

4K Multiformat AV Switch and Receiver with 4-Port Ethernet Switch

The Crestron® HD-RX-4K-510-C-E-SW4 and HD-RX-4K-410-C-E-SW4 are 4K multiformat AV switches and receivers. The devices provide enhanced HDMI® video switching and audio presentation capabilities in areas such as conference rooms and classrooms.



In the Box

- 1 HD-RX-4K-510-C-E-SW4 or HD-RX-4K-410-C-E-SW4 Multiformat AV Switch and Receiver with 4-Port Ethernet Switch

Additional Items

- 4 Anchor, Drywall, Plastic (2053825)
- 5 Connector, 2-Pin (2003574)
- 2 Connector, 2-Pin (2044402)
- 3 Connector, 3-Pin (2003575)
- 5 Connector, 5-Pin (2003577)
- 1 Power Cord, 6 ft 7 in. (2 m) (2001134)
- 4 Screw, 8-15A x 3/4 in., Flat Head, Phillips (2053836)

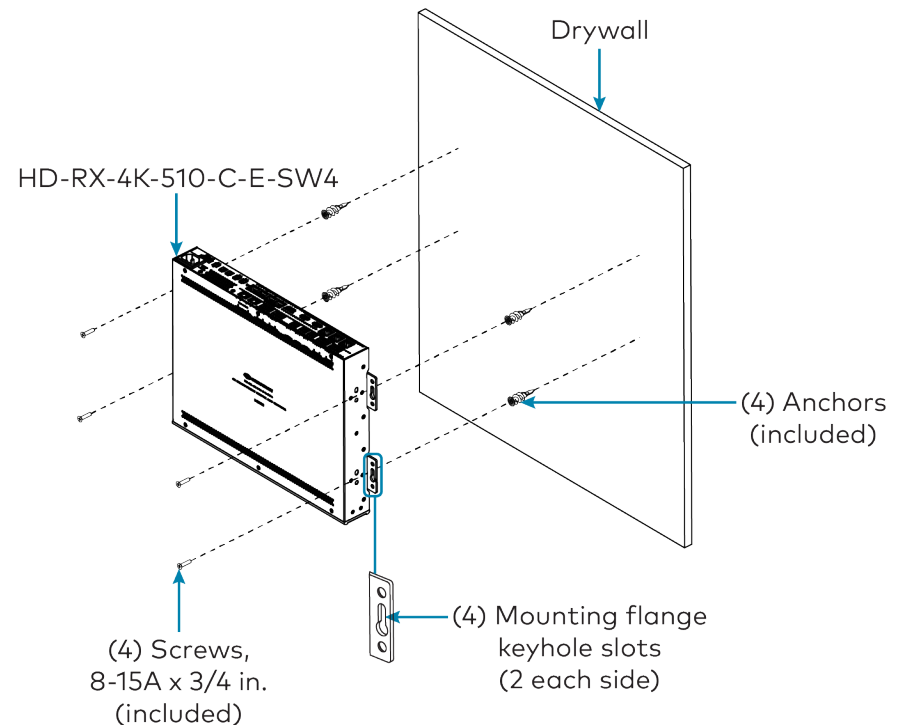


Install the Device

To install the device, mount it onto drywall. Use the four included drywall anchors and the four included 8-15A x 3/4 in. flat head Phillips screws (one screw for each keyhole slot in the four mounting flanges of the device).

NOTE: For safety reasons, it is recommended that the mounting height of the device be no more than 6-1/2 ft (2 m) from the floor or any platform above which the device is mounted.

Drywall Mounting (HD-RX-4K-510-C-E-SW4 Shown)



