



PRO SOUND

RCF offers modern sound reinforcement solutions for the market of professional users, consisting of innovative products that were engineered and manufactured to satisfy the needs of rental and production companies.

RDNet REMOTE MONITORING AND CONTROL SYSTEMS

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SUITABLE FOR ALL SYSTEMS

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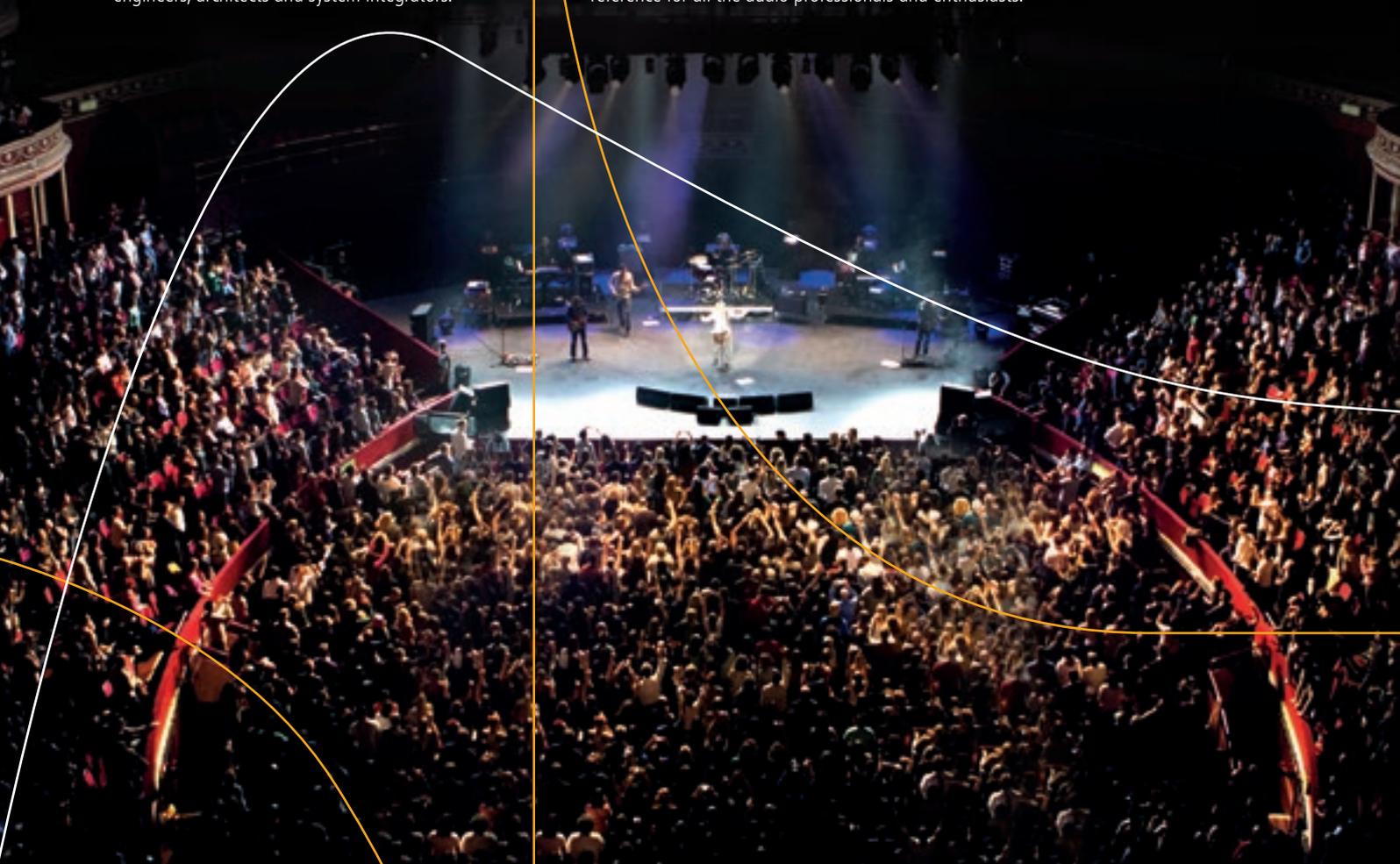
RCF Sound Culture

AT RCF WE CARE ABOUT YOUR SOUND.

Since 1949 RCF has been committed to the perfect reproduction and amplification of sound in the fields of professional audio for events, music, broadcast and public address. We bring typical Italian passion for perfection and good design in the audio universe. RCF researches and develops every product from scratch, to ensure the maximum quality and reliability to the final user. The complete range of products covers all the aspects of the audio chain and all the requirements of musicians, sound engineers, architects and system integrators.

RCF markets its products through sales offices in the United Kingdom, Germany, France, Spain, the United States, and a network of trusted professional distributors in the rest of the world.

RCF has always shared the knowledge, experience, and skills of its engineers in training activities, seminars, and demos for all audio professionals. At the same time, the internal support engineering team assists customers with the design of complex systems. The solid know-how, crafted from nearly 70 years of history, along with continuous technological innovation, makes RCF a fundamental reference for all the audio professionals and enthusiasts.



/ PRO SOUND

The concept of this unique speakers derives from the touring industry, bringing in a versatile format all the experience of RCF professional sound. The vocals are natural, the sound is clear at longer distances, the SPL power is stable at very high levels. Perfect for live sound reinforcement and reliable in installed applications.

/ DSP

The new generation DSP handles all the processing within the cabinet and allows control of soft clipping limiters, RMS limits, amplitude and phase equalization. From the encoder on the input panel it is possible to adjust gain, low pass and high pass crossovers, delay, phase and cardioid equalization. Using the integrated RDNet remote control it's also possible to monitor and to access to all the setting.

New perspective on linearity



FIRPHASE

RCF speakers are designed using a proprietary and advanced FIR filtering technology, conceived to deliver transparent sound, absolute clarity and perfect stereo images to the listener. The special FIRPHASE filters allow to achieve coherent distribution of sound for all listeners without phase distortions, ensuring minimum latencies to the system.

PHASE MATTERS

The design of the FIR filter for this specific purpose should start from an accurate measurement of the loudspeaker phase. FIRPHASE algorithm use this measurement and adapt the loudspeaker's phase without touching the amplitude equalization. The heart of the advanced technique used by FIRPHASE is a recursive method (least squares method) combined with a proprietary algorithm that calculates the best FIR filter coefficients set in according to amplitude and phase constrains. The algorithm corrects phase and amplitude (if necessary) by taking into account the weak points of the transducers and the resonances or cancellations due to the cabinet of the loudspeaker. This technique allows a deep control of phase at mid-low frequency with relatively small filters, reaching a higher resolution than that one as theory suggests.



/ TRANSDUCER INNOVATORS

RCF design all the transducers to deliver a definite and clear sound, where the loudspeaker is able to reproduce a sound most as possible close to the original, combining the absence of distortion and the ability to withstand high power levels over a long period of time. RCF develops advanced transducer technology including the application of high-tech materials.

/ RENTAL PROOF HARDWARE

The cabinets are made by the highest quality materials. From wood, plastics and metal parts to the final texture, RCF offers the maximum reliability and strength for the intensive use on the road in every product. The integrated mechanics allow the system engineer to create any arrangement easily and safely.



Monitoring And Management Network

RDNet is a proprietary protocol for RCF products that provides straightforward and intuitive monitoring and control of the audio system down to every device/object. Each device has its own DSP, so it is possible to address specific presets or modifications of parameters to single or groups of objects. A network user can change level, delay, EQ (including FIR) and other parameters, including advanced subwoofer configurations. Not only loudspeakers: it is possible to control routing and parameters of multiple RCF devices, such as digital matrixes or amplifiers. RDNet checks all the connected devices, recognises, and adds them as objects on the main window, thanks to the auto-scan function. The real-time monitoring features a multitude of parameters such as fan speed, temperature, inclination of the single speaker, VU Meters and peak levels. The RDNet protocol runs on the ultra-stable RS-485 communication.



- Auto Scan
- Array and Zones Grouping
- Recall and Save System Presets
- Adjust gain and delay on individual components
- Complete Real Time Monitoring
- Real Time multiple-type EQ and FIRPHASE EQ
- Easy Cardioid, Endfire and Arc Array Subwoofer configuration
- Automatic Cluster Size shaping and Air Compensation

/ DOWNLOAD THE SOFTWARE



The RDNet software is freely available for registered users on RCF's website Download Section

/ AUTO SCAN

When online the RDNet Control 8 unit sequentially scans all audio devices, automatically labelling them with digital addresses. The loudspeaker objects are immediately added to the software synoptic as an object for each speaker (or any other audio device) found on the network.



MONITOR AND MANAGE

RDNNet checks all the connected devices, recognises and adds them as objects on the main window, thanks to the auto scan function. The real-time monitoring features a multitude of parameters like the fan speed, the temperature, the inclination of the single loudspeaker, VU Meters and peak levels.



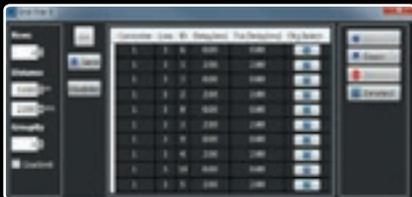
ADVANCED EQUALIZER

Every Zone has three different fixed FIR equalisers with gain control. Every Array Group has a global control of the FirPhase Gain for parallel increment/decrement of the Zone FIRs.



GET THE MOST OF YOUR SYSTEM

An incremental control to shape the Air Absorption Compensation, very useful in case of humidity or temperature changes (e.g. soundcheck on a sunny day, concert by night). The low-mid shaping of the line array is an automatic calculation based on the Cluster Size to always obtain the perfect linear frequency response from the whole system.



EASY SUBWOOFER CONFIGURATION

The new subwoofer configurations help the engineer to set up subwoofer Cardioids, Arcs or EndFire configurations in one go.

/ COMPLETE INDIVIDUAL SPEAKER CONTROL

The sound engineer has complete control of every single speaker, individually or grouped. Each device, with its own built-in communication board and DSP, is an active part of the brain of the system, able to store presets, receive commands and continuously send status information.

/ UNIQUE FEATURES

RDNNet has several new functions as well as multiple improvements. The protocol is now faster than ever, the new subwoofer configurations help the engineer to set up subwoofer cardioid, arcs or endfire configurations in one go. The real time EQ and the FIRPHASE filters are now easy to control on the same window. An Air Compensation function automatically adjust the array response on temperature/humidity changes on the environment.

