



DOCUMENTAZIONE

Moonwalk Service

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KEY FEATURES

- ▶ Easily arrayable cabinet
- ▶ Enclosure in 18 mm birch plywood
- ▶ Custom 12" woofer with 3" coil
- ▶ B & C titanium compression driver
- ▶ 4 M10 anchoring points
- ▶ Dual-mode passive filter
- ▶ Full Range or Bi-amp operation mode

APPLICATION

- ▶ Fixed installations
- ▶ Theatres
- ▶ Auditoriums
- ▶ Medium-small club venues

GENERAL DESCRIPTION

2-way bass-reflex system with 12" woofer and 1,5" high frequency unit.

Enclosure in 18mm birch plywood with internal reinforcement and scratch-resistant finish designed to resist the rigours of touring applications.

Trapezoidal profile to reduce internal reflection of soundwaves and facilitate the construction of speaker arrays.

Custom 12" woofer with 3" coil and aluminium windings for clean, punchy bass response. High efficiency and power handling thanks to the use of a heavy duty magnet structure and an efficient voice coil cooling system.

B&C titanium compression driver with 2,5" voice coil and 1,5" exit offers optimum extension at high frequencies and very low distortion right down to the mid-range frequencies.

This is the ideal unit for requirements of high sound pressure and excellent extension at low frequencies. Combines extended and smooth frequency response with a mid-range that is powerful and never oppressive, ensuring excellent speech intelligibility. Ideal for fixed installations, theatres, auditoriums, medium small club venues and general touring applications.

Dual-mode passive filter with facility for full-range or bi-amp operation with external processing of the signal.

4M10 anchoring points for suspended installation.

The connector panel's have dual Neutrik NL4 Speakon for reliable input and loop through connections.

TECHNICAL SPECIFICATIONS

ELECTRICAL PERFORMANCE

Configuration	2 WAY	BI-AMP
Recommended amplifier (1)	600W rms	600W LF / 160W HF
Long term power AES (2)	300 W	300W LF / 80W HF
Short term power IEC 268-5	1200 W	1200W LF / 320W HF
Nominal impedance	8 ohm	8 ohm LF / 8 ohm HF
Frequency response @ -6dB (3)	55 Hz - 18 kHz	45 Hz - 2.2 kHz LF 1.2kHz - 18kHz HF
Sensitivity @1W, 1m (4)	98,5 dB	98,5 dB LF / 108dB HF
Max SPL (5)	129 dB	129 dB LF / 133 dB HF
Dispersion @-6 dB (HxV)	90° x 60°	90° x 60°
Dispersion on listening plane @-6dB (H x V)	70° x 50°	70° x 50°
Crossover frequency	2 kHz	2 kHz - 24 dB oct.
Recommended HP filter	40 Hz - 24 dB oct.	40 Hz - 24 dB oct.

Additional data: automatic resetable driver protection in full-range filter mode

PHYSICAL

Low frequency woofer	1 x 12" - coil Ø 3"
High frequency driver	1 x 1,4" + coil Ø 2,56"
Input connectors	2 x speakon NL4 paralleled
Net dimensions (WxHxD)	416 x 666 x 412 mm
Net weight	33 kg
Shipping dimensions (WxHxD)	540 x 700 x 510 mm
Shipping weight	36 kg
Enclosure materials	18 mm birch plywood
Finish	wear-resistant textured black paint
Mounting hardware	4 x M10 anchoring points
Grille	black powder coated perforated steel

(1) amplifier power on nominal loudspeaker impedance

(2) 2 hours, pink noise with crest factor 2, applied RMS voltage corresponding to the power on the minimum of the modulus of the impedance of the speaker in full range mode, or of the driver in bi-amp mode.

(3) full-space on axis

(4) average SPL measured over the freq. response range

(5) calculated based on short term power capacity and measured 1W, 1m full space sensitivity



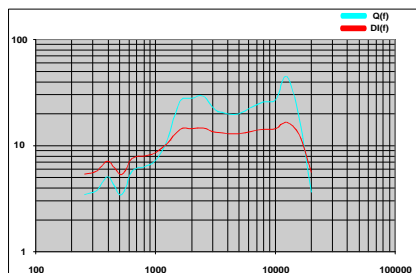


Professional Audio Equipment

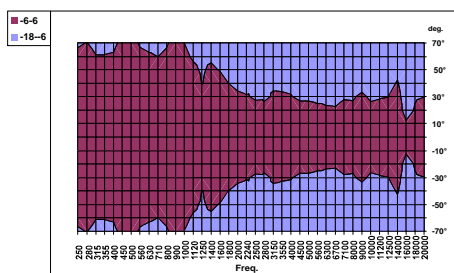
PSR 212

1 x 12" - two way
full range or bi-amped mode
speaker system

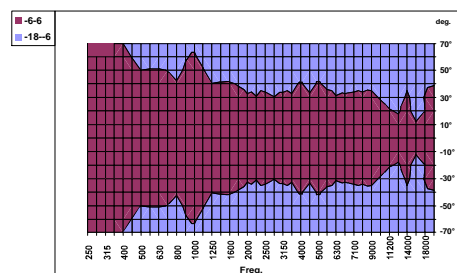
Q FACTOR & DIRECTIVITY INDEX (DI)



