



AT-HDR-H2H-44M

Atlona Manuals
4x4 HDMI Switcher

Version Information

Version	Release Date	Notes
1	10/17	Initial release

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Thank you for purchasing this Atlona product. We hope you enjoy it and will take a extra few moments to register your new purchase.

Registration only takes a few minutes and protects this product against theft or loss. In addition, you will receive notifications of product updates and firmware. Atlona product registration is voluntary and failure to register will not affect the product warranty.

To register your product, go to <http://www.atlona.com/registration>

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Operating Notes

As of this writing, there are no firmware updates for this product. When new firmware is released, update instructions will be included with the firmware and will be appended to this manual.



IMPORTANT: Visit <http://www.atlona.com/product/AT-HDR-H2H-44M> for the latest firmware updates and User Manual.

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Coverage

Atlona warrants its products will substantially perform to their published specifications and will be free from defects in materials and workmanship under normal use, conditions and service.

Under its Limited Product Warranty, Atlona, at its sole discretion, will either:

- repair or facilitate the repair of defective products within a reasonable period of time, restore products to their proper operating condition and return defective products free of any charge for necessary parts, labor and shipping.

OR

- replace and return, free of charge, any defective products with direct replacement or with similar products deemed by Atlona to perform substantially the same function as the original products.

OR

- refund the pro-rated value based on the remaining term of the warranty period, not to exceed MSRP, in cases where products are beyond repair and/or no direct or substantially similar replacement products exist.

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This Limited Product Warranty extends to the original end-user purchaser of Atlona products and is non-transferrable to any subsequent purchaser(s) or owner(s) of these products.

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Atlona recommends that end-purchasers contact their authorized Atlona dealer or reseller from whom they purchased their products. Atlona can also be contacted directly. Visit www.atlona.com for Atlona’s contact information and hours of operation. Atlona requires that a dated sales or delivery receipt from an authorized dealer, reseller or end-purchaser is provided before Atlona extends its warranty services. Additionally, a return merchandise authorization (RMA) and/or case number, is required to be obtained from Atlona in advance of returns.

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Exclusions

This Limited Product Warranty excludes:

- Damage, deterioration or malfunction caused by any alteration, modification, improper use, neglect, improper packaging or shipping (such claims must be presented to the carrier), lightning, power surges, or other acts of nature.

Atlona, Inc. (“Atlona”) Limited Product Warranty

- Damage, deterioration or malfunction resulting from the installation or removal of this product from any installation, any unauthorized tampering with this product, any repairs attempted by anyone unauthorized by Atlona to make such repairs, or any other cause which does not relate directly to a defect in materials and/or workmanship of this product.
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- Products purchased from unauthorized distributors, dealers, resellers, auction websites and similar unauthorized channels of distribution.

Disclaimers

This Limited Product Warranty does not imply that the electronic components contained within Atlona’s products will not become obsolete nor does it imply Atlona products or their electronic components will remain compatible with any other current product, technology or any future products or technologies in which Atlona’s products may be used in conjunction with. Atlona, at its sole discretion, reserves the right not to extend its warranty offering in instances arising outside its normal course of business including, but not limited to, damage inflicted to its products from acts of god.

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To the maximum extent permitted by law, this limited product warranty and the remedies set forth above are exclusive and in lieu of all other warranties, remedies and conditions, whether oral or written, express or implied. To the maximum extent permitted by law, Atlona specifically disclaims all implied warranties, including, without limitation, warranties of merchantability and fitness for a particular purpose. If Atlona cannot lawfully disclaim or exclude implied warranties under applicable law, then all implied warranties covering its products including warranties of merchantability and fitness for a particular purpose, shall provide to its products under applicable law. If any product to which this limited warranty applies is a “Consumer Product” under the Magnuson-Moss Warranty Act (15 U.S.C.A. §2301, ET SEQ.) or other applicable law, the foregoing disclaimer of implied warranties shall not apply, and all implied warranties on its products, including warranties of merchantability and fitness for the particular purpose, shall apply as provided under applicable law.

