

Subwoofers

Very low frequencies subwoofer

Two Neodymium 15" with 4" ventilated voice coil.
Dual Interactive chamber with K-Horn

Features

High power & precise sound reproduction
Efficiency & high output level
Low thermal compression & distortion
Handling & transportation ergonomics

Applications

Low & mid-low sound reinforcement
High power & high precision
Versatile application for FOH/Monitor

Specifications

45 Hz - 300 Hz
2300W AES
SPL @ 1W / 1m 104 dB
SPL Max @ 1m 143 dB
4 Ohm
23.6" x 37.8" x 23.6" (600 x 960 x 600 mm)

Single channel amplification
Processor mandatory

The TB215S works as part of medium power to very high power sound systems. It is equipped with two new generation convection cooled "Neodymium" 15" woofers, mounted in a dual interactive K-Horn chamber. This load, exclusive to APG, makes it possible to limit the enclosure volumes of the loudspeakers. K-Horn technology makes it possible to create an active horn, allowing a gain of 4dB on the selected bandwidth.

The dual chamber provides excellent control of transducer displacement increasing their mechanical reliability. The TB215S is characterized by a very high combination of {efficiency X bandwidth} conferring acoustic performances equivalent to that of a great number of subwoofers featuring 18" cone drivers. The size and the ergonomics of the TB215S were considered in great detail to offer the greatest possible ease and comfort for handling, transport and storage. The 7 integrated handles are laid out and orientated so as to allow all the possibilities of gripping and handling. It can be fitted with 4 optional casters allowing "convoy" style haulage, or "wheelbarrow" handling.

The TB215S must be used with an APG dynamic processor from LP series, Matrix series or a digital processor (DMS26 or DMS48).

It is ideal for low frequency reinforcement with Isoline series, Beam series and the DX12, DX15, SMX15, SC25 and MX4N loudspeakers.

TB215S



Subwoofer TB215S

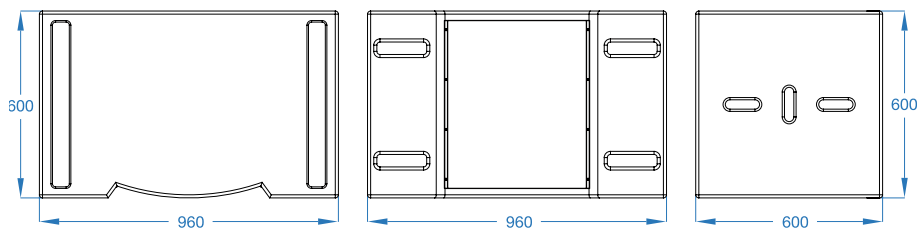
The TB215S is a high performance subwoofer combining acoustic innovation and new design developed according to the requirement criteria of operators. It is characterized by an exceptional acoustic pressure capacity and a sound reproduction with impressive impact. The manufacturing processes and the sophisticated ergonomics of the enclosure in conjunction with the use of "Neodymium" woofers, confer 30% less weight compared with competitor products. The result is that all handling and movement, except direct lifting, can be done by one person. The choice of 15" woofers provides a real acoustic versatility between FOH application for which crossover is between 60Hz & 80 Hz and the stage monitor application for which crossover can be set up to 160 Hz.

This flexibility is also applicable with main systems based on 15" or 12" drivers. The TB215S subwoofer is ideally intended for low frequency reinforcement in high power long throw configuration or for indoor or outdoor applications with medium size power systems. It offers a very high musical quality, thanks to its frequency response, and a very low level of distortion even at extremely high power. The TB215S must be used with dynamic APG processors and the speakers for which it is recommended.

APG

TB215S

Technical Specifications



Features

TB215S

Frequency range without processor (± 3 dB)	45 Hz to 300 Hz
Frequency range with processor (± 3 dB)	40 Hz to 80 Hz (1)
Sensitivity @ 1W / 1m	104 dB SPL
Maximum continuous level@ 1m	137 dB SPL
Peak level @ 1m	143 dB SPL
Nominal impedance	4 Ohm

Components

Transducers	2 x 15" neodymium convection cooling
Coil Diameter	4" (100 mm)
Type of load	Reversed double K-Horn

Power

Recommended Amplifier (2)	2300 to 4600 W
Peak	6900 W
AES (2)	2300 W

Construction and characteristics

Cabinet	15 mm Finnish Birch plywood
Finish	Black impact resistant aquarethane coating
Protection Grill	Acoustically transparent perforated steel, 2 mm thick
Front panel	Black, 10 mm acoustic foam
Connectors	2 x SPEAKON NL4MP (3)
Handles	6 built-in metal bar & 1 side handle
Dimensions (H, W, D)	23.6" x 37.8" x 23.6" (600 x 960 x 600 mm)
Net unit weight	121 lb (55 kg)
Gross weight, packed	130 lb (59 kg)

Options and Accessories

KR100 (4)	100 mm rotating casters (x 4)
KR125 (4)	125 mm rotating casters (x 4)
SCTB215S	Soft cover for 1 x TB215S
FAERO4 (5)	4 Aeroquip™ flying rings
INOX03 (6)	Stainless steel screws and waterproof treatment cone driver
TROPIC04 (7)	Full treatment : wooden cabinet, screws and HP
REPEINT07 (8)	Painting option according to RAL or PENTONE reference

Signal Processing

The dedicated APG processors we offer for our range of systems, allow to combine different types of subwoofers with top speaker. These processors provide with active crossover, EQ, speakers protection, standard filtering functions for a stereo system including subwoofers.

(1) Depending on the system used, the frequency response is generally limited to 80 Hz and sometimes limited to 60 Hz or 100 Hz by the APG processors. However the TB215S can be used up to 300 Hz.

(2) In order to take full benefit of the dynamic performance, sonic quality and reliability of the speakers, the recommended amplification must at least correspond to the AES rating. Lesser amplification is acceptable for applications requiring less power (near-field, distributed systems,...), whilst not being less than half the AES rating. The AES power handling corresponds to a 2 hour test using weighted pink noise (peak factor of 6dB) through a frequency range of one decade.

(3) The 4 pins Speakon connectors are wired 1+, 1-, 1-, 1-.

(4) The KR100 & KR125 options are respectively 100mm and 125 mm rotating casters with brakes.

(5) AEROQUIP™ system to allow speaker installation with safety slings.

(6) Stainless steel screws and waterproofing of speaker cones.

(7) Tropicalisation includes fiber-glass reinforced polyester coating of the cabinet, stainless steel screws and waterproofing of speaker cones.

(8) Paint preparation for the requested color.

5 YEARS WARRANTY
*A five years warranty covers passive filters, transducers and compression drivers. The warranty does not cover cosmetic damages and damages due to misuse, improper installation, or damages caused by alterations.

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