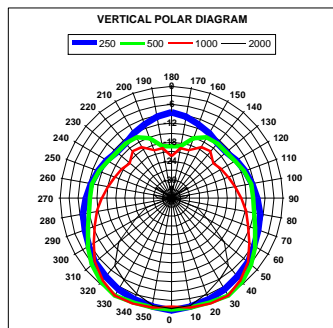
VERTICAL BEAMWIDTH (-6dB)



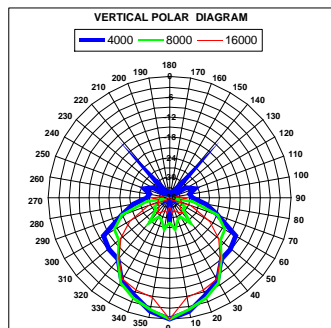
HORIZONTAL BEAMWIDTH (-6dB)



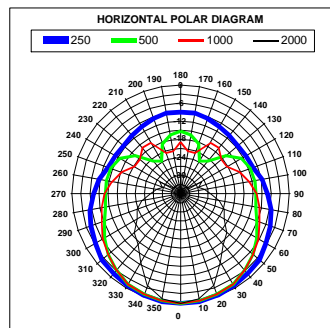
VERTICAL POLAR DIAGRAM



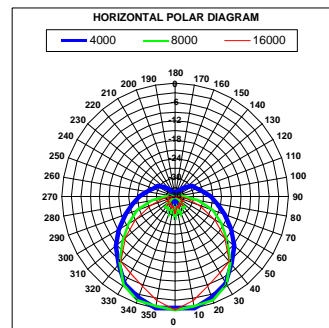
VERTICAL POLAR DIAGRAM



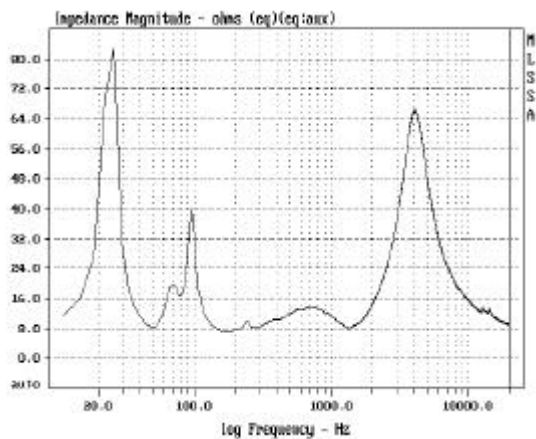
HORIZONTAL POLAR DIAGRAM



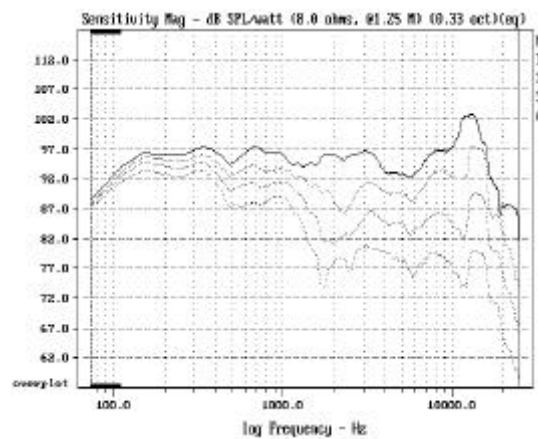
HORIZONTAL POLAR DIAGRAM



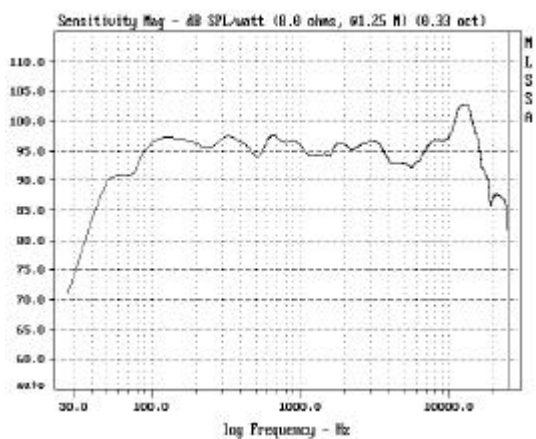
INPUT IMPEDANCE



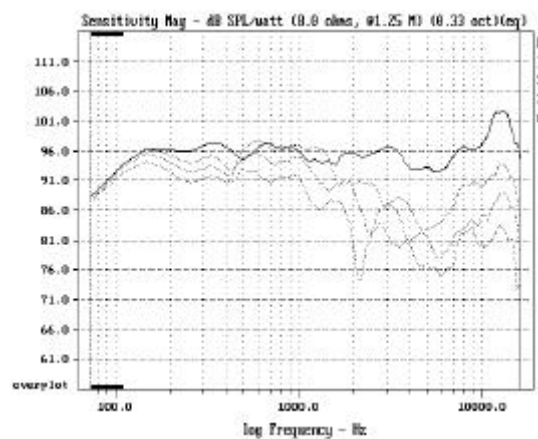
HORIZONTAL OFF-AXIS RESPONSE (0°/ 30°/ 45°/ 60°)



