



TH+ HIGH DEFINITION
TOURING AND THEATRE

the rules of sound

RCF

ENG 2012

TT+ HIGH DEFINITION TOURING AND THEATRE

RCF TT+ represents another prominent chapter in the long history of RCF sound systems. What ever a speaker system is designed for live sound, large concert situations or permanent installed theatre, today customers and audience expect a level of audio fidelity and intelligibility of such a standard unsurpassed by previous generations.

These requirements have fostered the need for audio professionals to be able to offer a range of speaker systems combined with dedicated processing and amplification technologies that are superior in acoustic performance and control technology.

TT+ series from RCF offers ready to use solutions and tools in true active high definition speaker systems.

The TT+ line consists of different true active and passive models, conceived and designed for specific applications.

From large venue systems to compact indoor sound reinforcement all the TT+ products offer:

- extremely compact dimensions;
- maximum output efficiency in sound pressure levels;
- minimum mechanical weight ratio;
- high power RCF precision Neodymium Transducers;
- high technology switching power supplies with Class D amplifiers;
- high quality analogue audio inputs and, for Line array systems, state of the art floating point DSP technology;
- baltic birch plywood cabinets and high quality mechanics.

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TT+ system solutions

With more than 50 years of experience RCF is one of the leading manufacturers of professional audio and one of the few companies to use its own transducers technology. RCF has pioneered many of the innovations now recognised and used in pro audio products.

Our products are designed in very close co-operation with our customers, offering complete solutions to meet the highest demanding market needs.

The entire production process in RCF's Italian factory guarantees that RCF professional products comply with the highest quality standards.

The world wide RCF distribution network offers our customers the most complete and qualified support.

■ Touring

The capability of delivering superior SPL output of our systems will reduce the truck space requirements. The higher efficiency of integrated digital amplifiers will reduce the energy requirements and the integrated processing and the cabling reduction will make the set-up faster and easier.

■ Stadia and Arenas

Whether the event is a live performance or a sport match, whether the speaker system is a rented solution or a dedicated permanent installation, TT+ will excel for superior vocal intelligibility, dynamic of sound and musical clarity.

ACTIVE AND CONTROLLED

TT+ systems are active and features highly advanced digital or analogue electronic processing.

TT+ high power digital amplifiers offer very low distortion and natural sound with very efficient heat dissipation coupled with low energy consumption.

The integration of precise analogue and digital processing, directly available with simple presets, the possibility of monitoring and controlling the systems with RDnet proprietary protocol brings TT products to unmatched results in the audio industry.



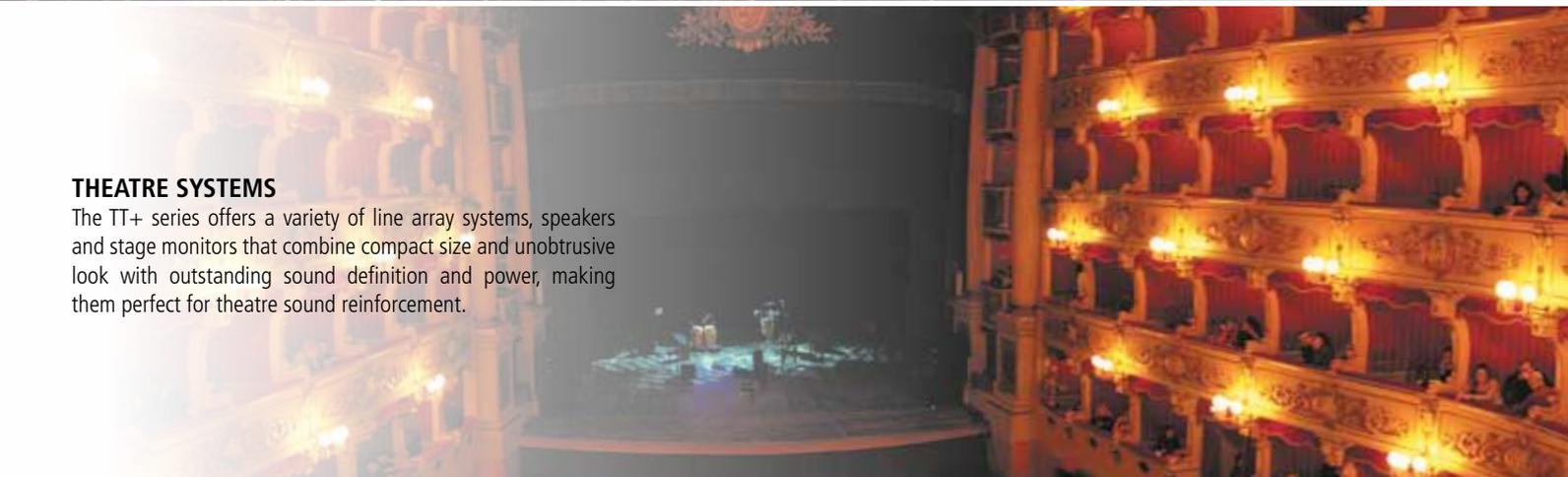
LARGE VENUES SYSTEMS

RCF TT+ large venues systems are a specifically designed group of products dedicated to highly demanding large scale applications. This system is designed to be easily scalable, from a few modules to full size arrays for very large outdoor stadia or public spaces.



THEATRE SYSTEMS

The TT+ series offers a variety of line array systems, speakers and stage monitors that combine compact size and unobtrusive look with outstanding sound definition and power, making them perfect for theatre sound reinforcement.



■ Concert Halls

The incredibly low distortion of RCF digital amplifiers, the accuracy and transparency of the reinforcement, the possibility of controlling and monitoring each single speaker make the TT+ the perfect indoor system that will satisfy the most demanding artists, from opera and musicals to symphony and rock.

■ Houses of Worship

From small and medium houses of god to very large community churches a TT+ systems will always deliver unique intelligibility, well defined pattern control, exceptional feedback stability during speech and will immediately be ready to play high definition music and soundtracks at the desired spl level.



Innovation, Integration, Intensity

INNOVATION - Our research and engineering department can offer innovative projects with finite control of each detail, from the loudspeaker voice coil wire to the highly efficient extended dynamic amplifier topology. There are many different ingredients that go into creating quality products and systems. These include computer aided simulation software to assist the understanding of transducer behaviour and amplifier operation and the relationship of dynamics and transient response. RCF utilises over thirty state of the art software packages to identify magnetic circuits, voice coil dynamics, suspension linearity, horn dispersion simulation, crossover filters, amplifier thermal behaviour and more.

INTEGRATION - RCF is one of the few loudspeakers manufacturers worldwide who have the ability to completely design and manufacture transducers, speaker systems and amplification and control electronics. Our 60 plus years heritage in audio combined with our state of the art R&D and manufacturing processes, allow us to seamlessly integrate all the ingredients to design and build the TT+ High Definition Touring and Theatre systems.

INTENSITY - The design philosophy for the TT+ Series is based upon offering the sound engineer solutions and tools that are ready to use. Key factors are the ability to sustain very high power with highly efficient sound pressure levels. Intense sound levels are created with extremely high definition and extended dynamic range. Modern construction materials result in mechanical weight ratios that are light for practical flying and portability.



■ Waves

New horn designs for the entire line. Precision waveguides for the line arrays midrange and compression drivers. Solid aluminium structures for compact two-way systems.



■ Structures

Baltic birch plywood cabinets. High quality steel mechanical fittings. Aluminium die cast handles. Powder coated grilles. Heavy duty polyurea or epoxy paint finishes on cabinet structures.

RCF Precision Transducers

For over six decades RCF professional woofers have represented the ultimate performance, the highest power handling and the most advanced technology.

Thanks to high energy magnetic designs, complex cooling systems and specifically developed new technologies, our neodymium transducers put themselves at the same, unsurpassed level.

Technology and craftsmanship: every professional compression driver and woofer is precision built in our factory in Reggio Emilia, Italy, using the most advanced moulding and assembly technologies and our experienced dedication and attention.

TT+ large venues products offer ready to use solutions and tools in true active high power, high definition touring systems.



■ Power and control

■ Integrity

Powerful switching power supplies. Low distortion and natural Class D amplifiers. Huge energy reserve in capacitor buses. Unique audio quality from an RCF exclusive premium analogue input board. Maximum flexibility and control from a newly designed 96 kHz, 32 bit floating point DSP.

Advanced designs. High quality materials. Precise manufacturing. Precision assembly. Extensive quality control procedures. RCF's solid audio heritage.

TTL55-A

ACTIVE THREE-WAY LINE ARRAY MODULE

The TTL55-A is a high power, three way, active line array module engineered to deliver an incredible output for use in indoor and outdoor large spaces. The system is designed to be easily scalable from few modules for medium and small theatres to full size arrays for very large outdoor stadia and public spaces.

The three new designs for the six neodymium transducers that power the system represent the result of many years dedicated in pioneering new solutions using the best materials available on the market.

The integration of the 3500 Watt four channel digital amplification and the advanced digital processing set a new standard for distortion, noise and thermal efficiency.

230V p/n 13000188
115V p/n 13000189

FEATURES

- Maximum output per size on the market
- 3500 W, 4 way digital amplification
- 2 x 12" high power neodymium woofers, 4" v. c.
- 10" neodymium midrange, 3.5" v. c.
- 3 x 1.5" neodymium compression drivers, 2.5" v. c.
- High quality analog input board
- 96 kHz, 32 bit DSP processing
- RNet remote monitoring and control
- Tour grade Baltic birch cabinet and mechanics

■ SUGGESTED SUBWOOFERS

The TTS56-A is the powerful choice for the large format TTL55-A line array systems.
The TTS36-A is the preferred choice for more compact systems.
For theatrical applications or as a bass complement for very large systems the TTL36-AS is the solution.



THE BEST VOCAL CLARITY FROM A LARGE LINE ARRAY

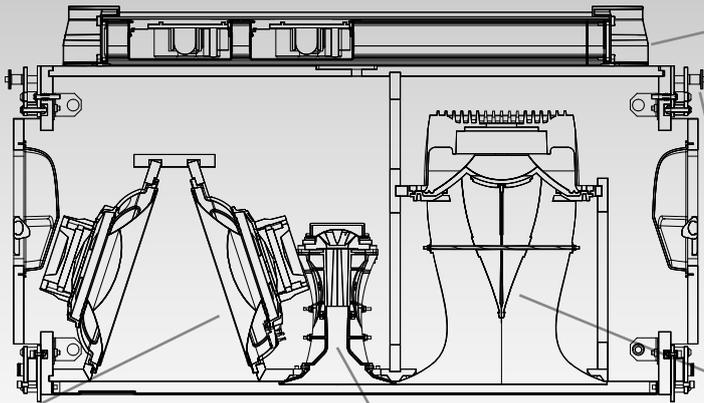
The TTL55-A midrange transducer features a unique "Impedance Control Coil" technology. A secondary coil wound on the speaker yoke and driven in opposite phase to the primary coil has the function of cancelling the primary coil inductance, increasing the speaker sensitivity and reducing the speaker distortion. A primary effect of this technology is the improvement of the temporal behaviour of the speaker, improving the crossover transition from the midrange to the compression drivers.



Best mid-high thanks to the RCF ICC technology



INSIDE VIEW



POWER PLATFORM
The power section comprises 4 high power digital amplifiers, a state of the art 32 bit floating point Dsp processing, network board, high quality analog inputs.

TOURING GRADE CABINET
The cabinet is in Baltic birch and the mechanics are laser cut in high grade steel. The weight of the system is less than many similar size passive competitors.

HORN LOADED MF
The 10" midrange is a state of the art neodymium design. It features a sealed aluminium basket, incredibly high BL product, a secondary "distortion reduction" coil. The transducer is loaded on a 4-slot constant directivity horn that guarantees a uniform vertical coupling module to module.

LF CLAM SHELL CONFIGURATION
The 2 woofers, in a band-pass loading configuration, provide a very tight and powerful bass response. The acoustical configuration is very efficient in the 100 Hz region and free from dual source cancellations.

HF ARRAY
The high frequency section employs three high power 2,5" voice coil compression drivers housed on a very compact slotted horn. Precision assembled titanium domes to produce very high power and clarity



THE TTL55-A AMPLIFIER
The TTL55-A amplifier represents a state of the art execution of a Dsp controlled multi-way digital amplification. The analog input board offers xlr input and output link, cluster size control switches, high frequencies correction switches, pre-loaded equalizations by-pass switch. Ethercon input and output connect the system in daisy chain on a RDNet monitoring and controlling system from the FOH. The signal processor is a 32 bit floating point Dsp running at 96 kHz. The Dsp takes care of crossovers, equalisations, soft-limiters, rms limiters, large signals compression and customised presets for the 4 way amplification. Four digital amplifiers: 2 x 1000 watt low frequency, 1000 watt the midrange, 500 watt for the three high frequency drivers.

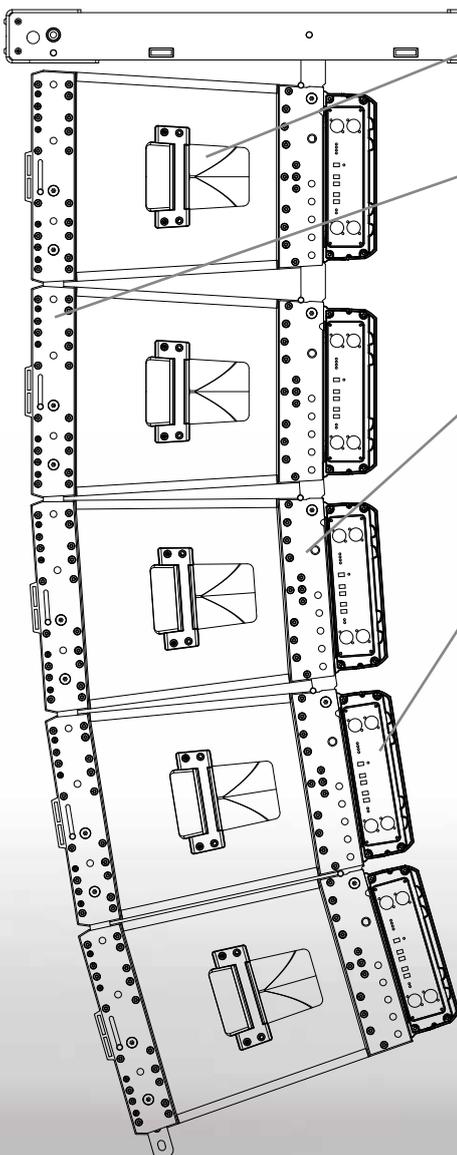


The TTL55-A is equipped with a dedicated networking board. Using our proprietary RNet protocol is possible to monitor all the system parameters, from the input to the status of each single amplifier. Having a Dsp on board of each cabinet, it is possible to address to single cabinets or groups of cabinets specific presets or modifications of parameters like gain, equalisation or delay.
The RNet 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.

