



TT+ HIGH DEFINITION
TOURING AND THEATRE

the rules of sound



ENG 2008

TT+ HIGH DEFINITION TOURING AND THEATRE

RCF TT+ represents another prominent chapter in the long history of RCF sound systems. Whether a speaker system is designed for live sound, large concert situations or permanent installed theatre, the paying customer now expects a level of audio fidelity and intelligibility of such a standard unsurpassed by previous generations.

This requirement has 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.

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





Innovation, Integration, Intensity

INNOVATION - Our research and engineering faculty can today 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 etc.

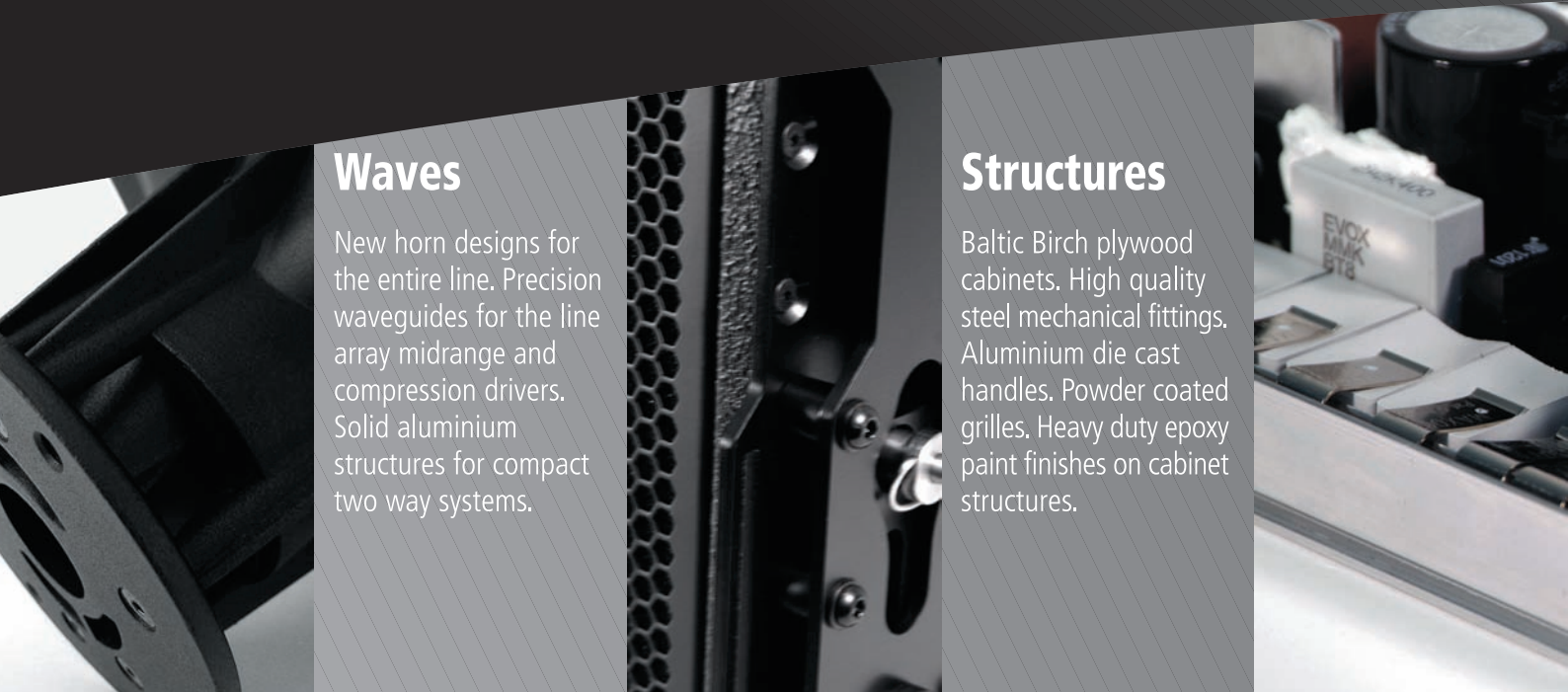
INTEGRATION - RCF is one of only a few loudspeaker manufacturers worldwide who have the ability to completely design and manufactures transducers, speaker systems and amplification and control electronics. Our 50 plus years heritage in audio combined with our state of the art research and development and manufacturing processes allows us to seamlessly integrate all the ingredients to design and build TT+.

Waves

New horn designs for the entire line. Precision waveguides for the line array 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 epoxy paint finishes on cabinet structures.



RCF Precision Transducers

For over five 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.

