

- Display of date/time
- Stopwatch
- Test function for connected microphone stations
- Connection facilities for optional devices, e.g. external microphone, telephone coupler, signal processing units (e.g. equalizer), recorders, amplifiers, audio line





Model	CS-1CU
Dimensions	360 x 90 x 150 mm
Weight	1.7 kg
Connections	2 x RCA (input/output for telephone coupler)
	2 x RCA (input/output, e.g. for equalizer)
	2 x RCA L/R (input/output for recorder)
	2 x RCA (input/output for line signals)
	1 x XLR (microphone input)
	2 x 7-pole DIN jack (connection for microphone stations)

CS-1CH

Order No. 0173070

Microphone station for chairperson

- Back electret cartridge with cardioid polar pattern, optimised for voice transmissions
- Low-distortion speaker
- Reproduction via optional headphones
- Large function button
- Status displays at microphone and desktop station
- Priority button allows to interrupt an ongoing discussion between conference delegates, alternatively with a chime

Model	CS-1CH
Polar pattern	cardioid
System	back electret
Audio frequency range	50-18,000 Hz
Power supply	via control unit CS-1CU
Gooseneck length	400 mm
Dimensions	115 x 65 x 170 mm (console housing)
Weight	1.1 kg
Connection	2 x 3.5 mm jack
	1 x 2 m connection cable with 7-pole
	DIN plug
	1 x 7-pole DIN jack



CS-1DU

Order No. 0173080

Microphone station for conference delegates

- Back electret cartridge with cardioid polar pattern, optimised for voice transmissions
- Low-distortion speaker
- Operation via function button
- Headphone connection
- Status displays at microphone and desktop station

Model	CS-1DU
Polar pattern	cardioid
System	back electret
Audio frequency range	50-18,000 Hz
Power supply	via control unit CS-1CU
Gooseneck length	400 mm
Dimensions	115 x 65 x 170 mm (console housing)
Weight	1.1 kg
Connection	2 x 3.5 mm jack
	1 x 2 m connection cable with 7-pole
	DIN plug
	1 x 7-pole DIN jack



D7P-10

Order No. 0173370



Extension cable

- 7-pole DIN plug to 7-pole DIN jack
- Length: 10 m



D7P-20

Order No. 0173380

Extension cable

• 7-pole DIN plug to 7-pole DIN jack

20 m

• Length: 20 m



MONACOR INTERNATIONAL INSTALLATION 114

The Automatic Microphone Mixers

of the CS series are THE perfect aid for concepts with multiple microphones, e.g. in conference rooms, houses of worship or language laboratories. The main task of the mixer is to open the respective microphone channel when required and to close it again when the speaker has finished the presentation. This intelligent

adjustment for the individual microphone channels allows for a silent and precise control which ensures that the audience hears every single word. This greatly improves the overall sound, resulting in a clear, transparent reproduction and minimises acoustic feedback and irritating background noise. The CS mixers feature a

last-in function in order to maintain a pleasant atmosphere with a soft ambient sound also during the breaks in conversation rather than just cutting off the sound.



CS-8

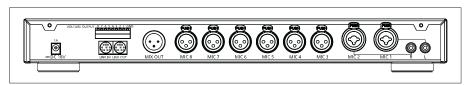
Order No. 0173550

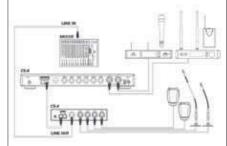
Automatic microphone mixer

- 8 channels
- 3 operating modes: auto mode, priority or 8/1-channel mixer
- Balanced XLR inputs, switchable mic/line
- Additional stereo RCA input
- 48 V phantom power
- Mix output, switchable mic/line
- Trigger outputs for external devices, e.g. warning devices, cameras or speakers
- Status LEDs

- Several devices can be combined via link connections (supplied with cable)
- Desktop metal housing
- 482 mm (19") rack installation possible with supplied mounting brackets

Model	CS-8
Mic input	0.2 mV/4.7 kΩ
Line input	60 mV/20 kΩ
Aux output	1 V/200 Ω
Frequency range	35-20,000 Hz
THD	< 0.06%
S/N ratio	> 70 dB
Power supply	via encl.
	plug-in power supply
Dimensions	420 x 44 x 199 mm
Weight	2.3 kg





CS-4

Order No. 0173540

Automatic microphone mixer

- 4 channels
- 3 operating modes: auto mode, priority or 4/1-channel mixer
- Balanced XLR inputs, switchable mic/line
- 12 V phantom power
- Mix output, switchable mic/line
- Trigger outputs for external devices, e.g. warning devices, cameras or speakers
- Status LEDs



- Several devices can be combined via link connections (supplied with cable)
- · Desktop metal housing
- 482 mm (19") rack installation with supplied mounting brackets



Model	CS-4
Mic input	0.2 mV/4.7 kΩ
Line input	60 mV/20 kΩ
Aux output	1 V/200 Ω
Frequency range	35-20,000 Hz
THD	< 0.06%
S/N ratio	> 70 dB
Power supply	via encl.
	plug-in power supply
Dimensions	200 x 44 x 212 mm
Weight	1.4 kg

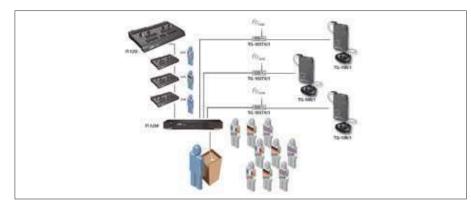


IT-12M

Order No. 017372

Interpretation system, base unit, for setting up a multilingual interpretation system.

- 12 languages (floor language/main language and 11 translations via interpretation console IT-12D)
- Slow-down signal
- Alarm function, audio message or audio alarm signal can be fed to each output
- Status LEDs for interpretation channels
- Microphone connection via comb. jack on the front panel
- 48 V phantom power supply
- 12 V power supply connections for wireless transmitters TG-10STX/1, available at option
- 482 mm (19") rack installation with supplied mounting brackets



Model	IT-12M
Description	interpretation system, base unit
Туре	12 languages
Colour	black
Material	metal
Power supply	~ 230 V/50 Hz/90 VA
Dimensions	423 x 52 x 220 mm
Weight	2.6 kg
Connections	microphone connection (comb. jack),
	12 V power supply connections
	for TG-10STX/1

IT-12D

Order No. 0173710

Interpretation console, as an addition to the base unit IT-12M.

- Up to 11 interpretation consoles can be cascaded
- 2 channels, one of which is active, the other serves as a standby channel
- Interpreting channels can be stored permanently at the console
- Last active channel will be stored after switching off the operating voltage and will be available again immediately after switching on the unit
- 2 simultaneous interpreters/commentators to use the active channel at the same time
- Headset connection with volume control
- Microphones can be switched off or muted, cough
- Balanced XLR jacks for connecting additional microphones
- Relay interpreting via 11-step language selector
- Low-noise push-buttons for switching between relay language and floor language
- Protocol of interpretation via 2 record outputs
- Slow-down button
- Robust and stable metal housing
- Power supply via base unit



Model	IT-12D
Description	interpretation console
Туре	2 channels
Colour	black
Material	metal
Suitable for	IT-12M
Power supply	via IT-12M
Dimensions	330 x 56 x 206 mm
Weight	2.3 kg
Connections	headset connection, bal. XLR jacks, record outputs
Packing unit	1

MONACOR INTERNATIONAL INSTALLATION | 1143

RU-8012DB/5

Order No. 0259420

2-channel diversity UHF PLL wideband receiver

- Bandwidth: 36 MHz
- 6 groups, each with up to 22 compatible preset channels
- 1,441 selectable individual frequencies
- REMOSET ULTRASONIC technology for receiver/transmitter synchronisation
- Removable antennas (BNC connection)
- Auto-scan function
- Pilot tone squelch and noise mute

Model	RU-8012DB/5
Description	receiver unit
Carrier frequency range	506-542 MHz
Audio frequency range	50-16,000 Hz
THD	< 0.6%
Dynamic range	> 105 dB
Audio signal receiver	630 mV/600 Ω XLR (line),
	63 mV/600 Ω XLR (mic),
	320 mV/600 Ω jack
Power supply receiver	via encl. power supply
Dimensions receiver	210 x 40 x 185 mm
Weight receiver	508 g

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section

"IMPORTANT INFORMATION"!



RU-8011DB/5

Order No. 0259200

Diversity UHF PLL wideband receiver

- Bandwidth: 36 MHz
- 6 groups, each with up to 22 compatible preset channels
- 1,441 selectable individual frequencies
- REMOSET ULTRASONIC technology for receiver/transmitter synchronisation
- Removable antennas (BNC connection)
- Auto-scan function
- Pilot tone squelch and noise mute

Model	RU-8011DB/5
Description	receiver unit
Carrier frequency range	506-542 MHz
Audio frequency range	50-16,000 Hz
THD	< 0.6%
Dynamic range	> 105 dB
Audio signal receiver	630 mV/600 Ω XLR (line),
	63 mV/600 Ω XLR (mic),
	320 mV/600 Ω jack
Power supply receiver	via encl. power supply
Dimensions receiver	210 x 40 x 185 mm
Weight receiver	457 g

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section

"IMPORTANT INFORMATION"!



RU-8011D/5

Order No. 0259848

Diversity UHF PLL wideband receiver

- Bandwidth: 36 MHz
- 6 groups, each with up to 22 compatible preset channels (114 channels)
- REMOSET ULTRASONIC technology for receiver/transmitter synchronisation
- Auto-scan function
- Pilot tone squelch and noise mute

Model	RU-8011D/5
Description	receiver unit
Carrier frequency range	506-542 MHz
Audio frequency range	60-15,000 Hz
THD	< 0.6%
Dynamic range	> 105 dB
Audio signal receiver	630 mV/600 Ω XLR (line),
	63 mV/600 Ω XLR (mic),
	320 mV/600 Ω jack
Power supply receiver	via encl. power supply
Dimensions receiver	210 x 40 x 180 mm
Weight receiver	440 g

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section

"IMPORTANT INFORMATION"!



RU-850LTH/5

Order No. 0259560

Dynamic hand-held UHF PLL microphone transmitter

- Bandwidth: 36 MHz
- 6 groups, each with up to 22 compatible preset channels
- 1,441 selectable individual frequencies
- REMOSET ULTRASONIC technology for receiver/transmitter synchronisation
- Lock function/mute function
- Special design to reduce handling noise, structure-borne noise and acoustic feedback
- 5-level display for indicating battery status and low battery alert, backlit LCD
- Switchable transmitting power

Model	RU-850LTH/5
Transmission method	wireless
Polar pattern	cardioid
System	dynamic
Carrier frequency range	506-542 MHz
Transmitting power	10/50 mW
Power supply	2 x batt. AA size,
	alkaline (not supplied)
Operating time	30 h
Audio frequency range	50-16,000 Hz
Max. sound pressure	148 dB
Dimensions	Ø 51 mm x 269 mm
Weight	242 g

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section

"IMPORTANT INFORMATION"!



