

4K HDR Two-Output HDMI Distribution Amplifier

AT-RON-442



The Atlona **Rondo™ 442 (AT-RON-442)** is a 1x2 HDMI distribution amplifier for high dynamic range (HDR) formats. Part of the comprehensive family of Atlona 4K HDR integration products, it is HDCP 2.2 compliant and supports 4K/UHD video @ 60 Hz with 4:4:4 chroma sampling, as well as HDMI data rates up to 18 Gbps. The Rondo 442 is ideal for applications requiring the latest as well as emerging 4K/UHD and HDR sources and displays. This Rondo Series HDMI distribution amplifier includes EDID management features, front panel LED indicators for power and signal status, and the capability to cascade several units without compromising performance.

The Rondo 442 is designed to deliver dependable, pristine-quality image presentations in commercial and residential applications. It includes Atlona's award-winning 10 year limited product warranty and customer support services, so that integrators can specify, purchase, and install with confidence.

Package Contents

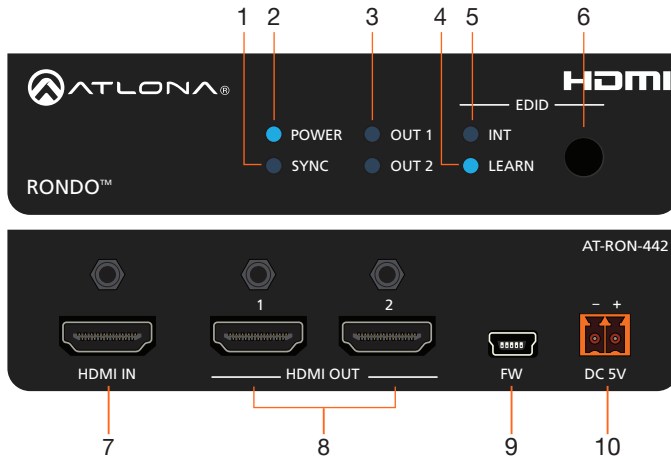
- 1 x AT-RON-442
- 1 x 2-pin captive screw connector
- 2 x Mounting bracket
- 4 x Screws (MAS-MF02+04D for mounting bracket)
- 4 x Rubber feet
- 1 x Power supply 5V 4A
- 1 x AC cord
- 1 x Installation guide



IMPORTANT: Visit <https://www.atlona.com/product/AT-RON-442> for the latest firmware updates.



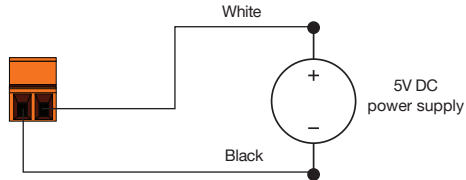
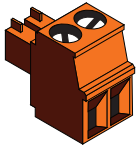
Panel Descriptions



- | | |
|---|---|
| <p>1 SYNC
This LED indicator will glow solid blue when an active source is detected on the HDMI IN port.</p> <p>2 POWER
This LED indicator will glow solid blue when the unit is powered.</p> <p>3 OUT 1 / OUT 2
These LED indicators will glow solid blue when a display or other sink device is connected to the respective HDMI OUT port.</p> <p>4 LEARN
This LED indicator glows solid blue when the unit is in LEARN mode.</p> <p>5 INT
This LED indicator glows solid blue when the unit is using the built-in EDID.</p> <p>6 EDID button
Press this button to switch between INT and LEARN modes.</p> | <p>7 HDMI IN
Connect an HDMI cable from this port to a UHD/HD source.</p> <p>8 HDMI OUT 1/2
Connect an HDMI cable from each of these ports to a display or other sink device.</p> <p>9 FW
Connect a mini USB cable to this port to update the firmware.</p> <p>10 DC 5V
Connect the included 5V DC power supply to this port.</p> |
|---|---|

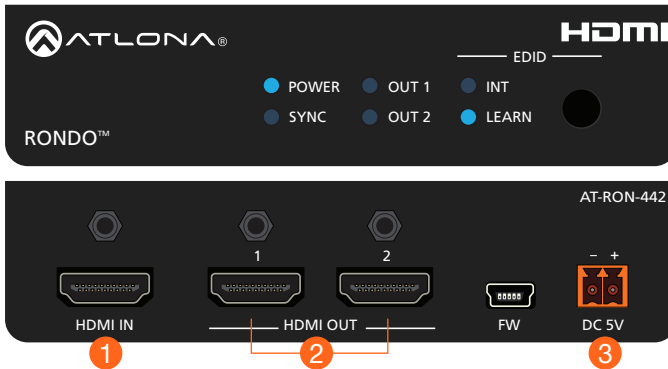
Power Connector

Locate the included orange Phoenix terminal block, and wire the included power supply to the block as shown below. Do not use high-torque devices, when securing the wires, as this may damage the screws and/or connector block.



Installation

1. Connect an HDMI cable from the UHD/HD source to the **HDMI IN** port on the AT-RON-442.
2. Connect display/sink devices to the AT-RON-442 to the **HDMI OUT** ports.
3. Connect the included power supply to the **DC 5V** Phoenix connector.