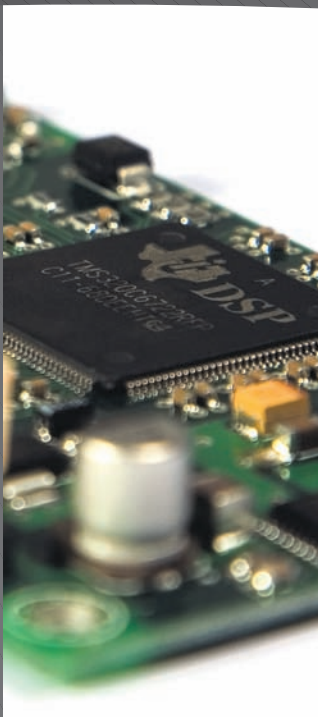
Technology and craftsmanship: at RCF each professional compression driver is precision built using the most advanced moulding and assembly technologies and our experienced dedication and attention.



INTENSITY - The design philosophy for the new 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.

Power

Powerful switching power supplies. Low distortion and natural class D amplifiers. Huge energy reserves in capacitor buses.



Control

Unique audio quality from an RCF exclusive premium analogue input board. Maximum flexibility and control from a newly designed 96Khz, 32 bit floating point DSP.



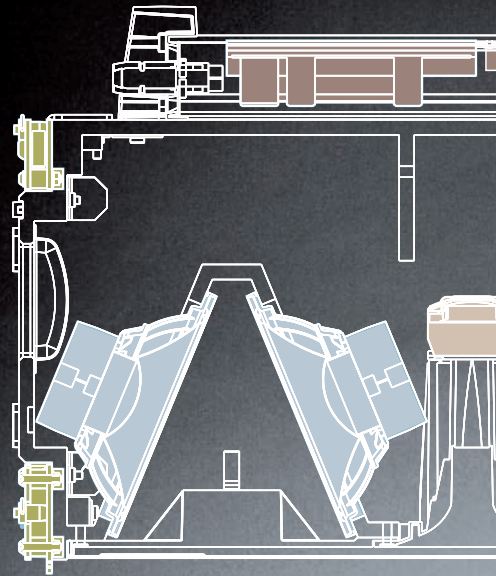
Integrity

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



LINE ARRAY MODULES

- Wide, constant directivity, coverage angle
- High power neodymium transducers
- High power class D amplifiers
- 96 KHz, 32 bit, floating point DSPs



— 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 equalization of the transducers, limiter, system presets: high pass, air absorption and cluster size corrections.

— Digital power

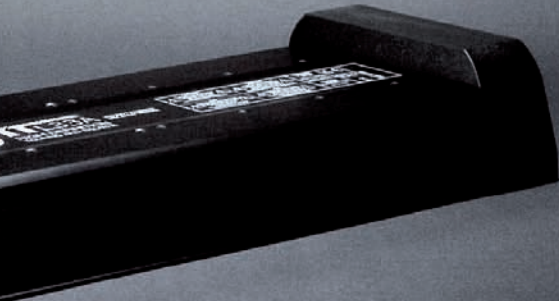
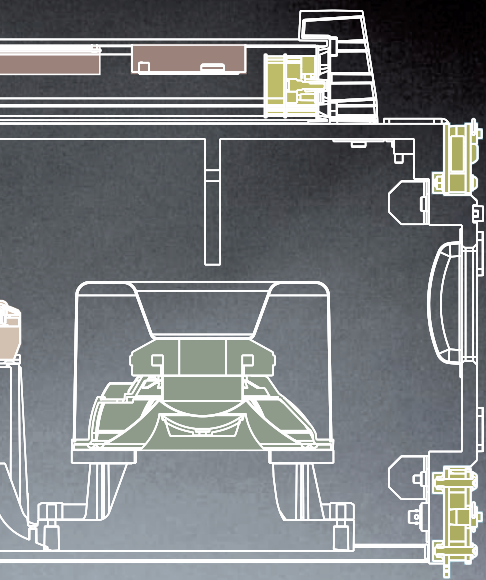


The TTL33-A is powered by a 750 watt switching power supply and 3 digital amplifiers: 500 watt mid-bass , 500 watt midrange and 250 watt compression driver. 750 watt power for the TTL31-A: 500 watt low frequency and 250 watt high frequency. The result is very high output, extremely low distortion and natural sound.



Looks like a "mini" array Sounds like a "compact"

Advanced technologies, knowledge, experience, continuous engineering effort and dedication were able to bring us to these unique results: the TTL33-A and TTL31-A. Active, ultra compact, wide dispersion, line array modules that set a new standard in touring and theatre sound reinforcement.



— Compression drivers

A new compression driver unit has been developed in RCF specifically 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. TTL33-A and TTL31-A houses 3 of them for perfect HF control.



— 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.



— High output midrange

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



— 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.