RU-850LTB/5

Order No. 0259360

UHF PLL pocket transmitter

- Suitable for combination with a headband microphone or an instrument microphone with 4-pole mini XLR connector
- Bandwidth: 36 MHz
- 6 groups, each with up to 22 compat. preset channels
- 1,441 selectable individual frequencies
- REMOSET ULTRASONIC technology for receiver/transmitter synchronisation
- Selectable sensitivity (± 15 dB); additional 20 dB attenuation can be activated as required
- Lock/mute function
- 5-level display for indicating battery status and low battery alert, backlit LCD

RU-850LTB/5
pocket transmitter
506-542 MHz
50-16,000 Hz
30 h
10/50 mW
2 x batt. AA size,
alkaline (not supplied)
62 x 97 x 20 mm
76 g

• Switchable transmitting power

There are restrictions or requirements in the EU! Please read the notes regarding wireless systems in the section

"IMPORTANT INFORMATION"!



CM-214ULF

Order No. 0236450

Electret headband microphone

- Transparent sound
- Adjustable headband, comfortable to wear
- Highly resistant to acoustic feedback due to cardioid polar pattern
- Replaceable connection cable
- Flexible cartr. arm for exact positioning of cartr., thus provid. an optim. sound with an unobtr. appearance
- Connection cable with strain relief, screwed-on
- Integr. drip ring protects the cartridge from moisture

Model	CM-214ULF
Polar pattern	cardioid
System	electret
Audio frequency range	100-18,000 Hz
Nominal impedance	1.5 kΩ
Sensitivity	1.8 mV/Pa
Max. sound pressure	120 dB
Power supply	pocket transmitter
	IN/PT/UF series or PS-500
Weight	44 g

- Supplied with a 4-pole mini XLR connection cable for connection to pocket transm. of the IN/PT/UF series
- Other connection cables are available at option
- Supplied with bag and windshield



CM-801F

Order No. 0235900

Electret earband microphone

- Ultra-light earband microphone for stage and podium
- Optimum speech intelligibility
- Movable drip ring
- Screwed-on cable, easy to replace
- Clip for strain relief; makes microphone more comfortable to wear and ensures secure positioning
- Other connection cables are available at option

Model	CM-801F
Polar pattern	omnidir.
System	electret
Audio frequency range	60-15,000 Hz
Nominal impedance	1.8 kΩ
Sensitivity	6.3 mV/Pa
Max. sound pressure	130 dB
Power supply	pocket transmitters of the IN/PT/UF
	series or PS-500
Weight	16 g

· Supplied with bag and windshield



801C3

Order No. 0236120

Connection cable

- Beige (801C3) or black (801C3/B) version
- 3-pole mini XLR connector
- Length: 150 cm
- Suitable for CM-801F, CM-804IF, CM-214F, CM-214ULF and CM-235IF, CM-235IB



PT-RMS

External mute button (cough button)

- For tie clip microphones and headband microphones from JTS
- Selectable switching mode (ON/OFF, momentary ON, momentary OFF)
- 4-pole mini XLR connection
- Compatible with any pocket transmitter from JTS



UF-20R/5

Order No. 025721



2-channel true diversity UHF PLL wideband receiver

- Bandwidth: 75 MHz
- 15 groups, each with 63 compatible preset channels
- 64 channels in 6 groups from 3,000 selectable individual frequencies can be stored in user presets
- RF output and mains voltage output for easily cascading up to 10 x UF-20R/5 receiver without additional splitter
- REMOSET technology for receiver/ transmitter synchronisation
- Auto-scan function
- Pilot tone and noise squelch
- Equalizer function
- LED for indicating RF level and AF level

- Backlit display for indicating battery status of the transmitter, frequency setup, active antenna
- Metal housing
- Power supply for optional antenna booster UB-900l directly via antenna inputs

There are restrictions or requirements within the EU! Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



Model	UF-20R/5
Description	wireless receiver
Carrier frequency range	530-605 MHz
Audio frequency range	50-18,000 Hz
THD	< 0.5%
Dynamic range	> 108 dB
Audio signal receiver	100 mV XLR,
	100 mV jack
Power supply receiver	~ 100-240 V/50-60 Hz/25 VA
Dimensions receiver	480 x 44 x 214 mm
Weight receiver	2.9 kg

UF-20S/5

Order No. 0257220

Single-channel true diversity UHF PLL wideband receiver

- Bandwidth: 75 MHz
- 15 groups, each with up to 63 compatible preset channels
- 64 channels in 6 groups from 3,000 selectable individual frequencies can be stored in user presets
- REMOSET technology for receiver/ transmitter synchronisation
- Auto-scan function
- Pilot tone and noise squelch
- Equalizer function
- LED for indicating RF level and AF level
- Backlit display for indicating battery status of the transmitter, frequency setup, active antenna
- Metal housing

 Power supply for optional antenna booster UB-900l directly via antenna inputs

There are restrictions or requirements within the EU! Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



Model	UF-20S/5	
Description	wireless receiver	
Carrier frequency range	530-605 MHz	
Audio frequency range	50-18,000 Hz	
THD	< 0.5%	
Dynamic range	> 108 dB	
Audio signal receiver	100 mV XLR,	
	100 mV jack	
Power supply receiver	via encl. power supply	
Dimensions receiver	212 x 44 x 214 mm	
Weight receiver	1.4 kg	

JSS-20/5

Order No. 0257200

Dynamic hand-held UHF PLL transmitter

- Dynamic microphone cartridge (cardioid polar pattern) with minimised feedback susceptibility as well as suppression of handling noise/ structure-borne noise
- Bandwidth: 75 MHz
- 15 groups, each with up to 63 compatible preset channels
- 64 channels in 6 groups from 3,000 selectable individual frequencies can be stored in user presets
- REMOSET technology for receiver/ transmitter synchronisation

- Adjustable sensitivity (-15 dB to +15 dB)
- Lock function/mute function
- 5-level display for indicating battery status and low battery alert, backlit LCD
- Switchable transmitting power
- Supplied with robust transport case, stand clamp and 8 ID caps

There are restrictions or requirements within the EU! Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!

Model	JSS-20/5
Polar pattern	cardioid
System	dynamic
Carrier frequency range	530-605 MHz
Transmitting power	10/50 mW
Power supply	2 x batt. AA size,
	alkaline (not supplied)
Operating time	> 20 h
Dimensions	Ø 50 mm x 260 mm
Weight	340 q



UF-20TB/5

Order No. 0257230

UHF PLL pocket transmitter

- Suitable for combination with a headband microphone or an instrument microphone with 4-pole mini XLR connector
- Bandwidth: 75 MHz
- 15 groups, each with up to 63 compatible preset channels
- 64 channels in 6 groups from 3,000 selectable individual frequencies can be stored in user presets
- REMOSET technology for receiver/transmitter synchronisation
- Adjustable sensitivity (-18 dB to +12 dB)
- Lock function
- 5-level display for indicating battery status and low battery alert, backlit LCD
- Switchable transmitting power

Model	UF-20TB/5
Description	pocket transmitter
Carrier frequency range	530-605 MHz
Audio frequency range	50-18,000 Hz
Operating time	> 20 h
Transmitting power	10/50 mW
Power supply transmitter	2 x batt. AA size (not supplied)
Dimensions transmitter	62 x 170 x 23 mm
Weight transmitter	90 g

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section

"IMPORTANT INFORMATION"!



CH-8

Order No. 0259410

Transport case with integrated charging function, for transmitters UF-20TB/5, JSS-20/5, JSS-4B/5, R-4TBM/5 and RU-G3TB/5.

- For simultaneously charging rech. batteries of 8 devices
- Average charging time, depending on capacity and condition of rechargeable batteries used: approx.
 3 hours
- Each slot with LED for indicating a fault and battery charging status
- Mechanical reverse polarity protection

transport case with integrated charging function
charging function
black
transmitters UF-20TB/5, JSS-20/5,
JSS-4B/5, R-4TBM/5, RU-G3TB/5
via encl. power supply
357 x 294 x 433 mm
11.6 kg

- Protection against overload, short-circuit and deep discharge
- Power is provided via supplied power supply
- Dimensions: 357 x 294 x 433 mm

Supplied w/o devices.



CH-2

Order No. 0257240

Charging station, for transmitters UF-20TB/5, JSS-20/5, JSS-4B/5, R-4TBM/5 and RU-G3TB/5.

- For simultaneously charging rech. batteries of 2 devices
- Average charging time, depending on condition of rechargeable batteries used: approx. 3 hours
- Each slot with LED for indicating a fault and battery charging status
- Mechanical reverse polarity protection
- Protection against overload, short-circuit and deep discharge

CH-2
charging station
black
transmitters UF-20TB/5, JSS-20/5,
JSS-4B/5, R-4TBM/5, RU-G3TB/5
via enclosed power supply
165 x 72 x 99 mm
315 g

- Power is provided via enclosed power supply
- Dimensions: 165 x 72 x 99 mm



MA-935

Order No. 0236850

Adapter ring

- For mounting dynamic microphone cartridges from Sennheiser to hand-held UHF PLL transmitters JSS-20/5 and JSS-4B/5
- Aluminium version
- Screw thread



Conference Technology Wireless Systems

R-4/5

Order No. 0259400



4-channel diversity UHF PLL wideband receiver

- Bandwidth: 36 MHz
- 6 groups, each with up to
 22 compatible preset channels
- 1,441 selectable individual frequencies
- RF output and mains voltage output for easily cascading up to 10 x R-4/5 receiver without additional splitter
- REMOSET technology for receiver/ transmitter synchronisation
- Auto-scan function
- Pilot tone squelch and noise mute
- LED for indicating RF level and AF level
- Backlit display for indicating battery status of the transmitter, frequency setup, active antenna

- XLR output per channel, bal.
- XLR output and 6.3 mm output for mixed signal
- Switchable mic/line for single outputs and mixed outputs
- Metal housing

There are restrictions or requirements within the EU! Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



Model	R-4/5
Description	wireless receiver
Carrier frequency range	506-542 MHz
Audio frequency range	50-18,000 Hz
THD	< 0.6%
Dynamic range	> 105 dB
Audio signal receiver	630 mV/600 Ω XLR (line),
	63 mV/600 Ω XLR (mic),
	320 mV/600 Ω jack
Power supply receiver	~ 100-240 V/50-60 Hz
Dimensions receiver	485 x 44 x 230 mm
Weight receiver	2.65 kg

JSS-4B/5

Order No. 0259390

Dynamic hand-held UHF PLL transmitter

- Dynamic microphone cartridge (cardioid polar pattern) with wide dynamic range
- Aluminium housing
- Bandwidth: 36 MHz
- 6 groups, each with up to
 22 compatible preset channels
- 1,441 selectable individual frequencies
- REMOSET technology for receiver/ transmitter synchronisation
- Adjustable sensitivity (-15 dB to +15 dB)
- Lock/mute function
- 4-level display for indicating battery status and low battery alert, backlit LCD

• Switchable transmitting power

There are restrictions or requirements within the EU! Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!

