

DATA SHEET

QT® ACTIVE EMITTER

SOUND MASKING LOUDSPEAKER



Qt® Active Emitters are wide dispersion (nearly 180 degrees) direct field loudspeakers with 1.25" (3.17 cm) drivers capable of simultaneous reproduction of both sound masking and clear audio sources such as paging signals. Patented direct-field technology ensures both uniform, comfortable sound masking as well as clear, articulate paging in a loudspeaker that's virtually invisible once deployed in finished or open structure ceilings. The Qt Active Emitter features onboard active electronics to power the loudspeaker and a ported enclosure design allowing lower frequency extension to the 125 Hz octave band. Power is delivered via an external power supply and power injectors, both available as accessories. Active Emitters deliver four uncorrelated audio channels, automatically eliminating phasing. Active Emitters are plenum-rated, ETL listed, and comply with UL 2043. Each Active Emitter comes standard with a slip-ring mount for acoustical tile mounting. These features, along with plug and play installation and easy configuration capability, make QtPro systems the most intelligently engineered and most effective sound masking systems on the market today.

FEATURES

- Wide dispersion direct field speakers with 1.25" (32 mm) drivers
- Small driver size results in nearly 180° dispersion of direct field sound masking
- Reduces acoustical interference by using four uncorrelated channels
- DIP switches attenuate the volume level up to 4.5 dB in 1.5 dB decrements for easy micro-zoning
- Plug and play installation and easy configuration
- Comes standard with slip ring for acoustical tile mounting
- CE marked, ETL listed, and RoHS compliant
- Evaluated to the requirements of UL 2043 and is suitable for use in air handling spaces
- Covered by Biamp Systems' five-year warranty

ARCHITECTS & ENGINEERS SPECIFICATION

The emitter shall consist of a single 1.25" (32 mm), 4 ohm, full range transducer installed in a vented enclosure. The enclosure shall be manufactured from material meeting UL Standard 2043 requirements for heat and smoke release in accordance with the provisions of the following codes: National Electric Code, NFPA 70; International Mechanical Code, NFPA 5000; Standard for the Installation of Air Conditioning and Ventilating Systems, and NFPA 90A. The emitter shall be provided with internal logic to automatically sequence 4 channels of mutually incoherent masking sound generators when connected with standard category cables. Input and output receptacles shall be standard RJ-45 quick connect network type with positive locking. A twist-and-lock mounting ring shall be provided for quick and secure mounting in ceiling materials. The enclosure shall provide a secondary attachment for a security cable where required by local authorities. Warranty shall be 5 years. The emitter shall be a Qt® Active Emitter.

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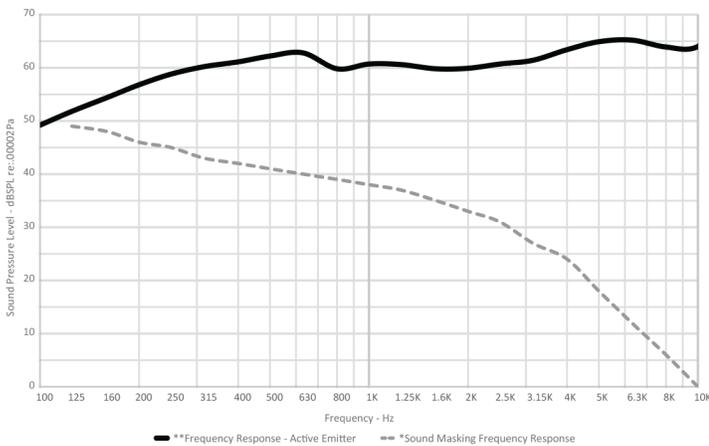
Qt ACTIVE EMITTER SPECIFICATIONS

