Qt Room Control™ Technical Specifications

APPLICATIONS

The Qt Room Control (QtRC) can be used to adjust the sound masking level for an individual room or a space with 2-8 emitters. This wall mounted volume control unit is designed to work with any of the Cambridge Sound Management sound masking systems. It installs easily in new or existing construction and fits in most standard electrical boxes, including open back, low voltage brackets. Since the QtRC is designed for a room of up to 8 emitters, a separate zone should be used in larger areas. The QtRC controlled room can be its own run from the controller or part of a run to other areas.

HOW TO SPECIFY

When using the QtRC, the controller needs to supply enough power over the cable run for the emitters and the QtRC(s). From the control modules, a single cable run can support 60 emitters; however, an added QtRC reduces the number of emitters that can be supported, because each QtRC "counts" as an emitter in the total for the run. The cable run can support up to a combination of 60 emitters and QtRCs. For example, if there are 30 rooms with 2 emitters in each room, or a total of 60 devices (2 x 30 emitters), then a single run of cable could be used. However, if a QtRC is also used in each room, changing the total to 90 devices (2 x 30 emitters + 30 QtRCs), then 2 cable runs would be required. The QtRC features a six position switch that adjusts the sound masking volume nominally in 2.5 dBA decrements.

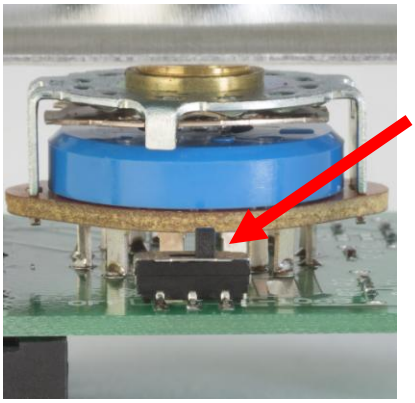
TECHNICAL SPECIFICATIONS

Dimensions	1.9 W x 4.1” H x 2.2” D
Weight	4.7 oz (133.24 grams)
Power Requirements	N/A
Input/Output Wire Specifications	CAT 3, 5, 6 cables
Max. Emitters Supported	8 emitters maximum are supported per QtRC device
Mounting Configuration	Supports 1-gang low voltage class 2 backless brackets (as shown to the right) or standard 1-gang electrical boxes
Volume Increments	Nominally in 2.5 dB decrements from -12.5 dB to 0.0 dB
Connectors	3x RJ45 jacks (3x RJ45 jacks. INPUT (from control module or previous room): Use IN. OUPUT to next room: Use OUT. Connect Emitters in Room: USE ROOM)
Price List Code	Qt-RC2

INSTALLATION AND VOLUME SETTINGS

The QtRC is designed to be installed in a single gang box or low voltage bracket. All power is supplied from the control module, so only CAT cables in and out are required. There are also no requirements for grounding since it is done over the CAT cables.

We suggest that the QtRC knob be at position 5 (full clockwise) when the room's sound level is being calibrated and set on the controller. This allows the user to use this system as calibrated or reduce the sound level down in 2.5 dB steps. Alternatively the QtRC knob may be at position 3 when the room's sound level is set on the controller. This option allows the user to adjust the sound level up or down in 2.5 dB steps.



The switch on the back of the QtRC controls the lowest volume setting the knob on the front is able to produce. Depending on which direction the switch is toggled, the lowest setting on the knob is either 12 dB or completely off. This switch must be toggled prior to installation.

For more information, refer to the Qt Room Control’s Installation and Operations Guide.