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Atlona’s Limited Product Warranty offering gives legal rights, and other rights may apply and vary from country to country or state to state. This limited warranty is void if (i) the label bearing the serial number of products have been removed or defaced, (ii) products are not purchased from an authorized Atlona dealer or reseller. A comprehensive list of Atlona’s authorized distributors, dealers and resellers can be found at www.atlona.com.

Important Safety Information

CAUTION
 RISK OF ELECTRIC SHOCK
 DO NOT OPEN

CAUTION: TO REDUCT THE RISK OF
 ELECTRIC SHOCK
 DO NOT OPEN ENCLOSURE OR EXPOSE
 TO RAIN OR MOISTURE.
 NO USER-SERVICEABLE PARTS
 INSIDE REFER SERVICING TO
 QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the product.

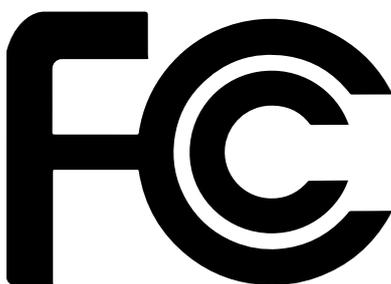


The information bubble is intended to alert the user to helpful or optional operational instructions in the literature accompanying the product.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this product near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install or place this product near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of a polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the product.
11. Only use attachments/accessories specified by Atlona.
12. To reduce the risk of electric shock and/or damage to this product, never handle or touch this unit or power cord if your hands are wet or damp. Do not expose this product to rain or moisture.
13. Unplug this product during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the product, the product has been exposed to rain or moisture, does not operate normally, or has been dropped.



FCC Statement



FCC Compliance and Advisory Statement: This hardware device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed or used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: 1) reorient or relocate the receiving antenna; 2) increase the separation between the equipment and the receiver; 3) connect the equipment to an outlet on a circuit different from that to which the receiver is connected; 4) consult the dealer or an experienced radio/TV technician for help. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Where shielded interface cables have been provided with the product or specified additional components or accessories elsewhere defined to be used with the installation of the product, they must be used in order to ensure compliance with FCC regulations.

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Introduction

The Atлона AT-HDR-H2H-44M is a 4x4 HDMI matrix switcher for high dynamic range (HDR) formats. 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 HDR-H2H-44M is ideal for residential applications with the latest as well as emerging 4K/UHD and HDR sources and displays. It is compatible with all video resolutions, audio formats, and color space formats supported in the HDMI 2.0b specification, plus the ability to pass metadata for HDR content. The HDR-H2H-44M includes EDID and HDCP management features, and can send CEC display control independently to each output. A TOSLINK digital audio output is paired with each HDMI output for sending de-embedded HDMI audio to an AV receiver or soundbar. The HDR-H2H-44M can be controlled via Ethernet, RS-232, and IR. A handheld IR remote control is included.