Loudspeaker Type:	Active with integrated amplifier	Maximum Power Consumption:	2 W
Frequency Response		Driver Diameter:	1.25" (32mm)
Sound Masking¹:	125Hz to 10kHz	Enclosure:	Front Vented
Music/Paging (-10dB)²:	115Hz to 12kHz	Color:	Black or White
SPL¹		Product Dimensions	
Minimum Masking SPL (@ 1m):	30dBA	Overall Diameter:	3.25 inches (83mm)
Maximum Masking SPL (@ 1m):	60dBA	Depth:	3.5 inches (89mm)
Maximum Music/Paging SPL (@ 1m):	74dBA	Weight:	6.5 oz. (184g)
Nominal Impedance:	40 kΩ	Included Accessories:	Acoustic Ceiling Tile Mounting Ring UTP Cable (16ft/25ft/30ft)
Nominal Dispersion:	170° conical / half space	Compliance:	ETL listed (USA and Canada) Evaluated to the requirements of UL 2043 and is suitable for use in air handling spaces
Channel Selection:	4 Auto-Sequencing and Repeating Channels		
Selectable Attenuation:	0 dB, -1.5 dB, -3 dB, -4.5 dB		
I/O Connectors:	2 RJ-45 connectors		
Cabling:	Category UTP Cabling (8 conductor)		

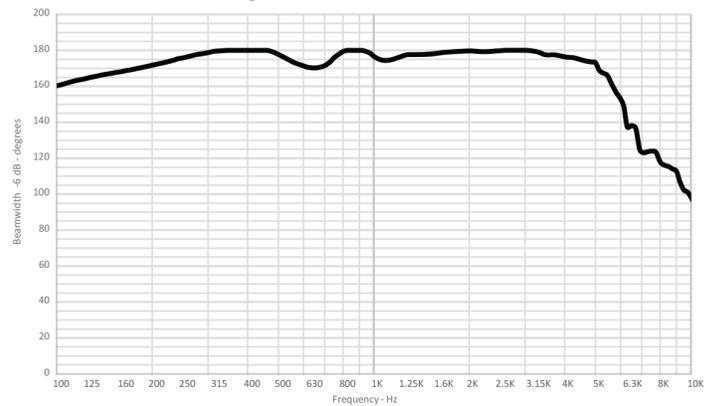
¹ Specifications based on emitter array using published layout practices in conjunction with Qt Control Processor.

² Specifications based on laboratory measurements by NWA Labs, not using Qt Control Processor..

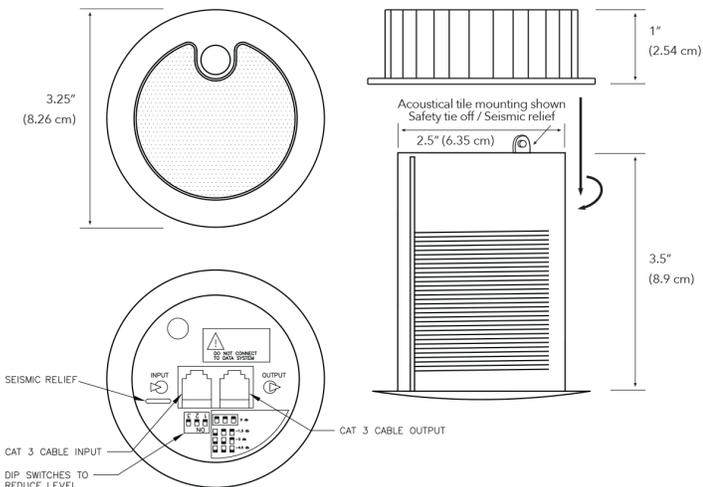
FREQUENCY RESPONSE (dB SPL)



BEAMWIDTH (Degrees)



DIMENSIONS



REQUIRED ACCESSORIES

Description	SKU
Power Supply	PS-AE-3
Power Injector	PI-AE

OPTIONAL ACCESSORIES

Description	SKU
Drywall Mount	DM
Beam Bracket	AE-BB-W, AE-BB-B
Universal Bracket	AE-UB-W, AE-UB-B