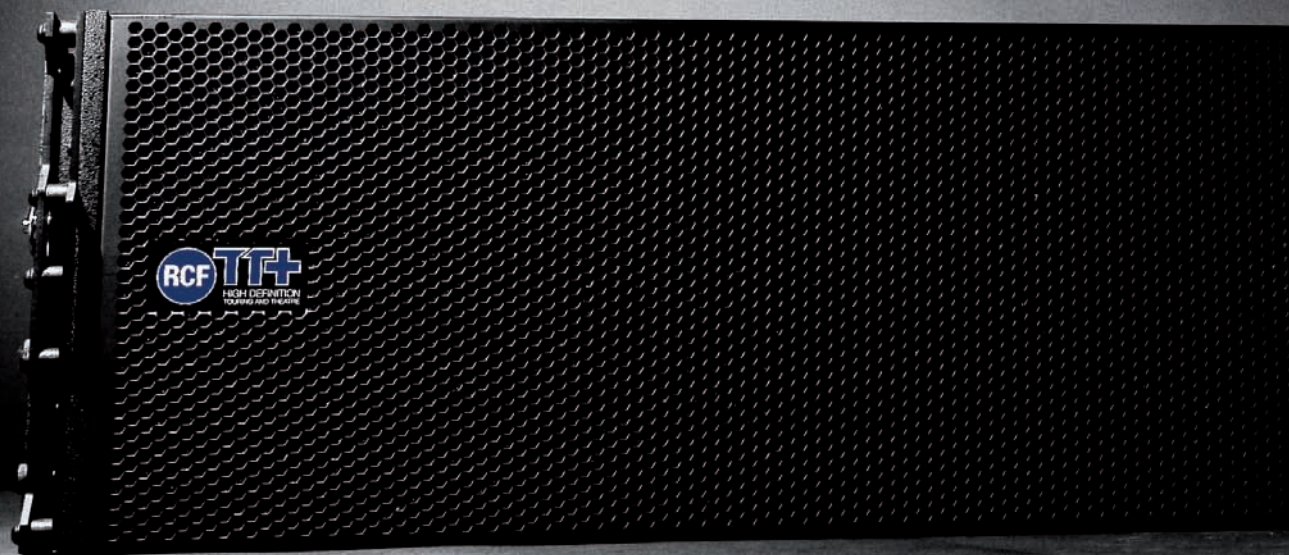
TTL33-A

3 WAY ARRAY MODULE

TTL33-A

The TTL33-A 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 the compact size makes the TTL33-A the ideal tool for outdoor sound reinforcement, live performances and events.

- 750 Watt switching amplifiers
- Wide, constant directivity, coverage angle
- 6 High power neodymium transducers
- High quality analog input board
- 96 Khz, 32 bit DSP processing
- Soft limiter and RMS protection
- Maximum output per size available on the market



TTL31-A

2 WAY ARRAY MODULE

TTL12-AS

LINE ARRAY SUBWOOFER MODULE

TTL31-A

The TTL31-A is a "mini" size 2 way line array.

The very high output and dynamics, the extreme accuracy and high frequency extension, plus the very compact size makes the TTL31-A the ideal tool for indoor applications, live performances and events.

- 750 Watt switching amplifiers
- Wide, constant directivity, coverage angle
- 4 High power neodymium transducers
- High quality analog input board
- 96 Khz, 32 bit DSP processing
- Soft limiter and RMS protection
- Very high output per size



TTL12-AS

The TTL12-AS is the ideal complement for the TTL31-A array module. The band-pass design guarantees the maximum output per size, the 4" voice coil vented design woofer offers the minimum of power compression. This model provides integrated mechanics compatible with the TTL31-A array module.

- 1000 Watt switching amplifier
- Band-pass design
- 4" voice coil, high power neodymium woofer
- High quality analog input board
- Phase, crossover, bass shape controls
- Integrated mechanics
- Very high output





TT25-SMA

PRECISION STAGE MONITOR

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 transducer experience, featuring a 3.5" voice coil woofer and a 2.5" 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-SMA

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.

- 750 Watt switching amplifiers
- 60° conical, constant directivity coverage angle
- 3.5" voice coil, neodymium woofer
- 2.5" voice coil, neodymium compression driver
- High quality analog input board
- Soft limiter and RMS protection
- Very low profile
- Very high output

TT+
HIGH DEFINITION
TOURING AND THEATRE

SMA HIGH DEFINITION
TOURING AND THEATRE
FIVE PRECISION MONITOR

TT25-A TT22-A

HIGH OUTPUT 2 WAY SPEAKERS



TT25-A

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.

- 1500 Watt switching amplifiers
- Wide, constant directivity, coverage angle
- High power neodymium transducers
- High quality analog input board
- Soft limiter and RMS protection
- Maximum output per size available on the market



TT22-A

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 makes this system the perfect solution for live sound situations to playback and monitoring.