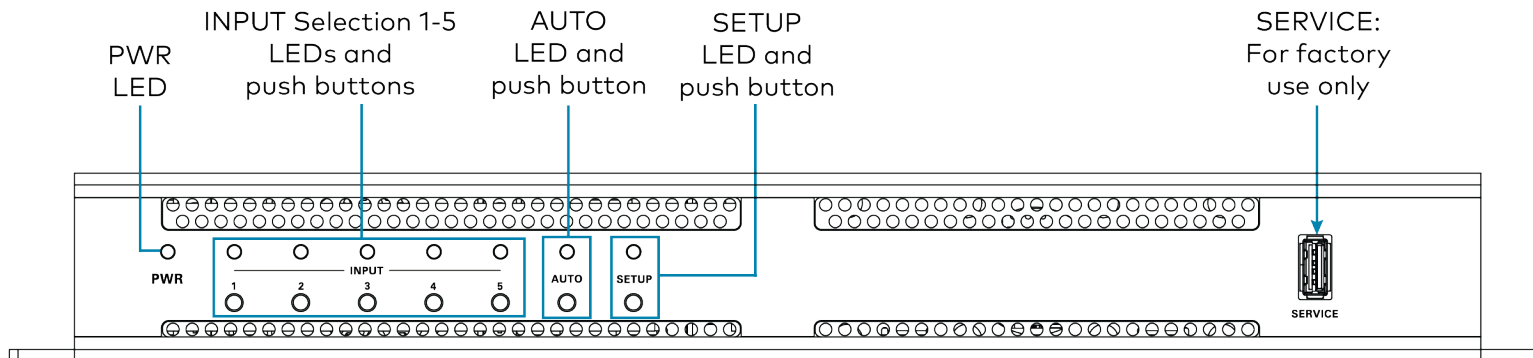
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Connect the Device

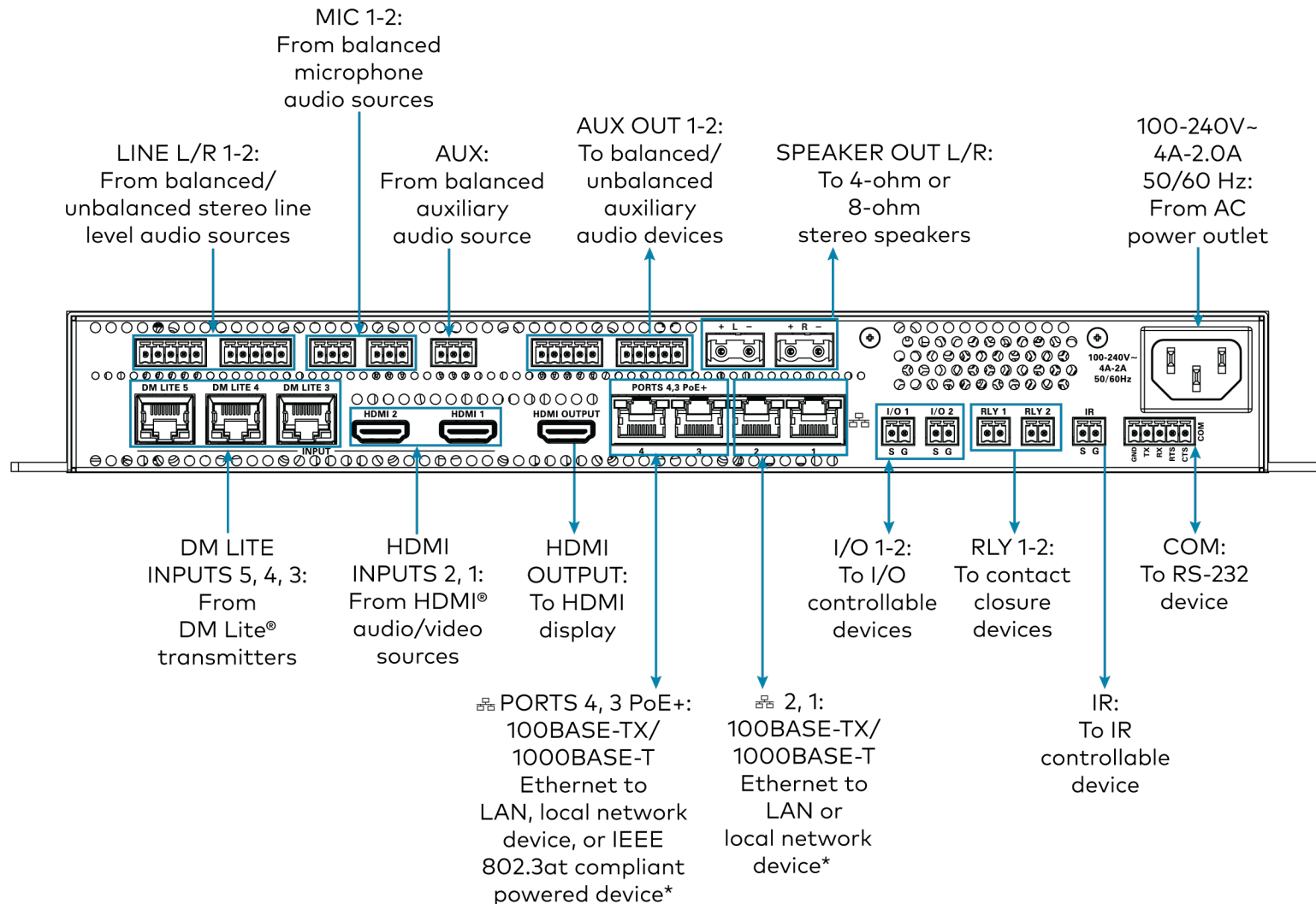
Connect the device as required for the application.