Model	JSS-4B/5
Polar pattern	cardioid
System	dynamic
Carrier frequency range	506-542 MHz
Transmitting power	10/50 mW
Power supply	2 x batt. AA size,
	alkaline (not supplied)
Audio frequency range	50-18,000 Hz
Max. sound pressure	150 dB
Housing material	aluminium
Dimensions	Ø 50 mm x 253 mm
Weight	335 g



R-4THA/5

Order No. 0259847

Hand-held UHF PLL transmitter, with condenser cartridge.

- Condenser microphone cartridge (cardioid polar pattern)
- Bandwidth: 36 MHz
- 6 groups, each with up to 22 compatible preset channels
- 1,441 selectable individual frequencies
- REMOSET technology for receiver/ transmitter synchronisation
- Adjustable sensitivity (±15 dB)
- Lock function/mute function
- 4-level display for indicating battery status and low battery alert, backlit
- Switchable transmitting power

There are restrictions or requirements within the EU! Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!

Model	R-4THA/5
Polar pattern	cardioid
System	condenser
Carrier frequency range	506-542 MHz
Transmitting power	10/50 mW
Power supply	2 x batt. AA size,
	alkaline (not supplied)
Operating time	> 20 h
Audio frequency range	50-18,000 Hz
Max. sound pressure	140 dB
Dimensions	Ø 50 mm x 253 mm
Weight	260 g



R-4TBM/5

Order No. 0259841

UHF PLL pocket transmitter

- Suitable for combination with a headband microphone or an instrument microphone with 4-pole mini XLR connector
- Bandwidth: 36 MHz
- 6 groups, each with up to 22 compatible preset channels
- 1,441 selectable individual frequencies
- REMOSET technology for receiver/transmitter synchronisation
- Adjustable sensitivity (±15 dB)
- Lock function
- 6-level display for indicating battery status and low battery alert, backlit LCD
- Switchable transmitting power

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section

"IMPORTANT INFORMATION"!

Model	R-4TBM/5
Description	pocket transmitter
Carrier frequency range	506-542 MHz
Audio frequency range	50-18,000 Hz
Operating time	> 20 h
Transmitting power	10/50 mW
Operating range	120 m
Power supply transmitter	2 x batt. AA size (not supplied)
Dimensions transmitter	62 x 80 x 23 mm
Weight transmitter	95 g



850CH-2

Order No. 0259370

Charging station, for transmitters RU-850LTH/5, RU-850LTB/5 and R-4THA/5.

- For simultaneously charging rech. batteries of 2 devices
- Average charging time, depending on condition of rechargeable batteries used: approx. 5 hours
- Each slot with LED for indicating a fault and battery charging status
- Mechanical reverse polarity protection
- Protection against overload, short-circuit and deep discharge
- Power is provided via enclosed power supply

Supplied w/o devices.

Model	850CH-2
Description	charging station
Colour	black
Suitable for	transmitters RU-850LTH/5,
	RU-850LTB/5, R-4THA/5
Power supply	via encl. power supply
Dimensions	165 x 72 x 99 mm
Weight	329 g



Other systems can be found at IMG STAGELINE.



MONACOR INTERNATIONAL INSTALLATION 1149

TXS-871

Order No. 0253600

TXS-875

Order No. 0255320

Multifrequency receiver units, with UHF PLL technology.

- TXS-871: 15 selectable UHF frequencies (863-865 MHz), TXS-875: 193 selectable UHF frequencies (518-542 MHz)
- True diversity system with removable antennas (BNC connection)
- Auto-scan
- Pilot tone squelch, noise mute
- Selectable lock mode
- LCD for indicat. frequency, antenna A/B, RF receiving level, AF audio level, batt. status of the transmitter



- XLR output and 6.3 mm output
- Supplied with power supply
- Supplies operating voltage to TXS-875B

Model	TXS-871	TXS-875
Carrier frequency range	863-865 MHz	518-542 MHz
Audio frequency range	40-18,000 Hz	40-18,000 Hz
THD	< 0.6%	< 0.6%
Dynamic range	> 105 dB	> 105 dB
Admiss. ambient temp.	0-40 °C	0-40 °C
Audio signal receiver	900 mV/1 kΩ (jack)	900 mV/1 kΩ (jack)
	150 mV/150 Ω (XLR,	150 mV/150 Ω (XLR,
	bal.)	bal.)
Power supply receiver	via encl. power supply	via encl. power supply
Dimensions receiver	211 x 40 x 130 mm	211 x 40 x 130 mm
Weight receiver	1.1 kg	1.1 kg
Connections receiver	1 x XLR, bal.,	1 x XLR, bal.,
	1 x 6.3 mm jack, unbal.	1 x 6.3 mm jack, unbal.

TXS-871: licence-free in the EU.

TXS-875: there are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!

TXS-871HT

Order No. 0253610

TXS-875HT

Order No. 0255340

Hand-held microphones with integrated multifrequency transmitter, with UHF PLL technology.

- Dynamic microphone cartridge, hypercardioid polar pattern
- Diecast aluminium body
- TXS-871HT: 15 selectable UHF frequencies (863-865 MHz), TXS-875HT: 193 selectable UHF frequencies (518-542 MHz)
- Adjustable sensitivity (0 dB, -10 dB, -20 dB, -30 dB)
- LCD for indicating frequency and battery status
- Transmitting power: 10 mW (EIRP)
- Selectable lock mode



- Power supply via 2 x 1.5 V battery AA size (not supplied)
- Supplied with plastic case, microphone holder and 7 coloured caps to be pushed on

Model	TXS-871HT	TXS-875HT
Polar pattern	hypercardioid	hypercardioid
System	dynamic	dynamic
Carrier frequency range	863-865 MHz	518-542 MHz
Transmitting power	< 10 mW	10 mW
Power supply	2 x 1.5 V batt. AA size	2 x 1.5 batt. AA size
Operating time	> 30 h	> 30 h
Audio frequency range	50-16,000 Hz	50-16,000 Hz
Dimensions	Ø 50 mm x 260 mm	Ø 50 mm x 260 mm
Weight	350 g	350 g

TXS-871: licence-free in the EU.

TXS-875: there are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section

"IMPORTANT INFORMATION"!

TXS-871HSE

Order No. 0253620

TXS-875HSE

Order No. 0255330

Multifrequency pocket transmitters, with UHF PLL technology.

- Suitable for combination with headband microphone or earband microphone with 3-pole mini XLR connector
- TXS-871HSE: 15 selectable UHF frequencies (863-865 MHz), TXS-875HSE: 193 selectable UHF frequencies (518-542 MHz)
- Adjustable sensitivity
- LCD for indicating frequency and battery status
- Transmitting power: 10 mW (EIRP)

- Selectable lock mode
- Power supply via 2 x 1.5 V battery AA size (not supplied)
- Supplied in a plastic case



Model	TXS-871HSE	TXS-875HSE
Carrier frequency range	863-865 MHz	518-542 MHz
Audio frequency range	40-18,000 Hz	40-18,000 Hz
Operating time	> 30 h	> 30 h
Admiss. ambient temp.	0-40 °C	0-40 °C
Transmitting power	< 10 mW	10 mW
Power supply transm.	2 x 1.5 V batt. AA size	2 x 1.5 V batt. AA size
Dimensions transmitter	78 x 190 x 34 mm	78 x 190 x 34 mm
Weight transmitter	160 g	160 g
Connections transmitter	1 x 3-pole mini XLR	1 x 3-pole mini XLR

TXS-871H...: licence-free in the EU. TXS-875H...: there are restrictions or requirements within the EU! Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!

RCB-870

Order No. 0242830



482 mm (19", 1 RS) device holder

- For installation of two multifrequency receiver units, e.g. TXS-871
- Supplied with dummy plate
- Dimensions: 482 x 44 x 108 mm



UDA-49A

Order No. 0150630

Active UHF directional antenna

- Improved reception and a larger transmission range of 470-960 MHz
- Rejects unwanted RF signals, minimises signal loss in multipath receptions and reduces interference susceptibility
- Reliable operation also for short-term outdoor use
- Switchable gain (3 dB/10 dB) to avoid power loss
- Remote power supply: = 12 V/50 mA
- BNC connection
- Power supply via UHF PLL receivers of the US/IN series or the active antenna splitter UA-960

Model	UDA-49A
Frequency range	470-960 MHz
Aperture angle	100°
Antenna gain	≥ 10 dB
Power supply	12 V/50 mA, remote power
	supply
	(external power supply)
Impedance level	50 Ω
Support	9 mm (%") or 16 mm (%")
Dimensions	360 x 350 x 36 mm
	(sheet thickness: 1.7 mm)
Weight	350 g

 Ideally suited for mobile applications, can be mounted onto any microphone stand with a thread of 9 mm (¾") or 16 mm (¾")

2 x UDA-49A required for diversity reception.



UDA-49P

Order No. 0150640

Passive UHF directional antenna

- For wireless microphone systems (reception antenna) or for wireless in-ear monitoring systems, e.g. SIEM-111/5 from JTS (transmitting antenna)
- Improved reception and a larger transmission range of 470-960 MHz
- Rejects unwanted RF signals, minimises signal loss in multipath receptions and reduces interference susceptibility
- Reliable operation also for short-term outdoor use
- BNC connection (for UHF PLL receivers of the US/IN series or active antenna splitter UA-960)

Model	UDA-49P	
Frequency range	470-960 MHz	
Aperture angle	100°	
Antenna gain	≥ 10 dB	
Impedance level	50 Ω	
Support	9 mm (¾") or 16 mm (¾")	
Dimensions	360 x 350 x 36 mm	
	(sheet thickness: 1.7 mm)	
Weight	350	

 Ideally suited for mobile applications, can be mounted onto any microphone stand with a thread of 9 mm (¾") or 16 mm (¾")

2 x UDA-49P required for diversity reception.



ANT-49

Order No. 0150810

Passive UHF wideband omnidirectional antenna

- For wireless microphone systems or wireless in-ear monitoring systems
- Consistent RF power supply, independent of direction
- Ideally suited for mobile applications, can be mounted onto microphone stand with 9 mm (%") or 16 mm (%") thread

2 x ANT-49 required for diversity reception.