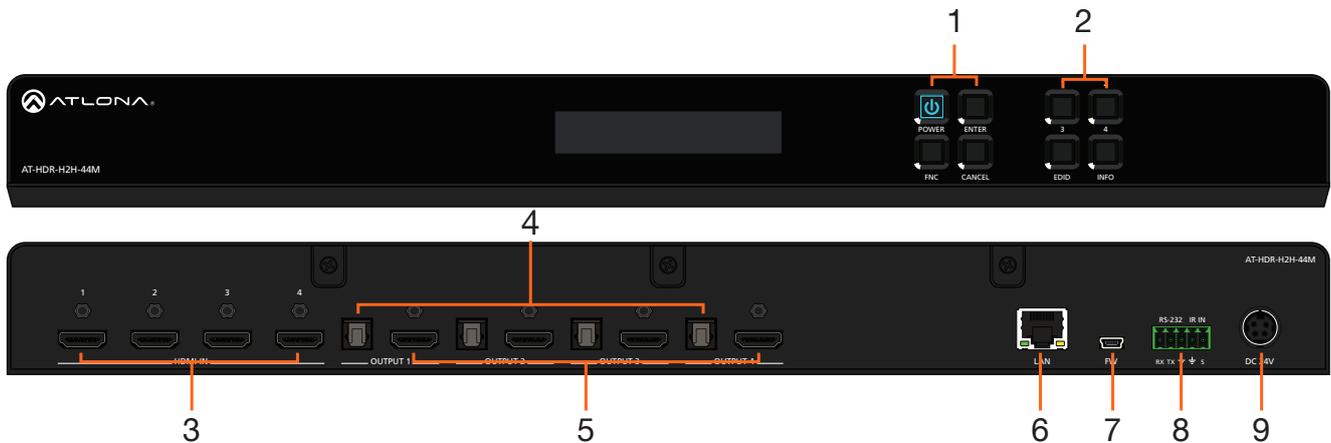
Features

- Supports resolutions up to 4K/UHD 60Hz @ chroma sub-sampling 4:2:0 10-bit
- HDCP 2.2 compliant
- EDID learning for up to 4 display EDIDs
- Built in internal EDID mode provides 14 unique EDIDs to ensure compatibility
- Multiple control options such as RS-232, IR, TCP/IP, webGUI, and front panel
- Multi-channel audio pass through up to Dolby Digital Plus, Dolby TrueHD, DTS-HD Master Audio, and Dolby Atmos

Package Contents

- 1 x AT-HDR-H2H-44M
- 1 x Captive screw connector, 5-pin
- 1 x 24V DC power supply
- 1 x Pair mounting ears w/screws
- 4 x Feet w/screws
- 1 x IR remote control
- 1 x Installation Guide

Panel Description



1 Function Buttons

Power - Sets the unit in and out of standby.
Enter - Used for making selection within the front panel OSD.
FNC - Use to switch number buttons to their secondary function.
CANCEL - Navigates back one step in the front panel OSD.

2 Number Buttons

Use for selection of inputs and outputs.
1 - Press FNC + 1 to route selected input to all outputs.
2 - Press FNC + 2 to turn the IR receiver window on and off.
3 - Press FNC + 3 to open the EDID menu.
4 - Press FNC + 4 to display the device firmware. Press 4 again to view IP, IP port, and MAC.

3 HDMI IN

Connect HDMI cables to these ports from HDMI sources.

4 S/PDIF OUT

Connect an optical audio cable from this TOSLINK port to an audio input device.

5 HDMI OUT

Connect an HDMI cable from this port to an HDMI display, extender, or switcher.

6 LAN

Connect an Ethernet cable from this port to a Local Area Network (LAN). This port provides access to the webGUI or TCP/IP control.

7 FW

Connect a mini USB cable to this port to update the firmware.

8 Control Port

Connect a third party controller or PC to control the matrix through either IR or RS-232.

9 DC 24V

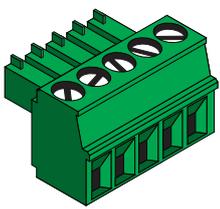
Connect the included 24V DC power supply to this power receptacle.

Installation

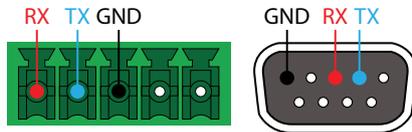
Control

A 5-pin captive screw connector for control has been included. The first three terminals are RS-232 control, the last two terminals are for IR.

1. Use wire strippers to remove a portion of the cable jacket.
2. Remove at least 3/16" (5 mm) from the insulation of each wire.
3. Insert the wires into the correct terminal on the included captive screw connector, as shown below.
4. Tighten the screws to secure the wires. Do not use high-torque devices as this may damage the screws and/or connector.

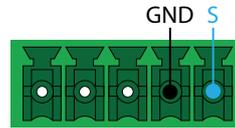


RS-232



Pin out will be determined by the RS-232 cable and connect as RX (receive), TX (transmit) and GND (Ground).

IR



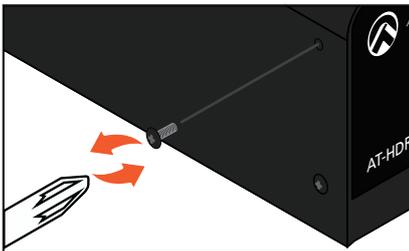
IR IN is connected by a ground and signal wire. Use with 3rd party control systems. For easy termination, Atlona recommends using the 2 meter IR cable AT-LC-CS-IR-2M.

