cambridge™
SOUND MANAGEMENT
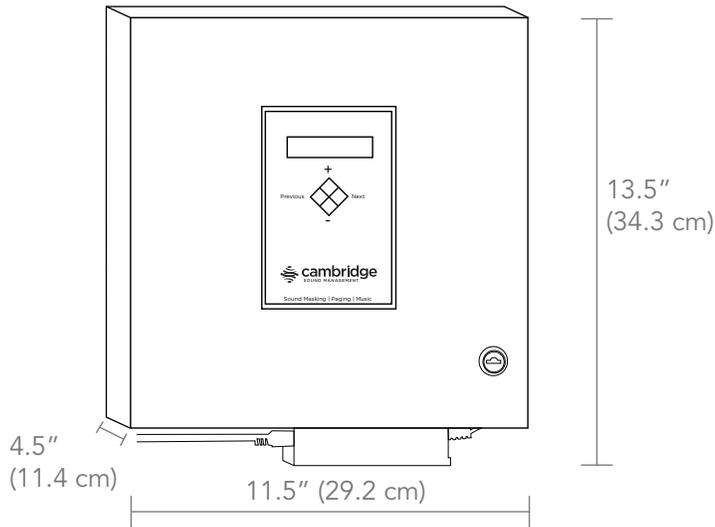
Qt 1500™

13.5"
(34.3 cm)

4.5"
(11.4 cm)

11.5" (29.2 cm)

APPLICATION

The Qt 1500 control module incorporates sound masking generators, equalizers, level controls and aux audio inputs for external sources such as paging or background music. Each controller provides complete DSP-based masking generation, signal processing, amplification, and control for up to 5 zones of audio distribution throughout a facility. The Qt 1500 is suitable for installations up to 180,000 square feet (16,723 m^2). Each zone can be independently adjusted for masking and auxiliary audio levels and spectra. Levels can be adjusted from the unit's front panel or from a network connected computer. Two level password security and a mechanical cylinder lock are provided to prevent unauthorized adjustments.

HOW TO SPECIFY

Module	Mounting Options
Qt 1500	WM (Wall Mount)

HRC*	Color	Cable Lengths May be specified
HRC	W (White)	50ft (15.2 m)
	B (Black)	100ft (30.5 m)
		C [Length] (made to order)

*HRC = Home Run Cable: the cable from the control module to the first emitter of a run; longer than on the 16' (4.9 m) emitter to emitter cable.

Examples:
Qt 1500-WM   A Qt 1500 control module with wall mount bracket
HRC-W-100   A 100 ft (30.5 m)white CAT-3 cable with dual RJ-45 terminations
HRC-B-C62   A 62 ft (18.9 m) black CAT-3 cable with dual RJ-45 terminations, made to order

WALL MOUNT INSTALLATION

Wall mount bracket comes standard with controller. When wall mounted, the controller door opens for easy access to all input connections.

TECHNICAL SPECIFICATIONS

Dimensions: W x H x D	11.5" x 13.5" x 4.5"(29.2 cm x 34.3 cm x 11.4 cm)
Weight	6.5 lbs (2.9 kg)
Operating Temperature Range	40°F - 90°F (4°C - 32°C)
Power Requirements	100 - 240 VAC, 24 watts
Zones	5
Emitter Run Connector Type	RJ-45 (Bent 3-tyne)
Aux. Audio Inputs	3 (2 paging, 1 music)
Aux. Audio Input Level	-10 dBV Nominal, 2 Vrms max
Aux. Input Equalization	Adjustable +/- 12 dB in ISO standard octave bands
Emitter Capacity	60 per run, 360 per zone, 1800 total
Max. Coverage Area (10' Ceiling)	180,000 ft^2 (16,723 m^2)
Masking Spectrum	Preset at factory to CSM standard spectrum (recommended).
Masking Spectrum Equalization	Adjustable +/- 12 dB in ISO standard 1/3 octave bands
Masking Channels	4 per zone
Time of Day Masking Level Control	Per-zone day/night levels
Network Access for Control and Monitoring	Yes
Security	"Hidden" front-panel lock switch; username and password required for network access

STANDARDS AND CERTIFICATIONS

ASTM E1130-08	✓
GreenSpec Listed	✓
FCC Part 15 Compliant	✓
Safety	- Conforms to: - US STD 60950

CABLE SPECIFICATIONS

Cables are plenum-rated, solid conductor 24AWG CAT-3, pre-terminated with bent 3-tyne (prong) contacts straddling each conductor in RJ-45 connectors. Cables are straight through and terminated in T568B wiring scheme. Cables are tested for continuity.

ARCHITECTURAL SPECIFICATIONS

The controller shall consist of all active electronics required for operating a sound masking system from a single accessible location. Systems with distributed electronics above ceilings are not acceptable. The controller shall permit password protected access for control and monitoring via LAN/ Browser interface. The controller shall provide 5 zones and shall be sufficient to generate sound masking, audio control and audio power for up to 180,000 square feet (16,723m^2) of coverage. The unit shall be capable of automatic time-of-day masking level control; per-zone settings shall be available for day/night levels, ramping interval, and separate weekday and Sat/Sun adjustment. Each audio output shall provide 4 incoherent channels of masking noise to minimize phase interference and hotspots. The complete system shall consume less than 40-watts of power. The unit shall meet all requirements of Underwriters Laboratories, the US and Canadian National Electrical Codes, FCC Part 15, and all pertinent UK and EU codes.

cambridge
SOUND MANAGEMENT