HDL 50-A

ACTIVE THREE-WAY LINE ARRAY MODULE

The HDL 50-A is an active 3-way line array module for large events, indoors and outdoors. Equipped with 2x12" woofers, 4x symmetrical 6.5" midranges and two 2" drivers, it offers excellent playback quality and high sound pressure levels with a built-in 4400W powerful digital amplifier. Using advanced neodymium magnets and a groundbreaking new housing constructed from lightweight plywood and polypropylene, it has a remarkably low weight of only 56 kg.

- 140 dB SPL Max
- 4400 W peak 3-way class-D switching amplifier
- 40 - 20000 Hz Frequency Range
- 90° x 10° wide, constant directivity coverage angle
- 2 x 3" neodymium Compression Drivers
- 4 x 6" neodymium Midrange
- 2 x 12" high power neodymium Woofer
- 200-800 Hz Crossover Frequency
- Wooden reinforced polypropylene composite cabinet
- **FIRPHASE**
- RDNet remote monitoring and control
- 366x1171x502 mm - 14,4x46,1x19,8 in (HxWxD)
- 56/123,45 kg/lbs



**RDNET
ON BOARD**



p.n. 130.00.477 (90-240V)

MAXIMUM EFFICIENCY

The HDL 50-A is a true active high power ready to use touring system. Equipped with a high efficiency class-D amplifier that delivers superior SPL, while reducing energy requirement. The integrated processing and the cabling reduction will make the set-up faster and easier and, thanks to its compact size, the truck space requirement reduces to the minimum.



HDL 50-A INSIDE VIEW

/ LOW FREQUENCIES

- 2 X 3.0" v.c. neodymium 12" Woofers
- Water resistant fiber doped cone
- Polycotton M-roll surround
- Hypervented magnetic structure

/ MID FREQUENCIES

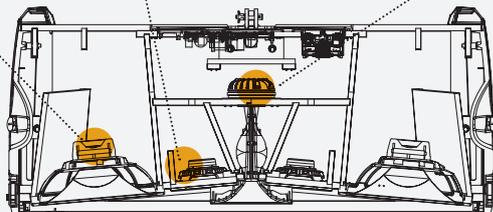
- 4 x 2.0" v.c. 6.0" neo Midranges
- Water resistant fiber doped cone
- Polycotton M-roll surround
- High power magnetic structure

/ HIGH FREQUENCIES

The two ND850 large format compression driver deliver one of the key advantages of the HDL 50-A, the 3.0" voice coil allows a crossover point of 800 Hz and therefore this driver can produce almost all of the vocal range. This allows better coverage and superior efficiency.



4 PATH WAVEGUIDE



The custom 4PATH designed waveguide allows a precise coverage of 90 x 10 degrees, while also delivering a superb, linear high frequency response. The unique shape of the four ducts forming the guide creates an ideal isophasic load from 700 Hz to the highest audible frequencies.

/ V-SHAPED SYMMETRICAL DESIGN

The symmetrical design of the cabinet produces identical left and right coverage. The component positioning and special DSP crossover filtering of the HDL50-A takes care of the constant directivity without spots of break up or attenuation.

The originally designed V-SHAPED front baffle provides:

- Coplanar midranges and woofers
- Controlled LF dispersion
- Central space to host the HF guide.

FLYABLE MATCHED SUBWOOFER

HDL 53-AS

ACTIVE HIGH POWER BASS MODULE

The HDL 53-AS is the perfect extension to HDL 50-A. This 3x12" subwoofer comes in the same housing of the HDL 50-A and allows perfect integration in the array shape: flown above HDL 50-A in one array or as separate Sub-Array behind HDL 50-A array with the same shape to allow cardioid dispersion in a wide low and low-mid range to keep the stage clean from feedbacks.



p.n. 130.00.508 (90-240V)



RDNET
ON BOARD

- 139 dB SPL Max
- 3300 W peak 3-way class-D switching amplifier
- 35 - 120 Hz Frequency Range
- 3 x 12" high power Woofer
- Selectable Crossover Frequency
- Wooden reinforced polypropylene composite cabinet
- **FiRPHASE**
- RDNET remote monitoring and control
- 366x1171x502 mm - 14,4x46,1x19,8 in (HxWxD)
- 50/110,1 kg/lbs

30

HDL 30-A

ACTIVE TWO-WAY LINE ARRAY MODULE

The RCF HDL 30-A is a compact bi-amped 2-way active touring system for medium to large events, both indoors and outdoors. It features two 10-inch woofers and an impressive 4-inch titanium compression driver. The time coherent waveguide is the result of in-depth research and design. HDL 30-A is the first line array in a composite cabinet with zero-degree phase and ultra-linear amplitude response. The built-in 2200 watt class-D amplifier delivers excellent playback clarity and up to 137 decibels SPL max. The RCF HDL 30-A features state of the art RCF transducers with neodymium magnets. Considering its acoustical power, it has a remarkably low weight for easy handling and flying.



RCF's experienced engineering teams have developed and matched each component starting from the amplifier design, including a dedicated input board, from transducers right up to the complete HDL 30-A system. All HDL 30-A systems are hand-crafted by RCF.



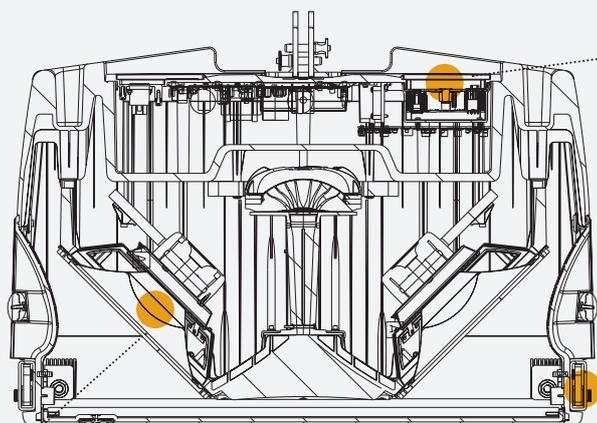
/ RDNet INSIDE

Thanks to the RCF RDNet Networked Monitoring and Control, the system engineer is able to carry out a large number of functions.

- 137 dB SPL Max
- 2200 W peak 2-way class-D switching amplifier
- 50 - 20000 Hz Frequency Range
- 100° x 15° wide, constant directivity coverage angle
- 1 x 4" neodymium Compression Drivers
- 2 x 10" high power neodymium Woofer
- 680 Hz Crossover Frequency
- Wooden reinforced polypropylene composite cabinet
- **FiRPHASE**
- RDNet remote monitoring and control
- 293x705x502 mm - 11,5x27,7x19,7 in (HxWxD)
- 25/55.1 kg/lbs

“ a lightweight champion with an impressive punch! „

INSIDE VIEW



/ DSP

The special FIRPHASE filters allow coherent distribution of sound to be achieved for all listeners without phase distortion. Air Compensation for individual cabinet or groups helps to compensate the common frequency loss in air on long throw applications.

/ MECHANICS

High strength enclosure in composite polypropylene with a revolutionary new rigging concept inspired by its big brother: the RCF HDL 50-A. Given its acoustical power, it has a remarkably low weight for easy handling and flying.

/ TRANSDUCERS

State of the art RCF transducers with neodymium magnets. Two 10" woofers and an impressive 4" titanium compression driver on a symmetrical design, for constant horizontal coverage. The time coherent waveguide is the result of 3 years of research and design.



**RDNET
ON BOARD**



p.n. 130.00.511 (90-240V)

ADVANTAGES

- High Power
- Low Weight
- Symmetrical acoustic design
- RDNET remote control and monitoring
- Air Compensation
- Easy to stack and fly

SUBWOOFERS

SUB 9007-AS

ACTIVE HIGH POWER SUBWOOFER

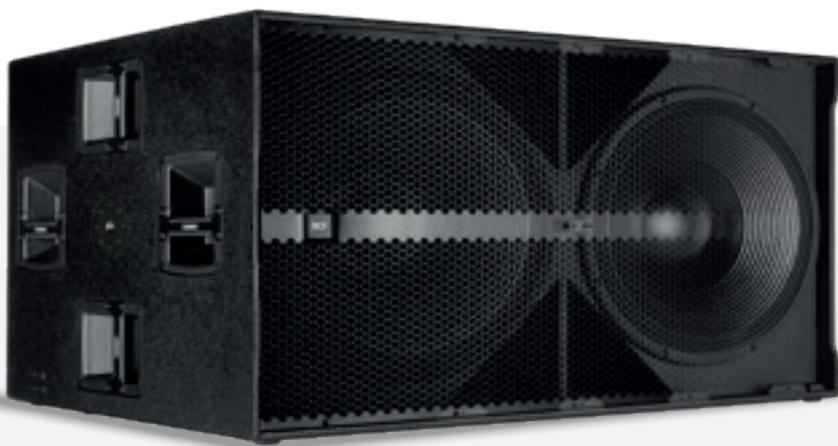
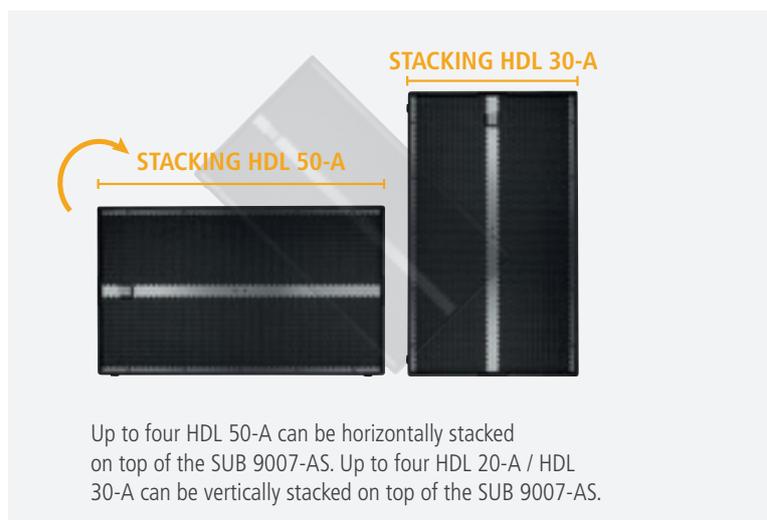
The SUB 9007-AS is one of the most powerful 2x21" subwoofers in the field of live sound. Featuring two, high power, hyper-vented 21" neodymium woofers with 4.0" inside-outside voice coils, this cabinet deliver a serious amount of low frequencies. Powered by a 7200 W digital amplifier, the SUB 9007-AS can perform in the most demanding situations. The housing of the SUB 9007-AS matches the RCF D-Line HDL50-A and HDL20-A array systems, enabling stacked systems to match in a perfect combination.