- 750 Watt switching amplifiers
- Wide, constant directivity, coverage angle
- High power neodymium transducers
- High quality analog input board
- Soft limiter and RMS protection
- Maximum output per size available on the market



Suspension

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

High output at premium sound quality

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

High frequencies

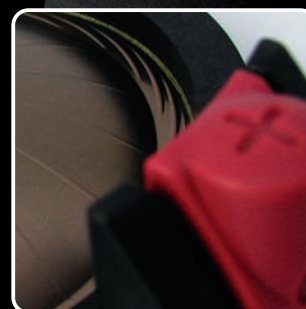
Our newly designed "thick aluminum body" horns offer the best dissipation to neodymium compression drivers. When our pure titanium compression driver are assembled, all the horn becomes the surface of dissipation for the heat generated from the voice coil. The same coverage angle at all frequencies,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

Low frequencies

3" voice coil woofers cannot handle the power, 4" voice coil woofer are too slow for two way systems... so we purposely invented 'RCF 3.5" size', high energy, mid-bass: best balance between low end capability and midrange clarity and control. All this in only 5 kilograms.

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.



TT08-A

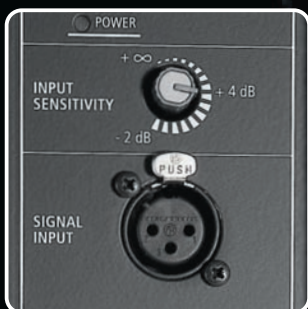
PRECISION
MONITOR

Monitor size, pa sound

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 128dB. Its performance efficiency is almost 3dB higher than many larger 10" speaker systems and indeed comparable to many 12" systems.

The TT08-A is the smallest and powerful solution to almost any sound reinforcement situation. Hi-fi fidelity acoustic design, high quality neodymium transducers, powerful amplifiers, very compact size cabinet, incredibly lightweight. Superb deep bass punch, very linear and precise frequency response. The perfect solution for live sound situations, playback and monitoring.

- 750 Watt power switching amplifiers (500W on the woofer, 250W on the compression driver)
- Wide, constant directivity, coverage angle
- High power 64 mm coil neodymium woofer
- 44 mm coil titanium compression driver
- High quality analog input board
- Soft limiter and RMS protection
- Maximum output per size available on the market



Two different angles for near field or long field monitoring. Pole mount, fly bars, side M10 suspension points. The perfect tool for broadcast monitoring, theatrical installations, front and side fills, distributed sound systems.



The TT08-A precision monitor is optimised for use with the high-output TTS12-A subwoofer.

TT S28-A

TT S18-A

TT S12-A

HIGH POWER SUBWOOFERS

TT S28-A

The TT28-A is a reference 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 40Hz operates as a conventional bass reflex cabinet, however at the slightly higher frequencies in the 80 to 100Hz area the system operates as a 'semi charged horn loaded' design which provides around 3 to 4dB more efficiency.

- 2 x high power full neodymium 18" transducers
- 2000 watt power switching amplifiers

TT S18-A

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

- High power full neodymium 18" transducer
- 1000 watt power switching amplifier

TT S12-A

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 onboard 1000 watt Class D power switching amplifier.

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



Powerful tools for powerful systems

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. 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.

Superior woofers

RCF LF18N401: incredibly linear frequency response characteristics, the highest power handling of any comparable 18-inch neodymium transducer, 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 generate the minimum amount of flux modulation, the unique dual-forced air venting system guarantee a very efficient voice coil ventilation for minimum power compression and higher power handling.



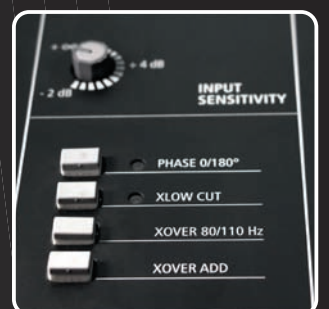
Massive power

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



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.



TT+ Passive Models

High output at premium sound quality

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 a fill/delay element in larger systems, with wide angle projection making for easy audience coverage. The TT+ range includes subwoofer models that are direct radiating, with optimally tuned, vented enclosures. TT+ subwoofers are the choice where the best sonic performance, highest reliability, and most robust physical construction are required.



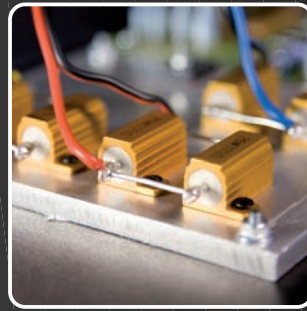
TT25

The high frequency section is 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 3.00" 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.



TT22

The high power 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.



TT08

The TT08 is 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 ply 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.



TTS28

The TTS28 is a direct radiating, high output, large-format subwoofer system proven in complementing high efficiency, full-range loudspeakers. Driver 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 drivers provide the highest output and best sonic performance possible for a given form factor.