THE TTL55-A CABINET

The TTL55-A cabinet is built in Baltic birch plywood and protected with heavy-duty coating. The internal structure is braced and reinforced and all the parts are assembled on metal inserts with metric screws. With a very small size compared to the spl output it is easily transportable as a single module on a dolly or in groups of four in dedicated karts. The front grille is powder coated a features and special foam backing very transparent to the sound.

MECHANICS SIDE VIEW



■ SIDE HANDLE

The TTL55-A cabinet features a newly designed die-cast side handle with rubber hand-grip. Thanks to the internal scoop design it is possible to use the handle in three different directions.

■ FRONT MECHANICS

All the mechanical structure is built in high strength structural steel. This special steel by a quenching and tempering process guarantees a yielding strength almost 4 times higher compared to commercial grade steel and maintains the mechanical properties down to -40°C . Thanks to this material the mechanics have high safety factor with a weight under control.

■ REAR MECANICHS AND ANGLES

The TTL55-A cabinet features 8 possible splay angles, from 0° to 7° with 1° step increment to create curved spiral arrays with very high precision.

■ AMPLIFIER MECHANICAL STRUCTURE

The electronic processing and the amplifier are housed in a solid aluminium extrusion. The housing is tightly fitted to the rear of the cabinet and sealed. The power input and all the signal connectors are housed in two recessed and protected panels.



WOOFERS

- 2 x 12" high power vented neo woofers, 4" voice coil
- Minimum weight basket design



MIDRANGE

- 10" Very high BL neo midrange, 3.5" voice coil
- Aluminium sealed basket design



COMPRESSION DRIVERS

- 3 x 1.5" throat neo compression drivers, 2.5" voice coil
- Very compact diameter design





TTL36-AS

ACTIVE LINE ARRAY SUBWOOFER MODULE

The TTL36-AS is the ideal flyable bass complement for the TTL55-A array system. The clam-shell design guarantees the maximum output per size while the 2 x 4.5" voice coil vented 18" woofer design offers the minimum of power compression.

The TTL36-AS is perfect to create flown systems for theatrical and indoor requirements.

For very large outdoor systems is the perfect complement to reinforce the TTL55-A bass performance in combination to the ultra powerful TTS56-A subwoofers.

230V & 115 V p/n 13000271



FEATURES

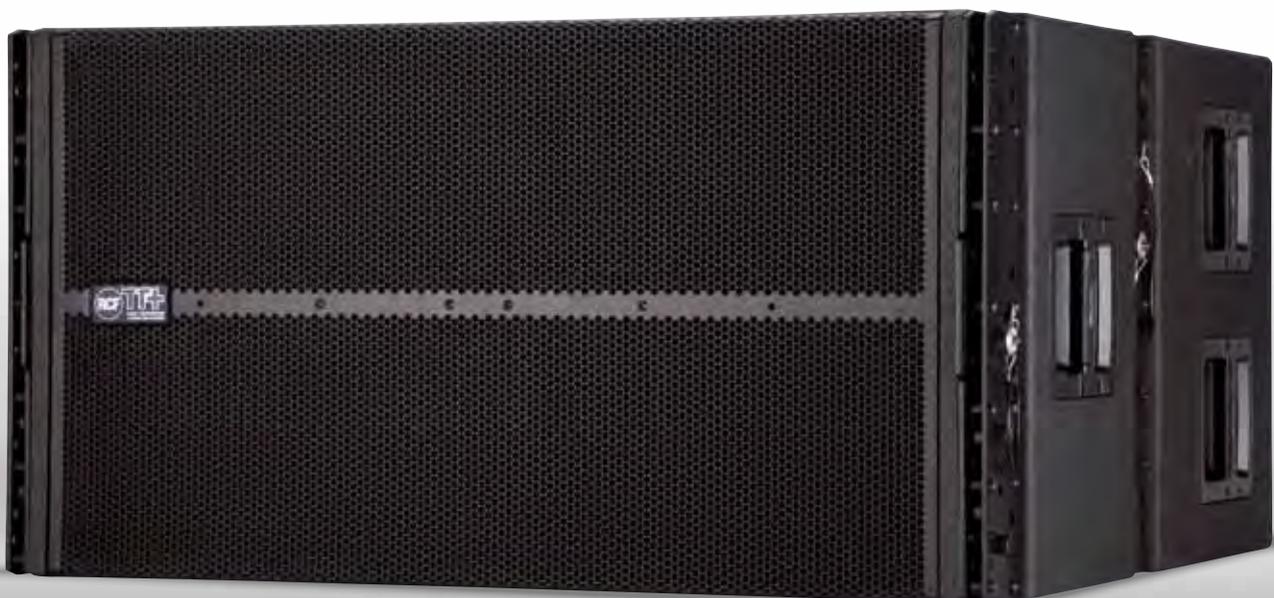
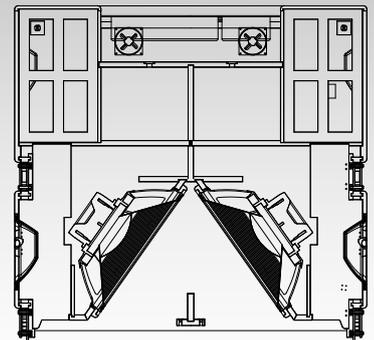
- 4000 Watt (2 x 2000 W digital switching amplifiers)
- 2 x 18" high power neodymium woofer, 4.5" v. c.
- 96 Khz, 32 bit DSP processing
- Remote monitoring and control
- Time delay alignment
- Cardioid preset for stacking groups of 3
- Tour grade Baltic birch cabinet, integrated rigging.
- Maximum output per size

MECHANICS

The integrated mechanics provide perfect compatibility with the TTL55-A line array module. The TTL36-AS subwoofer can be rigged on top of the TTL55-A using the same fly-bar or on the side of the TTL55-A cluster on a separate fly-bar.

VIRTUAL TILT AND CURVATURE

Taking advantage of the dsp power available on every cabinet it is possible, through RDNet, to apply variable delays to single cabinets and create virtual tilting and curvature of TTL36-AS subwoofers clusters.



TTL33-A II

ACTIVE THREE-WAY LINE ARRAY MODULE

The TTL33-A II offers the highest performance from a small size 3 way line array. The incredible high output and dynamics, the extreme accuracy and high frequency extension, plus compact size, make the TTL33-A II the ideal tool for reinforcing mid-large size outdoor and indoor live performance and events.

FEATURES

- 750 W digital switching amplifiers
- Wide, constant directivity, coverage angle
- 2 x 8" high power neodymium woofers, 2.5" v. c.
- 8" neodymium midrange, 2.5" v. c.
- 3 x 1" neodymium compression drivers, 1.5" v. c.
- High quality analog input board
- 96 kHz, 32 bit DSP processing
- Soft limiter and RMS protection
- RDNet remote monitoring and control
- Maximum output per size on the market

■ SUGGESTED SUBWOOFERS

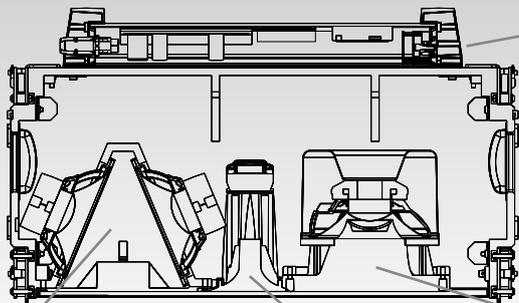
- TTS56-A
- TTS28-A
- TTS18-A

230V p/n 13000360
115V p/n 13000361

Advanced technologies, knowledge, experience, continuous engineering effort and dedication were able to bring us to these unique results: the TTL33-A II.

Active, ultra compact, wide dispersion, line array module that set a new standard in touring and theatre sound reinforcement.





■ POWER PLATFORM
 The TTL33-A II is powered by a 750 W switching power supply and 3 digital amplifiers: 500 W mid-bass, 500 W midrange and 250 W compression driver. The result is very high output, extremely low distortion and natural sound.

■ TOURING GRADE CABINET
 The cabinet is in high quality Baltic birch plywood and the mechanics are laser cut in high grade steel. The weight of the system is less than many similar size passive competitors.

■ CONTROLLED MID-BASS
 Light and reliable neodymium 8", in a band pass loading configuration, provides a tight and loud mid-bass. Thanks to a careful acoustic design the sensitivity in the 100 Hz region is almost double than typical, same size, designs.

■ COMPRESSION DRIVERS
 A new compression driver has been developed for array applications. The best ratio between the size of the diaphragm and the overall diameter and the very small total size makes the ND1411-MT a unique driver for application in line on straight horns.

■ HIGH OUTPUT MIDRANGE
 A fast and accurate horn loaded 8" takes care of the midrange frequencies in TTL33-A II. Powerful neodymium magnet, aluminium die cast basket, aluminium back can in direct contact to the rear plate for best heat dissipation.



■ DIGITAL PROCESSING
 The integrated digital processor is based on a state of the art 32 bit, floating point DSP running at 96 kHz sampling rate. The calculation capacity largely exceed the processing needs and the DSP is never pushed to the limit. Crossover and equalisation of the transducers, limiter, system presets: high pass, air absorption and cluster size corrections.



■ RELIABLE MECHANICS
 Laser cut high quality steel bars and precision machining for an easy to use and reliable mechanics. Thanks to the very light weight of the cabinet building the cluster is very simple, fast and effortless.

■ RD NET INPUT BOARD
 The TTL33-A II is equipped with a dedicated networking board. Using our proprietary RDNet protocol is possible to monitor all the system parameters, from the input to the status of each single amplifier.



A new standard in touring and theatre sound reinforcement



TTL31-A II

ACTIVE TWO-WAY LINE ARRAY MODULE

The TTL31-A II is a ultra-compact size 2 way line array.
The very high output and dynamics, the extreme accuracy and high frequency extension, plus the very compact size make the TTL31-A II the ideal tool for indoor and theatre applications, live performances and events.



Looks like a "mini", sounds like a "compact"



FEATURES

- 750 W digital switching amplifiers
- Wide, constant directivity coverage angle
- 8" high power neodymium woofer, 2.5" v. c.
- 3 x 1" neodymium compression drivers, 1.5" v. c.
- High quality analogue input board
- 96 kHz, 32 bit DSP processing
- Soft limiter and RMS protection
- RDNet remote monitoring and control
- Very high output per size

■ SUGGESTED SUBWOOFERS

The TTL12-AS subwoofer array module has been specifically designed to be coupled to the TTL31-A II. The system can also be completed with the addition of TTS18-A or TTS28-A high power subwoofers.



■ PERFECT HF CONTROL

The 3 neodymium compression drivers are mounted on an unique straight horn, designed to offer the maximum control over the high frequencies. The unique compression driver design offers the minimum spacing between throats to avoid HF cancellation.



TTL12-AS

ACTIVE LINE ARRAY SUBWOOFER MODULE

The TTL12-AS is the ideal complement for the TTL31-A II array module. The band-pass design guarantees the maximum output per size while the 4" voice coil vented woofer design offers the minimum of power compression.

FEATURES

- 1000 W digital switching amplifier
- Band-pass design
- 12" high power neodymium woofer, 4" v. c.
- High quality analog input board
- Phase, crossover, bass shape controls
- Integrated mechanics
- Baltic birch cabinet
- Very high output

■ TTL31-A II

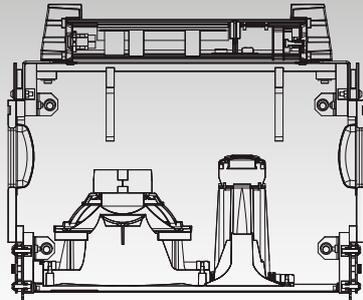
230V p/n 13000362
115V p/n 13000363

■ TTL12-AS

230V p/n 13000124
115V p/n 13000151

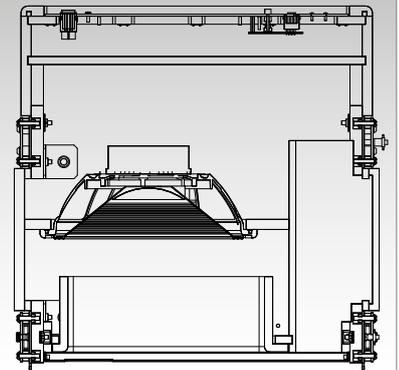
■ TTL31-A II CUT VIEW

The amplifier section features 750 W switching power supply module, 500 W for the LF, 250 W for the HF. It is equipped with extra capacitor bus able to sustain the voltage for 100 ms burst signals. The total power can be distributed to the 2 final amplifier sections. Each section has a very high maximum output power capability in order to provide, when necessary, maximum output burst in a specific frequency range.



■ CONTROLLED BASS

The high power 12" neodymium woofer with a 4" voice coil guarantees a very controlled and precise bass response perfect for indoor applications such as theatres. A fully optimised T-pole design generates the minimum amount of flux modulation, the unique dual-forced air venting system guarantees a very efficient voice coil ventilation for minimum power compression and higher power handling.



■ RD NET INPUT BOARD

The TTL31-A II is equipped with a dedicated networking board. Using our proprietary RDNet protocol is possible to monitor all the system parameters, form the input to the status of each single amplifier.



■ MECHANICS

The integrated mechanics provide perfect compatibility with the TTL31-A II line array module. The mechanical suspension system is in high quality steel, very precise and easy to use.



TTL11A

ACTIVE DIGITALLY STEERABLE ARRAY

The TTL11A is an active column speaker array system composed of two modules, one for the mid-high and one for the bass frequencies.

The TTL11A-H is the HF module and is equipped with four 2.5" neodymium compression drivers with 1.5" exit throat.

The TTL11A-B is the bass frequency section of the system and features four 8" neodymium woofers with 2.5" voice coil for a perfect and powerful mid-bass response.

With the addition of the new TTS26-A subwoofer, the TTL11A system becomes a powerful, compact and high definition live sound system.