Model	ANT-49	
Frequency range	470-960 MHz	
Aperture angle	360°	
Antenna gain	2-4 dB	
Impedance level	50 Ω	
Support	9 mm (¾") or 16 mm (¾")	
Dimensions	130 x 255 x 32 mm	
	(sheet thickness: 2 mm)	
Weight	205 g	



USP-900

Order No. 015065

Passive UHF antenna splitter/UHFcombiner

- For minimising the great effort and expense of antennas for wireless receiver systems or transmission systems
- Splits one antenna input signal to two antenna output signals
- 2 x USP-900 required for commonly supplying two diversity receiv. set up with two antennas respectively

10-1,000 MHz 2 dB	
2 dB	
20 dB	
50 Ω	
3 x BNC jack	
72 x 24 x 56 mm	
63 g	

- DC suppression
- Can also be used as a combiner in order to operate
 2 x SIEM-111/5 with one antenna



UA-960

Order No. 0150820



Active antenna splitter

- For operating up to four UHF PLL receivers of the UF/US/IN series with one pair of antennas
- With this device, it is not longer required to use the respective antennas and plug-in power supplies of the individual devices
- Frequency range: 470-960 MHz
- Power supply via four low-voltage outputs (4 x = 12 V/1 A max.)
- Each antenna to be connected via BNC jacks
- Additional connection for cascading further antenna splitters



- Supplied with suitable connection cables
- Power supply for optional antenna booster UB-900I directly via UA-960 (can be deactivated internally)

UC-900

Order No. 0150580



4-way antenna combiner

- Range of applications:
 - Signals of up to four in-ear monitoring transmitters, e.g. SIEM-111/..., can be sent via one antenna
- Signals of up to four antennas which are positioned at a certain distance from each other can be combined for extending the reception area of a stationary receiver
- Frequency range: 470-960 MHz
- Gain: 0 dB, ±2 dB
- Maximum RF power for each input: +20 dBm (100 mW)



- Low-voltage outputs: 4 x = 12 V, 1 A max. for supplying operating voltage directly to connected devices
- Each antenna to be connected via BNC jacks
- Supplied with suitable connection cables

USP-124

Order No. 0150860

4-way antenna splitter

- For operating up to four antennas with one transmitter (e.g. SIEM-111/5)
- Frequency range: 470-960 MHz
- Gain: 0 dB, ± 2 dB
- All connections via BNC jacks



UB-9001

Order No. 0150830

Antenna booster, for UHF PLL receivers.

- Power supply via UHF PLL receivers of the UF/US series and IN series or via active antenna splitter UA-960
- DC feed-through output for cascading up to 2 x UB-900I max.
- Ideally suited for mobile applications, can be mounted onto microphone stand with 16 mm (5%") thread



Diversity operation: one booster is required for each antenna connected!

RP-900

Order No. 0230540

Mounting plate, for offset antenna mounting.

- Black lacquered metal version
- Dimensions: 227 x 44 x 1.6 mm, 1 RS



DR-900SET

Order No. 0244770

482 mm (19", 1 RS) device holder

- For installing up to two half-rack sized receivers into one 482 mm (19") rack
- Partly profiled sheet steel for on-the-road applications and secure support
- The supplied 241 mm (9.5") rack panel with screws can cover the unrequired mounting space





RTF-20

Order No. 0252060

Coaxial antenna cable, with mounting plate.

- 2 x 20 m RG-58U coaxial cable with 2 x BNC plug each, e.g. for connecting offset antennas to respective UHF PLL receivers of the UF/US/IN series or in-ear monitoring transmitter SIEM-111/R
- Mounting plate (1 RS) with punched holes for two supplied BNC bushings

Model	RTF-20	
Intended use	coaxial antenna cable	
Connectors	2 x BNC plug	
Length	20 m	
Colour	black	
Cable diameter	5 mm	
Shielding value	20 dB @ 100 MHz	
Impedance	50 Ω	
Attenuation	7 dB	
Special feature	1 RS mounting plate:	
	227 x 44 x 1.6 mm	
Other features	frequency range: 10-1,000 MHz	



RTF-2U

Order No. 0230530



Mounting bracket set, for offset antenna mounting.

- For 482 mm (19") rack installation
- Consisting of:
- 2 x mounting bracket
- 2 x BNC jack
- 2 x 40 cm antenna cable with BNC plug

Model	RTF-2U	
Size	for 482 mm (19")	
Colour	black	
Weight	105 g (pair)	



RTF-1

Order No. 0230550

Coaxial antenna cable, with mounting plate.

- 2 x 0.6 m RG-58U coaxial cable with 2 x BNC plug each, e.g. for connecting offset antennas to respective UHF PLL receivers of the UF/US/IN series or in-ear monitoring transmitter SIEM-111/R
- Mounting plate (1 RS) with punched holes for two supplied BNC bushings

Model	RTF-1	
Intended use	coaxial antenna cable	
Connectors	2 x BNC plug	
Length	60 cm	
Colour	black	
Shielding value	20 dB @ 100 MHz	
Impedance	50 Ω	
Special feature	1 RS mounting plate:	
	227 x 44 x 1.6 mm	
Other features	frequency range: 10-1,000 MHz	
	· · · · · · · · · · · · · · · · · · ·	



RTF-3

Order No. 0230560



BNC antenna cable

- 50 Ω
- 2 x BNC plug
- Length: 2 x 3 m
- 2 x BNC bushing



RM-901

Order No. 02



482 mm (19") mounting brackets

- For mounting CS-4, CS-8, SIEM-111/... (transmitter), TG-10STX/1, UF-10R/12, UF-20S/5 or US-9001D/... into a rack cabinet
- Metal version



RM-10SET

Order No. 0254950

482 mm (19") mounting set

- For mounting two SIEM-111/... (transmitter), UF-10R/12 or UF-20S/5 into a rack cabinet
- Consisting of two metal mounting brackets and two aluminium connecting rails



The SPEECH-500 is a professional solution

which is equipped with innovative technology and suitable for music transmissions of high requirements. The lectern features a variable electric height adjustment. A laptop can space-savingly be accommodated underneath the transparent glass plate on the top part of the lectern in a 2-step illuminated compartment which has especially been designed for this purpose. The built-in audio system as well as the UHF PLL wireless technology with transmitter module and receiver module perfectly meet every requirement. In audio link operation, this allows for a wireless control of additional active speaker systems which are equipped with respective wireless receivers, e.g. TXA-800 and TXA-1000 series.

SPEECH-500/GR

Order No. 0176210

Professional lectern with electric height adjustment and integrated wireless amplifier system

- Built-in 4-channel mixing amplifier with limiter, 50 W
- Variable electric height adjustment of the lectern, 85-125 cm
- Top part of the lectern with a transparent safety glass plate and illuminated compartment for a laptop
- Built-in UHF PLL receiver (TXA-1822MR) with 2 x 16 selectable frequencies (863.1-864.9 MHz) with diversity system, matching transmitters are available at option, e.g. TXA-800HSE or TXA-800HT
- Built-in UHF PLL transmitter (TXA-820MT) with 16 selectable frequencies (863.1-864.9 MHz) for setting up audio link transmission
- 3 inputs via comb. jack mic (XLR)/line (6.3 mm jack), stereo line input (RCA), gain controls, 3-way equalizer for the comb. inputs
- 2 shock-absorbing XLR jacks on the top part of the lectern for 2 optional gooseneck microphones (each one uses a microphone input), matching microphone EMG-650P is available at option
- Additional XLR jack for LED gooseneck light (e.g. GNL-304, available at option)
- 24 V phantom power for mic input 1 and 2
- 1 stereo line output via RCA jacks
- 2-way speaker system with 30 cm (12") bass speaker and horn tweeter (1")
- High-quality wooden cabinet, wood and lacquer combination
- Standard wood decor: grey lacquered
- Holder for name of speaker to be mounted with terminal screw

- 3 additional storage compartments for documents and other utensils
- 2 swivel castors with locking brakes, 2 fixed castors

Licence-free in the EU.

Supplied w/o laptop.

Also available in the colours:

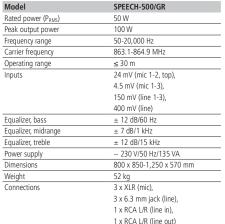
In addition to the standard wood decor grey lacquered, you can choose your individual colour or desired wood decor from 20 other design options:

Maple, Dark Apple, Beech, Dark Beech, Italian Oak, Red Oak, Rustic Oak, Alder, Cherry, Dark Cherry, Light Cherry, Tobacco Acacia, Dark Walnut, Light Walnut, Wenge, Plum, Apricot, Pigeon Blue, Vanilla, grey (standard) and white.

Information on delivery times and extra charges upon request.



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Set up, connect and go: audio lectern for multimedia presentations

The SPEECH-204 is an efficient and portable lectern with built-in mixing amplifier and integrated speaker sytem in 2-way technology. The elaborate functionality and high sound quality ensure a successful and professional performance and thus contribute to the success of every event. The SPEECH-204 is set up and ready for use in no time and ideally suited for multimedia presentations in hotels, houses of worship, conference rooms and convention centres.

SPEECH-204

Order No. 0179130

Professional lectern with integrated 2-channel multifrequency receiver unit with UHF PLL technology

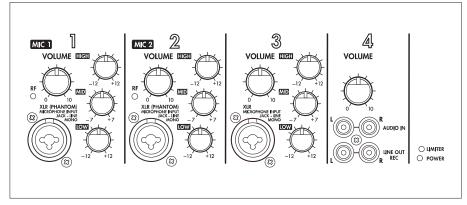
- Built-in high-performance mixing amplifier and speaker system, 75 W
- 2 x 16 selectable UHF frequencies (863.1-864.9 MHz)
- Integrated limiter
- 3 inputs via comb. jack mic (XLR)/line (6.3 mm jack) with 3-way equalizer and gain control
- 1 stereo line input via RCA jacks with gain control
- 2 shock-absorbing XLR jacks on the top part of the lectern for 2 optional gooseneck microphones (use one microphone input each), with phantom power
- 1 stereo line output via RCA jacks
- 2-way speaker system
- Integrated light in the top part of the lectern
- Column with 2 document compartments and 2 storage compartments
- 2 castors

Supplied w/o gooseneck microphone. Matching microphone EMG-650P is available at option.

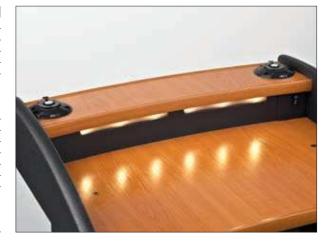
Matching microphone transmitters or pocket transmitters are available at option, e.g. TXA-800HSE or TXA-800HT.

Licence-free in the EU.





Model	SPEECH-204	
Rated power (P _{RMS})	75 W	
Peak output power	100 W	
Frequency range	60-20,000 Hz	
Carrier frequency	863.1-864.9 MHz	
Operating range	≈ 25 m	
Inputs	15 mV (mic 1),	
	5 mV (mic 2-3),	
	220 mV (line 1-3),	
	250 mV (line)	
Equalizer, bass	±12 dB/60 Hz	
Equalizer, midrange	±7 dB/1 kHz	
Equalizer, treble	±12 dB/15 kHz	
Power supply	~ 230 V/50 Hz/180 VA	
Dimensions	540 x 1140 x 430 mm	
Weight	33 kg	
Connections	3 x XLR (mic),	
	3 x 6.3 mm jack (line),	
	1 x RCA L/R (line in),	
	1 x RCA L/R (line out)	





MONACOR INTERNATIONAL INSTALLATION 1155

An Innovative and High-quality Solution for PA Speech and Music Applications of High Requirements:

The active lectern SPEECH-104D from MONACOR perfectly combines sound quality, volume capability and a convenient operation. It is battery-operated and thus perfectly suitable for mobile applications. The SPEECH-104D turns any area of PA application into an auditorium all by itself. It also fits perfectly into any surrounding area where a temporary or permanent talking point is required.