/ HEAVILY BRACED PLYWOOD CABINET

The cabinet is made of high quality birch plywood with every layer glued with a special water resistant adhesive that makes the cabinet weatherproof. The heavily braced internal structure of the cabinet survives long-term use and transportation and presents two separate acoustic chambers for the woofers and a separate housing for the amplifier to guarantee the best components efficiency and reliability. The heavy-duty front grille integrates a central reinforcement bar and is powder coated. The SUB 9007-AS is equipped with 8 aluminum handles (4 per side) with ergonomic rubber handgrip and is ready to be equipped with transportation wheels.

/ INDEPENDENT AMPLIFICATION CHANNELS

Two separate Class-D amplifiers ensure top efficiency levels and maximum reliability for an extensive use of the subwoofer during tours. Each amplifier delivers 3600 W to the 21" woofers and the regulated power supply guarantees full power from 100 V to 260 V. The amplifier houses on a unique Vibrostop floating aluminum panel for extra protection during transportation.



RDNET
ON BOARD

p.n. 130.00.493 (90-240 V)

“ true power
and accuracy ”



/ HYPERVENTED HIGH POWER NEODYMIUM WOOFERS

The new custom designed 21" transducers joins the ultimate power performance to the incredibly lightweight. RCF manufacture these components to deliver the cleanest, punchiest and undistorted low frequencies reproduction. In order to dissipate the heat generated by the powerful 4.0" voice coil, RCF engineers have developed a unique ventilation system that offers the best thermal dissipation and the lowest power compression. The Hyper Ventilation System is the result of a complex combination of ventilation ducts in the voice coil former, in the magnetic structure and in the woofer basket.

/ STACKING CONFIGURATIONS

Thanks to their purpose - made accessories, you can stack your HDL 10-A, HDL 20-A, HDL 30-A or NXL23-A on subwoofers to create many configurations. Up to four HDL 50-A can be horizontally stacked on top of the SUB 9007-AS. Up to four HDL 20-A / HDL 30-A HDL can be vertically stacked on top of the SUB 9007-AS.

- 7200 W
- 143 dB SPL Max
- 25 - 120 Hz Frequency Range
- 2 x 21" Hyper Ventilation neodymium Subwoofer
- DSP Controlled Input Section with selectable presets
- RDNet remote monitoring and control
- Delay Control
- Baltic Birch tour grade cabinet
- 708x1188x780 mm - 27,89x46,77x30,9 in (HxWxD)
- 98/216 kg/lbs



/ DSP PROCESSING

A new generation DSP handles all the processing within the cabinet and allows control of soft clipping limiters, RMS limits, amplitude and phase equalization. From the encoder on the input panel it is possible to adjust gain, low pass and high pass crossovers, delay, polarity and cardioid equalization. Using the integrated RDNet remote control it's also possible to access all these setting.



APPLICATIONS

- Portable PA, clubs, ballrooms, live theatre
- Live sound
- Rental
- House of worship
- Club sound, DJs

SUBWOOFERS

SUB 9006-AS

ACTIVE HIGH POWER SUBWOOFER

The SUB 9006-AS has been designed to render effortless low frequency transients with a very fast response. As a self-powered system, the transducers, amplification and DSP control electronics of the SUB 9006-AS are designed to optimize performance and maximize its power. The SUB 9006-AS's low tuned cabinet houses two RCF Precision new back-vented long-excursion high-power 18" inch cone drivers, providing a fast and controlled reproduction of the bass frequency range. It features a four-layer 4" inside/outside voice coil to minimize power compression and extend the life of this product.

/ HEAVY DUTY CABINET

The cabinet is made of high quality birch plywood with every layer glued with a special water resistant adhesive that makes the cabinet weatherproof. The heavy-duty front grille integrates a central reinforcement bar and is powder coated. The SUB 9006-AS is equipped with 8 aluminum handles (4 per side) with ergonomic rubber handgrip and is ready to be equipped with transportation front cart.

/ TWO INDEPENDENT CHANNELS

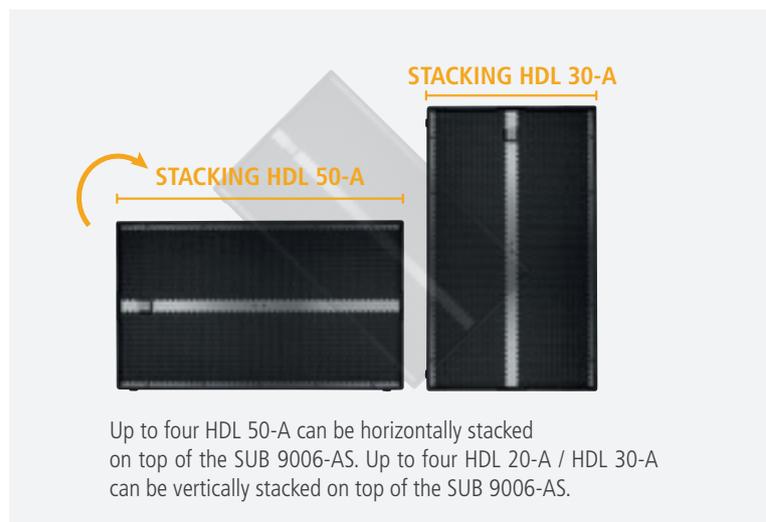
Two separate Class-D amplifiers ensure top efficiency levels and maximum reliability for an extensive use of the subwoofer during tours. Each amplifier delivers 3600 W to the 18" woofers and the regulated power supply guarantees full power from 100 V to 260 V.

/ LOCKING POINTS

The front of the cabinet integrates two locking points to insert and fix the wood protection cover that has been specially designed to protect the subwoofer during transportation. The accessory is made in strong Baltic birch plywood finished with a scratch resistant paint and can be left on even when using the TTS 56-A protection cover.

CUSTOM HIGH POWER NEODYMIUM WOOFERS

The new custom designed 18" transducers join the ultimate power performance to an incredible light weight. RCF manufacture these components to deliver the cleanest, punchiest and undistorted low frequencies reproduction. In order to dissipate the heat generated by the powerful 4.0" voice coil, RCF engineers have developed a unique ventilation system that offers the best thermal dissipation and the lowest power compression.



**RDNET
ON BOARD**



p.n. 130.00.494 (90-240 V)

- 7200 W
- 142 dB SPL Max
- 30 - 400 Hz Frequency Range
- 2 x 18" Hyper Ventilation neodymium Subwoofer
- DSP Controlled Input Section with selectable presets
- RDNet remote monitoring and control
- Delay Control
- Baltic Birch tour grade cabinet
- 558x1188x785 mm - 22,0x46,8x30,9 in (HxWxD)
- 86/189,59 kg/lbs



SUB 9004-AS

ACTIVE HIGH POWER SUBWOOFER

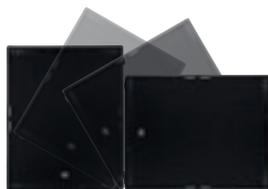
The SUB 9004-AS is a single 18" high power active subwoofer. It employs a state of the art transducer featuring a hyperventilated high power neodymium magnetic circuit with 4" voice coil. The extremely high power amplifier is a new design that delivers extended low frequency performance. Due to its rugged construction it is perfect for AV rental inventories.

STACKING HDL 30-A OR HDL 10-A

Up to four HDL 30-A can be horizontally stacked on top of the SUB 9004-AS.

Up to four HDL 10-A can be vertically stacked on top of the SUB 9004-AS.

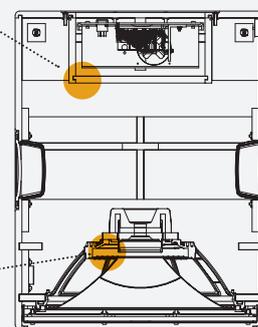
HDL 10-A HDL 30-A



INSIDE VIEW

/ PLYWOOD CABINET

The cabinet is made of high-quality birch plywood. Every layer is glued with a special water resistant adhesive that makes the cabinet perfectly weatherproof. The subs are stackable and light-weight, for an easy set-up and tear down. A pole receptacle on top and side allows the the woofer to be deployed in various situations.



/ HYPERVENTED HIGH POWER NEODYMIUM WOOFER

The new custom-designed 18" transducer combine ultimate power performance with incredibly light weight. In order to dissipate the heat generated by the powerful 4.0" voice coil, RCF engineers have developed a unique ventilation system that offers the best thermal dissipation and the lowest power compression.

Sophisticated DSP is at the core of a fully featured input section, providing user selectable cross-over functionality, polarity optimization, protection, dynamic limiting and discrete component optimization.



**RDNET
ON BOARD**

- 2800 W power rating
- 136 dB SPL Max
- 30 - 400 Hz Frequency Range
- 1 x 18" Hyper Ventilation Neodymium Subwoofer
- DSP Controlled Input Section with selectable presets
- RDNET remote monitoring and control
- Delay Control
- Baltic Birch Cabinet
- 700x557,5x700 mm - 27,55x21,9x27,55 in (HxWxD)
- 57/125.6 kg/lbs

p.n. 130.00.546 (90-240 V)

CONTROL

CONTROL 8

8 OUTPUT Ethernet/USB MASTER UNIT

The RNet Control 8 is a real-time monitor and control system able to manage up to 256 devices linked 32 per bus in 8 buses. All data is collected from the slaves and delivered to the sound engineer by USB in a local installation or by Ethernet from remote locations. The interface can be directly connected to the DSP on board of HDL products through the exclusive RNet protocol making it possible to address single cabinets or groups, specific presets or modification parameters in real-time. RNet software supports up to 20 CONTROL 8, all simultaneously linked to a computer via Ethernet, to get up to 160 RNet ports (up to 5120 devices).



/ CONTROL FLEXIBILITY

The PC cyclically requires the RNet Control 8 unit the operating state of audio devices that make up the communication network. All data are collected by the central unit that performs a sequential scan of all audio devices. Digital address allocation is automatic. Information relating to the functioning of all audio devices is acquired in real-time, feature that allows a network global view. It is possible to check each single audio device and edit its parameters (e.g. output level, mute, equalization, delay, etc.) by using the PC software. The audio device overall configuration can be saved as file in the PC and later reloaded. It is possible to synchronize all parameter values of the RNet Control 8 unit to the ones of the PC software preset.



/ COMMUNICATION FLEXIBILITY

The link between the PC and the RNet Control 8 unit can be made through USB port or Ethernet port.