FEATURES

- Tour grade cabinet and mechanics
- 4000 Watt, 9 way amplification
- 4 x 1.4" titanium dome neo c. drivers, 2.5" v.c.
- 3 x 8" neo midranges, 2.5" v.c.
- 4 x 8" neo woofers, 2.5" v.c.
- 96 Khz, 32 bit DSP processing
- Digital steering down to -10°
- Maximum output per size

■ **TTL11A-H** 230V p/n 13000237
115V p/n 13000238

■ **TTL11A-B** 230V p/n 13000239
115V p/n 13000240



■ DIGITAL STEERING PROCESSING

The TTL11A includes a full tilting and beaming control offering five possible installation height set-up and three different throw choices. The input board includes a generic wide dispersion set-up.



TTL11A-H

DIGITAL STEERABLE ARRAY - MID HIGH

- 2000 Watt, 7 way amplification
- 96 Khz, 32 bit DSP processing
- 5 steps tilting control
- Beam forming, time delay controls
- Processed output to TTL11A-B
- Full range, high pass configurations
- Powercon input/output





Theatres, A/V presentations, Corporate Events, Live Sound



■ **FAST LOCKING MECHANICS**

The TTL11A cabinet features integrated quick lock mechanics to provide a perfect stability during live events or easy assembling for permanent installation.



■ **HF HORN**

The compact multi-way constant directivity horn is equipped with four 2.5" titanium compression drivers and delivers an incredible output with a perfect pattern control.

The TTL11A and TTS26-A systems are equipped with a dedicated networking board. Using our proprietary RDNet protocol is possible to monitor all the system parameters, from the input to the status of each single amplifier. Having a Dsp on board of each cabinet, it is possible to address to single cabinets or groups of cabinets specific presets or modifications of parameters like gain, equalisation or delay.

■ **PERFECT COMBINATION**

The TTS26-A is the perfect complement for the TTL11A column array system, increasing the system performance.

■ **MODULAR SYSTEM**

The TTL11A and TTS26-A together form a very flexible modular system depending from the size of the event to amplify. High quality mechanics with a unique smart locking system make the set up of the system fast and effortless.

TTL11A-B

DIGITAL STEERABLE ARRAY - BASS

- 2000 Watt, 2 way amplification
- High quality analog input board
- 4 x high power neodymium transducers
- Processed input from TTL11A-H
- Powercon input/output

- TTL11A-H and TTL11A-B are equipped with heavy duty multi-functional top and bottom mechanics



TT45-SMA

ACTIVE HIGH OUTPUT STAGE MONITOR

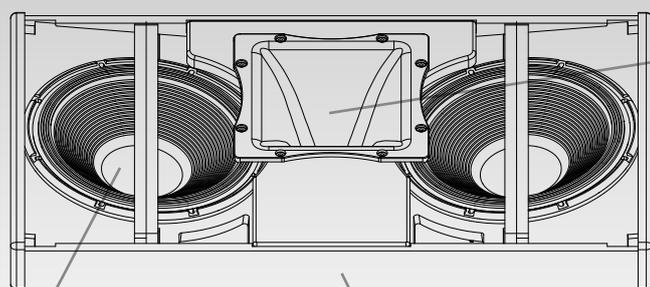
The TT45-SMA is a very high output, high performance, active stage monitor. Perfectly flat amplitude response, extended bass reproduction and incredible output make this monitor unique in the market. The TT45-SMA distinguishes itself for vocal clarity, accurate and detailed high frequency reproduction, perfect feedback stability. The cabinet angle and the 90° x 45° uniform directivity provide optimal coverage in medium and large sized stages. TT45-SMA are designed to work in pairs to provide exceptional tour grade monitoring to the most demanding artists. The TT45-SMA features 1500 Watt digital amplification power with integrated onboard signal processing and transducers protections.

FEATURES

- 1500 Watt, 2 way digital amplification
- 2 x 12" high power neo woofers, 3.5" v. c.
- Horn loaded 1.5" throat titanium compression driver, 3" v. c.
- 90° x 45° coverage angle
- Soft limiter and rms protection
- Very low profile
- Maximum gain before feedback
- Baltic birch cabinet
- Maximum output per size on market

230V p/n 13000192
115V p/n 13000193

INSIDE VIEW



PRECISION HF

The high frequencies section features a 90° x 40° horn loaded compression driver, 3" voice coil.

TOURING GRADE CABINET

The cabinet is constructed in Baltic birch plywood and protected with high quality textured coating. It features two recessed side handle on the sides and a heavy duty metal grille with acoustical high quality foam backing. Low profile rubber feet prevent cabinet damages.

HIGH POWER LF

The loudspeaker's low frequency section comprises two 12" high power neodymium woofers in clam shell configuration.

DIGITAL AMPLIFICATION

The TT45-SMA is powered by a 1500 Watt digital 2 way amplifier: 1000 Watt for the low frequencies and 500 Watt for the high frequencies.

COMPRESSION DRIVER



A new high performance 3.0 inch diaphragm compression driver with a 1.4 inch exit throat deliver perfectly natural midrange and high frequency. The diaphragm is precision formed from pure titanium, the suspension is based on a vented and damped design in order to provide very low distortion.

WOOFERS

The loudspeaker's low frequency section comprises two 12" high power neodymium vented woofers. The two transducers are driven in parallel for a tight and powerful bass response. In the low midrange frequency region only one of the two transducers is driven in order to avoid side cancellations.

The TT45-SMA woofer is designed to provide an excellent frequency response linearity with very low distortion. A very strong neodymium magnetic structure guarantee dynamic and precision, a new and unique 3,5" voice coil design provides a very high power handling, especially recommended in comparison to a standard 3" voice coil. The unique Dual-forced air venting system guarantee a very efficient voice coil ventilation to minimize the power compression.





Incredible output monitoring for the most demanding artists

DIGITAL AMPLIFICATION

The TT45-SMA is powered by a 1500 Watt digital 2 way amplifier: 1000 Watt for the two 12" woofers and 500 Watt drive the 3" voice coil horn loaded driver.

The input board features a special switch to align the curve response equalisation for use of the speaker system in pairs.

The amplifier is housed on a heavy duty aluminum panel suspended from the main cabinet with flexible mounts to obtain the best insulation from vibrations.

Signal output link and power output link are available on the right side of the cabinet.



TT25-SMA

ACTIVE HIGH OUTPUT COAXIAL STAGE MONITOR

The TT25-SMA is a high performance, coaxial stage monitor.

The very linear curve response, the consistent coverage, the acoustic output make the TT25-SMA the professional choice for most demanding situations. The voicing is accurate and deep, the sound transparent in the mids and extremely accurate at very high frequencies. The size is compact and the profile very low for a discrete stage professional appearance. Loop through output and power panel on opposite side to minimize cable runs on stage. By producing flat amplitude and phase responses, full range bandwidth and exceptional impulse response, the TT25-SMA far exceeds the capabilities of conventional stage monitors.

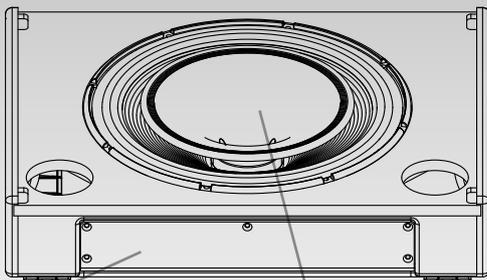
FEATURES

- 750 W digital switching amplifiers
- 60° conical, constant directivity coverage angle
- 15" neodymium woofer, 3.5" v. c.
- 1.5" neodymium c. driver, 2.5" v. c.
- High quality analog input board
- Soft limiter and RMS protection
- Very low profile
- Baltic birch cabinet
- Very high output

230V p/n 13000090
115V p/n 13000121

COMPONENTS

INSIDE VIEW



DIGITAL AMPLIFICATION

The amplifier section features 750 W switching power supply module and phase corrected control electronics. The high quality analog input board provides linear phase crossovers, system equalisation, fast limiter, RMS limiter and configuration control preventing driver over-exursion and assuring high sound pressure levels with minimal power compression

HIGH POWER LF

The horn on a coaxial 15" neodymium cone driver with 64 mm diaphragm exhibit constant Q. The beamwidth remains consistent across the horn's operating frequency range and coverage. Frequency response is uniform across the specified beamwidth, with minimal side lobes.



INPUT PANEL

The input section provides a signal input on xlr connector, system sensitivity control, 4 status LEDs and Eq switch.



OUTPUT PANEL

The AC panel features a Powercon connector and xlr output link.

USING THE MONITOR IN PAIRS

On mid-large stages is often needed to use stage monitor in pairs. When TT25-SMA are used in this configuration the mid-bass will increase for a natural effect due to the coaxial transducer. To avoid this, RCF engineers have developed a special side to side correction switch that inserts a mid-bass frequency cut balancing the listening level for a perfect stage monitoring experience.





The perfect stage monitoring experience

COAXIAL SYMMETRY

A coaxial loudspeaker presents a response behaviour that is symmetric about its axis. For stage monitoring purposes the coaxial characteristics provide near perfect monitoring. You can move left, move right, go forward and go back and you will hear the same, uniform sound.

The new 15" coaxial neodymium transducer is the result of the latest refinement in years of RCF transducers experience, featuring a 3.5" voice coil, titanium dome, compression driver. A massive outside ring neodymium magnet drives the transducers for a controlled mid-bass and extreme precision in high frequency reproduction.



TT25-A

ACTIVE HIGH OUTPUT TWO-WAY SPEAKER

The TT25-A offers the highest performance from an active 2 way system. The incredible high output and dynamics, the extreme linearity and accuracy plus the compact size makes the TT25-A the ideal professional speaker for sound reinforcement, live performance and events. The speaker is equipped with a rugged steel pole mount on the bottom.

230V p/n 13000118
115V p/n 13000100

High output at premium sound quality

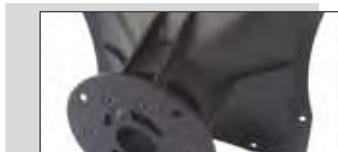
FEATURES

- 1500 W digital switching amplifiers
- 90° x 40° constant directivity coverage angle
- 15" high power neodymium woofer, 4.0" v. c.
- 1.5" neodymium compression driver, 3" v. c.
- High quality analogue input board
- Soft limiter and RMS protection
- Baltic birch cabinet
- Maximum output per size on the market



■ SUSPENSION

High quality detachable fly tracks fittings on both side of the cabinet offer horizontal, vertical and coupled suspended orientations.



■ HIGH FREQUENCIES

The newly designed "thick aluminium body" horns offers the best dissipation to neodymium compression drivers. When the pure titanium compression driver are assembled, all the horn becomes the surface of dissipation for the heat generated from the voice coil. The same coverage angle at all frequencies, compact size and strong, resonance free, mechanical structures for accurate voice and transparent sound. Designed for 90° rotation.



We started the design of our TT+ compact speakers with a clear idea in mind: maximum high quality audio SPL within the smallest lightweight and size. Thanks to the state of the art neodymium transducers, premium quality analog processing and powerful Class D amplifiers we reached and surpassed our original goals

TT22-A

ACTIVE HIGH OUTPUT TWO-WAY SPEAKER

The TT22-A is the most flexible and powerful tool in its class. An extremely careful acoustic design plus the highest quality transducers and the powerful amplifier, make this system the perfect solution for live sound situations to playback and monitoring. The speaker is equipped with a rugged steel pole mount on the bottom.

230V p/n 13000089
115V p/n 13000099

FEATURES

- 750 W digital switching amplifiers
- 90° x 40° constant directivity coverage angle
- 12" high power neodymium woofer, 3.5" v. c.
- 1.5" neodymium compression driver, 3" v. c.
- High quality analog input board
- Soft limiter and rms protection
- Baltic birch cabinet
- Maximum output per size on the market



■ POWER AND CONTROL

The massive amount of Class D power is driven from a very accurate analog input board: perfect linearity and audio quality, soft peak limiter, rms limiter, high pass and side coupling options. Premium sound quality at maximum output.



■ UNIQUE TRANSDUCERS DESIGN

3" voice coil woofers can not handle the power, 4" voice coil woofers are too slow for two-way systems. This is why we invented the RCF 3.5" size high energy mid-bass, which represents the best balance between low end capability and midrange clarity and control. All this in only 5 Kg. The compression driver features a new pure titanium dome. Special ribs on the dome provides maximum flatness and extension in very high frequencies and venting on top plates guarantees distortion free midrange extension.



TT08-A

ACTIVE TWO-WAY PRECISION MONITOR

The TT08-A is the smallest and powerful solution to almost any sound reinforcement situation.

Hi-fi acoustic design, high quality neodymium transducers, powerful amplifiers, very compact size cabinet and incredibly lightweight.

Superb deep bass punch, very linear and precise frequency response. The perfect solution for live sound situations, playback and monitoring.



Monitor size, PA sound

230V p/n 13000116
115V p/n 13000120

FEATURES

- 750 W power digital switching amplifiers (500 on the woofer, 250 on the compression driver)
- 90° x 60° constant directivity coverage angle
- 8" high power neodymium woofer, 2.5" v. c.
- 1" titanium compression driver, 1.7" v. c.
- High quality analog input board
- Soft limiter and RMS protection
- Baltic birch cabinet
- Maximum output per size on the market



■ MAXIMUM FLEXIBILITY

Two different angles for near field or long field monitoring. Pole mount, fly bars, side M10 suspension points. The TT08-A is the perfect tool for broadcast monitoring, theatrical installations, front and side fills, under balcony coverage and distributed sound systems.

The TT08-A is by far the smallest member of the TT+ family, whilst being the most flexible and powerful tool in its class: from live sound to playback and monitoring, corporate events and broadcast studios. The TT08-A offers an incredible maximum sound pressure level of 128 dB. Its performance efficiency is almost 3 dB higher than many larger 10" speaker systems and indeed comparable to many 12" systems.

■ LONG FIELD MONITORING

The other side of the cabinet presents a 20° angle perfect for long field monitoring applications.

■ NEAR FIELD MONITORING

One side of the cabinet presents a 40° angle for near field monitoring applications.





The TT08-A coupled with the TTS12-A represents the ultimate stage monitor experience for keyboards or djs, giving a recording studio sound definition coupled with the power needed for live events.

■ PERFECT COMBINATION

The perfect complement for the TT08-A is the TTS12-A compact subwoofer. These two speakers together offer an incredible variety of mounting options for any application.



■ OUTSTANDING POWER

Though remarkably compact and lightweight, the TT08-A offers an incredible maximum SPL of 128 dB, making it suitable for use as either a single, primary loudspeaker or within multi cabinet horizontal and vertical arrays.