The integrated amplifier technology and speaker technology not only allow for voice transmissions, but can also easily be used for music reproductions and e.g. dubbings of films or presentations with quite good results. Simply plug-in a gooseneck microphone and/or connect a signal source - switch on - ready to use.

SPEECH-104D

Order No. 0179120

Professional lectern with integrated 2-channel multifrequency receiver unit with UHF PLL technology and class D amplifier

- Built-in class D mixing amplifier and speaker system,
- Operation via built-in rech. lead gel batteries: 2 x 12 V/7 Ah (operating time: up to 16 hours)
- Integrated battery charging, supplied with charger
- 2 x 16 selectable UHF frequencies (863.1-864.9MHz)
- 1 input via comb. jack mic (XLR)/line (6.3 mm jack)
- 1 stereo aux input via RCA jacks
- Each input with gain control
- 2 shock-absorbing XLR jacks on the top part of the lectern for 2 optional gooseneck microphones (use one microphone input each) or one microphone and one optional LED gooseneck light
- 12 V phantom power
- 1 stereo line output via RCA jacks
- \bullet NEUTRIK SPEAKON connection (8 $\Omega)$ for external speaker

- 2-way speaker system
- High-quality wooden cabinet with replaceable black bottom plates
- Top part of the lectern with folding document compartment
- Delivery consists of 2 boxes

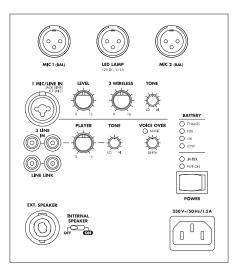
Supplied w/o gooseneck microphone and w/o gooseneck lamp. Matching microphone EMG-650P and matching LED gooseneck lamp GNL-304 are available at option.

Matching microphone transmitters or pocket transmitters are available at option, e.g. TXA-800HSE, TXA-800HT.

Licence-free in the EU.



Model	SPEECH-104D	
Rated power (P _{RMS})	80 W	
Peak output power	120 W	
Frequency range	70-20,000 Hz	
Carrier frequency	863.1-864.9 MHz	
Operating range	≈ 25 m	
Inputs	2 mV (mic 1),	
	13 mV (line),	
	20 mV (mic 2-3),	
	100 mV (aux)	
Power supply	rech. batt. 2 x 12 V/7 Ah,	
	12 V/1.5 A via	
	suppl. charger	
Dimensions	525 x 1,120 x 440 mm	
Weight	30 kg	
Connections	1 x XLR (mic 1)	
	1 x 6.3 mm jack (line),	
	2 x XLR (mic 2-3),	
	1 x RCA L/R (aux),	
	1 x RCA L/R (line out),	
	1 x NEUTRIK SPEAKON (ext.	
	speakers)	





XLR-703JSM

Order No. 0348810

Shock-mount base with XLR socket

- Attenuation of impact noise and structure-borne noise due to rubber-cushioned 3-pole XLR socket
- 1.2 m connection cable with 3-pole XLR plug



FGM-170T

Order No. 0231920



Microphone floor stand, with carbon fibre boom.

- High-quality condenser microphone cartridge with 1.25 cm (½") extra thin gold-plated diaphragm, cardioid polar pattern and excellent sound characteristics
- Low cut switch (80 Hz)
- 10 dB attentuation, switchable
- Extra lightweight (105 g) but very robust carbon fibre boom (1.46 m) with miniature gooseneck
- Long shaft, for overhead miking
- Structure-borne noise isolated diecast base plate
- Replaceable cartridge unit and cartridge (plug-in system with screw-type locking)
- Supplied with windshield
- Delivery consists of 2 boxes

Model	FGM-170T	
Polar pattern	cardioid	
System	condenser	
Audio frequency range	20-20,000 Hz	
Nominal impedance	100 Ω	
Sensitivity	15.8 mV/Pa	
Max. sound pressure	140 dB	
Power supply	48 V, phantom power	
Dimensions	1.46 m (boom)	
	1.6 m (stand)	
Weight	3.4 kg	
Connection	3-pole XLR plug, bal.	



FGM-170

Order No. 0236070



Floor stand microphone, with carbon fibre boom.

- 3 high-quality back electret microphone cartridges with different polar patterns
- Low cut switch (80 Hz)
- 10 dB attentuation, switchable
- Extra lightweight (105 g) but very robust carbon fibre boom (1.46 m) with miniature gooseneck
- Long shaft, for overhead miking
- Structure-borne noise isolated diecast base plate
- Supplied with 2 replacement cartridges, connection cable and windshield
- Delivery consists of 2 boxes

Model	FGM-170	
Polar pattern	cardioid, supercardioid, omnidir.	
System	back electret	
Audio frequency range	50-18,000 Hz	
Nominal impedance	220 Ω	
Sensitivity	16 mV/Pa	
Max. sound pressure	125 dB	
Power supply	12-48 V, phantom power	
Dimensions	1.46 m (boom)	
	1.6 m (stand)	
Weight	3.6 kg	
Connection	cable with 3-pole mini XLR to XLR	



CM-502

Order No. 0234580

CM-502WT

Order No. 0233990

Overhead hanging electret microphones

- For suspended installations, especially suitable for applications in which a direct microphonic effect is undesired for optical or operational reasons, e.g. sound pickup of choirs or on theatre stages or school stages
- Microphone cartridge with supercardioid polar pattern
- Integrated phantom power supply adapter
- Easy installation and alignment due to supplied mounting plate for ceiling suspension and spring holder
- Supplied with windshield

CM-502WT: white version

Model	CM-502	CM-502WT
Polar pattern	supercardioid	supercardioid
System	electret	electret
Audio frequency range	100-18,000 Hz	100-18,000 Hz
Nominal impedance	220 Ω	220 Ω
Sensitivity	4 mV/Pa	4 mV/Pa
Max. sound pressure	125 dB	125 dB
Power supply	12-48 V, phantom	12-48 V, phantom
	power	power
Housing material	metal	metal
Weight	190 g	190 g
Cable	7.5 m	7.5 m
Connection	XLR, bal.	XLR, bal.



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CM-502G6B

Order No. 0233950

CM-502G6W

Order No. 0233960

CM-502G12B

Order No. 0233970

CM-502G12W

Order No. 0233980

Overhead hanging electret microphones

- For suspended installations, especially suitable for applications in which a direct microphonic effect is undesired for optical or operational reasons, e.g. sound pickup of choirs or on theatre stages or school stages
- Microphone cartridge with supercardioid polar pattern
- Integrated phantom power supply adapter
- Flexible alignment due to gooseneck
- Easy-to-replace cartridge unit
- Black (CM-502G...B) or white (CM-502G...W) version
- Supplied with windshield

Total length:

CM-502G6...: 180 mm CM-502G12...: 320 mm



Model	CM-502G6B	CM-502G6W	CM-502G12B	CM-502G12W
Polar pattern	supercardioid	supercardioid	supercardioid	supercardioid
System	electret	electret	electret	electret
Audio frequency range	100-18,000 Hz	100-18,000 Hz	100-18,000 Hz	100-18,000 Hz
Nominal impedance	220 Ω	220 Ω	220 Ω	220 Ω
Sensitivity	4 mV/Pa	4 mV/Pa	4 mV/Pa	4 mV/Pa
Max. sound pressure	125 dB	125 dB	125 dB	125 dB
Power supply	= 48 V, phantom power	= 48 V, phantom power	- 48 V, phantom power	- 48 V, phantom power
Housing material	metal	metal	metal	metal
Weight	100 g	100 g	145 g	145 g
Cable	8 m	8 m	8 m	8 m
Connection	XLR, bal.	XLR, bal.	XLR, bal.	XLR, bal.

CM-22G6B

Order No. 0235990

CM-22G6W

Order No. 0233920

CM-22G12B

Order No. 0233930

CM-22G12W

Order No. 0233940

Overhead hanging condenser microphones

- For suspended installations, especially suitable for applications in which a direct microphonic effect is undesired for optical or operational reasons, e.g. sound pickup of choirs or on threatre stages or school stages
- High-quality condenser microphone cartridge with 1.25 cm (½") extra thin gold-plated diaphragm, cardioid polar pattern
- Low cut switch (80 Hz)
- 10 dB attenuation, switchable
- Integrated phantom power supply adapter
- Flexible alignment due to gooseneck
- Black (CM-22G...B) or white (CM-22G...W) version
- Supplied with windshield

Total length:

CM-22G6...: 205 mm CM-22G12...: 340 mm



Model	CM-22G6B	CM-22G6W	CM-22G12B	CM-22G12W
Polar pattern	cardioid	cardioid	cardioid	cardioid
System	condenser	condenser	condenser	condenser
Audio frequency range	20-20,000 Hz	20-20,000 Hz	20-20,000 Hz	20-20,000 Hz
Nominal impedance	100 Ω	100 Ω	100 Ω	100 Ω
Sensitivity	15.8 mV/Pa	15.8 mV/Pa	15.8 mV/Pa	15.8 mV/Pa
Max. sound pressure	140 dB	140 dB	140 dB	140 dB
Power supply	= 48 V, phantom power	= 48 V, phantom power	- 48 V, phantom power	= 48 V, phantom power
Housing material	metal	metal	metal	metal
Weight	140 g	140 g	160 g	160 g
Cable	8 m	8 m	8 m	8 m
Connection	XLR, bal.	XLR, bal.	XLR, bal.	XLR, bal.

ECM-306BU/SW

Order No. 0237270

ECM-306BU/WS

Order No. 0237280



USB boundary microphones

- For operating directly at a PC or laptop
- No driver installation required, device will be identified automatically
- Integrated A/D converter: 48 kHz/16 bits
- Power LED
- Additional headphone connection: 3.5 mm jack
- 1.2 m connection cable with micro USB/USB Type-A
- Rear cutout for fixed installation (e.g. wall mounting)

Model	ECM-306BU/SW	ECM-306BU/WS
Polar pattern	semi-cardioid	semi-cardioid
System	electret	electret
Audio frequency range	50-18,000 Hz	50-18,000 Hz
Sensitivity	3.2 mV/Pa	3.2 mV/Pa
Power supply	= 5 V via USB interface	= 5 V via USB interface
Dimensions	90 x 25 x 90 mm	90 x 25 x 90 mm
Weight	187 g	187 g
Cable	1.2 m	1.2 m
Connection	micro USB/USB Type-A	micro USB/USB Type-A
	plug	plug

ECM-306BU/SW = black version ECM-306BU/WS = white version



ECM-306B/SW

Order No. 0235790

ECM-306B/WS

Order No. 0235800

Boundary microphones

- On/off switch with power LED
- Low cut and 10 dB attenuation, switchable
- Integrated electronics for direct connection to a phantom power supply = 17-48 V
- Electronically balanced AF output
- 6 m connection cable with 3-pole mini XLR/XLR
- Supplied in a foam-padded plastic case

Model	ECM-306B/SW, ECM-306B/WS
Polar pattern	semi-supercardioid
System	electret
Audio frequency range	30-20,000 Hz
Nominal impedance	250 Ω
Sensitivity	22 mV/Pa
Max. sound pressure	130 dB
Power supply	= 17-48 V, phantom power
Dimensions	90 x 25 x 90 mm
Weight	200 g
Cable	6 m
Connection	3-pole mini XLR/XLR