FULL SPACE FREQUENCY RESPONSE



VERTICAL OFF-AXIS RESPONSE (0°/ 30°/ 45°/ 60°)



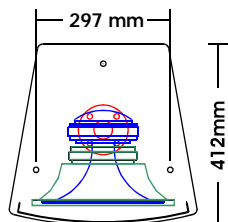


Professional Audio Equipment

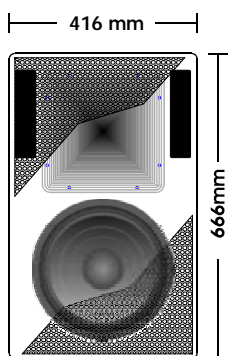
PSR 212

1 x 12" - two way
full range or bi-amped mode
speaker system

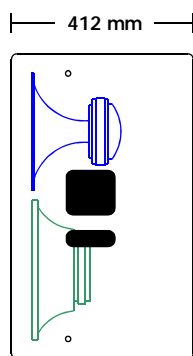
DIMENSION DRAWINGS



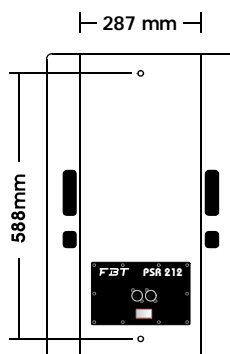
TOP VIEW



FRONT VIEW



SIDE VIEW



BACK VIEW



APPROVED PRODUCT

ACCESSORIES



BOX 30BK
Adjustable aluminium floor stand,
damped safety mechanism.
Max weight 70 kg

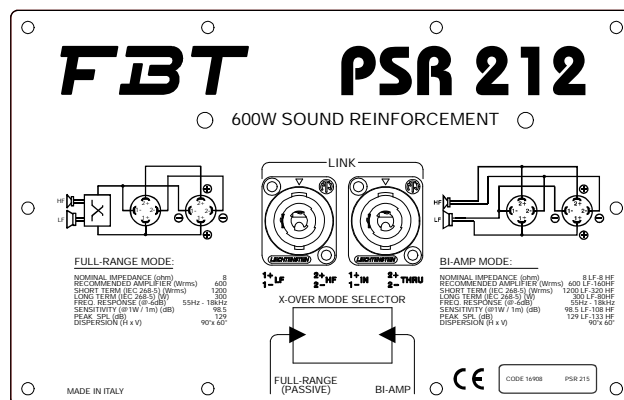


SS 2
Standard speaker floor stand.
Max weight 100 kg

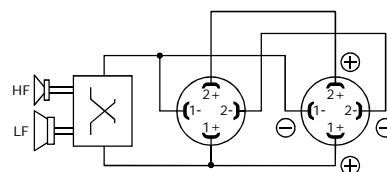


BOX 50
Adjustable,
for sub-satellite speaker connection,
with safety locking device, Ø35 mm

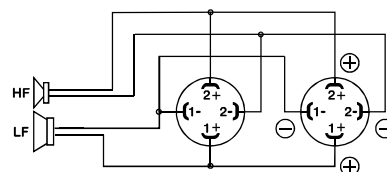
INPUT PANEL & BLOCK DIAGRAM



FULL-RANGE (PASSIVE)



BI-AMPLIFIED



ARCHITECTURAL & ENGINEERING SPECS.

The 2-way full range loudspeaker system shall incorporate one 12" LF transducers and a 2,5" (65mm) voice coil HF compression driver.

The HF driver shall be loaded on a constant directivity horn with a nominal coverage pattern of 90° (H) x 60° (V).

An internal dual-mode passive filter shall provide acoustical crossover and system equalization.

Input panel shall easily change from passive to biamp operation via internal connector.

System frequency response shall vary no more than +/- 6dB from 55Hz to 18kHz measured on axis.

The loudspeaker shall produce a sound pressure level (SPL) of 129 dB on axis at 1 meter.

It shall handle 300 watts of amplifier power long term (AES standard) and shall have a nominal impedance of 8 ohm.

The loudspeaker enclosure shall be trapezoidal in shape. It shall be constructed of 18mm birch plywood with internal reinforcement.

Input connectors shall be two NL4 speakon. A total of 4 M10 anchoring points for suspended installation shall be provided (three on top and one on bottom side).

The front of loudspeaker shall be cloth coverable with a powder-coated perforated grille.

The 2-way full-range loudspeaker shall be the FBT model PSR 212.

FBT Elettronica S.p.A.

Zona ind.le Squartabue

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