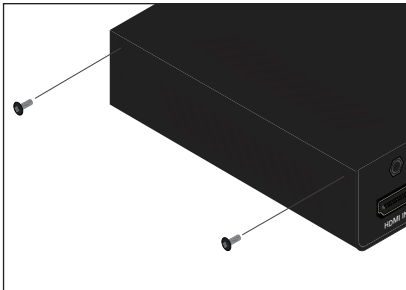




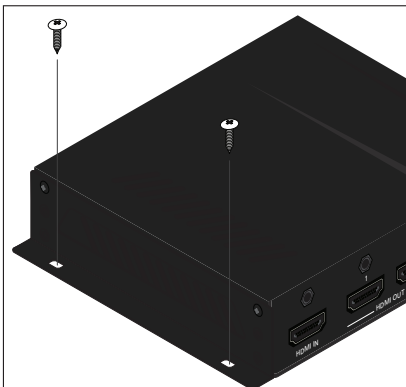
Mounting Instructions

The AT-RON-442 includes two mounting brackets, which can be used to attach the unit to any flat surface.

1. Using a small Phillips screwdriver, remove the two screws from the left side of the enclosure.
2. Position one of the mounting brackets, as shown below, aligning the holes on the side of the enclosure with one set of holes on the mounting bracket.



3. Use the enclosure screws to secure the mounting bracket to the enclosure.
4. Repeat steps 1 through 3 to attach the second mounting bracket to the opposite side of the unit.
5. Mount the unit using the oval-shaped holes, on each mounting bracket. If using a drywall surface, a #6 drywall screw is recommended.



NOTE: Mounting brackets can also be inverted to mount the unit under a table or other flat surface.



LED Indicators

LED		Description
POWER		The AT-RON-442 is powered.
		The AT-RON-442 is not powered. • Check that the power supply is connected to the AT-RON-442 and that the electrical outlet is live.
SYNC		The HDMI IN port is connected to an active source.
		The AT-RON-442 is not detecting an active source. • Check that the source is powered on and that the source is connected to the HDMI IN port. • Check that the HDMI cable, between the AT-RON-442 and the source, is securely fastened. • Try a different HDMI cable.
OUT 1 / OUT 2		The HDMI OUT port is connected to a display or other sink device.
		The AT-RON-442 is not detecting a sink device. • Check that the sink device is connected to the proper HDMI OUT port. • Check that the HDMI cable, between the AT-RON-442 and the sink device, is securely fastened. • Try a different HDMI cable.
INT		The AT-RON-442 is using the built-in internal EDID.
		The internal EDID is not being used.
LEARN		The EDID learning process is complete and the AT-RON-442 is using a learned EDID from a sink device.
		This LED will flash while the AT-RON-442 is learning the EDID.
		The AT-RON-442 is not using a learned EDID.

EDID

The AT-RON-442 provides two EDID modes: **INT** (internal) and **LEARN**.



NOTE: 4K, 3D, and multichannel audio may not be available when using **INT** (internal) EDID mode.

Internal (INT) Mode

When this mode is selected, the internal EDID stored in the AT-RON-442 is presented to the HDMI source.

1. Power the AT-RON-442.
2. Press and release the EDID button to toggle to **INT** mode.
3. Connect an HDMI cable from the source to the **HDMI IN** port.
4. Connect up to two displays to the AT-RON-442, using the **HDMI OUT 1** and **HDMI OUT 2** ports.

LEARN Mode

LEARN mode is used to learn an EDID from another sink device. When learning an EDID, the device must be connected to the **HDMI OUT 1** port.

1. Power the AT-RON-442.
2. Connect an HDMI cable from the **HDMI OUT 1** port on the AT-RON-442 to the HDMI input on the sink device containing the EDID to be learned.
3. Press and hold the **EDID** button on the AT-RON-442. While the EDID is being learned, the **LEARN** LED indicator will begin flashing.
4. When the **LEARN** LED indicator is solid blue, release the **EDID** button.
5. The EDID from the sink device is now stored in the AT-RON-442.



Troubleshooting

Problem	Solution
How do I perform a firmware update on the AT-RON-442?	If updated firmware is available, both firmware and update instructions can be found under the Firmware tab of each of the following links. Note that if new firmware is not available, then the Firmware tab will not be displayed. http://www.atlona.com/product/AT-RON-442
Does the Rondo series provide external automation control?	No.
3D content is not being displayed.	• If using INT (internal) EDID mode, all connected displays must be able to display 3D content. If only one of the connected displays is not 3D-capable, then none of the displays will show 3D content. • To pass 3D content when not all displays support 3D, connect a 3D display to Output 1, then use the “learn EDID” procedure.

Warranty

To view the product warranty, use the following link or QR code:

<https://atlona.com/warranty/>.



Version 4

English Declaration of Conformity

The English version can be found under the resources tab at:

<https://atlona.com/product/at-ron-442/>.



Chinese Declaration of Conformity 中国RoHS合格声明

由SKU列出於:

<https://atlona.com/about-us/china-rohs/>.