TT051-A

ACTIVE ULTRA COMPACT WIDE DISPERSION SPEAKER

The TT051-A is an ultra compact, active loudspeaker designed specifically for high quality indoor nearfield sound amplification. It is equipped with a 300 W digital amplifier, 150 W for the low frequencies and 150 W for the high frequencies. A powerful 5" neodymium woofer and a 1" aluminium dome tweeter loaded to a wide dispersion constant directivity horn provide an extensive coverage.



READY

230V p/n 13000243
115V p/n 13000244

Distributed Sound, Multimedia

FEATURES

- 300 Watt, 2 way amplification
- Heavy duty multi-functional cabinet
- 5" low distortion woofer
- 1" titanium dome tweeter
- DSP processing
- Wall mount EQ, High pass EQ
- RDNet ready



- **FULLY FEATURED INPUT BOARD**
TT051-A and TT052-A are equipped with a state of the art input board which features:
 - XLR In/Out
 - Volume control
 - Eq. switch for wall mounting
 - Hi-pass filter switch
 - RDNet ready, RDNet bypass
 - 4 status LEDs
 - Powercon In/Out

■ POLE MOUNT READY

Combined to the AC TT051/52 pole mount TT051-A and TT052-A are easily combined to a subwoofer or pole mounted on a floor stand.





TT052-A

ACTIVE ULTRA COMPACT HIGH OUTPUT SPEAKER

The TT052-A is an extremely compact, active loudspeaker specifically designed for indoor applications where the audio beam must be directed towards specific zones. It is equipped with two 5" neodymium woofers and a 1" compression driver. Thanks to its constant directivity horn and high volume output, the TT052-A can be used to guarantee the perfect intelligibility in critical environments.

NEAR FIELD MONITORS

Concert Halls, Theatres, Monitoring

230V p/n 13000245
115V p/n 13000246



READY

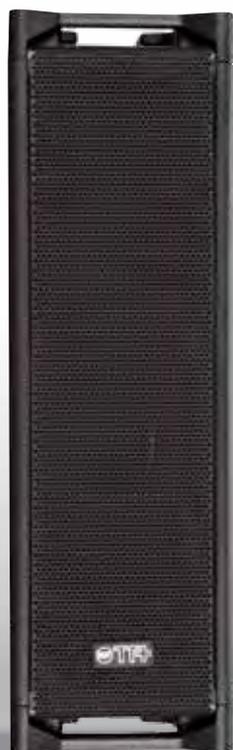


■ MODULAR MECHANICS

Special integrated side mechanics with a unique quick lock system has been developed to provide a fast and easy set up of the speakers, offering an outstanding application flexibility.

FEATURES

- 300 Watt, 2 way amplification
- Heavy duty multi-functional cabinet
- 2 x 5" low distortion woofer
- 1" neodymium compression driver, 1.5" v.c.
- DSP processing
- Wall mount EQ, High pass EQ
- RDNet ready



■ RENTAL PROOF

Combined to the AC TT051/52 pipe clamp TT051-A and TT052-A are the perfect tools for the rental company. In a few seconds, the right sound spot in the desired direction.

TTS56-A

ACTIVE HIGH POWER ACTIVE SUBWOOFER

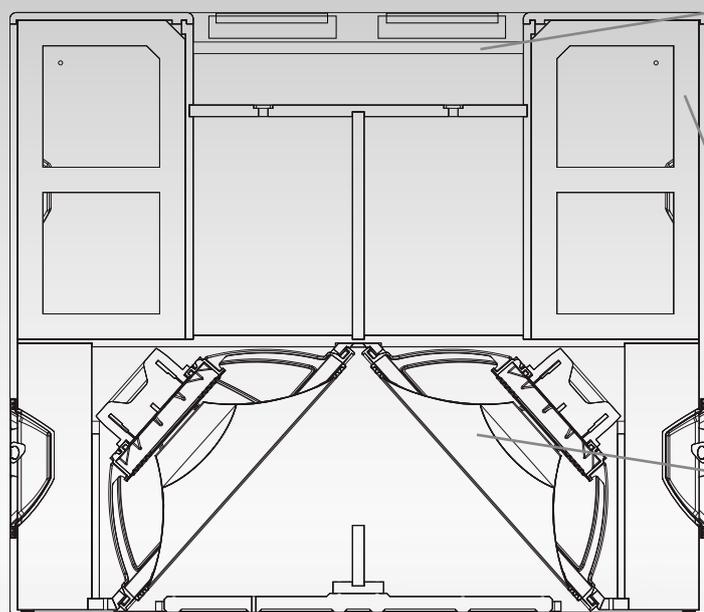
The TTS56-a is a high power, high output active subwoofer system that sets a new standard in the touring sound reinforcement. The new 21" neodymium design represent the result of many years dedicated in pioneering new solutions for the transducers technology. The integration of the 6800 Watt , 2 channel digital amplification and the advanced digital processing set a new standard for distortion, noise and thermal efficiency.

FEATURES

- 6800 Watt (2 x 3400 Watt digital amplifiers)
- 2 x 21" high power neodymium woofers, 4.5" v. c.
- 96 Khz, 32 bit DSP processing
- Remote monitoring and control
- Time delay alignment
- Cardioid preset for groups
- Tour grade Baltic birch cabinet
- Maximum output per size on market

230V & 115 V p/n 13000190

INSIDE VIEW



POWER PLATFORM

The power section comprises 2 x 3400 watt digital amplifiers, a state of the art 32 bit floating point Dsp processing, time delay setting, network board, high quality analog inputs.

TOURING GRADE CABINET

The cabinet is in Baltic birch and the internal structure is heavily braced to survive to long term use and transportation. The weight of the system is less than many similar size passive competitors.

BASS-REFLEX LOADING

The 2 x 21" woofers, in a clam shell loading configuration, provide a very tight and powerful extended bass response.

INPUT BOARD



The input section provides:

- In/Out XLR connectors
- Crossover Out XLR connector
- System sensitivity control
- crossover set-up (60 Hz - 90 Hz)
- High pass set-up (30 Hz - 45 Hz)
- 4 status LEDs
- RDnet Ethercon In/Out connectors

THE INPUT SECTION PROVIDES A SPECIAL SWITCH TO CREATE A CARDIOID CONFIGURATION WHEN TTS56-A SUBWOOFERS ARE USED IN GROUPS OF THREE

TRANSDUCERS

The TTS56-A features two 21" high power neodymium woofers. A new 21" transducer has been specifically designed for the application. The woofer provides very high power handling, low distortion at large excursions and very light weight for the power. The clam shell acoustical configuration provides very high outpour, bass reflex quality sound, very compact footprint.

The new 21" transducer design features:

Very high force, neodymium magnet assembly 115 mm diameter, 33 mm length, inside-outside copper voice coil reinforced silicon double spiders carbon fiber doped water resistant cone heavy duty aluminum basket magnet assembly complex ventilation for minimum power compression.



The highest power ever packed into a sub



POWER AMPLIFIERS

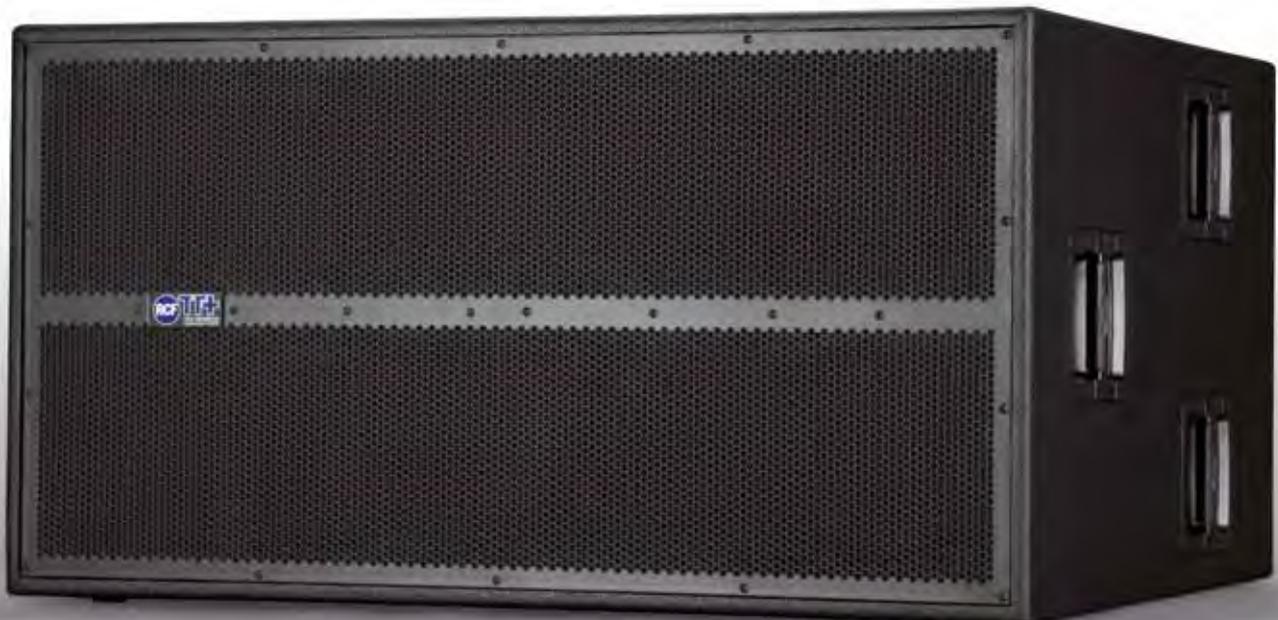
The TTS56-A amplifier section features 2 x 3400 Watt highly advanced digital amplifier modules. The power amplifiers and the input board are housed on a heavy duty aluminum paned suspended from the main cabinet with flexible mounts to obtain the best insulation from vibrations of the electronic parts.

Each module features:

- Power Factor Correction (PFC)
- Separated power supply and amplification
- High efficiency, very low consumption
- Comprehensive, smart protection features: thermal, over-current, non audio signals
- Two "on board" ventilation fans

RDNET

The TTS56-A is equipped with a dedicated RDnet networking board. It is possible to monitor all the system parameters, from the input to the status of each amplifier, to address to single cabinets or groups of cabinets specific presets or modifications of parameters like gain, equalisation or delay.



TTS36-A

ACTIVE HIGH POWER SUBWOOFER

The TTS36-A is a high power, high output active subwoofer system that sets a new standard in the touring sound reinforcement. The new 18" neodymium design represent the result of many years dedicated in pioneering new solutions for the transducers technology. The integration of the 4000 Watt , 2 channel digital amplification and the advanced digital processing set a new standard for distortion, noise and thermal efficiency.



230V & 115 V p/n 13000272

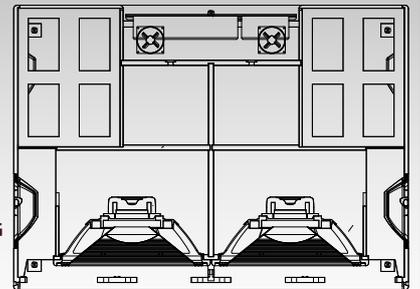
Full digital control, neverending power

FEATURES

- 4000 watt (2 x 2000 Watt digital amplifiers)
- 2 x 18" high power neodymium woofers, 4.5" v. c.
- 96 KHz, 32 bit DSP processing
- Remote monitoring and control
- Time delay alignment
- Bass reflex design, Cardioid preset for groups
- Tour grade Baltic birch cabinet
- Maximum output per size

POWER PLATFORM

The power section comprises 2 x 2000 watt digital amplifiers, a state of the art 32 bit floating point Dsp processing, time delay setting, network board, high quality analog inputs.



BASS-REFLEX LOADING

The 2 x 18" woofers, in a separate chambers bass reflex configuration, provide a very tight and powerful extended bass response.

INPUT BOARD



- The input section provides:
- In/Out XLR connectors
 - Crossover Out XLR connector
 - System sensitivity control
 - crossover set-up (90 Hz - 120 Hz)
 - High pass set-up (35 Hz - 50 Hz)
 - 4 status LEDs
 - RDnet Ethercon In/Out connectors



TTS26-A

ACTIVE HIGH POWER SUBWOOFER

The TTS26-A is a very compact powerful subwoofer designed for a variety of professional fixed or portable sound applications. It is the perfect complement the TTL11A column array system.

Two high power 15" neodymium woofers powered by a 3400 W digital amplifier deliver a perfect and bass punch for live music applications.



230V p/n 13000241
115V p/n 13000242

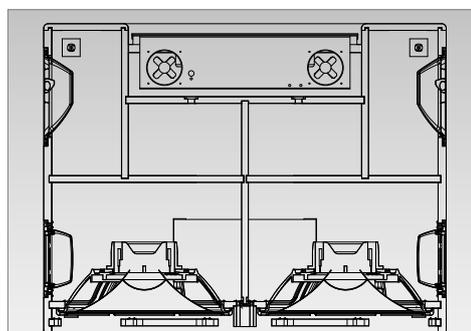


ON BOARD

HIGH POWER SUBWOOFERS

FEATURES

- 3400 Watt digital amplification
- 2 x high power 15" neo woofers, 4" v.c.
- 96 Khz, 32 bit DSP processing
- Remote monitoring and control
- Time delay alignment
- Cardioid preset for groups
- TTL11A mechanics ready
- Maximum output per size



POWER PLATFORM

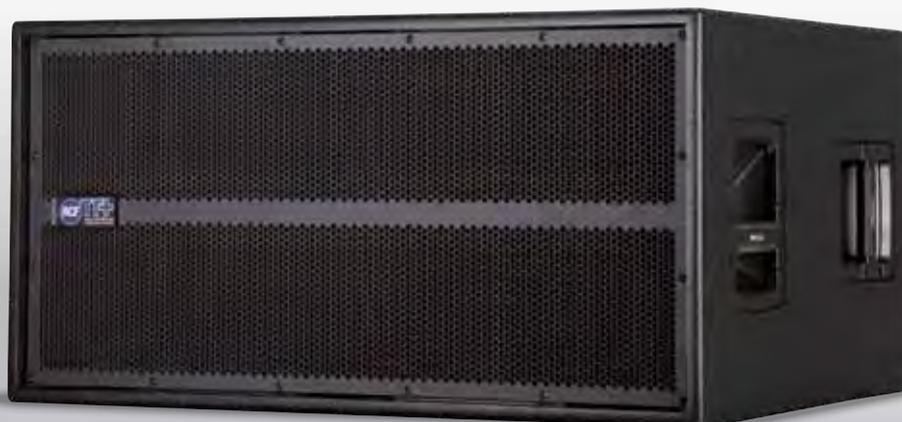
The amplifier section features 3400 W switching power supply (1700 W + 1700 W), a state of the art 32 bit floating point Dsp processing, time delay setting, network board, high quality analog inputs.

