

CS-MR-8 ClareHome Streams Installation Sheet



Last modified: 09/29/2016

Description

The ClareHome multi-room audio solution is based upon CobraNet audio-over-Ethernet technology. The CS-MR-8 is an eight analog stereo port and one digital SPDIF input preamplifier, where up to five analog stereo ports can be configured as inputs or outputs, with three analog stereo ports dedicated as outputs. The CS-MR-8 comes in a 1-U form factor with ears for rack mounting, or without for compact placement.

Note: Models and their appearance are subject to change without any prior notice.

Unpacking the CS-MR-8

Remove all contents from the CS-MR-8 packaging and ensure that you have the following items.

- CS-MR-8 device
- Power supply
- Rack mounting brackets

Record the device MAC address (labeled on the bottom of the device) on the CS-MR-8 worksheet on page 2. Your system programmer will need this information when configuring the CS-MR-8 device.

WARNING: Do not power on the CS-MR-8 until installation is complete. Failure to do so may cause bodily injury and/or damage to equipment.

Installation

Rack mounting

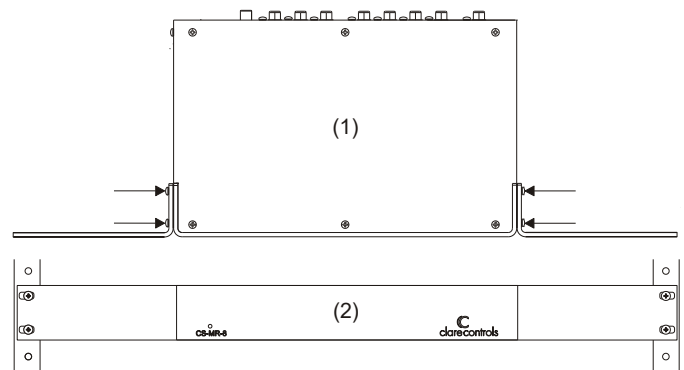
Your CS-MR-8 comes with two mounting ears for mounting the device in a 1U rack.

To mount the CS-MR-8 in a rack:

- (1) Remove the eight screws (four on each side) from the CS-MR-8 and set aside. See Figure 1.

- (2) Place an ear on each side of the CS-MR-8, and then attach them using the screws you set aside.
- (3) Slide the unit into the rack, and then attach it with four mounting screws (not included).

Figure 1: CS-MR-8 rack mounting



- (1) Top view with ear mounts
- (2) Front view with rack mounting

Making rear panel connections

You must install the CS-MR-8 ClareHome Streams device on a separate CobraNet dedicated audio network. CobraNet audio generates a high volume of network data traffic. This volume will not cause latency when relegated to a dedicated network.

You can use ports 1-5 as inputs or outputs. Ports 6-8 are available as output ports only. The SPDIF port is always used as a SPDIF digital audio input port. Your system programmer will use "IN6" to configure this port.

To connect the device:

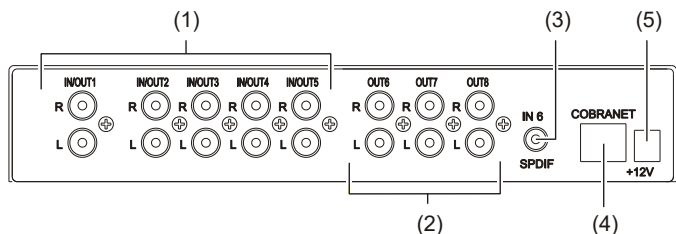
1. Connect the associated input devices starting with port 1 and up to port 5. See Figure 2, item 1.
2. Connect the associated output devices to any ports from 1 to 8. See Figure 2, item 2.
3. If you have a digital connection, connect it to the SPDIF port. See Figure 2, item 3.
4. Connect an RJ-45 (Ethernet) network cable to the Ethernet port (for CobraNet). See Figure 2, item 4.

- Connect a power supply unit to the power connection on the CS-MR-8. See Figure 2, item 5.

Note: Use only power supply unit included for the CS-MR-8. Failure to use the correct unit may result in damage to the unit and/or erratic audio behavior.

- Record port numbers for each associated input and output device in the CS-MR-8 worksheet section. Your system programmer will need this information to configure the CS-MR-8 device.

Figure 2: CS-MR-8 rear connections



- | | |
|------------------------------------|-------------------|
| (1) Input or output ports | (4) Ethernet port |
| (2) Output ports (only) | (5) Power jack |
| (3) Digital audio input SPDIF port | |

Specifications

Maximum analog stereo outputs	8 RCA jacks
Maximum analog stereo inputs	5 RCA jacks
SPDIF digital audio inputs	1 RCS jack
Frequency response	20 HZ - 20 kHz, ± 1 dB
THD+N	<0.05% at -3 dBFS
Noise	-83 dBu
Maximum power consumption	10W at 12V DC (12V DC power supply included) 2.1 mm jack
CobraNet	RJ-45 connection
Dimensions (approx.) (W x H x D)	7.5 x 1.7 x 6.6 in. (19.5 x 4.3 x 16.8 cm)
Dimensions with rack mounting (W x H x D)	19.0 x 1.7 x 6.6 in. (48.3 x 4.3 x 16.8 cm)
Weight	22 oz. (.62 kg)
Operating temperature	32 to 104°F (0 to 40°C)

Audio input details

Line input type	Unbalanced
Maximum input level	+8 dBu
Inputs	5 analog stereo and 1 digital SPDIF input
Input impedance	10 k Ω
Sample rate	48 KHz
Resolution	24 bit

Audio output details

Line input type	Unbalanced
Maximum output level	> +4 dBu
Outputs	Up to 8 analog stereo
Input impedance	680 Ω
Sample rate	48 KHz
Resolution	24 bit

Regulatory information

Manufacturer	Clare Controls 7519 Pennsylvania Ave. Sarasota, FL 34243, USA
FCC compliance	This device complies with part 15 of the FCC Rules.

CS-MR-8 worksheet

Record important information for your system programmer. Your system programmer requires the following information when configuring the CS-MR-8.

If you do not have a device connected to any of the ports below, enter "N/A" in that field. For ports 1-5, circle Input or Output below for the device connected to that port.

CS-MR-8 MAC address _____

Device connected to port #1 as input or output _____

Device connected to port #2 as input or output _____

Device connected to port #3 as input or output _____

Device connected to port #4 as input or output _____

Device connected to port #5 as input or output _____

Device connected to output port #6 _____

Device connected to output port #7 _____

Device connected to output port #8 _____

Device connected to SPDIF input port _____

Warranty information

Clare Controls offers a three (3) year limited warranty on original Clare Controls components, from the date of shipment from Clare Controls. To view complete limited warranty details, including limitations and exclusions, www.clarecontrols.com/warranty.



Scan the code
to view product
warranty details.

Contact information

Clare Controls
7519 Pennsylvania Ave, Suite 104
Sarasota, FL 34243
Support: 941.404.1072
Fax: 941.870.9646
<http://support.clarecontrols.com>
www.clarecontrols.com