/ TOPOLOGY FLEXIBILITY

The RNet Control 8 unit can manage up to 8 subnets. Up to 32 audio devices can be connected to each subnet (8 subnets x 32 = total 256 audio devices).



p.n. 171.70.154

- RNet control and monitoring in a single device by Ethernet or USB
- Up to 8 subnet of up to 32 slaves devices
- Automatic network configuration and registration
- Slave devices status and functions real time control
- Monitoring and display of faults and warnings
- User configurations storage and recall

“ control system able to manage up to 256 devices ”



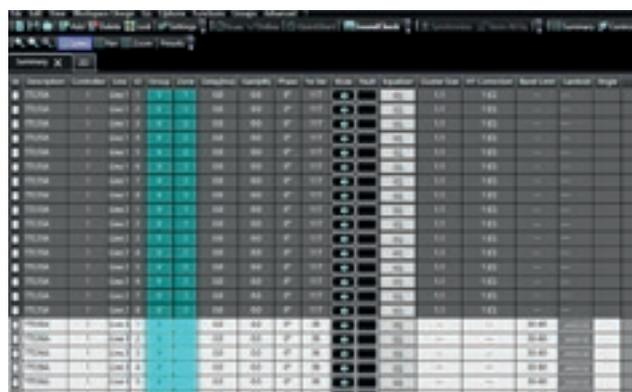
CONTROL 2

2 OUTPUT USB MASTER UNIT

The RDNet Control 2 is a hardware interface to connect RCF RDNet compatible devices (TTL55-A, TTL33-A II, etc.) to a Personal Computer (PC) by means of an USB connection. The RDNet system was purposely developed to create a data network for monitoring and command of more systems. The RDNet Control 2 unit can manage up to 2 subnets. Up to 32 devices can be connected to each subnet (2 subnets x 32 = total 64 devices). The addressing of the various devices is handled automatically by RDNet Control 2 interface. Each device is assigned a unique address during the power on procedure of network.



We have developed a dedicated networking board for the latest TT+ products. Using our proprietary RDNet protocol it is possible to monitor all the system parameters, from the input to the status of each single amplifier. Having a Dsp on board each cabinet, it is possible to address single cabinets or groups of cabinets' specific presets or modifications of parameters like gain, equalisation or delay. The RDNet protocol is based on RS-485 communication protocol, it is very stable and it is possible to send and receive data on a simple XLR cable.



p.n. 171.70.163 (USB POWERED)

- RDNet control and monitoring in a single device by USB communication
- Up to 2 subnet of up to 32 slaves devices
- Automatic network configuration and registration
- Slave devices status and functions real time control
- Monitoring and display of faults and warnings sent from slave devices
- User configurations storage and recall

“ full control from
a pocket size device ”

HDL 20-A

ACTIVE TWO-WAY LINE ARRAY MODULE

The careful acoustic design, no compromise transducers and a unique, composite cabinet, design make the HDL 20-A the preferred tool of many professionals. Perfect in live sound reinforcement and reliable installed situations.

The HDL 20-A is the ideal choice when line array performance is needed and a fast and easy set up is a must. The system is powered from a 1400 Watt Peak Power 2 way digital amplifier, sound is processed from a powerful DSP. The processing includes cluster and HF projection correction and special new presets for indoor and high curving situations. The system features state of the art RCF transducers, two powerful 10" for a solid bass reproduction and a large format 3" voice coil compression driver to deliver vocal clarity and high definition with an incredible dynamic.



p.n. 130.40.007 (220-240V) - 130.40.008 (115V)

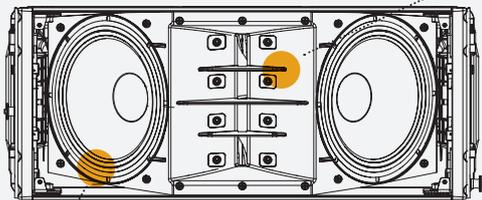
DSP PROCESSING

The HDL 20-A is powered by a 1400W peak power two-way digital amplifier. A new generation DSP handles all the processing within the cabinet and allows adjustment of Cluster size and HF projection. The DSP also includes presets for indoor/outdoor usage and highly curved arrays

- 135 dB max SPL
- 1400 W two-way class-D switching amplifier
- 55 - 20000 Hz Frequency Range
- 100° x 15° wide, constant directivity coverage angle
- 3.0" voice coil c. driver
- 2 x high power 10" Woofers
- 48 kHz, 32 bit DSP processing
- Symmetrical design
- 294x705x445 mm - 11,5x27,7x17,5 in (HxWxD)
- Extremely low weight 29/63.93 kg/lbs



INSIDE VIEW



/ LOW FREQUENCIES 10" WOOFERS

- 2,5" Inside-Outside voice coil
- Water resistant fibre doped cone
- Polycotton M-roll surround
- High power magnetic structure

/ HIGH FREQUENCIES

The CD850 large format compression driver delivers one of the key advantages of the HDL 20-A, the 3" voice coil allows a crossover point of 800Hz and therefore almost all of the vocal range can be produced by this driver. This allows better coverage and dispersion control, and superior efficiency.

The custom designed waveguide allows a precise coverage of 100 x 15 degrees, while also delivering a superb, linear high frequency response.



p.n. 130.40.009 (220-240V) - 130.40.010 (115V)

The HDL18-AS is a compact, flyable high power subwoofer, designed to integrate seamlessly into a HDL 20-A flown array. The bass reflex design guarantees a deep, linear power response while the 4" voice coil vented design woofer offers the minimum of power compression. The system provides integrated mechanics compatible with the HDL 20-A array module.

FLYABLE MATCHED SUBWOOFER

HDL 18-AS

ACTIVE FLYABLE HIGH POWER SUBWOOFER

- 135 dB max SPL
- 2000 W class-D switching amplifier
- 30 - 140 Hz Frequency Range
- 1 x high power 18" Woofer
- 48 kHz, 32 bit DSP processing
- Designed to compliment the HDL 20-A speaker system
- 511,5x700x620 mm - 20,1x27,5x24,4 in (HxWxD)
- Extremely low weight 48.4/106.7 kg/lbs

10

HDL 10-A

ACTIVE TWO-WAY LINE ARRAY MODULE

The very compact size, no compromise transducers and a unique composite cabinet design make the HDL 10-A the perfect tool in many situations. Ideal in live sound reinforcement and reliable installed applications. The HDL 10-A is the ideal choice when line array performance is needed and a fast and easy set up is a must. The system is powered from a 1400 Watt Peak Power 2 way digital amplifier, sound is processed from a powerful DSP.

- 133 dB max SPL
- 1400 W two-way class-D switching amplifier
- 65 - 20000 Hz Frequency Range
- 100° x 15° wide, constant directivity coverage angle
- 2.5" voice coil c. driver
- 2 x high power 8.0" Woofers
- 48 kHz, 32 bit DSP processing
- Symmetrical design
- 294x569x434 mm - 11.5x22.4x17.0 in (HxWxD)
- Extremely low weight 20.4/44.97 kg/lbs



The integrated mechanics are both fast and reconfigurable, allowing the system engineer to create J-shaped or spiral arrays



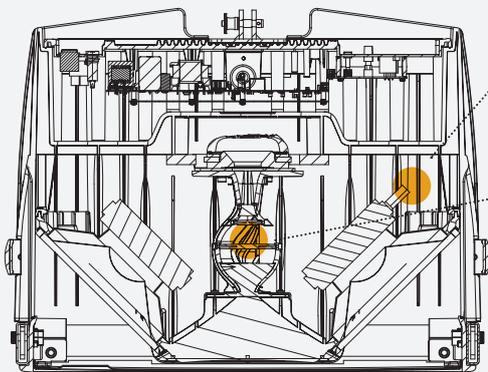
p.n. 130.40.016 (220-240V) - 130.40.017(115V) BLACK
p.n. 130.40.022 (220-240V) - 130.40.023 (115V) WHITE

INTEGRATED MECHANICS

The integrated mechanics are both fast and reconfigurable, allowing the system engineer to create J-shaped or spiral arrays.

“ your voice, louder ”

INSIDE VIEW



/ LOW FREQUENCIES 8.0" WOOFERS

- 2,0" Voice coil
- Water resistant fibre doped cone
- Polycotton M-roll surround
- High power magnetic structure

/ HIGH FREQUENCIES

The ND 640 large format compression driver is one of the key advantages of the HDL 10-A, the 2.5" voice coil allows a crossover point of 800Hz and therefore almost all the vocal range can be produced by this driver. This allows better coverage, dispersion control and superior efficiency.

Thanks to its large format compression driver on a waveguide, the HDL 10-A offers superior intelligibility over distance.



p.n. 130.40.020 (220-240V) - 130.40.021 (115V)

The HDL15-AS is a compact, flyable high power subwoofer, designed to integrate seamlessly into a HDL 10-A flown array. The bass reflex design guarantees a deep, linear power response while the 3.5" voice coil vented design woofer offers the minimum of power compression. The system provides integrated mechanics compatible with the HDL 10-A array module.

FLYABLE MATCHED SUBWOOFER

HDL 15-AS

ACTIVE FLYABLE HIGH POWER SUBWOOFER

- 133 dB max SPL
- 2000 W two-way class-D switching amplifier
- 40 - 140 Hz Frequency Range
- 1 x high power 15" Woofer
- 48 kHz, 32 bit DSP processing
- Designed to compliment the HDL 10-A speaker system
- 458x555x569 mm -18.03x21.85x22.40 in (HxWxD)
- Extremely low weight 39/85.98 kg/lbs

HDL 6-A

ACTIVE TWO-WAY LINE ARRAY MODULE

The HDL 6-A is the ideal choice when line array performance is needed and a fast and easy set-up a must. A 1400 W 2-channel digital amplifier powers the system. A powerful DSP processes the sound including crossover, phase correction, limiting and protection. The system features state-of-the-art RCF transducers – two powerful 6.0" woofers for a solid bass reproduction plus a high powered 1.7" voice coil compression driver mounted on a precise 100° x 10° waveguide delivers vocal clarity with high definition and an incredible dynamic.



/ CUSTOM DESIGNED WAVEGUIDE

The custom designed waveguide provides a precise coverage of 100° x 10° delivering a superb, linear high frequency response.



p.n. 130.00.496 (220-240V) - 130.00.509 (115V) BLACK
p.n. 130.00.514 (220-240V) - 130.00.515 (115V) WHITE

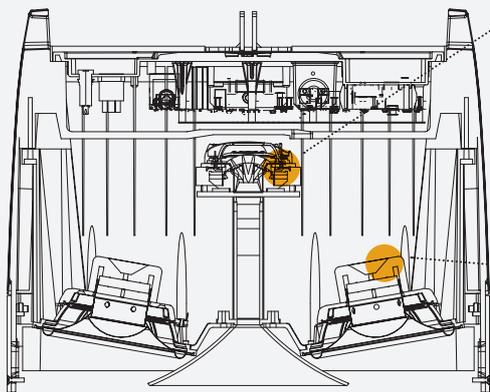
The concept of this speaker derives from the touring industry, bringing in a compact cabinet all the experience of RCF professional sound.