ECM-306B/SW = black version ECM-306B/WS = white version



ECM-302B

Order No. 0232370

ECM-302B/WS

Order No. 0233630

Boundary microphones

- Integrated electronics for direct connection to a phantom power supply = 17-48 V
- Transformer-balanced AF output
- 6 m connection cable with 3-pole mini XLR/XLR

ECM-302B = black version ECM-302B/WS = white version

Model	ECM-302B	ECM-302B/WS
Polar pattern	semi-cardioid	semi-cardioid
System	electret	electret
Audio frequency range	30-20,000 Hz	30-20,000 Hz
Nominal impedance	250 Ω	250 Ω
Sensitivity	22 mV/Pa	22 mV/Pa
Max. sound pressure	140 dB	140 dB
Power supply	17-48 V, phantom	= 17-48 V, phantom
	power	power
Dimensions	Ø 120 mm x 22 mm	Ø 120 mm x 22 mm
Weight	350 g	350 g
Cable	6 m	6 m
Connection	3-pole mini XLR/XLR	3-pole mini XLR/XLR



ECM-304BD

Order No. 0232510

ECM-304BD/WS

Order No. 0233270

Boundary microphones

- Switchable polar pattern: cardioid/omnidirectional
- Voltage supply via 1.5 V button cell (not supplied). Phantom power via mixer not required
- 4 m connection cable with 3.5/6.3 mm plug

ECM-304BD = black version ECM-304BD/WS = white version

Model	ECM-304BD	ECM-304BD/WS
Polar pattern	cardioid/omnidir.	cardioid/omnidir.
System	electret	electret
Audio frequency range	30-20,000 Hz	30-20,000 Hz
Nominal impedance	600 Ω/1,000 Ω	600 Ω/1,000 Ω
Sensitivity	7 mV/Pa	7 mV/Pa
Power supply	1.5 V button cell (LR44)	1.5 V button cell (LR44)
Admiss. ambient temp.	0-40 °C	0-40 °C
Dimensions	70 x 96 x 20 mm	70 x 96 x 20 mm
Weight	285 g	285 g
Cable	4 m	4 m
Connection	3.5/6.3 mm plug	3.5/6.3 mm plug



MONACOR INTERNATIONAL INSTALLATION I 159

ECM-500

Order No. 0232550

PA desktop microphone, with

- Electret, cardioid polar pattern
- Indicating light for microphone operation
- ON/OFF switch
- Battery-operated
- Removable gooseneck (XLR connection)
- Solid version



ECM-450

Order No. 0233370

PA desktop microphone, with gooseneck.

- Electret, cardioid polar pattern
- Volume control for speech and chime
- Different types of chimes can be selected
- Automatic chime activation (can be switched off)
- Power is provided via enclosed power supply or batteries (not supplied)
- 1.5 m connection cable with 6.3 mm connector (on both ends)



ECM-310P

Order No. 0232430

PA desktop microphone, with

gooseneck.

- Electret, cardioid polar pattern
- Phantom power
- ON/OFF switch
- 3 m connection cable with XLR plug, balanced



ECM-200

Order No. 0230280

PA desktop microphone, with gooseneck.

- Electret, omnidirectional polar pattern
- Push-to-talk button and lock button



PDM-302

Order No. 0235560

PA desktop microphone, with gooseneck.

- Dynamic, cardioid polar pattern
- Low-noise toggle switch, latching or non-latching
- 5 m connection cable with XLR plug, balanced



PDM-300

Order No. 0231200

PA desktop microphone, with gooseneck.

- Dynamic, cardioid polar pattern
- Low-noise toggle switch, latching or non-latching
- 1 m helix cable, balanced, with 6.3 mm mono plug



Model	ECM-500	ECM-450	ECM-310P	ECM-200	PDM-302	PDM-300
Polar pattern	cardioid	cardioid	cardioid	omnidir.	cardioid	cardioid
System	electret	electret	electret	electret	dynamic	dynamic
Audio frequency range	100-16,000 Hz	100-12,000 Hz	80-14,000 Hz	60-12,000 Hz	60-12,000 Hz	60-12,000 Hz
Nominal impedance	600 Ω	600 Ω	250 Ω	1 kΩ	600 Ω	600 Ω
Sensitivity	3.9 mV/Pa	3.2 mV/Pa	8 mV/Pa	6 mV/Pa	3.2 mV/Pa	3.2 mV/Pa
S/N ratio	> 40 dB	> 40 dB	> 55 dB	> 40 dB	-	-
Power supply	2 x 1.5 V batt. AA size	via encl. power supply	= 22-48 V, phantom power	1 x 1.5 V batt. AA size	=	=
		or 2 x 1.5 V batt. C size				
Dimensions	135 x 60 x 145 mm (console	180 x 50 x 130 mm (console	Ø 80 mm x 25 mm (console	75 x 25 x 110 mm (console	120 x 60 x 160 mm (console	120 x 60 x 160 mm (console
	housing)	housing)	housing)	housing),	housing)	housing)
	450 mm (length of gooseneck)	210 mm (length of gooseneck)	200 mm (length of gooseneck)	200 mm (length of gooseneck)		310 mm (length of gooseneck)
Weight	1.46 kg	925 g	380 g	298 g	1 kg	810 g
Cable	-	1.5 m	3 m	3 m	5 m	1 m
Connection	1 x XLR	6.3 mm jack	XLR, bal.	6.3 mm plug	XLR, bal.	6.3 mm plug
		low-voltage jack				

DMG-700

Order No. 0232630

Dynamic gooseneck microphone

- Balanced connection
- Cardioid polar pattern
- 3-pole XLR connection
- Total length: 700 mm
- Supplied with microphone windshield WS-40

Model	DMG-700
Polar pattern	cardioid
System	dynamic
Audio frequency range	80-16,000 Hz
Nominal impedance	500 Ω
Sensitivity	1.4 mV/Pa
Dimensions	Ø 30 mm x 700 mm
Weight	232 g
Connection	3-pole XLR



DMG-600

Order No. 0231560

Dynamic gooseneck microphone

- Balanced version
- Cardioid polar pattern
- 3-pole XLR plug
- Total length: 565 mm

Model	DMG-600
Polar pattern	cardioid
Audio frequency range	200-12,000 Hz
Nominal impedance	500 Ω
Sensitivity	2 mV/Pa
Dimensions	Ø 21 mm x 565 mm
Weight	162 g
Connection	XLR



DMG-450

Order No. 0232620

Dynamic gooseneck microphone

- Balanced connection
- Cardioid polar pattern
- 3-pole XLR connection
- Total length: 450 mm
- Supplied with microphone windshield WS-40

Polar pattern cardioid System dynamic Audio frequency range 80-16,000 Hz Nominal impedance 500 Ω Sensitivity 1.4 mV/Pa Dimensions Ø 30 mm x 450 mm	Model	DMG-450
Audio frequency range 80-16,000 Hz Nominal impedance 500 Ω Sensitivity 1.4 mV/Pa	Polar pattern	cardioid
Nominal impedance $500 Ω$ Sensitivity $1.4 mV/Pa$	System	dynamic
Sensitivity 1.4 mV/Pa	Audio frequency range	80-16,000 Hz
,	Nominal impedance	500 Ω
Dimensions Ø 30 mm x 450 mm	Sensitivity	1.4 mV/Pa
	Dimensions	Ø 30 mm x 450 mm
Weight 170 g	Weight	170 g
Connection 3-pole XLR	Connection	3-pole XLR



DMG-400

Order No. 0231550

Dynamic gooseneck microphone

- Excellent sound characteristics
- Balanced version
- Cardioid polar pattern
- M10 threaded part (length: 8 mm)
- For console and front mounting
- Total length: 385 mm

Model	DMG-400	
Polar pattern	cardioid	
Audio frequency range	150-12,000 Hz	
Nominal impedance	500 Ω	
Sensitivity	2.2 mV/Pa	
Dimensions	Ø 28 mm x 385 mm	
Weight	219 g	
Connection	have soble ands	



DMS-5

Order No. 0235730

Desktop microphone base, for gooseneck microphones.

- High-quality reed switch (on/off)
- Selector switch for type of microphone (electret/dynamic)
- Non-slip diecast housing
- Microphone connection via XLR jack with latching device
- XLR output, balanced connection
- Operation via 48 V phantom power or two 1.5 V batteries AA size (not supplied)
- Dimensions: 140 x 50 x 155 mm
- Weight: 1.1 kg



DMS-1

Order No. 0233490

Desktop microphone base, for gooseneck microphones.

- On/off switch
- Non-slip diecast housing
- Microphone connection via XLR jack with latching device
- XLR output, balanced connection
- Dimensions: 135 x 55 x 145 mm
- Weight: 1.3 kg



MONACOR INTERNATIONAL INSTALLATION | 1161

EMG-650P

Order No. 0234330

Electret gooseneck microphone, with switchable low out filter

This microphone features an excellent radiation and a high speech intelligibility.

- Cardioid polar pattern
- Wide transmission range

Model	EMG-650P
Polar pattern	cardioid
System	electret
Audio frequency range	30-18,000 Hz
Nominal impedance	180 Ω
Sensitivity	4.5 mV/Pa
Max. sound pressure	130 dB
Power supply	9-48 V, phantom power
Dimensions	Ø 9/19 mm x 600 mm
Weight	171 g
Connection	XLR



EMG-610P

Order No. 0232810

Electret gooseneck microphone, with red lighting ring.

- Particularly suitable for PA applications
- Cardioid polar pattern
- Microphone windshield
- Threaded part: Ø 10 mm x 40 mm

Model	EMG-610P
Polar pattern	cardioid
System	electret
Audio frequency range	100-16,000 Hz
Nominal impedance	1 kΩ
Sensitivity	4 mV/Pa
Power supply	3-9 V, external via
	optional power supply
Dimensions	Ø 13/19 mm x 450 mm
Weight	175 g
Connection	bare cable ends



EMG-600P

Order No. 0232800

Electret gooseneck microphone, with red lighting ring.