WOOFERS

- 2 x 15" high power vented neo woofers, 4" voice coil
- Minimum weight basket design



Sound systems design for almost any application benefit from the addition of extended low frequency or sub bass. True natural reproduction of music requires that the sound system's output should extend into the lowest octaves of the audible spectrum.



TTS28-A

ACTIVE HIGH POWER SUBWOOFER

The TTS28-A is a high power double 18" bass reflex subwoofer ideal for touring applications. With the digital switching amplifiers, neodymium woofers and a well designed structure, it is one of the smallest and lightest double 18" systems available. A unique feature is the semi charged horn design which, at low frequencies around 40 Hz, operates as a conventional bass reflex cabinet, however at the slightly higher frequencies in the 80 to 100 Hz area, the system operates as a "clam shell loading" design which provides higher efficiency.



Powerful tools for powerful systems

230V p/n 13000092
115V p/n 13000102

FEATURES

- 2000 W digital switching amplifier
- 2 x 18" high power neodymium woofers, 4" v. c.
- XLR in/out, Powercon input
- Baltic birch cabinet
- Very compact size
- Minimum weight
- Maximum output per size on the market



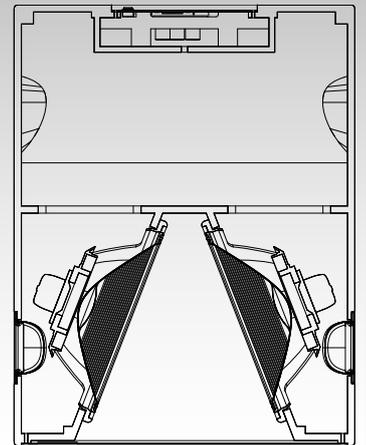
■ MASSIVE POWER

On our subwoofers each single transducer is independently driven from a 1 kW RMS amplifier providing an incredible performance and amount of sound power from a very compact size.

AMPLIFIER

The amplifier section features 2000 W switching power supply (1000 + 1000).

The input section provides In/Out xlr connectors, Crossover Out xlr connector, system sensitivity control (linear potentiometer), crossover set-up (80 Hz - 100 Hz - crossover add), very low frequencies high pass (45 Hz), 4 status LEDs. The AC panel features Powercon Input connector, On/Off switch.



Sound systems designed for almost any application benefit from the addition of extended low frequency or sub bass. True natural reproduction of music requires that the sound system's output should extend into the lowest octaves of the audible spectrum.

TTS18-A

ACTIVE HIGH POWER SUBWOOFER

The TTS18-A is a very high output, compact bandpass subwoofer. It is the ideal in combination with TT+ 2-way systems or used in multiples for very flexible touring solutions.



230V p/n 13000093
115V p/n 13000103

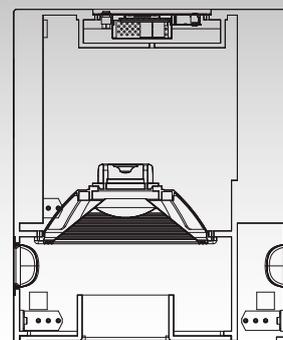
HIGH POWER SUBWOOFERS

FEATURES

- 1000 W switching amplifier
- 18" high power neodymium woofer, 4" v. c.
- XLR in/out, Powercon in/out
- Baltic birch cabinet
- Very compact size
- Maximum output per size on the market

TTS18-A WOOFER

The TS18-A woofer features: lightweight, high force, neodymium magnet assembly, 100 mm diameter, 25 mm length, inside-outside copper voice coil, silicon double spiders, water resistant treated cone and magnet assembly complex ventilation for minimum power compression.



■ SUPERIOR WOOFERS

RCF LF18N401: incredibly linear frequency response characteristics, the highest power handling of any comparable 18" neodymium transducer and the lower power compression. Fibre loaded cone assembly along with a high excursion triple roll, constant geometry surround. This combination provides remarkable strength and a peak to peak maximum excursion of 48 mm. A fully optimised T-pole design generates the minimum amount of flux modulation, the unique dual-forced air venting systemventing system guarantees a very efficient voice coil ventilation for minimum power compression and higher power handling.

■ FLEXIBLE CONTROLS

Power amplifiers are driven from a very accurate analog input board: perfect linearity and audio quality, soft peak limiter, rms limiter. Many crossovers and operation options are available: extreme low frequency high pass, phase inversion, 80 Hz and 110 Hz crossover, adding mode crossover for maximum punch of the system.

Whether it is for the provision of subtle dynamic sound for theatre applications, the raw power of a bass drum kick or an air moving concert sound sub bass system, RCF has the solution.



TTS12-A

ACTIVE HIGH POWER SUBWOOFER

The TTS12-A is an extremely compact high power subwoofer designed to complement the TT08-A speaker system. Based around a band pass design using a newly designed 4" voice coil vented neodymium 12" woofer the TTS12-A is powered by the on board 1000 W Class D power switching amplifier.



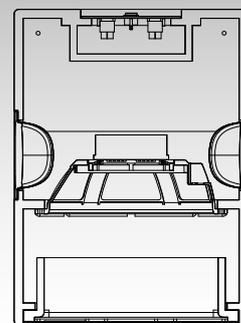
230V p/n 13000117
115V p/n 13000132

FEATURES

- 1000 W digital switching amplifier
- 12" high power neodymium woofer, 4" v. c.
- XLR in/out, Powercon in/out
- Very compact size
- Baltic birch cabinet
- Minimum weight

TTS12-A CUT VIEW

High quality neodymium transducers, strong Baltic birch construction, powerful digital amplifier and compact size make the TTS12-A the ultimate choice for a small and portable high definition sound reinforcement system.



POLE MOUNT

A rugged powder coated steel pole mount has been installed on top of the TTS12-A subwoofer to provide a pole mount option for various TT08-A satellites.



MAXIMUM FLEXIBILITY

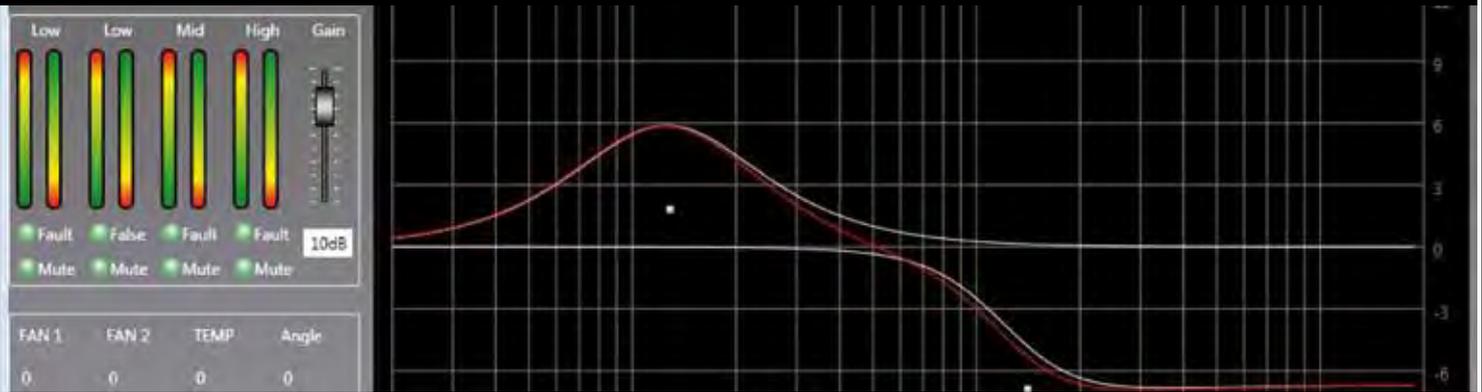
The system can be wired with one subwoofer plus two satellite TT08-A in full stereo or "one to one" ratio from the inbuilt active crossover system.

PERFECT COMBINATION

- TT08-A pag. 24
- TT051-A pag. 26
- TT052-A pag. 27



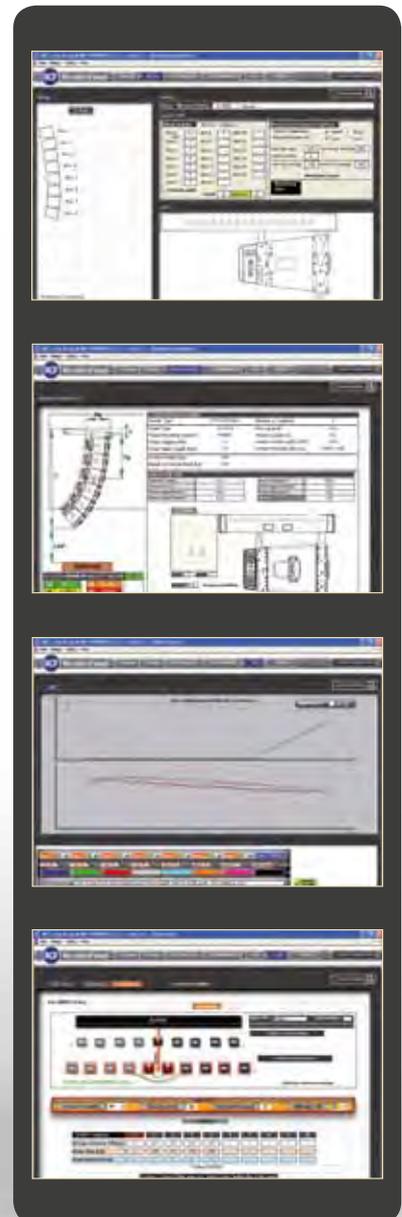
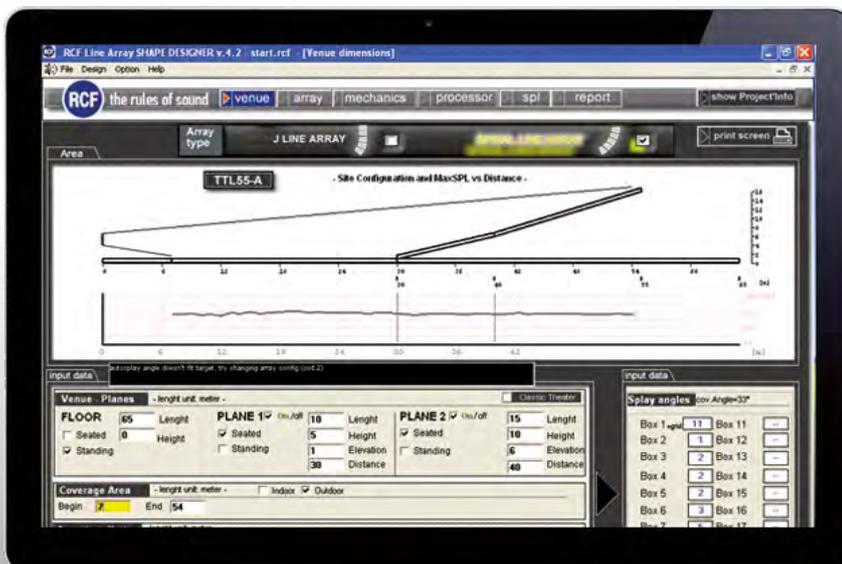
SOFTWARE



Total control

RCF SHAPE DESIGNER

In order to assist with the set up procedures for the TT+ Line Array Systems, RCF has developed a complete prediction software package. The software enables a complete two dimensional simulation of the behaviour of the cabinets arrays and also suggest the correct subwoofers combination. The system curvature angles and the sound projection data are computed with maximum sound pressure levels for the given design. The rigging menu provides data for weight, centre of gravity and length of the array configuration. Rigging points and rigging hardware configurations are also computed.



RDNet Control 8

8 OUTPUT MASTER UNIT

The RDNet 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 the data collected from the slaves are 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 every TT+ product through the exclusive RDNet protocol making it possible to address in single cabinets or groups, specific presets or modification parameters in real-time. The key point of RDNet Control 8, in fact, is to ensure minimum refresh time (at least 5 per second) of all the system data performance like RMS signals, compressor activity, temperature, fans speed and warnings. Data transfer can be routed also through the provided xlr connectors enabling the control of the system on traditional multi-cored cables.



230V / 115V
p/n 17170154

Total control

FEATURES

- RDNet control and monitoring in a single device by Ethernet or USB communication
- 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 sent from slave devices
- User configurations storage and recall



■ TOPOLOGY FLEXIBILITY

The RDNET 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).



■ CONTROL FLEXIBILITY

The PC cyclically requires the RDNET 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 RDNET CONTROL 8 unit to the ones of the PC software preset.



■ COMMUNICATION FLEXIBILITY

The link between the PC and the RDNET CONTROL 8 unit can be made through USB port or ETHERNET port.



■ REAR VIEW



RNet Control 2

2 OUTPUT USB MASTER UNIT

The RNet Control 2 is an hardware interface to connect RCF RNet compatible devices (TTL55-A, TTL33-A II, TTL31-A II, etc.) to a Personal Computer (PC) by means of an USB connection.

The RNet system was purposely developed to create a data network for monitoring and command of more systems. The RNet 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 RNet Control 2 interface. Each device is assigned a unique address during the power on procedure of network.

USB POWERED
p/n 17170163

FEATURES

- RNet 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

RNET

We have developed a dedicated networking board for the latest TT+ products. Using our proprietary RNet protocol is possible to monitor all the system parameters, from the input to the status of each single amplifier. Having a Dsp on board of each cabinet, it is possible to address to single cabinets or groups of cabinets specific presets or modifications of parameters like gain, equalisation or delay. The RNet 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.



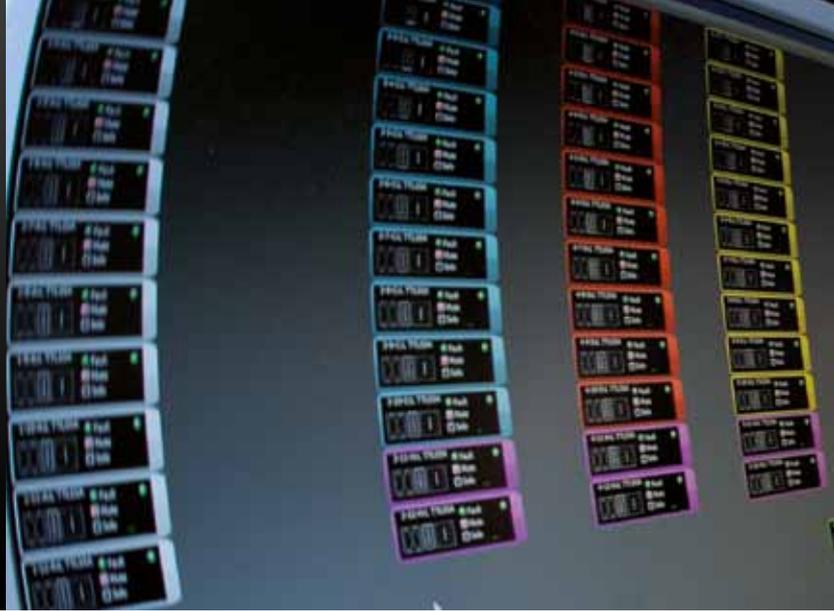
■ REAR VIEW



RNet

SOFTWARE

Using the RNet protocol is possible to monitor all the system parameters, from the input to the status of each single amplifier. With the integrated DSP board of each unit, it is possible to address to single cabinets or groups of cabinets specific presets via the RNet GUI software. Furthermore to do modifications of parameters like gain, equalisation or delay.