When a brighter look of the system is needed, HDL 6-A is available in white color

- 131 dB max SPL
- 1400 W two-way class-D switching amplifier
- 65 - 20000 Hz Frequency Range
- 100° x 10° wide, constant directivity coverage angle
- 1.7" voice coil neodymium c. driver
- 2 x high power neodymium 6.0" Woofers
- 48 kHz, 32 bit DSP processing
- Symmetrical design
- **FiRPHASE**
- 237x470x377 mm - 9,3x18,50x15 in (HxWxD)
- Extremely low weight 11.5/25.35 kg/lbs

“ the tiniest RCF monster ”

INSIDE VIEW



/ HIGH FREQUENCIES

The ND 340 high power compression driver delivers one of the key advantages of the HDL 6-A. A 1.7" voice coil with a crossover point of 900 Hz allows the driver to produce almost all the vocal range. This allows better coverage and dispersion control and superior efficiency.



/ LOW FREQUENCIES 6.0" WOOFERS

- 2.0" Edge-wound copper voice coil
- Water resistant ber cone
- Polycotton M-roll surround
- High power neodymium magnetic structure



The compact and lightweight design of the system is combined with rugged steel mechanics for easy rigging and transportation.



p.n. 130.00.505 (220-240V) - 130.00.510 (115V) BLACK
p.n. 130.00.532 (220-240V) - 130.00.533 (115V) WHITE

The HDL 12-AS is the companion subwoofer for HDL 6-A. Housing a 12" woofer, the HDL 12-AS, is a very compact active sub enclosure and features a 1400 W powerful digital amplifier. It is the ideal complement to create flown HDL 6-A clusters with outstanding performance. It features a built-in digital stereo crossover (DSP) with adjustable crossover frequency to connect the HDL 6-A line array module or a satellite. The integrated mechanics are both fast and reliable. The heavy-duty front grille is power coated.

FLYABLE MATCHED SUBWOOFER

HDL 12-AS

ACTIVE FLYABLE HIGH POWER SUBWOOFER

- 131 dB max SPL
- 1400 W class-D switching amplifier
- 40 - 120 Hz Frequency Range
- 12" high power Woofer
- Stereo crossover
- Switchable crossover frequencies
- Polarity reverse switch
- Electronic equalization, soft limiter and protection
- Stereo XLR input, Stereo XLR signal output
- 379x470x508 mm - 14.9x18,50x20 in (HxWxD)
- Extremely low weight 24/50.9 kg/lbs

2-WAY ARRAYS

NXL 44-A

ACTIVE TWO-WAY LINE ARRAY MODULE

With the NXL44-A, RCF has provided a unique and powerful two-way line source, with the sound delivered from three 10" neodymium woofers and a 1.4" driver with 3" voice coil on a asymmetrical waveguide. All are perfectly tuned to deliver remarkably uniform coverage and an extended frequency range. Precision controlled by an on-board DSP and driven by a two-channel digital amp, the NXL44-A delivers very natural sounding response and high SPL for professional live sound reinforcement. The horn's design is asymmetrical so it projects sound energy with great accuracy, thereby avoiding undesired reflections. The enclosure always remains vertical - it does not have to be tilted or aimed in any way that would adversely affect its stability.



/ SPECIFIC DESIGNED WAVEGUIDE

At the core of NXL44-A design is the new ND 840 compression driver loaded from a waveguide to a constant directivity 90° x 30° horn. The ND 840 large format compression driver is one of the key advantages of the NXL 44-A, the 3.0" voice coil allows a crossover point of 800Hz and therefore almost all of the vocal range can be produced by this driver.



p.n. 130.00.479 (220-240V)
p.n. 130.00.480 (115V)



- 134 dB max SPL
- 1400 W two-way class-D switching amplifier
- 45 - 20000 Hz Frequency Range
- 90° x 30° wide, constant directivity coverage angle
- 3.0" voice coil c. driver with a waveguide
- 3 x high power 10" neodymium Woofers
- 48 kHz, 32 bit DSP processing
- Pole mountable, Stackable, Flyable
- 1198x303x402 mm - 47.2x11.93x15.83 in (HxWxD)
- Extremely low weight 34.5/74.9 kg/lbs



With convenient appointments such as fixing points for rigging hardware, the NX L44-A and NX L24-A is easy to handle, fly and install. This remarkable versatility makes it the go-to speaker for every sound reinforcement situation.



NXL 24-A

ACTIVE TWO-WAY ARRAYS

The NXL 24-A is an active column speaker array system composed by 4 x 6" high power woofers and a 2.5" voice coil compression driver loaded from a waveguide on a 100° x 30° constant directivity horn.

The amplifier delivers 1400 Watt and is controlled by a DSP that takes care of crossover, equalisation, phase alignment, soft limiting and speaker protections. Equalisations are available to operate with a single column or in pairs.



/ SPECIFIC DESIGNED WAVEGUIDE

At the core of NXL 24-A design is the new ND 640 compression driver loaded from a waveguide to a constant directivity 100° x 30° horn.

p.n. 130.00.399 (220-240V)
p.n. 130.00.400 (115V)

MULTIPLE CONFIGURATIONS



- 131 dB max SPL
- 1400 W two-way class-D switching amplifier
- 65 – 20000 Hz Frequency Range
- 100° x 30° wide, constant directivity coverage angle
- 2.5" voice coil c. driver
- 4 x high power 6" Woofers
- 48 kHz, 32 bit DSP processing
- Pole mountable, Stackable, Flyable
- 1056x201x274 mm - 41.5x7.9x10.7 in (HxWxD)
- Extremely low weight 26.4/58.8 kg/lbs

2-WAY MULTIPURPOSE

NX 45-A

ACTIVE TWO WAY MULTIPURPOSE SPEAKER

Featuring RCF precision transducers and a wooden cabinet, the NX 45-A is the RCF's most flexible tool for deploying high-power and pristine sound as a stand-alone FOH system or as a satellite (with subwoofer) but either as a stage monitor, DJ monitor or front, side-fill or flown speaker. Conceived as the ideal complement to the RCF high powered HDL System or NXL arrays, it features much of the power and accessories of the TT+ series, such as multiple rigging points and the FIRPHASE processing.



/ POWERFUL WOOFER

The low-frequency transducer is a high-power 15" woofer with a 3.0" voice coil, delivering a punchy bass. Reproduction of the mid-bass frequencies is accurate, transparent and free from distortion.



/ 4.0" SUPERIOR COMPRESSION DRIVERS

The ND940 large format Compression Driver with 4" voice coil is the key feature of the NX 45-A. The extremely low crossover point of 650Hz is a must for perfect reproduction of the vocal range.

/ DIRECT DRIVE TECHNOLOGY

The voice coil features a high-temperature kapton former. The assembly process takes advantage of the RCF proprietary Direct Drive technology. The diaphragm's suspension has been designed following extensive studies aimed at minimising distortion and extending low frequency range.

/ AMPLIFIER AND DSP

The two-way 1400 W amplifier features a solid machined aluminium structure, which not only stabilises the amplifier during transportation but also assists in heat dissipation. The internal DSP has limiters and protections for the transducers and includes the special FIRPHASE filters to achieve a coherent distribution of sound for all listeners without phase distortion. A single button shapes the sound for background music purposes, when the system plays at minimum volume levels.



- 1400 W 2-way class-D amplifier
- 133 dB SPL Max
- 45 - 20000 Hz Frequency Range
- 90° x 50° constant directivity coverage
- 15" neodymium woofer, 3.5" voice coil
- Horn loaded 1.4" neodymium c. driver, 4.0" v.c.
- **FIRPHASE**
- Easy to install with built-in multiple rigging points
- 707x418x402 mm - 27,83x16,46x15,83 in (HxWxD)
- 23,4/ 51.6 kg/lbs

p.n. 130.00.552 (220-240V) - 130.00.553 (115V)

“ professional power ”

NX 32-A

ACTIVE TWO WAY MULTIPURPOSE SPEAKER

Featuring RCF precision transducers and a wooden cabinet, the NX 32-A is the RCF's most flexible tool for deploying high-power and pristine sound as a stand-alone FOH system or as a satellite (with subwoofer) but either as a stage monitor, DJ monitor or front, side-fill or flown speaker. Conceived as the ideal complement to the RCF high powered HDL System or NXL arrays, it features much of the power and accessories of the TT+ series, such as multiple rigging points and the FIRPHASE processing.

/ 3.0" COMPRESSION DRIVERS

The ND840 Compression Driver in pure Titanium with a 3" voice coil allows a crossover point at only 800 Hz. This allows a better impulse response, fast decay and superior efficiency. Lightweight and powerful, our neodymium drivers are a reference in performance and reliability.

/ DIRECT DRIVE TECHNOLOGY

The voice coil features a high-temperature kapton former. The assembly process takes advantage of the RCF proprietary Direct Drive technology. The diaphragm's suspension has been designed following extensive studies aimed at minimising distortion and extending low frequency range.



- 1400 W 2-way class-D amplifier
- 131 dB SPL Max
- 50 - 20000 Hz Frequency Range
- 90° x 60° constant directivity coverage
- 12" woofer, 2.5" voice coil
- Horn loaded 1.4" neodymium c. driver, 3.0" v.c.
- **FIRPHASE**
- Easy to install with built-in multiple rigging points
- 600x365x378 mm - 23,62x14,37x14,88 in (HxWxD)
- 19,4/42.8 kg/lbs



p.n. 130.00.550 (220-240V) - 130.00.551 (115V)

32

HD 32-A MK4

ACTIVE TWO-WAY SPEAKER

The HD 32-A it's a unique product in his category. The titanium dome, 3.0" voice coil compression driver offers a unique vocal clarity and sound projection. The 12" woofer offers an extremely linear response and a precise, deep low frequency control. With Powercon In/Out connectors it is the ideal speaker for rental companies. Perfect as a main front of house in small PA systems and for high power monitoring.

/ CLASS-D AMPLIFIER

RCF Class-D power amplifier's technology packs huge performance operating with high efficiency into a lightweight solution. D Line amplifiers deliver ultra fast attack, realistic transient response and impressive audio performance. The amplifier features a solid mechanical aluminium structure which not only stabilize the amplifier during transportation but also assist in the heat dissipation.

/ NEW CABINET SHAPE

The HD-32A MK can be used in the standard or stage monitor configuration.



/ SUPERIOR COMPRESSION DRIVERS

At the core of HD 32-A MK4 design is the new ND840 compression driver. The 3.0" voice coil designs allow a crossover point as low as 800Hz and therefore almost the entire vocal range can be produced by the driver. This allows even better coverage, dispersion control and superior efficiency.