- Particularly suitable for PA applications
- Cardioid polar pattern
- Microphone windshield
- 3-pole XLR plug

Model	EMG-600P
Polar pattern	cardioid
System	electret
Audio frequency range	100-16,000 Hz
Nominal impedance	1 kΩ
Sensitivity	4 mV/Pa
Power supply	= 3-9 V, external via
	optional power supply
Dimensions	Ø 13/19 mm x 445 mm
Weight	160 g
Connection	3-pole XLR



EMG-648P

Order No. 0233250

Electret gooseneck microphone, with red lighting

- Particularly suitable for PA applications
- Transformer-balanced
- Cardioid polar pattern
- Microphone windshield

Model	EMG-648P
Polar pattern	cardioid
System	electret
Audio frequency range	50-16,000 Hz
Nominal impedance	300 Ω
Sensitivity	4 mV/Pa
Power supply	9-48 V, phantom power
Dimensions	Ø 13/19 mm x 440 mm
Weight	160 g
Connection	3-pole XLR



EMG-500P

Order No. 0231980

Electret gooseneck microphone

- Transformer-balanced
- Cardioid polar pattern
- Microphone windshield
- 3-pole XLR plug
- Total length: 480 mm

Model	EMG-500P
Polar pattern	cardioid
System	electret
Audio frequency range	80-16,000 Hz
Nominal impedance	250 Ω
Sensitivity	5 mV/Pa
Max. sound pressure	130 dB
Power supply	9-48 V, phantom power
Dimensions	Ø 19 mm x 480 mm
Weight	194 g
Connection	3-pole XLR



ECM-10/SW

Order No. 0232720

ECM-10/WS

Order No. 0232730

Built-in electret microphones

- Particularly suitable for PA applications
- Metal housing
- Black (SW) or white (WS) cartridge cover

Model	ECM-10/SW	ECM-10/WS	
Polar pattern	omnidir.	omnidir.	
System	electret	electret	
Audio frequency range	30-17,000 Hz	30-17,000 Hz	
Nominal impedance	300 Ω	300 Ω	
Sensitivity	2.3 mV/Pa	2.3 mV/Pa	
Max. sound pressure	110 dB	110 dB	
Power supply	9-48 V, phantom	9-48 V, phantom	
	power	power	
Housing material	metal	metal	
Dimensions	Ø 30 mm x 71 mm	Ø 30 mm x 71 mm	
Weight	92 g	95 g	
Connection	XRL, bal. XRL, bal.		



GM-5212LDU

Order No. 0236290

GM-5215LDU

Order No. 0236310



Double gooseneck microphones with LED

- Back electret supercardioid cartridges
- High sensitivity
- 10 dB attenuator
- Low cut switch
- LED for indicating operating status
- Flexible positioning due to vertically adjustable goosenecks (160°)
- Common 3-pole XLR plug
- Operation via +48 V phantom power

Model	GM-5212LDU	GM-5215LDU
Polar pattern	supercardioid	supercardioid
System	back electret	back electret
Audio frequency range	80-18,000 Hz	80-18,000 Hz
Nominal impedance	220 Ω	220 Ω
Sensitivity	16 mV/Pa	16 mV/Pa
Max. sound pressure	125 dB	125 dB
Power supply	- 48 V phantom power	- 48 V phantom power
Dimensions	415 mm	492 mm
Weight	315 g	335 g
Connection	XLR, bal. XLR, bal.	



GM-5212L Order No. 0234410

GM-5218L

Order No. 0234420



Electret gooseneck microphones with LED

- Supercardioid polar pattern
- Natural sound
- Frequency response perfectly matched to the voice, precise voice reproduction
- Low susceptibility to acoustic feedback
- LED for indicating operating status
- Solid and high-quality workmanship to ensure a long service life
- Gooseneck with integrated 3-pole XLR plug
- Operation via external phantom power or desktop base DMS-5



Model	GM-5212L	GM-5218L
Polar pattern	supercardioid	supercardioid
System	electret	electret
Audio frequency range	80-18,000 Hz	80-18,000 Hz
Nominal impedance	220 Ω ± 30%	220 Ω
Sensitivity	12.6 mV/Pa	12.6 mV/Pa
Max. sound pressure	125 dB	125 dB
Power supply	48 V phantom power	48 V phantom power
Dimensions	465 mm	615 mm
Weight	165 g	185 g
Connection	XLR, bal.	XLR, bal.



GML-5212

Order No. 0234560





Electret gooseneck microphones with LED

- 3 replaceable microphone cartridges with different polar patterns (cardioid, supercardioid and omnidirectional)
- Excellent speech intelligibility
- -10 dB PAD switch
- Switchable low cut filter
- LED for indicating operating status
- Solid and high-quality workmanship to ensure a long service life
- Gooseneck with integrated 3-pole XLR plug
- Operation via external phantom power or microphone base DMS-5



Model GML-5212		GML-5218	
Polar pattern	cardioid/supercardioid/omnidir.	cardioid/supercardioid/omnidir.	
System	back electret	back electret	
Audio frequency range	80-18,000 Hz	80-18,000 Hz	
Nominal impedance	220 Ω ± 30%	220 Ω ± 30%	
Sensitivity	16 mV/Pa	16 mV/Pa	
Max. sound pressure	125 dB	125 dB	
Power supply	- 48 V phantom power	48 V phantom power	
Dimensions	465 mm	615 mm	
Weight	230 g	245 g	
Connection	XLR, bal.	XLR, bal.	



GM-5212 Order No. 0234380

GM-5218 Order No. 0234390



Electret gooseneck microphones

- Supercardioid polar pattern
- Excellent sound with a very high speech intelligibility
- Minimum susceptibility to acoustic feedback
- Solid and high-quality workmanship to ensure a long service life
- Gooseneck with integrated 3-pole XLR plug
- Operation via external phantom power or microphone base DMS-5



Model	GM-5212	GM-5218
Polar pattern	supercardioid	supercardioid
System	back electret	back electret
Audio frequency range	80-18,000 Hz	80-18,000 Hz
Nominal impedance	220 Ω ± 30%	220 Ω
Sensitivity	16 mV/Pa	16 mV/Pa
Max. sound pressure	125 dB	125 dB
Power supply	48 V phantom power	48 V phantom power
Dimensions	455 mm	605 mm
Weight	165 g	185 g
Connection	XLR, bal.	XLR, bal.



LA-402

Order No. 0179160



Active loop amplifier, with dynamic compressor for setting up an audio induction loop system in large rooms up to 750 m².

Inductive transmission of audio signals allows users of hearing aids with a T-coil or induction loop receivers, e.g. the LR-202, to receive audio signals. Wireless transmission is an advantage of audio induction loop systems which makes it possible for the user to move freely within the loop.

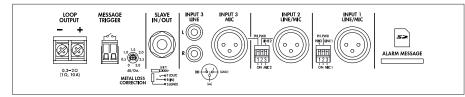
Audio induction loop systems are used for various applications, e.g. as a hearing aid for the hearing impaired in houses of worship, theatres, cinemas, waiting rooms and lounges, as interpreting systems, for lectures in museums, exhibitions, etc.

With audio induction loop systems, an induction loop made of a wire winding is laid on the floor, the wall or along the ceiling and is controlled by a constant current amplifier. Thus, a magnetic field is created within the loop which induces a voltage into the T-coil of the hearing aid or into the induction loop receiver. In the receivers, this voltage is then converted again into an audio signal.



- Dynamic compressor
- Automatic talkover
- Metal loss correction 0-3 dB/oct.
- 3 mic/line inputs with 40 V phantom power, to be activated as required
- 6.3 mm input for inserting external devices
- Integrated SD card reader for reproduction of stored alarm messages
- 2-way tone control
- LED level meter
- 482 mm (19") rack installation with supplied mounting brackets

Model	LA-402
Loop current	14 A (peak)
Loop resistance	0.2-2 Ω
Room size	up to 750 m ²
Inputs	mic 1.5 mV/6.8 k Ω , XLR, bal.
	switchable to
	line 630 mV/10 kΩ, XLR, bal.
	line 630 mV/4.7 kΩ, RCA, unbal.
	alarm: 2 screw terminals
	for connecting a switch
Outputs	loop: 2 screw terminals
Equalizer bass	±10 dB, 100 Hz
Equalizer treble	±10 dB, 10 kHz
Frequency range	50-8,000 Hz
THD	< 1%
Admiss. ambient temp.	0-40 °C
Power supply	~ 230 V/50 Hz/230 VA
Dimensions	482 x 88 x 280 mm, 2 RS
Weight	6.97 kg



LA-202Order No. 0176360



Active loop amplifier, in constant current technology with dynamic compressor for setting up an audio induction loop system in rooms up to 200 m². Inductive transmission of audio signals allows users of hearing aids with a T-coil or induction loop receivers, e.g. the LR-202, to receive audio signals. Wireless transmission is an advantage of audio induction loop systems which makes it possible for the user to move freely within the loop.

Audio induction loop systems are used for various applications, e.g. as a hearing aid for the hearing impaired in houses of worship, theatres, cinemas, waiting rooms and lounges, as interpreting systems, for lectures in museums, exhibitions, etc.

With audio induction loop systems, an induction loop made of a wire winding is laid on the floor, the wall or along the ceiling and is controlled by a constant current amplifier. Thus, a magnetic field is created within the loop which induces a voltage into the T-coil of the hearing aid or into the induction loop receiver. In the receivers, this voltage is then converted again into an audio signal.



- Dynamic compressor
- Automatic talkover
- Metal loss correction 0-3 dB/oct.
- 3 mic/line inputs with 40 V phantom power, to be activated as required
- 6.3 mm input for inserting external devices
- Integrated SD card reader for reproduction of stored alarm messages
- 2-way tone control
- LED level meter
- 482 mm (19") rack installation with supplied mounting brackets

Model	LA-202	
Loop current	7 A (peak)	
Loop resistance	0.2-2 Ω	
Room size	up to 200 m ²	
Inputs	mic 1.5 mV/6.8 k Ω , XLR, bal.	
	switchable to	
	line 630 mV/10 k Ω , XLR, bal.	
	line 630 mV/4.7 k Ω , RCA, unbal.	
	alarm: 2 screw terminals	
	for connecting a switch	
Outputs	loop: 2 screw terminals	
Equalizer bass	± 10 dB, 100 Hz	
Equalizer treble	± 10 dB, 10 kHz	
Frequency range	50-8,000 Hz	
THD	< 1%	
Power supply	~ 230 V/50 Hz/150 VA	
Dimensions	482 x 88 x 280 mm, 2 RS	
Weight	7 kg	

LOOP OUTPUT	MESSAGE TRIGGER	SLAVE INPUT	B INPUT 3	INPUT 2 LINE/MIC	INPUT 1 LINE/MIC	
- +	1.0 1.5 2.0 0.5 3.0 dg/Oct METAL LOSS CORRECTION	SRT ROUTI		UNKEZ (PRI PAVE (A) Jave 1 123 on Ander 1	ALARM MESSAGE

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LA-40

Order No. 0172330

Active loop amplifier, with dynamic compressor, specifically for setting up an audio induction loop system in domestic locations (up to 40 m²).

The loop amplifier LA-40 transmits the audio signals from a TV, audio system and/or microphone to the induction loop which is laid on the floor, the wall or along the ceiling. Thus, a magnetic field is created within the loop which is received by the T-coil of the hearing aid or the induction loop receiver and is then converted again into an audio signal. Wireless transmission is an advantage of audio induction loop systems. It makes it possible for the user to move freely within the loop and to adjust the volume of the hearing aid or receiving unit (LR-200) as desired, without disturbing the other occupants.

The LA-40 can be connected directly to the SCART jack of a TV (via supplied SCART adapter) or to an audio system. Talks of the other occupants can be heard via the connection of a microphone which is available at option. The integrated signal generator of the

LA-40 allows to create an alarm signal via an optional switch.