AUTOMATICALLY SCANNING

When online the RNet Control 8 unit sequentially scans all audio devices, which are automatically assigned to digital addresses. The loudspeaker object are automatically added to the software synoptic, and the software shows an object for each loudspeaker (or any other audio device) that has been found.

In the object window you get different indications of the speaker and also switch functions such as Mute & Solo. There are two indicators of the signal level: the first is a bar, the second a single LED to indicate the peaks.

The display also indicate with a yellow alert symbol if there is a wrong setting in the system.



OBJECT WINDOW

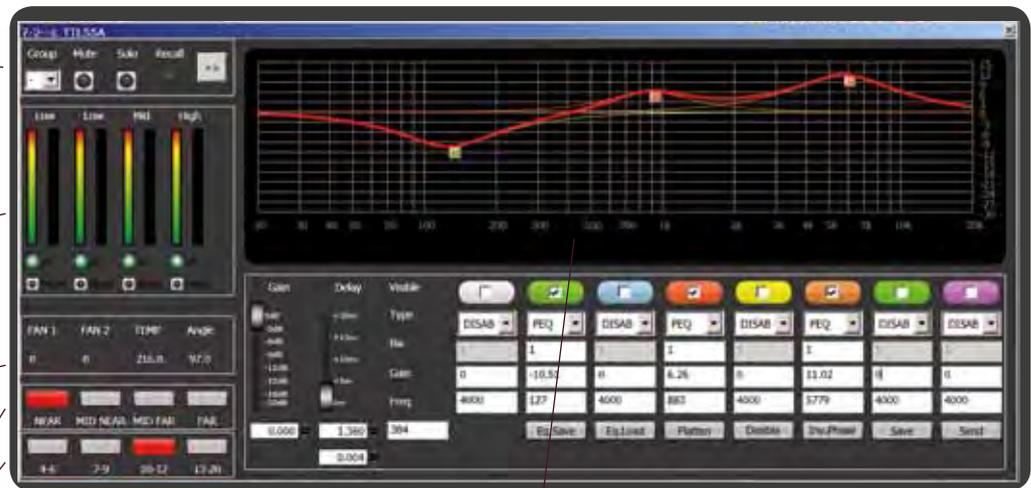
The object window includes the Group parameter, the Mute and Solo commands and the Recall indicator.

In the center there is level bars, a pair per each speaker way: Low, Low, Mid & High. In each pair the left bar indicates the signal level of its respective way, the right bar indicates the compressor operation.

The ok LEDs indicate that each speaker way is working properly and Mute switch are also accessible for the same window.

Speed indication of FAN 1 & FAN 2, internal temperature indication and Angle shows the loudspeaker (vertical tilt).

Settings for loudspeaker field (NEAR / MID NEAR / MID FAR / FAR) & cluster loudspeaker number setting.



SIGNAL LEVEL & DELAY SETTING

Setting of signal level attenuation (value: from 0 to -20 dB).
Signal Delay setting, express in range of 0

EQUALIZER DISPLAY

A graphical display of your different EQ settings

SELECTABLE EQ FUNCTIONS

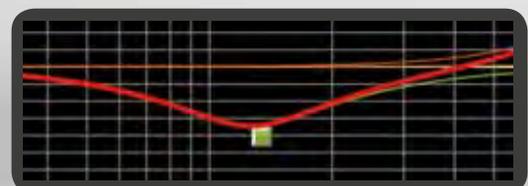
Settings of EQ types, Flatten, Disable & Inverted PH buttons. Furthermore Save and Send options. Save function: Sends and stores the equalization to the selected speaker. Send function: Sends (without storing) the equalization to the selected loudspeaker.



FREQUENCY & GAIN

The Frequency and Gain can be adjusted either graphically (through the mouse), bu enabling the "Visible" option (to visualize the filter intervention) and moving the little coloured square or in an analytical way, by inserting the values in the cells and then activating the "Visible" option.

The overall equalization is shown as a red line, the intervention of a single filter as a line of ist respective colour.





Take control of the system setup



8 SELECTABLE FILTERS

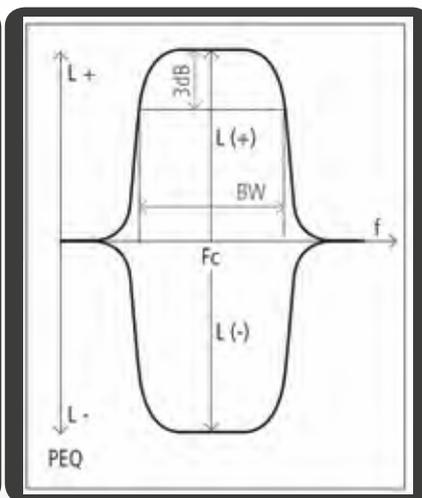
DISABLED: the filter is disabled.

SHELIVING_HIGH: increase or decrease the level of all frequencies below the selected frequency by the specified amount.

PEQ: parametric equalizer that allows to adjust the level L at the settable center frequency F_c and specify the bandwidth BW (the adjusted level can be widened or narrowed)

LOW_PASS (available as filter only):
Butterworth 24 dB / octave low-pass filter
(note: filter GAIN control is disabled).

HIGH_PASS (available as second filter only):
Butterworth 24 dB / octave hi-pass filter (note: filter GAIN control is disabled).



AC RD-NET IN-OUT PLUG p/n 13360176 Compatible with TTL11A, TT051-A, TT052-A RD NET CONTROL BOARD

With AC RD-NET IN/OUT Plug - modules installed, RCF TT+ systems can be remotely controlled and monitored using RD Net software. A Windows-based application, this interface provides an intuitive, easy to use platform for system configuration and operation of RCF TT+ devices in the network chain. RD Net System Architect enables the unified layout of onscreen product control surfaces, and simple preset configuration of an entire system made up of RCF TT+ products. Advanced remote control and diagnostic capabilities, control panel for 8 band full parametric Eqs, delays, and the recall of presets on all connected RCF TT+ devices are included. In addition, the application enables a user to change and store parameter values in multiple products across the RD Net network.



PASSIVE SPEAKERS

The TT+ passive line is a compact multi-use loudspeakers range specifically outfitted to serve in a variety of both portable and permanent applications. The TT+ passive series full bandwidth cabinets are fitted with Constant Matching Design Horns and neodymium-based state of the art cone drivers. It combines smooth, dynamic full frequency performance with exceptional articulation for a portable stand-alone system. The asymmetric enclosure provides typical angles needed for ceiling and wall mounting as well as for stage monitor operation. It is particularly suitable as a nearfield main loudspeaker or as fill/delay element in larger systems, with wide angle projection making for easy audience coverage. The TT+ passive range includes subwoofer models that are direct radiating, with optimally tuned and vented enclosures. TT+ subwoofers are the choice where the best sonic performance, highest reliability and most robust physical construction are required.

TT25 TWO-WAY PASSIVE SPEAKER

p/n 13000134

The TT25 is a two-way passive system equipped with a constant directivity CMD horn designed mathematically for Constant Matching Design in relation to the woofer system, loaded to a 1.5" RCF precision neodymium compression driver with a 3" diaphragm assembly for smooth, controlled dispersion. The low frequency transducer is a 15" RCF Precision neodymium woofer with a 4" voice coil. The crossover is easily bypassed for bi-amp via a recessed changeover switch.

FEATURES

- 1000 W power handling
- 90° x 40° coverage angle
- 15" neo woofer, 1.5" HF driver
- 136 dB Max SPL



TT22 TWO-WAY PASSIVE SPEAKER

p/n 13000133

The TT22 is a high performance, wide bandwidth system in a compact and efficient package. Extended frequency response is provided by a new 12" LF neo driver and a new 3" diaphragm compression driver mounted on a rotatable 90° x 40° constant directivity horn. The new HF driver utilises a titanium diaphragm with controlled break-up modes for improved sonic performance at high frequencies and the crossover design and LF cone profile have been optimised to match the directivity of the HF horn and LF section through the crossover region.

FEATURES

- 800 W power handling
- 90° x 60° coverage angle
- 12" neo woofer, 1.5" HF driver
- 131 dB Max SPL



TT08 TWO-WAY PASSIVE SPEAKER

p/n 13000130

The TT08 is a two-way passive speaker perfect for higher power applications where ease of installation, or speed of deployment, are important factors. Its ergonomic design and rotatable HF horn makes near-ceiling mounting and aiming easy in venues with restricted height, whilst its multi-angle birch plywood cabinet allows it also to be used as a high power floor monitor. Its M8 inserts make a variety of horizontal or vertical mounting methods possible.

FEATURES

- 400 W power handling
- 90° x 60° coverage angle
- 8" neo woofer, 1" HF driver
- 125 dB Max SPL





■ TRANSDUCERS

Dynamic high-frequency driver protection is accomplished with the RCF exclusive – Active Mosfet Compression Driver Protection System, chosen to complement the power curve of the driver.



■ FILTERS

For a superior power handling high power, aluminium case, resistors are used in the crossover network.



■ FULL RANGE / BI-AMP SWITCH

The crossover of the 2-way passive models can be easily bypassed for bi-amp via a recessed changeover switch

TTS28

HIGH POWER PASSIVE SUBWOOFER

TTS18

HIGH POWER PASSIVE SUBWOOFER

p/n 13000136

p/n 13000137

The TTS28 is a direct radiating, high output, large format subwoofer system proven in complementing high efficiency, full-range loudspeakers. Woofers mounting maximizes cone area and minimizes frontal area, providing acoustical performance and physical configuration well suited for creating large subwoofer arrays. New top quality neo transducers provide the highest output and best sonic performance possible for a given form factor.

FEATURES

- 2000 W power handling
- 2 x high power neodymium 18" woofers
- Very compact size
- Minimum weight
- 139 dB Max SPL

The TTS18 is a high performance sub-bass system designed for use with small to medium sound reinforcement systems, in both touring and install applications. It features a 1000 W 18" drive unit with magnet structure and suspension engineered for maximum linear excursion. An optional top hat fitting allows mid-top cabinets to be mounted on the sub using an adjustable pole.

FEATURES

- 1000 W power handling
- High power full neodymium 18" transducer
- Very compact size
- Minimum weight
- 136 dB Max SPL



WEATHERPROOF SPEAKERS

The WPTT+ line is a multi-use loudspeakers range specifically outfitted to serve portable and permanent applications. The cabinets come with superior features. These models are especially designed to withstand exposure to weather without damage or loss of function of the speakers.

TTL33 WP

WEATHERPROOF PASSIVE
LINE ARRAY MODULE

p/n 13000248

FEATURES

- Very compact size
- Maximum output per size available on the market
- Wide, constant directivity, horizontal coverage angle
- 6 high power neodymium transducers
- Minimum weight
- Watertight multi-pole connector IP67
- LICC (Low Impedance Compensated Crossover Network)
- Baltic birch cabinet

TTL31 WP

WEATHERPROOF PASSIVE
LINE ARRAY MODULE

p/n 13000250

FEATURES

- Very compact size
- Maximum output per size available on the market
- Wide, constant directivity, horizontal coverage angle
- 4 high power neodymium transducers
- Minimum weight
- Watertight multi-pole connector IP67
- LICC (Low Impedance Compensated Crossover Network)
- Watertight multi-pole connector

TTL12-S WP

WEATHERPROOF PASSIVE LINE
ARRAY SUBWOOFER MODULE

p/n 13000253

FEATURES

- Precise rigging system simplifies integration in flown or ground-stacked arrays
- Very compact size
- Maximum output per size available on the market
- Minimum weight
- High power full neodymium 12" transducer
- Watertight multi-pole connector IP67
- Baltic birch cabinet



■ GRILLE WITH DOUBLE PAINTING, FOAM AND RAIN SLIM COVER



■ POLYUREA PAINTING INSIDE AND OUTSIDE

The grill comes with a double painting to strengthen the durability features a foam layer and a water resistant clothbacking for extra protection against the rain.

We utilizes a special heavy duty polyurea paint to create a very thick full coating of the cabinet making it highly resistant to scratches and bumps. Polyurea lasts longer than paint and epoxy and maintenance services and costs are therefore reduced. Polyurea's are very durable and it can be used as a waterproofing and protective coating from daily operations. Polyurea has a high tolerance for substrate and environmental humidity and temperature.

TT22 WP

WEATHERPROOF HIGH OUTPUT
TWO-WAY PASSIVE SPEAKER

p/n 13000252

TTS28 WP

WEATHERPROOF PASSIVE HIGH POWER
SUBWOOFER

p/n 13000251

FEATURES

- Very compact size
- Maximum output per size available on the market
- Minimum weight
- Wide, constant directivity, horizontal coverage angle
- High power neodymium transducers
- Dual function design: built in passive crossover or external bi-amp
- LICC (Low Impedance Compensated Crossover Network)
- Watertight multi-pole connector IP67



FEATURES

- Very compact size
- Maximum output per size available on market
- Minimum weight
- 2 x high power full neodymium 18" transducers
- Watertight multi-pole connector IP67
- Baltic birch cabinet



■ IP 67 CONNECTORS

An IP number is used to specify the environmental protection of enclosures around electronic equipment. These ratings are determined by specific tests. The IP is composed by two numbers, the first referring to the protection against solid objects and the second against liquids. The higher the number, the better the protection. The connectors have an IP rate of 67, which means: Totally protected against dust and Protected against the effect of immersion between 15cm and 1m.



■ INOX STEEL SCREWS & MECHANICS WITH PROTECTIVE FILM

All screws used on the WPTT+ boxes are Inox, this material is also known as stainless steel, a metal that is strong, durable and often used for applications where you need a strong protection against rust and different weather conditions. The surface of the mechanics has a protective film useful against shifting weather conditions and more resistant against unwanted scratching. It also secures a high work reliability of the product in applications where the surface is constantly under pressure.