GREAT PERFORMANCE WITH SUB 8004-AS

When used on top of a SUB 8004-AS the HD 32-A becomes an incredibly powerful PA system.



p.n. 130.00.516 (220-240 V)
p.n. 130.00.517 (115 V)

- 1400 watt
- **FiRPHASE**
- 12" Woofer, 2.5" v.c.
- 1.4" C. Driver, 3.0" v.c.
- 131 dB Max SPL
- Jack - XLR IN / XLR OUT
- Powercon IN-OUT AC
- 647x380x380 mm - 25.47x14.96x14.96 in (HxWxD)
- 18.8 kg - 41.44 lbs

STAGE MONITORS

NX STAGE MONITOR SERIES

ACTIVE COAXIAL HIGH-OUTPUT STAGE MONITORS

All the NX Stage Monitors are provided with coaxial transducers which define excellent linearity and high efficiency. The RCF Coaxial Transducers radiate a coherent single spherical wave front with perfect dispersion control.



NX 12-SMA



p.n. 130.00.260 (220-240 V)
p.n. 130.00.261 (115 V)

NX 15-SMA

1400 watt
15" Neo Woofer, 2.5" v.c.
1.0" C.Driver, 1.7" v.c.
130 dB Max SPL
Jack -XRL IN
XLR OUT
POWERCON AC socket
362x650x468mm
14.25x25.59x18.42 inch
(HxWxD)
19.8 kg - 43.6 lbs



p.n. 130.00.235 (220-240 V)
p.n. 130.00.236 (115 V)

NX 12-SMA

1400 watt
12" Neo Woofer, 2.5" v.c.
1.0" C.Driver, 1.7" v.c.
129 dB Max SPL
Jack -XRL IN
XLR OUT
POWERCON AC socket
324x550x417mm
12.7x21.6x16.4 inch
(HxWxD)
16.5 kg - 36.3 lbs

/ MAXIMUM FLEXIBILITY

NX Series maximum flexibility philosophy has been maintained for these two new additions; it is possible, in fact, to use the NX 10-SMA, NX 12-SMA and NX 15-SMA as a portable PA system, thanks to the rugged powder coated steel pole mount installed on the side.



/ COAXIAL NEODYMIUM TRASDUCERS

The newly designed coaxial neodymium transducers guarantee an outstanding audio quality and definition as well as an extremely lightweight of the final system.



/ ERGONOMIC HANDLE

Cabinets are made in Baltic Birch plywood, finished with an extremely resistant paint for an extensive use on the road. An ergonomic side handle, integrated with the input panel, is provided for an easier transport.



p.n. 130.00.233 (220-240 V)
p.n. 130.00.234 (115 V)

NX 10-SMA

800 watt
10" Neo Woofer, 2.5" v.c.
1.0" C.Driver, 1.7" v.c.
127 dB Max SPL
Jack -XRL IN
XLR OUT
POWERCON AC socket
324x450x417mm
12.7x17.7x16.4 inch
(HxWxD)
14.5 kg - 31.9 lbs

ST STAGE MONITORS

ST STAGE MONITOR SERIES

ACTIVE HIGH-OUTPUT MULTIPURPOSE MONITOR

ST Series is a practical solution for high intelligibility speech and audio applications, covering infill or delay, production studios, presentations and high power music sound reinforcement with or without subwoofers. A key requirement for everyday audio systems, delivering simple 'plug and play' solutions, without compromising performance and portability.



ST 15-SMA



p.n. 130.00.235 (220-240 V)
p.n. 130.00.236 (115 V)

ST 15-SMA

1200 watt
15" Woofer, 2.5" v.c.
1.0" C.Driver, 1.4" v.c.
131 dB Max SPL
Jack -XRL IN
XLR OUT
VDE AC socket
362x673x473mm
14.2x26.4x16.4 inch
(HxWxD)
20.3 kg - 44.75 lbs



p.n. 130.00.233 (220-240 V)
p.n. 130.00.234 (115 V)

ST 12-SMA

800 watt
12" Neo Woofer, 2.5" v.c.
1.0" C.Driver, 1.4" v.c.
129 dB Max SPL
Jack -XRL IN
XLR OUT
POWERCON AC socket
318x594x400mm
12.52x23.39x15.75 inch
(HxWxD)
19 kg - 41.89 lbs

/ STAGE MONITOR

Use it as a stage monitor. The "FLAT" equalization mode is set for monitoring applications, when the system is placed on the floor.

/ LOUDSPEAKER

With an easy 90° rotation and a simple click on the FLAT/ BOOST switch, the ST 15-SMA turns into a loudspeaker, with the equalization settings in "BOOST" mode.



/ ACCURATE AND POWERFUL WOOFER

ST series features a professional high power woofer, delivering extremely accurate punchy bass and precise low frequency control, making it an ideal stage monitor/ speaker for personal use and small bands.



/ HIGH-FIDELITY DRIVER

The custom-made compression driver ensures a transparent midrange and extreme accuracy. It features a high performance 1-inch exit throat and 1.4" voice coil, with a frequency range up to 20 kHz.

/ MAXIMUM FLEXIBILITY

ST Series maximum flexibility philosophy has been maintained for these two new additions; it is possible, in fact, to use the ST 15-SMA and ST 12-SMA as a portable PA system, thanks to the rugged powder coated steel pole mount installed on the side.



SUBWOOFERS

SUB 8006-AS

ACTIVE HIGH POWER SUBWOOFER

The SUB 8006-AS is a large and most powerful active sub woofer in the professional series.

Featuring two 18" transducers, with 4" inside/outside voice coils, this cabinet is designed to deliver a serious amount of low frequency.

Powered by a 2500W class-D amplifier module, the SUB 8006-AS can perform in the most demanding situations.



The custom designed 18" woofers feature 4" edgewound, inside/outside voice coils for excellent power handling and superior thermal performance.



The SUB 8006-AS input section includes Volume control, a Deep / Punch switch; Signal, Power and Limiter LED's; High pass switch; Phase switch; Cardioid switch; Delay control; Crossover and XLR signal link.



The SUB 8006-AS is powered from a 2500 Watt class-D amplifier, the amplifier panel is integrated to the rear, in a separate chamber and mechanically insulated from cabinet vibrations.

Sophisticated DSP is at the core of a fully featured input section, providing user selectable cross-over functionality, polarity optimization, protection, dynamic limiting and discrete component optimization.

- 141 dB Max SPL
- 5000 watt
- 30 - 120 Hz Frequency Range
- 2 x 18" Woofer, 4.0" v.c.
- Jack - XLR IN / XLR OUT
- POWERCON AC socket
- 709x1109x700mm
27.9x43.6x27.5 in (HxWxD)
- 90 kg - 198.4 lbs



p.n. 130.00.372 (220-240 V) - p.n. 130.00.373 (115 V)

SUBWOOFERS

SUB 8005-AS

p.n. 130.00.422 (220-240 V) - p.n. 130.00.423 (115 V)

The SUB 8005-AS is one of the most powerful 21" subwoofers in pro-sound category. Featuring a high power, hyperventated 21" woofer, with 4.5" inside/outside voice coils, this cabinet is designed to deliver a serious amount of low frequency. Powered by a 2500W class-D amplifier module, the SUB 8005-AS can perform in the most demanding situations. The input board includes volume control, deep/punch switch, high pass switch, phase switch, cardioid, time delay.



The custom designed woofer features a hyperventated, inside/outside, voice coil for excellent power handling and superior thermal performance.



The subwoofers are equipped with two M20 rugged inserts.

SUB 8004-AS

p.n. 130.00.392 (220-240 V) - p.n. 130.00.393 (115 V)

The SUB 8004-AS is one of the most powerful 18" subwoofers in pro-sound category. Featuring a high power, hyperventated 18" woofer, with 4" inside/outside voice coils, this cabinet is designed to deliver a serious amount of low frequency. Powered by a 2500W class-D amplifier module, the SUB 8004-AS can perform in the most demanding situations. The input board includes volume control, deep/punch switch, high pass switch, phase switch, cardioid, time delay.



The subwoofers are powered from a class-D amplifier integrated to the rear side, in a separate chamber and mechanically insulated from vibrations



The subwoofers input section includes Volume control, a Deep / Punch switch; Signal, Power and Limiter LED's; High pass switch; Phase switch; Cardioid switch; Delay control; Crossover and XLR signal link.



SUB 8005-AS

- 2500 watt
- 21" Woofer, 4.5" v.c.
- 137 dB Max SPL
- Jack - XLR IN / XLR OUT
- POWERCON AC socket
- 825x600x805mm - 32.4x23.6x31.6 in (HxWxD)
- 66.6 kg - 146.8 lbs



SUB 8004-AS

- 2500 watt
- 18" Woofer, 4" v.c.
- 136 dB Max SPL
- Jack - XLR IN / XLR OUT
- POWERCON AC socket
- 700x557.5x700mm - 27.5x21.9x27.5 in (HxWxD)
- 51.0 kg - 112.2 lbs

“ *the right punch* ”

SUB 8003-AS II

p.n. 130.00.432 (220-240 V) - p.n. 130.00.443 (115 V)

The SUB 8003-AS II active subwoofer features the latest generation of RCF woofer technology, class-D amplifiers and DSP processing with higher power and enhanced performance. It offers the perfect blend of bass reproduction, high SPL and compact dimensions for mobile use by bands and DJs.

/ SUB SERIES: THE RIGHT PUNCH

RCF new line of subwoofers suitable for all speakers in its Professional Line of products, offering the maximum flexibility to tailor your PA system to your needs. Featuring strong Baltic birch construction, high quality mechanics, superior acoustic design and premium RCF Precision low frequency transducers, the new SUB Series represents the perfect complement for any portable sound reinforcement system.

Both SUB 8003-AS II and SUB 905-AS II are equipped with high power RCF woofers. Our inside/outside voice coils represent unmatched reference in power handling. Their “triple thickness” former transfers the sound to the cone with extreme accuracy and reliability.

SUB 905-AS II

p.n. 130.00.434 (220-240 V) - p.n. 130.00.435 (115 V)

The SUB 905-AS II active subwoofer is ideal for building powerful subwoofer satellite systems where compactness and high sound levels are required at the same time. The SUB 905-AS has the most advanced RCF woofer technology, coupled with a powerful 2200 W class-D amplifier. It offers the perfect blend of bass reproduction, high SPL and compact dimensions for mobile use by bands or DJs.