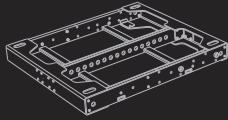
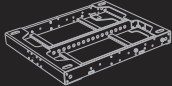
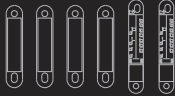
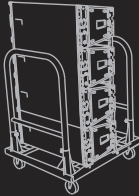

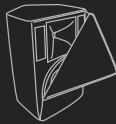










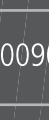




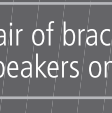
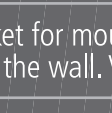
TTS18

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 watt 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.



TT+ Accessories and software

| | | | |
|---|----------|-------------------|--|
|  | 13360052 | FLY BAR TTL33 | Suspending bar for TTL33-A array system |
|  | 13360076 | FLY BAR TTL31 | Suspending bar for TTL31-A array system |
|  | 13360057 | STCK BAR TTL33 | Accessory to add to Fly bar TTL33 for stacking option on sub. Quick lock pins to be added. |
|  | 13360059 | KART TTL33 | Kart with wheels for 4 TTL33-A |
|  | 13360053 | COVER TTS18 | Protection cover for TTS18 and TTS18-A |
| | 13360054 | COVER TTS28 | Protection cover for TTS28 and TTS28-A |
|  | 13360055 | COVER TT22 | Protection cover for TT22 and TT22-A |
| | 13360056 | COVER TT25 | Protection cover for TT25 and TT25-A |
|  | 13360096 | COVER TT08 | Protection cover for TT08 and TT08-A |
|  | 13360083 | AC RAIN COVER TTL | Rubber rain cover protection for TTL33-A and TTL31-A amplifiers |
|  | 13360082 | AC TT08 H-BR | Pair of bracket for mounting TT08 and TT08-A speakers on the wall. Horizontal |
|  | 13360091 | AC TT25 V-BR | Pair of bracket for mounting TT25 and TT25A speakers on the wall. Vertical |

| | | | |
|---|----------|---------------|---|
|  | 13360090 | AC TT22 V-BR | Pair of bracket for mounting TT22 and TT22-A speakers on the wall. Vertical |
|  | 13360033 | AC NL4F 4X | Kit 4 male Speakon connectors 4 poles. |
|  | 13360030 | AC DS4X | Kit 4 hook kit for suspending fly track bar |
|  | 13360060 | AC 4PIN TTL33 | 4 Quick lock pins for TTL33-A array system |
|  | 13360077 | AC 4PIN TTL31 | 4 Quick lock pins for TTL31-A array system |
|  | 13360067 | AC PM M20 | M20 Pole mount for TT22, TT22-A or TT25, TT25-A speakers |
|  | 13360034 | AC PMA | Speaker pole mount |
|  | 13360066 | AC M20-PLATE | Threaded plate for M20 pole mount |
|  | 13360068 | AC TT PMA | Pole mount cap for TTS18, TTS18-A, TTS28 and TTS28-A subwoofer. |
|  | 13360036 | AC S140 | Aluminium speaker floor stand with folding base and telescopic rod, Tube diameter 35mm. |
|  | 13360035 | AC S260 | Steel speaker floor stand with folding base and telescopic rod, tube diameter 35mm. |

RCF Prediction Software

In order to assist with the set up procedures for the TTL33-A Line Array System, RCF has developed a complete prediction software package.

The software enables a complete two dimensional simulation of the behaviour of the TTL33-A cabinets and also suggests the correct subwoofer combinations. The system curvature angles and the sound projection data are computed with maximum sound pressure levels for the given building design originally inputted. The software will allow simulations up to a maximum of sixteen TTL33-A mid-high cabinets.

There is also a rigging menu which provides data for weight, centre of gravity and height of the array configuration. Rigging points and rigging hardware configurations are also computed.





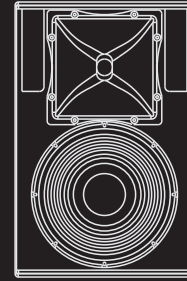
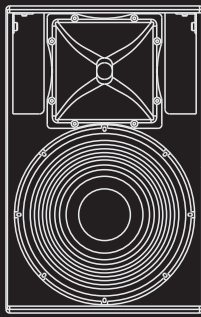
RCF System Solutions

With more than 50 years of experience RCF is one of the leading manufacturers of professional audio; one of the very few companies to use its own transducer technology, RCF has pioneered many of the innovations now recognised and used in pro audio products. RCF products are designed in very close cooperation with our customers, offering complete solutions to meet the highest demanding market needs.

The entire production process in the RCF European 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.