ACCESSORIES

A complete range of accessories specifically designed for the touring and theatre series. The list includes brackets, flying bars, adaptors, covers for protection, kart, speaker stands and more. All accessories are custom designed for each individual product to ensure that everything matches perfectly.

TT+ COVERS AND PROTECTIONS



**p/n 13360136
AC RAIN COVER TTL55**
Rubber rain cover protection for TTL55-A amplifiers.



**p/n 13360083
AC RAIN COVER TTL33**
Rubber rain cover protection for TTL33-A and TTL33-A II amplifiers.



**p/n 13360142
AC RAIN COVER TTL31**
Rubber rain cover protection for TTL31-A and TTL31-A II amplifiers.



**p/n 13360137
AC RAIN COVER TTS56**
Rubber rain cover protection for TTS56-A amplifiers.



**p/n 13360134
COVER TTL55**
Single protection for one TTL55 array module. Includes a soft bag on top to store cables and spare pins. To be used in conjunction with TTL55-A single kart.



**p/n 13360135
COVER TTS56**
Protection cover for for one TTL56-A subwoofer. Best used in conjunction with TTL56-A front wood cover.



**p/n 13360054
COVER TTS28**
Protection cover for TTS28 and TTS28-A.



**p/n 13360053
COVER TTS18**
Protection cover for TTS18 and TT18-A.



**p/n 13360230
COVER TTS26**
Protection cover for TTS26-A.



**p/n 13360056
COVER TT25**
Protection cover bag for TT25 and TT25-A.



**p/n 13360055
COVER TT22**
Protection cover bag for TT22 and TT22-A.



**p/n 13360096
COVER TT08**
Protection cover bag for TT08 and TT08-A.



**p/n 13360169
COVER TT051-A**
Protection cover bag for TT051-A.



**p/n 13360170
COVER TT052-A**
Protection cover bag for TT052-A.



**p/n 13360140
FRONT WOOD COVER TTS56**
Quick lock wood front protection for TTS56-A subwoofer. Compatible under the TTS56-A cover.



**p/n 13360157
AC SLED56**
TTS56-A sub's hard nylon side reinforcements to facilitate ground transportation.

TTL+ LINE ARRAY ACCESSORIES



**p/n 13360154
LIFT KART TTL55**
Lifting trolley for TTL55-A arrays.



**p/n 13360120
FLY BAR TTL55**
Suspending bar for TTL55-A line array system (including Pickup Point and Quick Lock pins).



**p/n 13360052
FLY BAR TTL33**
Suspending bar for TTL33-A and TTL33-A II array systems.



**p/n 13360063
FLY BAR TTL33 SHORT**
Short suspending bar for TTL33-A and TTL33-A II array system (including 2 Quick lock pins)



**p/n 13360076
FLY BAR TTL31**
Suspending bar for TTL31-A and TTL31-A II array system



**p/n 13360131
LINK BAR TTL55-33-31**
Transition Frame to connect up to 8 TTL33-A/TTL33-A II or TTL31-A/TTL31-A II under a TTL55-A line array system.



**p/n 13360057
STCK BAR TTL33**
Accessory to add to Fly bar TTL33 for stacking option on sub. Quick lock pins to be added.



**p/n 13360079
STCK BAR TTL31**
Accessory to add to Fly bar TTL31 for stacking option on sub. Quick lock pins to be added.



**p/n 13360162
AC TTS18**
Accessory to link subwoofer TTS18-A to Fly bar TTL33 and the TTL33-A/TTL33-A II module to the TTS18-A.



**p/n 13360175
AC ASSEMBLY TTL11AH/AB**
Accessory to link TTL11A-H to TTL11A-B. (including 2 quick lock pins)



**p/n 13360177
AC ASSEMBLY TTL11/TTS26**
Accessory to link TTL11A system to TTS26-A subwoofer. (including 4 quick lock pins)



**p/n 13360203
FLOOR STAND TTL11A**
Accessory to mount TTL11A on the floor.



**p/n 13360122
AC 4PIN TTL55**
4X TTL55-A module pin set. Spare set in case original pins are damaged or lost.



**p/n 13360132
AC 4PIN FLY BAR TTL55**
4X TTL55-A fly bar pin set. Spare set in case original pins are damaged or lost.



**p/n 13360060
AC 4PIN TTL33**
4 quick lock pins kit for TTL33-A array system.



**p/n 13360077
AC 4PIN TTL31 NXL23**
4 quick lock pins for TTL31-A and NX L23-A array system.

TTL+ LINE ARRAY ACCESSORIES



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.



p/n 13360128
SAFETY CHAIN TTL55

Safety chain for ttl55 array system



p/n 13360133
AC WOOD KART TTL55

TTL55-A front kart



p/n 13360059
KART TTL33

Kart to transport 4 TTL33-A/TTL33-A II modules with the fly-bar connected.



p/n 13360226
AC RNET INPUTS TTL33-A II

Accessory to convert TTL33-A input board to TTL33-A II.



p/n 13360227
AC RNET INPUTS TTL31-A II

Accessory to convert TTL31-A input board to TTL31-A II.



p/n 13360130
SHACKLE TTL55

3/4" Shackle ~ 4-3/4 tons for TTL55-A array system. To be added to the flybar accessory in case the pick up is made with 2 motors.



p/n 13360127
FLY BAR PICKUP TTL55

Spare pickup point (including 2 quick lock pins)



p/n 13360143
SHACKLE TTL33-TTL31

5/8" SHACKLE ~ FOR TTL33-A/TTL33-A II, TTL31-A/TTL31-A II ARRAY SYSTEMS. To be added to the flybar accessory in case the pick up is made with 2 motors.

TT+ MOUNTING BRACKETS



**p/n 13360108
AC PRO15 V-BR**
Bracket for flying and wall mounting TT25-A or TT25 loudspeakers with pole and adjustable inclination.



**p/n 13360030
AC DS4X**
Kit of 4 hooks for suspending fly track bar.



**p/n 13360107
AC PRO12 V-BR**
Bracket for flying and wall mounting TT22-A or TT22 with pole and adjustable inclination.



**p/n 13360171
AC TT051/52 PIPE CLAMP**
Pipe clamp adapter for TT051-A and TT052-A.



**p/n 13360106
AC PRO8 V-BR**
TT08 and TT08-A flying and wall mount bracket with mounting pole and adjustable inclination.



**p/n 13360172
AC TT051/52 STAND ADAPTER**
Stand adapter for TT051-A and TT052-A.



**p/n 13360091
AC TT25 V-BR**
TT25 and TT25-A wall mount brackets with adjustable inclination.



**p/n 13360178
AC TTL11 WM-BR**
Accessory to mount TTL11A on the wall.



**p/n 13360090
AC TT22 V-BR**
TT22 and TT22-A wall mount brackets with adjustable inclination.



**p/n 13360082
AC TT08 H-BR**
Pair of horizontal bracket for mounting TT08 and TT08-A speakers on the wall.



RDNET ACCESSORIES



**p/n 13360176
AC RD-NET IN-OUT PLUG**
RD NET CONTROL BOARD for TTL11A, TT051-A and TT052-A.

TT+ CABLES AND GENERAL ACCESORIES



p/n 13360138
AC POWER CABLE 6X
TTL55
AC Cable to power up to 6 TTL55-A or TTS56-A amplifiers.



p/n 13360034
AC PMA
Speaker pole mount.



p/n 13360146
AC POWER EXTENSION
TTL55
AC power cable extension 20 meters.



p/n 13360111
AC PRO-LF
Steel professional adapter sleeve for loudspeaker stands.



p/n 13360145
AC POWER BOX 6XTTL55
European stage box to power 6 ttl55-a line array modules.



p/n 13360109
AC PRO-FS
Steel speaker floor stand with folding base and telescopic rod.
Tube diameter 35mm.
Load capacity up to 50kg.



p/n 13360033
AC NL4F 4X
Kit of 4 male speakon connectors 4 poles.



p/n 13360068
AC TT PMA
Pole mount cap for TTS18, TTS18-A, TTS28 and TTS28-A subwoofer.



p/n 13360035
AC S260
Steel speaker floor stand with folding base and telescopic rod, tube diameter 35mm.
Equipped with damping system and safety plug; central die-cast joint.



p/n 13360066
AC M20-PLATE
Threaded plate for M20 pole mount.



p/n 13360036
AC S140
Aluminum speaker floor stand with folding base and telescopic rod, Tube diameter 35mm.
Equipped with damping system and safety plug



p/n 13360110
AC PRO-PM
Pole mount with ring lock



p/n 13360067
AC PM M20
M20 pole mount for TT22, TT22-A, TT25 and TT25-A speakers.

TECHNICAL SPECIFICATIONS

ACTIVE SPEAKERS

ACOUSTICAL SPEC.

Frequency Response
 Max SPL
 Horizontal coverage angle
 Vertical coverage angle
 Compression Driver
 Midrange
 Woofer

INPUT SECTION

Input connector
 Output connector
 Input sensitivity

PROCESSOR SECTION

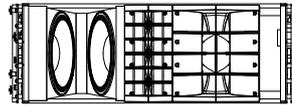
Crossover frequencies
 Protections
 Limiter
 Controls

AMPLIFIER

High frequencies
 Mid frequency
 Low frequencies
 Cooling
 Connection

PHYSICAL SPEC.

Height
 Width
 Depth
 Weight
 Cabinet
 Hardware
 Handles



TTL55-A

230V p/n 13000188
 115V p/n 13000189

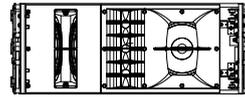
50 Hz - 20 kHz
 143 dB
 90°
 max 7°
 3x1.5" neo, 2.5" v.c.
 10" neo, 3.5" v.c.
 2 x 12" neo, 4" v.c.

xlr, RDNet Ethercon
 xlr, RDNet Ethercon
 4 dBu

320 Hz - 1300 Hz
 thermal, excurs., rms
 soft limiter
 Dsp controlled

500 Watt
 1000 Watt
 2 x 1000 Watt
 convection/forced
 powercon

380 mm (15")
 1020 mm (40")
 550 mm (21.6")
 67 Kg (147.7 lbs)
 baltic birch plywood
 array fly-ware
 2 side



TTL33-A II

230V p/n 13000360
 115V p/n 13000361

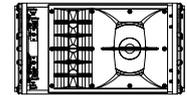
60 Hz - 20 kHz
 135 dB
 100°
 max 15°
 3x1.0" neo, 1.5" v.c.
 8" neo, 2.5" v.c.
 2 x 8" neo, 2.5" v.c.

xlr, RDNet Ethercon
 xlr, RDNet Ethercon
 4 dBu

400 Hz - 1800 Hz
 thermal, hf
 rms, fast limiter
 hf correction, cluster size,
 HPF

250 Watt
 500 Watt
 500 Watt
 convection/forced
 powercon

300 mm (11.8")
 760 mm (30.0")
 450 mm (18.2")
 32.5 Kg (71.5 lbs)
 baltic birch plywood
 array fly-ware
 2 side



TTL31-A II

230V p/n 13000362
 115V p/n 13000363

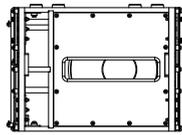
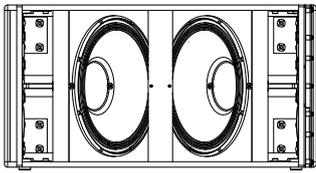
60 Hz - 20 kHz
 132 dB
 100°
 max 15°
 3x1.0" neo, 1.5" v.c.
 -
 8" neo, 2.5" v.c.

xlr, RDNet Ethercon
 xlr, RDNet Ethercon
 4 dBu

1600 Hz
 thermal, hf
 rms, fast limiter
 hf correction, cluster size,
 HPF

250 Watt
 -
 500 Watt
 convection
 powercon

300 mm (11.8")
 538 mm (21.18")
 450 mm (18.2")
 22.5 Kg (49.5 lbs)
 baltic birch plywood
 array fly-ware
 2 side



TTL36-AS

230V & 115 V p/n 13000271

35 Hz - 120 kHz
142 dB
90°
40°
-
-
2 x 18" neo, 4.5" v.c.

xlr, RNet Ethercon
xlr, RNet Ethercon
-2 dBu / + 10 dBu

80 Hz - 120 Hz
thermal, excurs., rms
soft limiter
Dsp controlled

-
-
2 x 2000 Watt
convection/forced
powercon

536 mm (21.10")
1022 mm (40.23")
970 mm (38.18")
120 Kg (264.55 lbs)
baltic birch plywood
array fly-ware
6 side

TTL12-AS

230V p/n 13000124
115V p/n 13000151

40 Hz - 120 Hz
131 dB
-
-
-
-
12" neo, 4" v.c.

xlr
xlr
4 dBu

80/100 Hz
thermal
rms, fast limiter
80/110/add x-over, phase

-
-
1000 Watt
convection
powercon

390 mm (15.35")
538 mm (21.18")
530 mm (20.86")
37 Kg (81.41 lbs)
baltic birch plywood
array fly-ware, pole mount
2 side

TTL11A-H

230V p/n 13000237
115V p/n 13000238

150 Hz - 20 kHz
136 dB
90°
10° to 40°
4 x 1.4" neo, 2.5" v.c.
3 x 8" neo, 2.5" v.c.
-

xlr, RNet Ethercon
xlr, RNet Ethercon
-2 dBu / + 10 dBu

350 Hz - 1300 Hz
thermal, excurs., rms
soft limiter
Dsp controlled

4 x 250 Watt
3 x 350 Watt
-
convection
powercon

1198 mm (47.16")
261 mm (10.27")
242 mm (9.52")
39 Kg (85.98 lbs)
baltic birch plywood
multi-functional
4 side, top, bottom

TTL11A-B

230V p/n 13000239
115V p/n 13000240

60 Hz - 300 kHz
133 dB
90°
40°
-
-
4 x 8" neo, 2.5" v.c.

xlr
xlr
-2 dBu / + 10 dBu

350 Hz
thermal, excurs., rms
soft limiter
Dsp controlled

-
-
2 x 1000 Watt
convection
powercon

1198 mm (47.16")
261 mm (10.27")
242 mm (9.52")
37 Kg (81.57 lbs)
baltic birch plywood
multi-functional
4 side, top, bottom

TECHNICAL SPECIFICATIONS

ACTIVE SPEAKERS

ACOUSTICAL SPEC.

