

4K HDR Four-Output HDMI Distribution Amplifier

AT-RON-444



The Atlona **Rondo™ 444 (AT-RON-444)** is a 1×4 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 444 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 444 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.

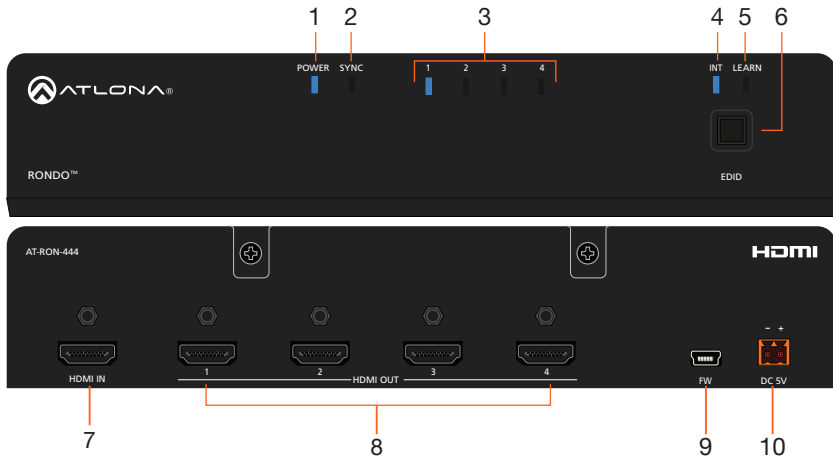
Package Contents

- 1 x AT-RON-444
- 1 x 2-pin captive screw connector
- 2 x Mounting plate
- 1 x Longer rack ear
- 1 x Rack Ear
- 4 x Screws (MAS-MF03+04D1 for mounting plate)
- 4 x Screws (MAS-MF04+06D for rack ear)
- 1 x Power supply 5V 4A
- 1 x AC cord
- 1 x Installation guide



IMPORTANT: Visit <https://www.atlona.com/product/AT-RON-444> for the latest firmware updates.

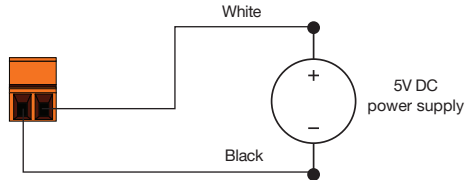
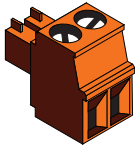
Panel Descriptions



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

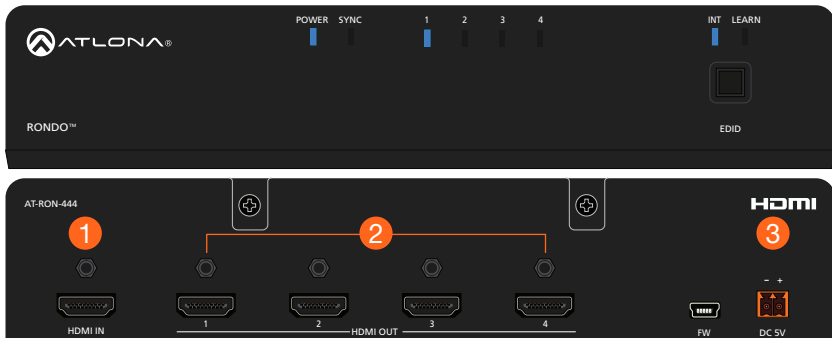
Power Connector

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-444.
2. Connect display/sink devices to the AT-RON-444 to the **HDMI OUT** ports.
3. Connect the included power supply to the **DC 5V** Phoenix connector.