/ SUB 8003-AS II AND SUB 905-AS II: FULL FEATURED INPUT BOARD

These subwoofers can be configured from the rear panel, that features a full set of commands:

- PRESET
- VOLUME
- TIME
- OUT SIGNAL, LINE / HIGH PASS



SUB 8003-AS II

- 2200 watt
- 18" Woofer, 4.0" v.c.
- 135 dB Max SPL
- Jack - XLR IN / XLR OUT
- POWERCON AC socket
- 694x523x700 mm - 27.32x20.59x27.56 in (HxWxD)
- 43.5 kg - 95.90 lbs



SUB 905-AS II

- 2200 watt
- 15" Woofer, 3.0" v.c.
- 133 dB Max SPL
- Jack - XLR IN / XLR OUT
- POWERCON AC socket
- 600x445x610 mm - 23.62x17.52x24.02 in (HxWxD)
- 31 kg - 68.34 lbs

CP CONTROL & POWER

DX 1616

MATRIX AUDIO PROCESSOR

DX 1616 AES-Dante remote software. This network-based software designed for Microsoft Windows and Mac OSX allows the management of the DX 1616 Matrix Sound Processor.

- Pre-Amp configuration, selecting source types like analog, AES/EBU, Dante
- Designing Input groups for festival applications
- Input source processing with EQ, delay and compressor
- Powerful 16x16 router to assign processing tasks to flexible output patches.

/ HOME

The home screen gives the most important information of the signal flow to the system engineer in one view. All inputs with pre-fade level meters including the routing to dedicated DSP modules for typical system tasks for main PA, side PA, subwoofer and distributed speakers. Useful groups of inputs allow easy setup and configuration for any large event application with several mixing desks or multiple sources.

/ SOURCE PROCESSING

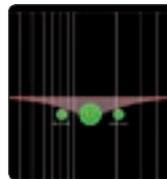
The powerful source processing window allows the configuration of the input preamps (analog, AES/EBU, mic/line) and Dante inputs as well. For each source the user can adjust gain, polarity, input EQ, input compressor and input delay.

/ OUTPUT PATCH

Thanks to 16 analog outputs, DX 1616 offers flexible routing possibilities. The engineer can use up to 16 individual DSP modules for each output or he can even assign several analog outputs to a specific DSP module to use these outputs as high quality line drivers. In combination with the RCF CP16 control panel any demand of wiring the audio system is supported.

/ DSP MODULE

The DSP module offers high pass filters, low pass filters, parametric EQ, all pass filters, level, compressor and output delay for perfect system control even if no RNet controlled speaker is part of the system.



p.n. 123.99.033

 **Dante**[®]



- Hybrid architecture DSP
- 48 kHz sampling, 40 bit floating point engine
- 16 x 16 I/O matrix
- Dante enabled network audio transport
- 8 AES/EBU inputs - 8 AES/EBU outputs
- Ethernet connectivity and control
- Maximum latency 3 ms
- Easy to use software GUI

“connect and manage”



CR 16-ND CONTROL RACK

The CR 16-ND is a 10 Unit flight case designed to control RCF Professional speaker systems. The CR 16-ND includes one Control 8 that manages the RDNet connection to up to 256 devices, one DX 1616 matrix processor that takes care of audio signals routing and processing and one CP 16 control panel to bring audio and control signals to 4 x LK 25 multipin outputs. Each LK 25 has four audio channels, two RDNet channels and two spare sends. Each signal is doubled to XLR redundant outputs.



/ DIGITAL I/O

The DX 1616 matrix audio processor features Ethernet control, Dante redundant inputs, eight AES/EBU inputs and outputs. The signals are managed from a 40 bit floating point, high resolution DSP.

PR 63 POWER RACK

The Power Rack PR 63 features the PD 63 A-419 power distribution with a 63 A Cekon power input with 5 m fixed cable. The three-phase power is distributed in a 32 A Cekon output, 4 x LKS19 output, 6 x Powercon output, 1 Powercon auxiliary output to power the CR 16-ND Control Rack. All outputs are equipped with individual RCBOs (Residual Current-operated Circuit-Breaker with Overcurrent protection) for maximum reliability. In case of damage, only the faulty output is missed while the rest of the system continues to function.



/ 63-AMPERE RACK

From a single 63-Ampere Cekon connector the power rack delivers power distribution to large PA systems, including up to 12+12 left-right line array systems, a large subwoofer system and a complete stage monitoring. 32-Ampere power output for chain motors and 16-Ampere Powercon output to supply CR 16-ND are included.



p.n. 121.00.004

Dual Switch Not Included.
Ask RCF and adapt the System to your networking protocol.



p.n. 121.00.006

- 10 RU flight case on shock mounts
- DX 1616 matrix audio processor
- Control 8 master unit
- CP16 control panel
- 16 analog audio inputs, 16 analog audio outputs
- 8 AES/EBU inputs - 8 AES/EBU outputs
- Dante input
- 4 x LK 25 multicore audio/RDNet outputs

- 63 Ampere Cekon power input with 5 m cable
- 32 Cekon outputs
- 4 x LKS 19 outputs
- 6 x Powercon outputs + 1 Powercon auxiliary output
- 24 x individual power line RCBOs
- 32 Ampere and Auxiliary individual front RCBOs
- Tour Grade flight case construction

CABLING AND TRANSPORTATION



Besides the speaker design, the transportation and weather protection are an integral part of the system.

The HDL System Karts allows four HDL speakers to be stored and transported in vertical position.

All subwoofers are equipped with detachable front wheel boards, which makes the setup easy without having the rattling noise of wheels displayed towards the audience when using subs in cardioid setups.

RCF active sound reinforcement systems feature sophisticated weather protection to ensure a safe operation even under worse weather condition.

/ LKS 19 CONNECTORS

Thanks to the use of LKS 19 power distribution system with dedicated fan out cables it is possible to connect HDL Systems and companion subwoofers from a single 19 pin connector. One single cable run can power a full sized line array column. RCF offers dedicated fan out cables for arrays and subwoofers as well as extension cables of 10 m or 20 m.

/ DEDICATED ACCESSORIES

A full range of custom accessories complements the RCF line array systems. Starting from suspension and stacking to cabling and transportation, RCF provides solutions for a practical assembly, use and transportation from the smallest to the largest system.



ACCESSORIES

RIGGING

p.n. 13360334	FLYBAR HDL 50-A Suspension bar for HDL 50 to fly up to 20 pcs + 1x fly bar pick up
p.n. 13360127	FLY BAR PICKUP TTL55 Fly bar pickup for HDL 50-A
p.n. 13360389	LINK BAR FL-B LINK HDL 50-30 Fly bar pickup for HDL 50-A
p.n. 13360128	SAFETY CHAIN TTL55 To be added to the fly bar to provide a secondary safety (specially when the cluster is suspended with a single motor) for HDL 50 and HDL 30
p.n. 13360129	HOIST SPACING CHAIN TTL55 Hoist Connector Chain to distance the motor and the chain bag from the suspending bar keeping in vertical balance the system for HDL 50 and HDL 30
p.n. 13360394	MOUNTING KIT FL-B PK HDL 30 Fly bar pickup for HDL 30-A
p.n. 13360380	FLYBAR HDL30-A Suspension bar for HDL 30 to fly up to 20 pcs
p.n. 13360218	FLY BAR HDL 20-18 Fly bar for HDL 20 and HDL 18 up to 16 HDL 20 modules
p.n. 13360229	LIGHT BAR HDL 20 Light fly bar for HDL 20 up to 4 HDL 20 modules
p.n. 13360225	LINK BAR HDL18 TO HDL20 Pair of link bar for HDL 20 and HDL 18
p.n. 13360221	FLY BAR PICKUP HDL 20-18 Spare Pickup Point (including 2 Quick lock pins) for 2 motors pick up
p.n. 13360274	FLYBAR HDL 10 Fly bar for HDL 10-A up to 16 modules
p.n. 13360314	FLYBAR HDL10-A W Fly bar for HDL 10-A up to 16 modules. White color
p.n. 13360296	LINK BAR HDL15 TO HDL10 Pair of link bar for HDL10 and HDL15
p.n. 13360276	LIGHT BAR HDL 10 Light fly bar for HDL 10 up to 4 modules
p.n. 13360313	LIGHT BAR HDL-10A W Light fly bar for HDL 10 up to 4 modules. White color
p.n. 13360371	AC TRUSS CLAMP HDL6 Clump bracket for HDL 6-A
p.n. 13360360	FLYBAR HDL6-A Fly bar for HDL 6-A and HDL 12-AS
p.n. 13360373	FLYBAR HDL6-A W Clump bracket for HDL 6-A. White color
p.n. 13360375	LINKBAR HDL12 TO HDL6 Link bar for HDL 6-A to HDL 12-AS. 2 pieces
p.n. 13360372	FLYBAR PICKUP HDL6 Fly bar pickup for HDL 6-A
p.n. 13360345	FLY BAR NXL44-A Fly bar for NXL 44 up to 2 pieces
p.n. 13360346	FLY LINK KIT NXL44-A Accessory to link a second NXL 44 to a flying NXL44 (straight or 2 angles)
p.n. 13360278	FLY BAR NXL24-A Fly bar for NXL 24 up to 2 pieces
p.n. 13360279	FLY LINK KIT NXL24-A Accessory to link a second NXL 24 to a flying NXL 24 (straight or 2 angles)
p.n. 13360216	AC HD-FD 12 H-BR 2 x horizontal bracket for HD 32
p.n. 13360351	AC 2X AZIMUT PLATE To be added for horizontal array control
p.n. 13360398	V-BR NX 45 Wall mount brackets with adjustable inclination
p.n. 13360328	TT 22-A MKII V-BRACKET Wall mount brackets with adjustable inclination

STACKING

p.n. 13360377	POLE MOUNT 3X HDL 6-A Pole mount kit for 3 HDL 6-A
p.n. 13360285	AC 2 X POLE MOUNT HDL20 Accessory for 2 HDL 20 on a pole mount
p.n. 13360393	STACKING KIT STCK-KIT 2X HDL 30 Stacking kit for HDL 30-A
p.n. 13360347	STACKING KIT 2X NXL44-A Accessory for stacking 2 NXL44 on SUB8006 or 8004 (or M20 pole mount)
p.n. 13360280	POLE MOUNT KIT NXL24-A Pole mount accessory for stacking NXL24 on SUB8004 (or M20 pole mount)
p.n. 13360281	STACKING KIT NXL24-A Accessory for stacking 2 NXL24 on SUB8006 or 8004 (or M20 pole mount)
p.n. 13360232	AC PMX POLE MOUNT M20 Pole mount - up to 60Kg for HDL 20, HDL 18 and HDL 15
p.n. 13360231	AC CONNECTION SUB8006-AS CONN. BRACKET Accessory to lock FL-B HDL 20-18 to the SUB 8006-AS and lock FL-B HDL 10 to the SUB 8004-AS
p.n. 13360109	AC PRO-FS PROFESSIONAL LOCKING FLOOR STAND Professional loudspeaker floor stand
p.n. 13360111	AC PRO-LF PROFESSIONAL LOCKING FLANGE Professional adapter sleeve for loudspeaker floor stand
p.n. 13360110	AC PRO-PM PROFESSIONAL LOCKING POLE MOUNT Pole mount accessory for satellite loudspeaker on a subwoofer
p.n. 13360030	DOUBLE STUD 4X kit including 4 pcs double studs for fly track
p.n. 13360034	AC PMA - POLE MOUNT Speaker pole mount
p.n. 13360035	SPEAKER CABINET FLOOR STAND-STEEL Steel floor speaker stand (max load 60 kg)
p.n. 13360031	KIT EYEBOLT 4 X kit including 4 pcs M10 eye bolts