Front Panel Connection (HD-RX-4K-510-C-E-SW4 Shown)



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Rear Panel Connections (HD-RX-4K-510-C-E-SW4 Shown)



* To comply with the European Directive (CE), it is recommended that high-quality solid-core CAT5e (or higher) shielded twisted pair (STP) cable be used.

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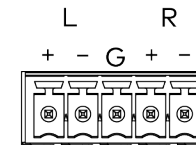
NOTES:

- Cabling that connects the device to a DM Lite® transmitter is designed for intrabuilding use only.
 - The HD-RX-4K-510-C-E-SW4 can power three DM Lite transmitters simultaneously. The HD-RX-4K-410-C-E-SW4 can power two DM Lite transmitters simultaneously. Do not connect power to DM Lite transmitters that are to be connected to the HD-RX-4K-510-C-E-SW4 or HD-RX-4K-410-C-E-SW4.
 - Ethernet ports 4 and 3 can be used as PoE+ power sourcing equipment (PSE) ports that connect to PoE+ powered devices (PDs). Cabling that connects to PoE+ PSE ports is designed for intrabuilding use only.
- The PoE+ ports support IEEE 802.3at. The maximum power output is 25.5 W.
- The device is grounded by connection of the included power cord to an AC power outlet with proper grounding.
 - There are no user-serviceable parts inside this device. If repair of the device is needed, contact an authorized Crestron dealer for return of the device to the factory.

LINE 1-2 Connector Pin Assignments

The LINE 1 and LINE 2 connectors use 5-pin terminal blocks for balanced or unbalanced analog audio inputs.

LINE Connector



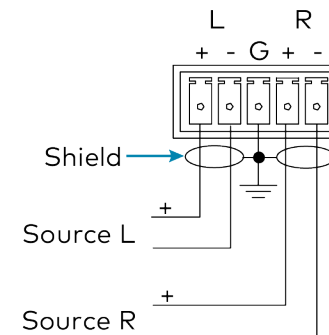
Refer to the following table and diagrams for LINE analog audio input pin assignments and wiring information.

LINE Balanced and Unbalanced Audio Input Pin Assignments

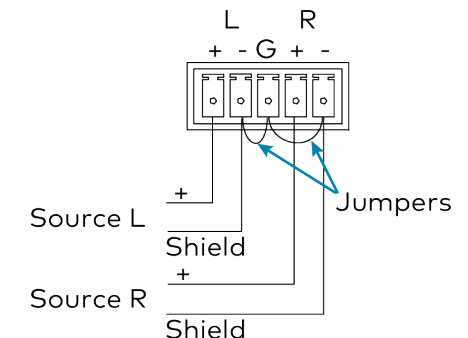
Signal Name	Balanced Audio Input	Unbalanced Audio Input
+	L+	L+ In
-	L-	L- Signal return, jumper to GND
G	Shield/ground	Ground
+	R+	R+ In
-	R-	R- Signal return, jumper to GND

LINE Balanced and Unbalanced Audio Input Wiring

Balanced Input



Unbalanced Input

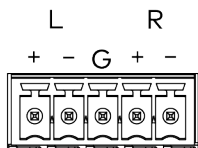


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AUX OUT 1-2 Connector Pin Assignments

The AUX OUT 1 and AUX OUT 2 connectors use 5-pin terminal blocks for balanced or unbalanced analog audio outputs.

