



QSA 112

APPLICATIONS


- Permanent installations in Theatres, Concert Halls, Clubs, Places of Worship, Conference Rooms, Indoor Sports, Arenas & Stadiums
- Sound reinforcement for live events: Touring, Bands, Orchestras, Conference both indoors and out, where uniform sound pressure level is required over the entire listening area

FEATURES

- 18mm Baltic birch plywood enclosure with textured scratch resistant paint finish
- 12" custom neodymium woofer with 3" voice coil
- 3 x 1" exit neodymium magnet HF driver with 1.7" voice coil
- 100°H x 15°V dispersion
- Input panel with 2 x Neutrik speakon NL4
- Bi-amp or Full-range passive mode selection
- 600W for LF / 300W for HF in bi-amp mode
- SPL capability: 128.5dB (LF) / 138dB (HF)
- Integrated handles and mechanical hardware for suspension
- Completely Manufactured in Italy



Designed, Engineered
and Manufactured in ITALY



PRODUCT DESCRIPTION

The QUBE QSA112 two-way passive line array system shall incorporate a 12" custom woofer with 3" voice coils and 3 x 1" exit neodymium magnet HF drivers with 1.7" voice coil. The QUBE QSA112 shall have a bi-amp or full-range passive mode selection selectable from the rear panel. The QUBE QSA112 shall meet the following performance criteria: frequency response of 70Hz to 20kHz, frequency sensitivity of 98dB in full-range mode and 98dB LF/110dB HF in bi-amp mode, peak low frequency output of 128.5dB SPL in full range mode and 128.5dB LF / 138dB HF in biamp mode, recommended power amplifier 600W RMS in full-range mode or 600W RMS + 300W RMS in bi-amp mode. The high frequency shelving EQ switch (-3, 0, +3dB) with settings provides effective amplitude shaping to evenly apply the SPL of the critical midrange and high frequencies uniformly. The front shall be protected by a perforated formed aluminum grill and a rugged touring grade scratch resistant black paint finish protects the cabinet exterior. Input connectors shall be parallel wired Neutrik NL4 speakon. The system shall be flyable thanks to the user friendly built-in hardware manufactured with the highest safety standard.

ELECTRICAL PERFORMANCE

System Type:		2-way
Recommended Amplifier	(bi-amp)	600W RMS (600 LF/300 MH)
Long Term Power (AES)	(bi-amp)	300W (300 LF/150 HF)
Short Term Power (IEC 268-5)	(bi-amp)	1200W (1200 LF/700 HF)
Nominal Impedance	(bi-amp)	8 ohm (8 ohm LF/8 ohm HF)
Frequency Response @ -6dB		70Hz - 20kHz
Sensitivity @ 1W, 1m	(bi-amp)	98dB (98dB LF/110dB HF)
Maximum SPL	(bi-amp)	128.5dB (128.5dB LF/138dB HF)
Dispersion		100°H x 15°V
Crossover Frequency		1.2 kHz
Recommended HP filter		60Hz-24dB oct.

PHYSICAL

Low Frequency Woofer	12" / 3" Coil
High Frequency Driver	3 x 1" / 1.7" Coil
Input Connectors	2 x Speakon NL4 in & thru
Net Dimensions (WxHxD)	23.8" x 15.4" x 18"
Net Weight	66.5 lbs
Enclosure Material	0.7" birch plywood

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

(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

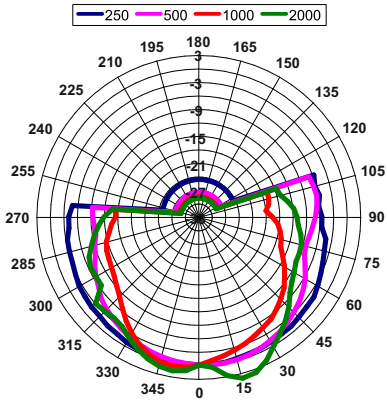
(5) calculated based on short term power capacity and measured 1W, 1m full space sensitivity