- Supplied with 35 m loop wire for setting up an induction loop, SCART adapter, power supply
- Integrated alarm signal can be activated as required
- Dynamic compressor
- Adjustable input sensitivity for line and microphone
- 2-way tone control
- Adjustable loop current
- LEDs for indicating power, signal/PEAK and loop current
- Headphone connection on the front panel
- Built-in phantom power for electret microphones
- Suitable microphone ECM-300LA is available at option





Model	LA-40
Loop current	2.8 A
Loop resistance	0.4-2 Ω
Room size	≤ 40 m ²
Inputs	mic: 2 mV/660 Ω
	(phantom power: 7.2 V)
	6.3 mm jack
	line: 48 mV/11 kΩ, 2 x RCA
	alarm: 2 terminals
	for connecting a switch
Outputs	loop: connection of the supplied loop
	via 2 terminals
	headphones: ≥ 32 Ω, 3.5 mm jack
Equalizer bass	± 8 dB, 100 Hz
Equalizer treble	± 10 dB, 10 kHz
Frequency range	75-7,500 Hz, ±3 dB
THD	0.44%
Power supply	via encl. power supply
Dimensions	175 x 102 x 45 mm
Weight	510 g











LR-202

Order No. 0176370

Induction loop receiver, for receiving audio signals in audio induction loop systems. The electromagnetic field which is created by an induction loop is received by the induction loop receiver and converted into an audio signal. Any number of receivers can be operated within one induction loop.

The unit is suitable for people with and without hearing problems and can be used for various applications: Hearing aid for the hearing impaired Operational test of audio induction loop systems Detection of stray radiation within a loop

Lectures in museums, at exhibitions, etc.

- 3.5 mm mono connection fo headphones \geq 32 Ω
- Volume control
- Low cut switch
- Belt clip
- Power supply via 9 V battery
- Dimensions: 60 x 112 x 35 mm
- Weight: 60 g

Model	LR-202
Power supply	9 V battery
Admiss. ambient temp.	0-40 °C
Dimensions	60 x 112 x 35 mm
Weight	60 g
Connections	3.5 mm mono jack



NL-90

Order No. 0173090

Interpretation systems

Induction loop, for wireless transmission of audio signals to hearing aids via optional pocket transmitter.

- Comfortable to wear around the neck (loop diameter: approx. 26 cm)
- Matching the pocket transmitters ATS-10R, ATS-16R, ATS-40R, TXA-800R
- 3.5 mm stereo jack connection



AUDIOPOINT-3

Order No. 0179040



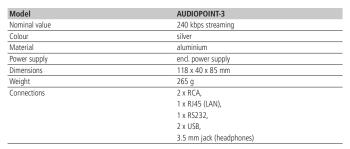
Audio streamer

AUDIOPOINT-3 allows you to stream analogue audio signals, such as live audio, music or speech, with low latency to multiple portable devices and is ideally suited for the application in houses of worship, museums, lecture halls, schools and at trade shows or conferences.

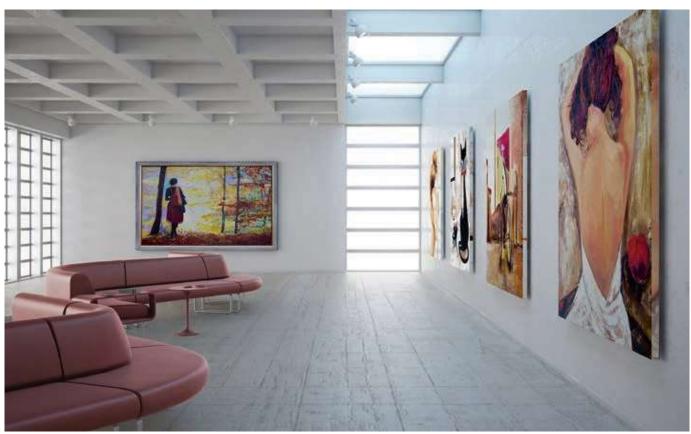
- 50 users max. at the same time (up to 250 users after licence upgrade)
- 2 mono audio input channels
- Audio format: PCM/24 kHz/16 bits/mono
- No cloud server required
- Compatible with standard Wi-Fi routers
- Automatic detection and dynamic list of channels available (feature also available when using multiple devices)
- Easy installation, programming via web browser, access via IP address
- Free apps for Android and iOS are available from the respective store











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All products of MONACOR INTERNATIONAL are tested continuously to ensure a constant quality level and to maintain quality standards. All products which are subject to the CE guidelines as well as the electric and electronic subassemblies which are subject to the directive for motor vehicles are tested according to the respective standards and carry the CE mark. These products can thus be sold in all EC countries without further tests or approvals.

General Information

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- HDMI™ is a registered trademark of HDMI Licensing L.L.C.
- We cannot be held responsible for printing errors, should they occur. We reserve the right to make technical changes without prior notice.
- Specifications stated are according to information provided by the manufacturer.
- Due to production tolerances, technical data may vary slightly.
- Damage resulting from unauthorised servicing of the products thus causing changes as well as improper handling resulting in consequential damage are excluded from the warranty. We will not be liable for changes of the state of the products resulting from improper storage, other interventions or improper use.
- Lithium batteries have to meet special regulations for transportation and storage. Before
 dispatching such products, please pay attention to the safety notes in the section 'Downloads'
 on our website.
- If the devices are interfered with, the CE approval will no longer apply. All products are usually suitable for indoor use only, unless stated otherwise. The products are not suitable for installations into aircrafts or for surface mounting onto aircrafts.
- The devices do not correspond to the medical products directive 2007/47/EC.
- If the devices are permanently taken out of operation, they must be taken to a local recycling plant for disposal which is not harmful to the environment.

Technical Information

- Before first use of the products, please read the instruction manual carefully!
- The products correspond to the directive for electromagnetic compatibility 2014/30/EU, the
 directive 2011/65/EU (RoHS) with the addition EU/2015/863 and where applicable to the
 low voltage directive 2014/35/EU with the directive 2009/125/EC (ErP) and the regulation
 2019/1782.
- When operating with voltages of over 42 V, please always follow respective safety measures.
- Before opening any product operated with 230 V mains voltage, disconnect device from the mains
- Make sure that the supply voltage is disconnected before working on components and modules.
 Existing capacitors must be discharged.
- Mains cables and test cables must be checked for damage on a regular basis. Never pull on the cable to disconnect the plug from the socket.
- Mains cables and fuses must only be replaced by skilled personnel.
- Unless otherwise stated:
- protect the products from moisture and heat,
- always observe the admissible ambient temperature of 0–40 $^{\circ}\text{C}.$
- Do not use a very high volume level when using headphones. Permanent high volume may damage your hearing! Do not wear headphones while particular attention must be paid to your surroundings, e.g. in traffic.
- A soldering process which is too long and too hot may cause damage to the corresponding products. Choose a soldering temperature that is suitable for the material used. No liability can be assumed for damage to the product or consequential damage caused by improper handling.
- The plugs, jacks, switches, rotary switches and potentiometers shown in this catalogue are only suitable for connection to safety extra low voltage (SELV) or signal voltage unless the item is designed for a higher voltage (see text or table).
- If the fixing nuts of panel jacks or panel plugs are overtightened, it may cause damage to the whole component. In case of improper handling, no liability can be assumed for this or any consequential damage.
- The heat must be eliminated by air circulation. Therefore, do not cover ventilation slots with anything. Do not put or drop anything through the ventilation slots. Otherwise, there will be danger of an electric shock.
- Only use a dry, soft cloth for cleaning the products. Chemicals must not be used in any case.
- LED lights and LED lamps contain various components which may generate noise in unfavourable
 conditions. There may be audible resonances caused by installation, design of the lamp and the
 base as well as dimmer or transformer.

Notes on Devices with Network/Internet Access

Please note that each device connected to a network with Internet access is part of a worldwide network. In order to protect your privacy and to prevent unauthorised people accessing your network and the devices connected, please protect your login details with an individual password prior to initial installation. Please take this into consideration when assigning future passwords in connection with devices, software and apps available in the network, e.g. when setting up user accounts. Passwords should never be disclosed to third parties! Furthermore, please note that any device which has been connected to the network should be reset before being sold or disposed of. This is the only way to ensure that all your personal data is erased permanently.

Information on the German Product Liability Act

According to the law dated 15 December 1989 governing product liability which was last amended by the law dated 19 July 2002, manufacturers, importers and retailers are obliged to compensate for damage caused by a faulty product under certain prerequisites.

A product can already be considered faulty if its presentation leaves a private, non-commercial end user with a wrong impression as to its safety in use or if it is to be expected that the private end user will not observe the required safety regulations when using the product or will apply an excessive operating voltage to it, except if this user has been informed as to the necessity to observe the safety regulations and specified voltages, etc.

In your own interest and for your customers' safety, therefore please draw your non-commercial customers' attention to the following:

The products listed in this catalogue may only be used for the stated purpose. If there are any doubts as to the purpose of the goods, questions must be clarified with an authorised expert or with the service department of MONACOR INTERNATIONAL.

The following EN standards and VDE (Verband Deutscher Elektrotechniker = Association of German Electrical Engineers) regulations must be observed:

Electromagnetic Compatibility:

EN300422, EN301489, EN55013, EN55103-1, EN55103-2, EN61000-3-2, EN61000-3-3, EN61000-6-1, EN61000-6-3

Low Voltage Directive:

DINVDE0100, DINVDE0532, EN60065, EN60335, EN60598, EN60950, EN61010, EN62471

Motor Vehicles Directive:

Directive 2004/104/EC

In Germany, the above-mentioned regulations can be obtained from:

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 VDE-Verlag GmbH
 VDE-Verlag GmbH

 Bismarckstraße 33
 Postfach 120143
 Goethering 58

 10625 Berlin
 10591 Berlin
 63067 Offenbach

 Germany
 Germany
 Germany

Phone: +49 30 348001-0 Phone: +49 69 840006-0 Fax: +49 30 348001-9088 Fax: +49 69 840006-1399

Notes Regarding the Approval of Wireless Systems

The wireless microphone systems in the frequency ranges 863 MHz to 865 MHz and 2.4 GHz are generally approved and licence-free in the EU.

The wireless systems in the frequency range 506 MHz to 542 MHz, 518 MHz to 542 MHz, 672 MHz to 694 MHz are generally approved according to directive 34/2020 and are licence-free in Germany.

Every wireless system has been examined by a notified body and has been approved in the EU according to the RED directive. However, a frequency assignment for the systems in the frequency range 740 MHz to 776 MHz, 823 MHz to 832 MHz and 1.8 GHz for the corresponding area in which the device is to be used must be applied for at the respective national authority. There are restrictions or requirements within the EU.

In Germany, the frequency assignment has to be applied for at the corresponding branch of the Federal Network Agency (BnetzA, Germany).

The declaration of conformity can be found on our website: www.monacor.com, www.img-stageline.com or www.jts-europe.com. The forms for the frequency assignment can be found on the website of the Federal Network Agency www.bundesnetzagentur.de. For countries outside of Europe, please consult the authorities of the corresponding country.

Please observe the notes in the operating instructions.

MONACOR INTERNATIONAL GmbH & Co. KG; April 2020

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