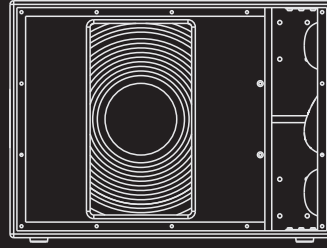
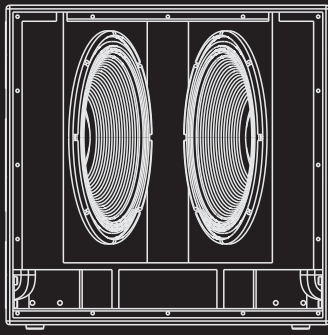
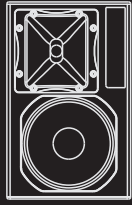


Specifications Passive Speakers



MODEL

| | TT25 | TT22 |
|--------------------------------|---|---|
| SYSTEM | 130.00.134 | 130.00.133 |
| Frequency Range (-10dB) | 50 Hz - 20 kHz | 50 Hz - 20 kHz |
| Horizontal coverage angle | 90° | 90° |
| Vertical coverage angle | 40° | 40° |
| System sensitivity | 100dB. 1W @ 1m | 98dB. 1W @ 1m |
| Rated maximum SPL | 136dB. 1W @ 1m | 131dB. 1W @ 1m |
| System Nominal Impedance | 8 Ohm | 8 Ohm |
| System Input Power Rating AES | 1000W | 800W |
| System Input Power Rating PEAK | 4000W | 3200W |
| Recommended Amplifier | 1500W | 1500W |
| HF Protection | Dynamic Mosfet | Dynamic Mosfet |
| Crossover | 1,3 kHz | 1,3 kHz |
| TRANSDUCERS | | |
| Low Frequency | | |
| Nominal Impedance | 15" (380 mm) woofer with 4" (100 mm) coil 8 Ohm | 12" (304 mm) woofer with 4" (100 mm) coil 8 Ohm |
| Input power Rating | 800W AES | 700W AES |
| Sensitivity | 99dB. 1W @ 1m | 98dB. 1W @ 1m |
| High Frequency | | |
| Nominal Impedance | 1.5" (38 mm) throat with 3" (76 mm) coil diaphragm assembly 8 Ohm | 1.5" (38 mm) throat with 3" (76 mm) coil diaphragm assembly 8 Ohm |
| Input power Rating | 100W AES | 100W AES |
| Sensitivity | 111 dB. 1W @ 1m | 111 dB. 1W @ 1m |
| PHISICAL | | |
| Height | 670 mm (26,37") | 600 mm (23,62") |
| Width | 430 mm (16,92") | 400 mm (15,74") |
| Depth | 450 mm (17,71") | 400 mm (15,74") |
| Weight | 33,2 Kg (73,19 lbs) | 28,8 Kg (63,49 lbs) |
| Cabinet | baltic birch | baltic birch |
| Hardware | 6 x fly tracks | 6 x fly tracks |
| Handles | 2 on side | 2 on side |
| Pole Mount/Cap | yes | yes |
| Colour | Black | Black |



TT08

130.00.130

65 Hz - 20 kHz
 90°
 40°
 94dB. 1W @ 1m
 125dB. 1W @ 1m
 8 Ohm
 400W
 800W
 400W
 Dynamic Mosfet
 1,8 kHz

TTS28

130.00.136

30 Hz - 110 Hz
 x
 x
 100dB. 1W @ 1m
 139dB "1m
 8 Ohm
 2000W
 8000W
 3000W
 x
 x

TTS18

130.00.137

35 Hz - 110 Hz
 x
 x
 100dB. 1W @ 1m
 136dB. 1W @ 1m
 8 Ohm
 1000W
 4000W
 1500W
 x
 x

8" (203 mm) woofer with
 2,5" (64 mm) coil
 8 Ohm
 800W AES
 99dB. 1W @ 1m

18" (450 mm) woofer with
 4" (100 mm) coil
 8 Ohm
 1200W AES
 99dB. 1W @ 1m

18" (450 mm) woofer with
 4" (100 mm) coil
 8 Ohm
 1200W AES
 99dB. 1W @ 1m

1" (25 mm) throat with
 1,7" (44 mm) coil diaphragm assembly
 8 Ohm
 400W AES
 94 dB. 1W @ 1m

x
 x
 x
 x
 x

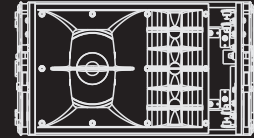
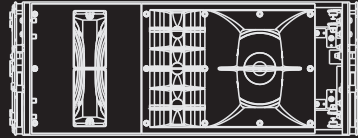
x
 x
 x
 x
 x

430 mm (16,93")
 270 mm (10,63")
 303 mm (11,93")
 10,7 Kg (23,58 lbs)
 baltic birch
 2 x fly tracks, pole mount
 x
 yes
 Black

700 mm (27,55")
 700 mm (27,55")
 920 mm (36,22")
 73 Kg (160,93 lbs)
 baltic birch
 fittings ready
 6 on side
 ready
 Black

520 mm (20,47")
 700 mm (27,55")
 860 mm (33,85")
 52 Kg (116,84 lbs)
 baltic birch
 fittings ready
 6 on side
 ready
 Black