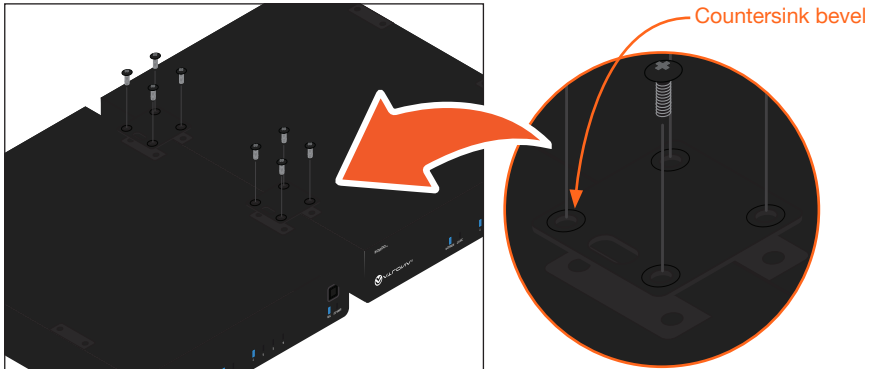


Mounting Instructions

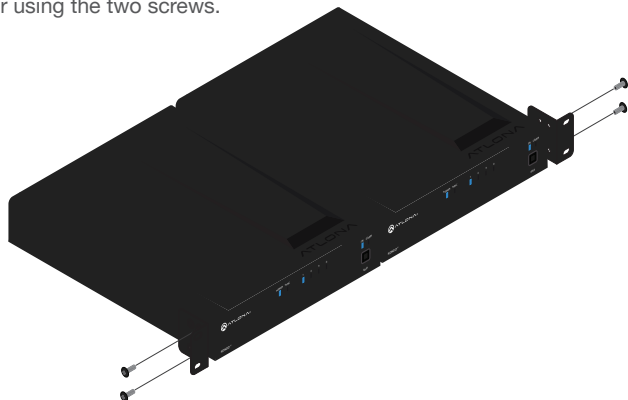
Dual-Unit Rack Installation

Two AT-RON-444 units can be connected to one another and installed in a 19" rack, using the included mounting plates. Alternatively, a single AT-RON-444 can be mounted in the rack using the included rack ears.

1. Turn the unit upside-down on a flat surface.
2. Position the included mounting plates over the pre-drilled holes on the bottom of the enclosure. When attaching mounting plates, the countersink bevels on the mounting plate should face upward.



3. Turn the attached units over and remove the two screws on either side of each unit as shown below, using a Philips screwdriver.
4. Secure each rack ear using the two screws.





Single-Unit Rack Installation

1. Remove the two screws on either side of each unit, as shown below.
2. Position the small rack ear to one side of the AT-RON-444 and secure with the two screws.
3. Position the longer rack ear to the opposite side of the AT-RON-444 and secure with the two screws.



LED Indicators

LED		Description
POWER		The AT-RON-444 is powered.
		The AT-RON-444 is not powered. Check that the power supply is connected to the AT-RON-444 and that the electrical outlet is live.
SYNC		The HDMI IN port is connected to an active source.
		The AT-RON-444 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-444 and the source, is securely fastened. - Try a different HDMI cable.
1, 2, 3, 4		The HDMI OUT port is connected to a display or other sink device.
		The AT-RON-444 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-444 and the sink device, is securely fastened. - Try a different HDMI cable.
INT		The AT-RON-444 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-444 is using a learned EDID from a sink device.
		This LED will flash while the AT-RON-444 is learning the EDID.
		The AT-RON-444 is not using a learned EDID.

EDID

The AT-RON-444 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-444 is presented to the HDMI source.

1. Power the AT-RON-444.
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 four displays to the AT-RON-444, using the **HDMI OUT 1 - HDMI OUT 4**.

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-444.
2. Connect an HDMI cable from the **HDMI OUT 1** port on the AT-RON-444 to the HDMI input on the sink device containing the EDID to be stored.
3. Press and hold the **EDID** button on the AT-RON-444. 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-444.



Troubleshooting

Problem	Solution
How do I perform a firmware update on the AT-RON-444?	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-444
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.



Notes



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Notes

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-444/>.



Chinese Declaration of Conformity 中国RoHS合格声明

由SKU列出於:

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