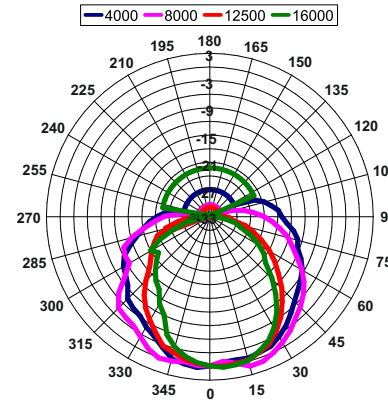


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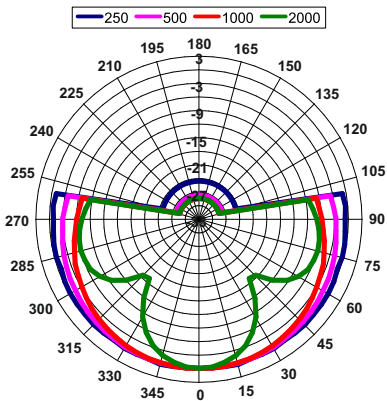
HORIZONTAL POLAR DIAGRAM



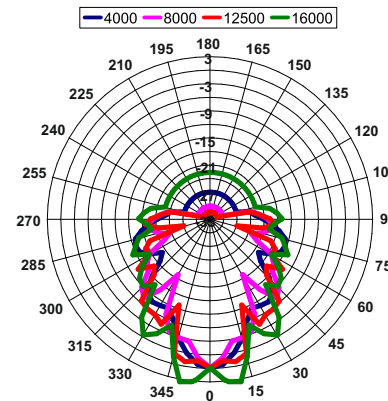
HORIZONTAL POLAR DIAGRAM



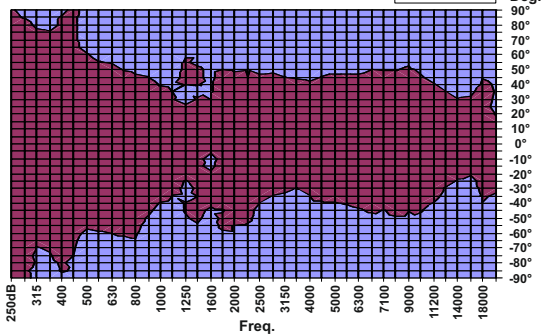
VERTICAL POLAR DIAGRAM



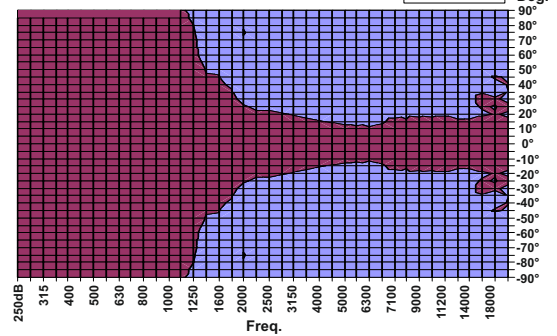
VERTICAL POLAR DIAGRAM



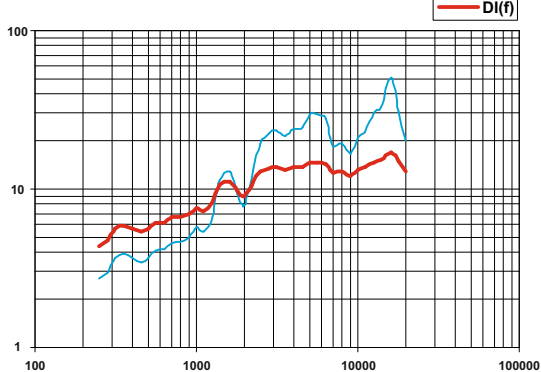
HORIZONTAL BEAMWIDTH



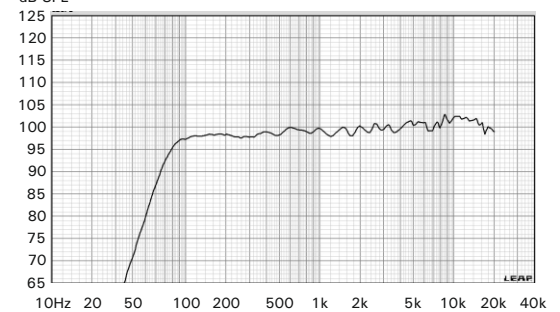
VERTICAL BEAMWIDTH



Q FACTOR & DIRECTIVITY INDEX



FULL SPACE FREQUENCY RESPONSE





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