Specifications Active Speakers



MODEL

TTL33-A

TTL31-A

ACOUSTICAL SPECIFICATIONS

| | | |
|---------------------------|--------------------------------|--------------------------------|
| Frequency Response | 60 Hz - 20 kHz | 60 Hz - 20 kHz |
| Max SPL | 134 dB | 132 dB |
| Horizontal coverage angle | 100° | 100° |
| Vertical coverage angle | 15° max, depending on config | 15° max, depending on config |
| Compression Driver | 3 x 1.0" neo, 37 mm voice coil | 3 x 1.0" neo, 37 mm voice coil |
| Midrange | 8" neo, 64 mm voice coil | x |
| Woofers | 2 x 8" neo, 64 mm voice coil | 8" neo, 64 mm voice coil |

INPUT SECTION

| | | |
|--------------------------|-------------------|-------------------|
| Input signal (Impedance) | bal/unbal | bal/unbal |
| Input connector | xlr | xlr |
| Output connector | xlr | xlr |
| Input sensitivity | - 2 dBu / + 4 dBu | - 2 dBu / + 4 dBu |

PROCESSOR SECTION

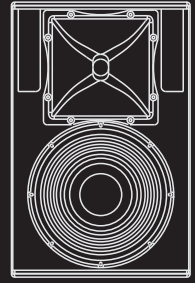
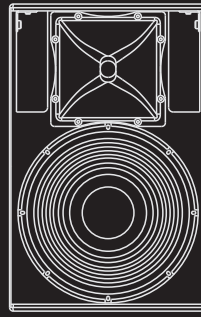
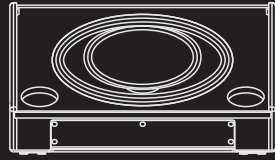
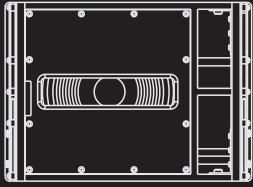
| | | |
|-----------------------|----------------------------------|-----------------------------------|
| Crossover frequencies | 400 Hz, 1800 Hz | 1600 Hz |
| Protections | thermal, hf | thermal, hf |
| Sensitivity control | yes | yes |
| Limiter | rms, fast limiter | rms, fast limiter |
| Phase switch | x | x |
| High pass | yes, 100 Hz | yes, 100 Hz |
| Controls | hf correction, cluster size, HPF | hf correction, cluster size., HPF |

AMPLIFIER

| | | |
|------------------|--------------------|--------------------|
| Power supply | Switching 750 Watt | Switching 750 Watt |
| High frequencies | D / 250 Watt | D / 250 Watt |
| Mid frequencies | D / 500 Watt | x |
| Low frequencies | D / 500 Watt | D / 500 Watt |
| Cooling | convection/forced | convection |
| Connection | powercon in/out | powercon in/out |

PHISICAL SPECIFICATIONS

| | | |
|----------------|---------------------|---------------------|
| Height | 300 mm (11,8") | 300 mm (11,8") |
| Width | 760 mm (30,0") | 538 mm (21,18") |
| Depth | 450 mm (18,2") | 450 mm (18,2") |
| Weight | 32,5 Kg (71,5 lbs) | 22.5 Kg (49,5 lbs) |
| Cabinet | baltic birch | baltic birch |
| Hardware | array side fittings | array side fittings |
| Handles | 2 on side | 2 on side |
| Pole Mount/Cap | x | x |
| Colour | Black | Black |



TTT12-AS

130.00.124
 40 Hz - 120 Hz
 131 dB
 x
 x
 x
 x
 12" neo, 100 mm voice coil

TTT25-SMA

130.00.118
 50 Hz - 20 KHz
 131 dB
 60° conical
 60° conical
 1.5" neo, 64 mm voice coil
 x
 15" neo, 87 mm voice coil

TTT25-A

130.00.090
 50 Hz - 20 KHz
 136 dB
 90°
 40°
 1.5" neo, 75 mm voice coil
 x
 15" neo, 100 mm voice coil

TTT22-A

130.00.089
 50 Hz - 20 KHz
 131 dB
 90°
 40°
 1.5" neo, 75 mm voice coil
 x
 12" neo, 87 mm voice coil