QUICK LOCKS PINS (4X)

p.n. 13360335 PINS KIT HDL 50-A 4F				
	PRODUCT		POSITION	TPOLOGY
HDL 50-A	13000477		FRONT	LINK
HDL 50-A	13000477		FRONT	LOCK
p.n. 13360340 QUICK LOCK PINS KIT 4R				
	PRODUCT		POSITION	TPOLOGY
HDL 50-A	13000477		REAR	LINK
p.n. 13360132 AC 4PIN FLY BAR TTL55				
	PRODUCT		POSITION	TPOLOGY
FL-B HDL 50			FRONT	LINK
p.n. 13360219 SPARE PINS FRONT 4X HDL20- HDL18				
	PRODUCT		POSITION	TPOLOGY
HDL 20-A	13040007		FRONT	LINK
HDL 20-A	13040007		FRONT	LOCK
HDL 18-AS	13040009		FRONT	LINK
HDL 10-A	13040016		FRONT	LINK
HDL 10-A	13040016		FRONT	LOCK
HDL 15-AS	13040020		FRONT	LINK
HDL 30-A	13000511		FRONT	LINK
HDL 30-A	13000511		FRONT	LOCK
HDL 6-A	13000496		FRONT	LINK
HDL 6-A	13000496		REAR	LINK
HDL 12-AS	13000505		FRONT	LINK
HDL 12-AS	13000505		REAR	LINK
FLY BAR NXL24-A	13360278			LINK
FLY BAR NXL44-A	13360345			LINK
AC 2 X POLE MOUNT HDL20	13360285		FRONT	LINK
AC 2 X POLE MOUNT HDL20	13360285		REAR	LINK
FLY LINK KIT NXL44-A	13360346			LINK

ACCESSORIES

QUICK LOCKS PINS (4X)

p.n. 13360219 SPARE PINS FRONT 4X HDL20- HDL18

PRODUCT		POSITION	TPOLOGY
STACKING KIT 2X NXL44-A	13360347		LINK
FLYBAR HDL6-A	13360360	FRONT	LINK
KART WITH WHEELS KRT-WH 6X HDL 6	13360366	FRONT	LINK
LINKBAR HDL12 TO HDL6	13360375		LINK
POLE MOUNT 3X HDL 6-A	13360377		LINK
KART WITH WHEELS KRT-WH 4X HDL 30	13360382	FRONT	LINK

p.n. 13360220 SPARE PINS REAR 4X HDL20- HDL18

PRODUCT		POSITION	TPOLOGY
HDL 20-A	13040007	REAR	LINK
HDL 30-A	13000511	REAR	LINK
LINK BAR HDL18 TO HDL20	13360225		LINK
LINK BAR HDL15 TO HDL10	13360296		LINK
KART WITH WHEELS 4X HDL20	13360223		LINK
KART WITH WHEELS 4X HDL10	13360275		LINK
LIGHT BAR HDL 20	13360229		LINK
LIGHT BAR HDL 10	13360276		LINK
FLY LINK KIT NXL24-A	13360279		LINK

p.n. 13360222 SPARE PINS 4X FLY BAR HDL20- HDL18

PRODUCT		POSITION	TPOLOGY
FLY BAR HDL 20-18	13360218	FRONT	LOCK
FLY BAR HDL 20-19	13360218	REAR	LINK
FLY BAR PICKUP HDL 20-18	13360221		LINK
LINK BAR HDL18 TO HDL20	13360225		LINK
AC CONNECTION SUB8006-AS CONN. BRACKET	13360231		LINK
FLYBAR HDL 10	13360274	FRONT	LOCK
FLYBAR HDL 11	13360274	REAR	LINK
FLYBAR HDL6-A	13360360	REAR	LINK
AC TRUSS CLAMP HDL6	13360371		LINK
FLYBAR PICKUP HDL6	13360372		LINK
FLYBAR HDL30-A	13360380	FRONT	LOCK
FLYBAR HDL30-A	13360380	REAR	LINK
STACKING KIT STCK-KIT 2X HDL 30	13360393		LINK

TRANSPORTATION

p.n. 13360336 **KART WITH WHEELS 4 X HDL 50-A**
HDL50 trasportation kart for 4 modules

p.n. 13360382 **KART WITH WHEELS KRT-WH 4X HDL 30**
Kart with wheels for 4 HDL 30-A

p.n. 13360348 **KART WITH WHEELS AC KART SUB9007-AS**
Kart for 1 SUB 9007-AS

p.n. 13360361 **KART WITH WHEELS AC KART SUB9006-AS**
Kart for 1 SUB 9006-AS

p.n. 13360223 **KART WITH WHEELS 4X HDL20**
Kart with wheels for 4 HDL 20

p.n. 13360275 **KART WITH WHEELS 4X HDL10**
Kart with wheels for 4 HDL 10

p.n. 13360366 **KART WITH WHEELS KRT-WH 6X HDL 6**
Kart with wheels for 4 HDL 6-A

p.n. 13360385 **KART WITH WHEELS KRT-WH SUB 9004**
Kart for 1 SUB 9004-AS

p.n. 13360238 **PRO SWIVEL WHEELS KIT**
Kit 4 swivel castor 100mm wheels with roller bearing

COVERS

p.n. 13360338 **COVER 4 X HDL 50-A** Cover for 4 pieces of HDL 50-A on cart

p.n. 13360386 **COVER CVR 4X HDL 30** Cover for 4 pieces of HDL 30-A on cart

p.n. 13360339 **COVER SUB 9007-AS** Cover for 1 SUB 9007-AS

p.n. 13360363 **COVER SUB9006-AS** Cover for 1 SUB 9006-AS

p.n. 13360397 **COVER CVR SUB 9004** Cover for 1 SUB 9004-AS

p.n. 13360167 **COVER - NX 10-SMA** Cover for NX 10 SMA

p.n. 13360174 **COVER - NX15-SMA** Cover for NX 15 SMA

COVERS

p.n. 13360168 **COVER - NX 12-SMA** Cover for NX 12-SMA

p.n. 13360320 **COVER ST15 SMA** Cover for ST 15-SMA

p.n. 13360319 **COVER ST12 SMA** Cover for ST 12-SMA

p.n. 13360209 **COVER HD 12 / FD 12** Cover for HD 32-A

p.n. 13360208 **COVER HD 10 / FD 10** Cover for HD 10-A

p.n. 13360242 **COVER SUB8006-AS** Cover for SUB 8006-AS

p.n. 13360295 **COVER SUB8005-AS** Cover for SUB 8005-AS

p.n. 13360286 **COVER SUB8004-AS** Cover for SUB 8004-AS

p.n. 13360378 **COVER SUB 8003-AS II** Cover for SUB 8003-AS II

p.n. 13360379 **COVER SUB 905-AS II** Cover for SUB 905-AS II

p.n. 13360409 **CVR NX 45** Cover for NX 45-A

p.n. 13360408 **CVR NX 32** Cover for NX 32-A

RAIN PROTECTIONS

p.n. 13360337 **RAIN COVER RP 50-01**
Set of 2x rain covers to protect HDL50-A input boards

p.n. 13360352 **RAIN PROTECTION RP 1X SUB 9007**
Rain cover to protect SUB 9007-AS input board

p.n. 13360362 **RAIN PROTECTION RP 1X SUB 9006**
Rain cover to protect SUB 9006-AS input board

p.n. 13360233 **AC RAIN COVER SUB8006-AS**
1 x Rain Cover for SUB 8006-AS amplifier

p.n. 13360283 **RAIN COVER 2X HDL SERIES**
Rain cover for 2 HDL 20/10 or 2 HDL 18/15

p.n. 13360381 **RAIN PROTECTION RP 1X HDL 6**
1 x Rain Cover for HDL 6

CONTROL AND AUDIO CABLES

p.n. 12399021 **CBL LKS 25-2 FANOUT**
25 pin to 8X XLR, cable 1.0 meters, fanout 1.0 meters

p.n. 12399022 **CBL LK 25 MULTIPIN 20M**
25 pin male female cable 20 meters

p.n. 12399023 **CBL LK 25 MULTIPIN 10M**
25 pin male female cable 10 meters

p.n. 12399016 **CBL ETHERCON 0.7M**
Ethercon cable 0.7 meters. Compatible with RDNET

p.n. 12399017 **CBL ETHERCON 1.5M**
Ethercon cable 1.5 meters. Compatible with RDNET

p.n. 12399035 **CBL ETHERCON 3M**
Ethercon cable 3 meters. Compatible with RDNET

p.n. 12399018 **CBL ETHERCON 5M**
Ethercon cable 5 meters. Compatible with RDNET

p.n. 12399019 **CBL ETHERCON TO XLR F 0.2M**
Adapter cable Ethercon to XLR female 0.2 meters

p.n. 12399020 **CBL ETHERCON TO XLR M 0.2M**
Adapter cable Ethercon to XLR male 0.2 meters

POWER DISTRIBUTION

p.n. 12399024 **CBL LKS 19 ARRAY FANOUT**
Array fan out cable 0.5 - 1.3 - 2.1 - 2.9 - 3.7 - 4.5 M

p.n. 12399025 **CBL LKS 19 SUB FANOUT**
Sub fan out cable 2X 2.5 - 2X 5.0 - 2X 10.0 M

p.n. 12399026 **CBL LKS 19 BREAKOUT**
Breakout box with LKS 19 Input/Output to 6x powercon

p.n. 13360146 **CBL LKS 19 POWER 20M** LKS 19 power cable 20 meters

p.n. 12399027 **CBL LKS 19 POWER 10M** LKS 19 power cable 10 meters

p.n. 12399028 **CBL POWERCON LINK 10M** Powercon link cable 10 meters

p.n. 12399029 **CBL POWERCON LINK 5M** Powercon link cable 5 meters

p.n. 12399030 **CBL POWERCON LINK 1.5M** Powercon link cable 1.5 meters

p.n. 12399031 **CBL POWERCON LINK 0.7M** Powercon link cable 0.7 meters



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