Frequency Response
Max SPL
Horizontal coverage angle
Vertical coverage angle
Compression Driver
Midrange
Woofer

INPUT SECTION

Input connector
Output connector
Input sensitivity

PROCESSOR SECTION

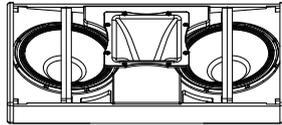
Crossover frequencies
Protections
Limiter
Controls

AMPLIFIER

High frequencies
Mid frequency
Low frequencies
Cooling
Connection

PHYSICAL SPEC.

Height
Width
Depth
Weight
Cabinet
Hardware
Handles



TT45-SMA

230V p/n 13000192
115V p/n 13000193

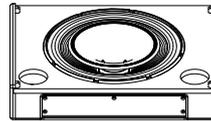
50 Hz - 20 kHz
136 dB
90°
45°
1.5" neo, 3" v.c.
-
2 x 12" neo, 3.5" v.c.

xlr
xlr
-2 dBu / + 4 dBu

1400 Hz
thermal, rms
soft limiter
sensitivity, 2 x side eq.

500 Watt
-
1000 Watt
convection
powercon

380 mm (14.86")
800 mm (31.5")
420 mm (16.53")
38 Kg (83.77 lbs)
baltic birch plywood
-
2 side



TT25-SMA

230V p/n 13000118
115V p/n 13000121

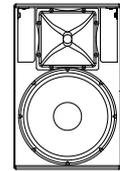
50 Hz - 20 kHz
131 dB
60° conical
60° conical
1.5" neo, 2.5" v.c.
-
15" neo, 3.5" v.c.

xlr
xlr
-2 dBu / + 4 dBu

1200 Hz
thermal, hf
rms, fast limiter
side/floor coupling

250 Watt
-
500 Watt
convection
powercon

330 mm (12.99")
580 mm (22.83")
432 mm (17.00")
20 Kg (44 lbs)
baltic birch plywood
-
2 side



TT25-A

230V p/n 13000090
115V p/n 13000100

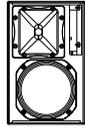
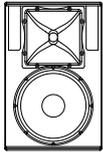
50 Hz - 20 kHz
136 dB
90°
40°
1.5" neo, 3" v.c.
-
15" neo, 3.5" v.c.

xlr
xlr
-2 dBu / + 4 dBu

1200 Hz
thermal, hf
rms, fast limiter
side/floor coupling, HPF

500 Watt
-
1000 Watt
convection
powercon

670 mm (26.37")
430 mm (16.92")
450 mm (17.71")
33 Kg (72.75 lbs)
baltic birch plywood
6 x fly tracks, pole mount
2 side



TT22-A

230V p/n 13000089
115V p/n 13000099

50 Hz - 20 kHz

131 dB

90°

40°

1.5" neo, 3" v.c.

-

12" neo, 3.5" v.c.

xlr

xlr

-2 dBu / + 4 dBu

1200 Hz

thermal, hf

fast limiter

side/floor coupling, HPF

250 Watt

-

500 Watt

convection

powercon

600 mm (23.62")

400 mm (15.74")

400 mm (15.74")

24.2 Kg (53.35 lbs)

baltic birch plywood

6 x fly tracks, pole mount

2 side

TT08-A

230V p/n 13000116
115V p/n 13000120

65 Hz - 20 kHz

128 dB

90°

60°

1" neo, 1.5" v.c.

-

8" neo, 2.5" v.c.

xlr

xlr

-2 dBu / + 4 dBu

1700 Hz

thermal, hf

rms, soft limiter

side/floor coupling

250 Watt

-

500 Watt

convection

powercon

430 mm (16.93")

270 mm (10.63")

303 mm (11.93")

11.4 Kg (25.13 lbs)

baltic birch plywood

2 x fly tracks, pole mount

-

TT051-A

230V p/n 13000243
115V p/n 13000244

65 Hz - 20 kHz

116 dB

Conical 110°

Conical 110°

1 x 1" metal tweeter

-

1 x 5" woofer, 1.2" v.c.

xlr, RDNet ready

xlr

-2 dBu / + 10 dBu

1800 Hz

thermal, excurs., rms

soft limiter

Dsp controlled

150 Watt

-

150 Watt

convection

powercon

348 mm (13.70")

150 mm (5.90")

190 mm (7.48")

4.5 Kg (9.92 lbs)

baltic birch plywood

multi-functional

Top, bottom

TT052-A

230V p/n 13000245
115V p/n 13000246

65 Hz - 20 kHz

123 dB

Conical 90°

Conical 90°

1 x 1" neo, 1.5" v.c.

-

2 x 5" woofer, 1.2" v.c.

xlr, RDNet ready

xlr

-2 dBu / + 10 dBu

1500 Hz

thermal, excurs., rms

soft limiter

Dsp controlled

150 Watt

-

150 Watt

convection

powercon

493 mm (19.40")

150 mm (5.90")

190 mm (7.48")

7.2 Kg (15.87 lbs)

baltic birch plywood

multi-functional

Top, bottom

TECHNICAL SPECIFICATIONS

ACTIVE SPEAKERS

ACOUSTICAL SPEC.

Frequency Response
Max SPL
Horizontal coverage angle
Vertical coverage angle
Compression Driver
Midrange
Woofer

INPUT SECTION

Input connector
Output connector
Input sensitivity

PROCESSOR SECTION

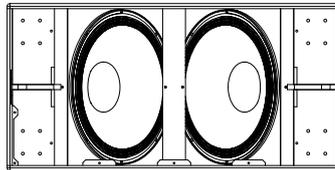
Crossover frequencies
Protections
Limiter
Controls

AMPLIFIER

High frequencies
Mid frequency
Low frequencies
Cooling
Connection

PHYSICAL SPEC.

Height
Width
Depth
Weight
Cabinet
Hardware
Handles



TTS56-A

230V & 115 V p/n 13000190

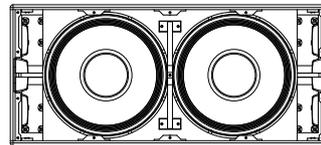
30 Hz - 100 Hz
145 dB
-
-
-
-
2 x 21" neo, 4.5" v.c.

xlr, RDNet Ethercon
xlr, RDNet Ethercon
-2 dBu / + 10 dBu

60 Hz - 80 Hz
thermal, excurs., rms
soft limiter
Dsp controlled

-
-
2 x 3400 Watt
convection/forced
powercon

590 mm (23.22")
1170 mm (46.06")
988 mm (38.89")
115 Kg (253.5 lbs)
baltic birch plywood
Steel bars x fork-lift, 4 wheels
6 side



TTS36-A

230V & 115 V p/n 13000272

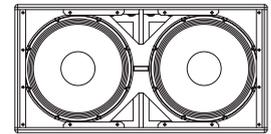
35 Hz - 120 Hz
143 dB
-
-
-
-
2 x 18" neo, 4.5" v.c.

xlr, RDNet Ethercon
xlr, RDNet Ethercon
-2 dBu / + 10 dBu

80 Hz - 120 Hz
thermal, excurs., rms
soft limiter
Dsp controlled

-
-
2 x 2000 Watt
convection/forced
powercon

525 mm (20.66")
1170 mm (46.06")
850 mm (33.46")
95 Kg (209.4 lbs)
baltic birch plywood
Steel bars x fork-lift, 4 wheels
6 side



TTS26-A

230V p/n 13000241
115V p/n 13000242

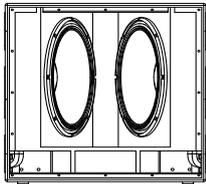
35 Hz - 120 Hz
140 dB
-
-
-
-
2 x 15" neo, 4" v.c.

xlr, RDNet Ethercon
xlr, RDNet Ethercon
-2 dBu / + 10 dBu

90 Hz - 120 Hz
thermal, excurs., rms
soft limiter
Dsp controlled

-
-
3400 Watt
convection/forced
powercon

460 mm (18.11")
900 mm (35.43")
700 mm (27.55")
56 Kg (123.45 lbs)
baltic birch plywood
TTL11A ready, 4 wheels
4 side



TTS28-A

230V p/n 13000092
115V p/n 13000102

30 Hz - 110 Hz
139 dB

-

-

-

-

2 x 18" neo, 4" v.c.

xlr

xlr

-2 dBu / + 4 dBu

80 Hz - 110 Hz

thermal

fast limiter

80/110/add crossover, phase

-

-

2000 Watt

convection

powercon

700 mm (27.56")

700 mm (27.56")

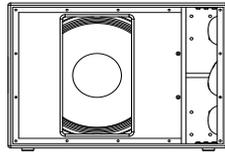
920 mm (36.22")

73 Kg (160.6 lbs)

baltic birch plywood

fittings ready

6 side



TTS18-A

230V p/n 13000093
115V p/n 13000103

35 Hz - 120 Hz
136 dB

-

-

-

-

18" neo, 4" v.c.

xlr

xlr

-2 dBu / + 4 dBu

80 Hz - 110 Hz

thermal

fast limiter

80/110/add crossover, phase

-

-

1000 Watt

convection

powercon

520 mm (20.47")

700 mm (27.56")

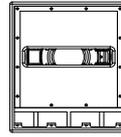
860 mm (33.85")

48 Kg (105.6 lbs)

baltic birch plywood

fittings ready

6 side



TTS12-A

230V p/n 13000117
115V p/n 13000132

45 Hz - 120 Hz
131 dB

-

-

-

-

12" neo, 4" v.c.

xlr

xlr

-2 dBu / + 4 dBu

110 Hz

thermal

fast limiter

phase

-

-

1000 Watt

convection

powercon

480 mm (18.89")

390 mm (15.35")

530 mm (20.86")

28 Kg (61.73 lbs)

baltic birch plywood

pole mount

2 side

TECHNICAL SPECIFICATIONS

PASSIVE SPEAKERS

SYSTEM

Frequency Range (-10 dB)
 Horizontal coverage angle
 Vertical coverage angle
 System sensitivity
 Rated maximum SPL
 System nominal impedance
 System input power rating AES
 System input power rating PEAK
 Recommended amplifier
 HF protection
 Crossover

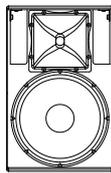
TRANSDUCERS

Low frequency
 Nominal impedance
 Input power rating
 Sensitivity

High frequencies
 Nominal impedance
 Input power rating
 Sensitivity

PHYSICAL SPEC.

Height
 Width
 Depth
 Weight
 Cabinet
 Hardware
 Handles



TT25

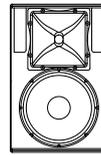
p/n 13000134

50 Hz - 20 kHz
 90°
 40°
 100 dB. 1W @ 1m
 136 dB. 1W @ 1m
 8 Ohm
 1000 Watt
 4000 Watt
 1500 Watt
 dynamic mosfet
 1.3 kHz

15" , 4" v.c.
 8 Ohm
 800 Watt AES
 99 dB. 1W @ 1m

1.5" , 3" v.c.
 8 Ohm
 100 Watt AES
 111 dB. 1W @ 1m

670 mm (26.37")
 430 mm (16.92")
 450 mm (17.71")
 33 Kg (72.75 lbs)
 baltic birch plywood
 6 x fly tracks, pole mount
 2 side



TT22

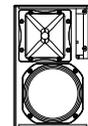
p/n 13000133

50 Hz - 20 kHz
 90°
 40°
 98 dB. 1W @ 1m
 131 dB. 1W @ 1m
 8 Ohm
 800 Watt
 3200 Watt
 1500 Watt
 dynamic mosfet
 1.3 kHz

12" , 4" v.c.
 8 Ohm
 700 Watt AES
 98 dB. 1W @ 1m

1.5" , 3" v.c.
 8 Ohm
 100 Watt AES
 111 dB. 1W @ 1m

600 mm (23.62")
 400 mm (15.74")
 400 mm (15.74")
 24.2 Kg (53.35 lbs)
 baltic birch plywood
 6 x fly tracks, pole mount
 2 side



TT08

p/n 13000130

65 Hz - 20 kHz
 90°
 40°
 94 dB. 1W @ 1m
 125 dB. 1W @ 1m
 8 Ohm
 400 Watt
 800 Watt
 400 Watt
 dynamic mosfet
 1.8 kHz

8" , 2.5" v.c.
 8 Ohm
 800 Watt AES
 99 dB. 1W @ 1m

1" , 1.5" v.c.
 8 Ohm
 400 Watt AES
 94 dB. 1W @ 1m

430 mm (16.93")
 270 mm (10.63")
 303 mm (11.93")
 11.4 Kg (25.13 lbs)
 baltic birch plywood
 2 x fly tracks, pole mount
 -

PASSIVE SPEAKERS

SYSTEM

Frequency Range (-10 dB)
Horizontal coverage angle
Vertical coverage angle
System sensitivity
Rated maximum SPL
System nominal impedance
System input power rating AES
System input power rating PEAK
Recommended amplifier
HF protection
Crossover

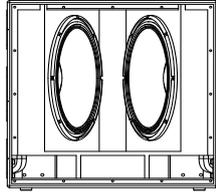
TRANSDUCERS

Low frequency
Nominal impedance
Input power rating
Sensitivity

High frequencies
Nominal impedance
Input power rating
Sensitivity

PHYSICAL SPEC.

Height
Width
Depth
Weight
Cabinet
Hardware
Handles



TTS28

p/n 13000136

30 Hz - 110 Hz

-

-

100 dB. 1W @ 1m

139 dB. 1W @ 1m

4 Ohm

2000 Watt

8000 Watt

3000 Watt

-

-

2 x 18" , 4" v.c.

8 Ohm

1200 Watt AES

99 dB. 1W @ 1m

-

-

-

-

700 mm (27.56")

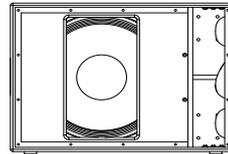
700 mm (27.56")

920 mm (36.22")

73 Kg (160.6 lbs)

baltic birch plywood
fittings ready

6 side



TTS18

p/n 13000137

35 Hz - 110 Hz

-

-

100 dB. 1W @ 1m

136 dB. 1W @ 1m

8 Ohm

1000 Watt

4000 Watt

1500 Watt

-

-

18" , 4" v.c.

8 Ohm

1200 Watt AES

99 dB. 1W @ 1m

-

-

-

-

520 mm (20.47")

700 mm (27.56")

860 mm (33.85")

48 Kg (105.6 lbs)

baltic birch plywood
fittings ready

6 side





the rules of sound

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