bal/unbal
 xlr
 xlr
 - 2 dBu / + 4 dBu

bal/unbal
 xlr
 xlr
 - 2 dBu / + 4 dBu

bal/unbal
 xlr
 xlr
 - 2 dBu / + 4 dBu

bal/unbal
 xlr
 xlr
 - 2 dBu / + 4 dBu

80/110 Hz
 thermal
 yes
 rms, fast limiter
 yes
 x
 80/110/add crossover. phase

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

1200 Hz
 thermal, hf
 yes
 rms, fast limiter
 x
 yes, 90 Hz
 side/floor coupling, HPF

1200 Hz
 thermal, hf
 yes
 fast limiter
 x
 yes, 90 Hz
 side/floor coupling, HPF

Switching 1000 Watt
 x
 x
 D / 1000 Watt
 convection
 powercon in/out

Switching 750 Watt
 D / 250 Watt
 x
 D / 500 Watt
 convection
 powercon in/out

Switching 1500 Watt
 D / 500 Watt
 x
 D / 1000 Watt
 convection
 powercon in/out

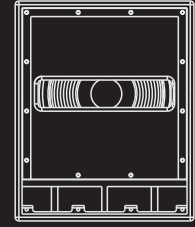
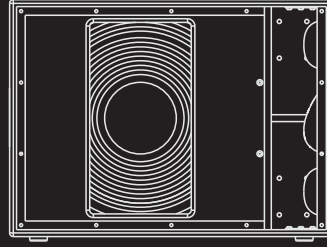
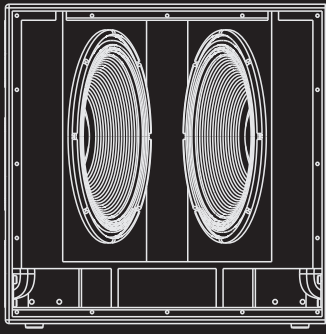
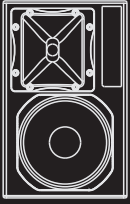
Switching 750 Watt
 D / 250 Watt
 x
 D / 500 Watt
 convection
 powercon in/out

390 mm (15,35")
 538 mm (21,18")
 530 mm (20,86")
 37 Kg (81,41lbs)
 baltic birch
 array side fittings. pole mount
 2 on side
 ready
 Black

330 mm (12,99")
 580 mm (22,83")
 432 mm (17,00")
 20 Kg (44 lbs)
 baltic birch
 x
 2 on side
 x
 Black

670 mm (26,37")
 430 mm (16,92")
 450 mm (17,71")
 33 Kg (72,75 lbs)
 baltic birch
 6 x fly tracks
 2 on side
 yes
 Black

600 mm (23,62")
 400 mm (15,74")
 400 mm (15,74")
 24,2 Kg (53,35 lbs)
 baltic birch
 6 x fly tracks
 2 on side
 yes
 Black



TT08-A

130.00.116
 65 Hz - 20 KHz
 128 dB
 90°
 60°
 1.0" neo, 44 mm voice coil
 x
 8" neo, 64 mm voice coil

bal/unbal
 xlr
 xlr
 - 2 dBu / + 4 dBu

1700 Hz
 thermal, hf
 yes
 rms, fast limiter
 x
 x
 side/floor coupling

Switching 750 Watt
 D / 250 Watt
 -
 D / 500 Watt
 convection
 powercon in/out

430 mm (16,93")
 270 mm (10,63")
 303 mm (11,93")
 11,4 Kg (25,13 lbs)
 baltic birch
 2 x fly tracks, pole mount
 x
 yes
 Black

TTS28-A

130.00.092
 30 Hz - 110 Hz
 139 dB
 x
 x
 x
 x
 2 x 18" neo, 100 mm voice coil

bal/unbal
 stereo xlr
 stereo xlr
 - 2 dBu / + 4 dBu

80 Hz / 110 Hz
 thermal
 yes
 fast limiter
 yes
 x
 80/110/add crossover, phase

Switching 2000 Watt
 -
 -
 D / 2000 Watt
 convection
 powercon in/out

700 mm (27,56")
 700 mm (27,56")
 920 mm (36,22")
 73 Kg (160,6 lbs)
 baltic birch
 fittings ready
 6 on side
 ready
 Black

TTS18-A

130.00.093
 35 Hz - 120 Hz
 136 dB
 x
 x
 x
 x
 18" neo, 100 mm voice coil

bal/unbal
 stereo xlr
 stereo xlr
 - 2 dBu / + 4 dBu

80 Hz / 110 Hz
 thermal
 yes
 fast limiter
 yes
 x
 80/110/add crossover, phase

Switching 1000 Watt
 -
 -
 D / 1000 Watt
 convection
 powercon in/out

520 mm (20,47")
 700 mm (27,56")
 860 mm (33,852")
 48 Kg (105,6 lbs)
 baltic birch
 fittings ready
 6 on side
 ready
 Black

TTS12-A

130.00.117
 45 Hz - 120 KHz
 131 dB
 x
 x
 x
 x
 12" neo, 100 mm voice coil

bal/unbal
 stereo xlr
 stereo xlr
 - 2 dBu / + 4 dBu

110 Hz
 thermal
 yes
 fast limiter
 yes
 x
 phase

Switching 1000 Watt
 -
 -
 D / 1000 Watt
 convection
 powercon in/out

480 mm (18,89")
 390 mm (15,35")
 530 mm (20,86")
 28 Kg (61,73 lbs)
 baltic birch
 pole mount
 2 on side
 yes
 Black



the rules of sound

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