AUX OUT 1-2 Connector



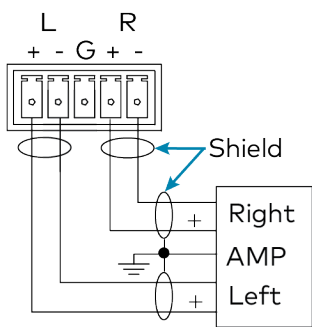
Refer to the following table and diagrams for AUX OUT analog audio output pin assignments and wiring information.

AUX OUT Balanced and Unbalanced Audio Output Pin Assignments

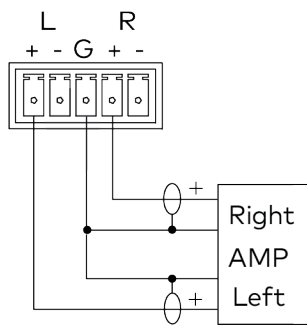
Signal Name	Balanced Audio Output	Unbalanced Audio Output
+	L+	L+ Out
-	L-	Open
G	Shield/ground	Common ground
+	R+	R+ Out
-	R-	Open

AUX OUT Balanced and Unbalanced Audio Output Wiring

Balanced Output



Unbalanced Output



LED Indicators

Refer to the following table for information about the LED indicators on the device.

LED Indicators

LED Indicator	Color	Meaning
PWR	Amber	Power is being applied to the device. The device is booting.
	Green	Power is being applied to the device. The device is operational.
INPUT 1-5 or 1-4 (model dependent)	Green	The corresponding input is routed to the HDMI® output.
	Amber	The corresponding input is detected but is not routed to the HDMI output.
AUTO	Green	Automatic routing is enabled.
SETUP	Red	The SETUP button is pressed.
DM LITE	Green	A DM Lite™ link is established.
	Flashing amber	Non-HDCP video is detected.
	Steady amber	HDCP video is detected.
LAN	Green	An Ethernet link is established.
	Flashing amber	Data activity is occurring on the Ethernet link.

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Configure the Device

Using the web interface, configure the HD-RX-4K-510-C-E-SW4 or HD-RX-4K-410-C-E-SW4. The device also hosts the configuration of the connected DM Lite transmitters.

To access the web interface, open a web browser and then go to the IP address of the HD-RX-4K-510-C-E-SW4 or HD-RX-4K-410-C-E-SW4. By default, DHCP is enabled. To display the IP address on the connected HDMI display, press the SETUP button on the front panel of the device. If a transmitter has a SETUP button, pressing the button on the transmitter will also display the IP address of the HD-RX-4K-510-C-E-SW4 or HD-RX-4K-410-C-E-SW4.

To log in to the web interface, enter the user name and password. The default user name and password are both *admin*.



Upgrade the Firmware

Before using the device, upgrade the firmware. The latest firmware can be downloaded from the HD-RX-4K-510-C-E-SW4 and HD-RX-4K-410-C-E-SW4 product pages on the Crestron website (www.crestron.com).



Connect to the Cloud

The XiO Cloud® service allows supported Crestron devices across an enterprise to be managed and configured from one central and secure location in the cloud. Supported devices are preconfigured to connect to the service. Use of the service requires a registered XiO Cloud account.

To connect the device to the XiO Cloud service:

1. Record the MAC address and serial number that are labeled on the shipping box or rear panel of the device. The MAC address and serial number are required in order to add the device to the XiO Cloud environment.
2. Do either of the following:
 - If you have a XiO Cloud account, go to <https://portal.crestron.io> to access the Crestron XiO Cloud service.
 - If you do not have a XiO Cloud account, go to www.crestron.com/xio-cloud-registration to register for an account.

For detailed information about using the XiO Cloud service, refer to the [XiO Cloud® Provisioning and Management Service User Guide](#) (Doc. 8214).

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Additional Information

Original Instructions

The U.S. English version of this document is the original instructions.
All other languages are a translation of the original instructions.

Regulatory Model: M1845002

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HDMI

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Doc. 8497B
12/10/20