cambridge
SOUND MANAGEMENT

PRODUCT DESCRIPTION

The Qt® Active Emitter is a single-source Emitter (loudspeaker) capable of both sound masking and simultaneous reproduction of clear audio sources such as paging signals. The Qt Active Emitter provides higher SPL and a broader frequency range than previous direct field Emitter offerings using a 1.25"diameter driver. 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, a ported enclosure design allowing lower frequency extension, rear DIP switches to reduce volume by 4.5 dB in 1.5 dB increments, and a sleek metal mesh grille. Power is delivered via an external power supply and power injectors, both available as accessories. It also features an extended sound masking spectrum down to 125 Hz octave band. The Active Emitter uses the same control modules and cabling infrastructure as other QtPro systems to deliver the masking signal, ensuring QtPro remains the easiest sound masking system to install and calibrate, regardless of whether the Active Emitter or original Emitter is used. Users can even use both the Qt Active Emitter and the original Qt Emitter on the same control processor simultaneously, provided they are on separate zones.

FEATURES

- A powered, ported emitter capable of delivering uniform, comfortable sound masking and clear, quality paging
- Delivers quality masking and audio in a small speaker that's virtually invisible once deployed in finished or open structure ceilings
- Provides four uncorrelated channels of sound masking in conjunction with Qt control modules
- Plenum-rated, UL-listed, and complies with UL 2043
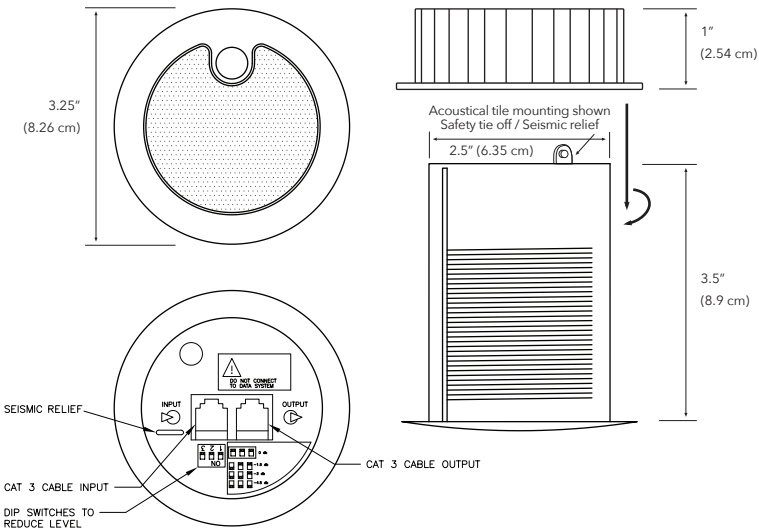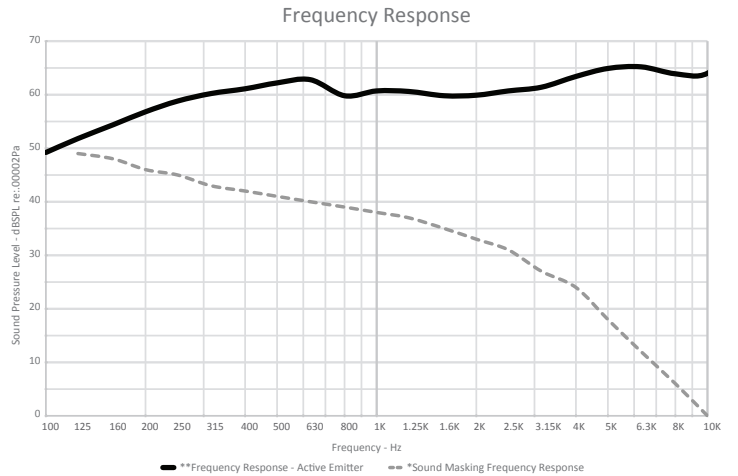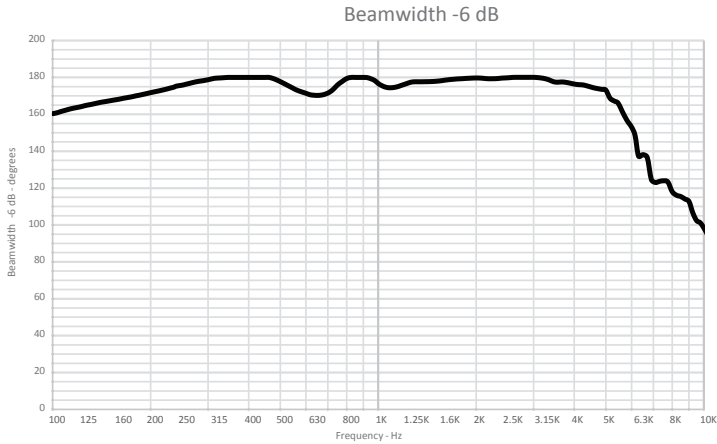
TECHNICAL SPECIFICATIONS

*Sound Masking Frequency Response:	125 Hz - 10,000 Hz
**Music / Paging Frequency Response:	115 Hz - 12,000 Hz (-10 dB)
*Masking Min - Max SPL:	30 dBA to 60 dBA @ 1 meter
*Music / Paging Max SPL:	74 dBA @ 1 meter
Nominal Impedance:	40,000 Ω
Nominal Dispersion:	170 degrees conical / half space
Connections:	Input / Output - RJ45 Modular Jack
Channel Selection:	Four Channel Auto Sequencing and Repeating
Selectable Attenuation:	0 dB, -1.5 dB, -3 dB, -4.5 dB
Cabling:	Category UTP Cabling (8 conductor)
Included Accessories:	Acoustic Ceiling Tile Mounting Ring
Loudspeaker Type:	Active w/ Integral Amplifier
Maximum Power Consumption:	2 Watts
Operating Voltage:	36 VDC
Driver Diameter:	1.25" (3.2 cm)
Enclosure:	Front Vented
Color:	White
Height:	3.5" (8.9cm)
Diameter:	3.25" (8.3cm)
Weight:	6.5 oz. (184 g)
Certifications:	UL 2043
SKU:	E-P-W-16-4 (4 Pack of White Emitters with 4 x 16ft Cables)

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

**Specifications based on laboratory measurements by NWAA Labs, not using Qt Control Processor.*

ARCHITECTURAL SPECIFICATIONS

The emitter shall consist of a single 1.25" (3.17 cm), 4 ohm, full range transducer installed in a vented enclosure. The enclosure shall be made to meet 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 rated cables. Input and output receptacles shall be standard RJ45 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.

Beamwidth -6 dB

Frequency Response

Frequency Response - Active Emitter ---- *Sound Masking Frequency Response

REQUIRED ACCESSORIES

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

OPTIONAL ACCESSORIES

Drywall Mount	SKU# DM
Beam Bracket	SKU# BB-W, BB-B
Drywall Conduit Mount	SKU# CM

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

** Specifications based on laboratory measurements by NWAA Labs, not using Qt Control Processor.

cambridge
SOUND MANAGEMENT