Mounting Instructions

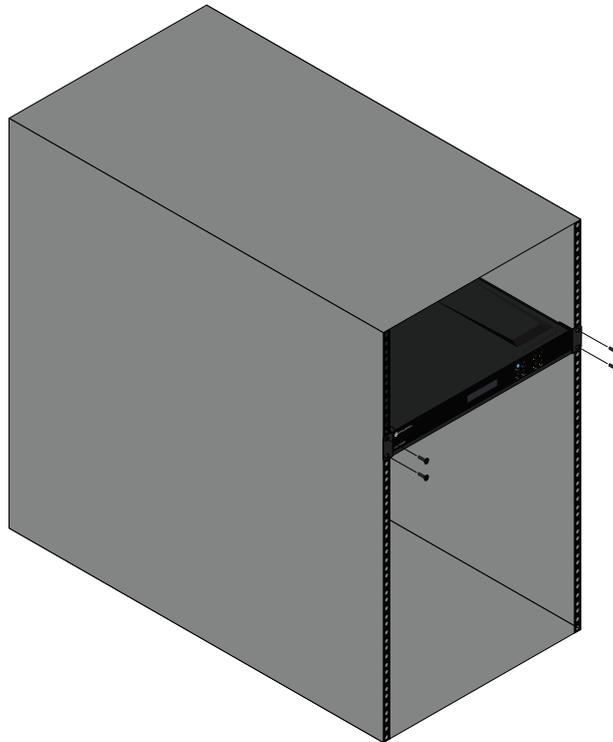
The AT-HDR-H2H-44M can be mounted in a standard 19-inch rack or placed freestanding on top of a desk or table.

Rack installation

1. Remove the front two case screws from the sides of the case.
2. Attach the included rack ears to each side of the AT-HDR-H2H-44M using the case screws.
3. Install the HDR-H2H into a rack, using four rack screws.



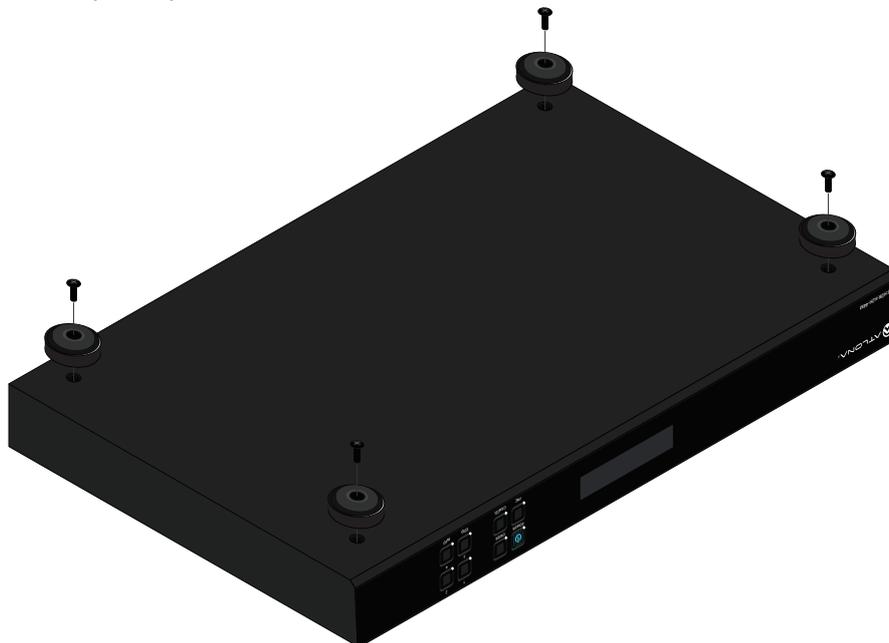
-  **NOTE:** Increase the air flow as needed to maintain the recommended temperature inside the rack.
-  **NOTE:** Do not exceed the maximum weight loads for the rack. Install heavier equipment in the lower part of the rack for stability.



Surface mounting

The AT-HDR-H2H-44M can be placed freestanding on top of a desk, a table, or in a cabinet. To prevent damage to the surfaces or unnecessary movement of the matrix, four feet have been included.

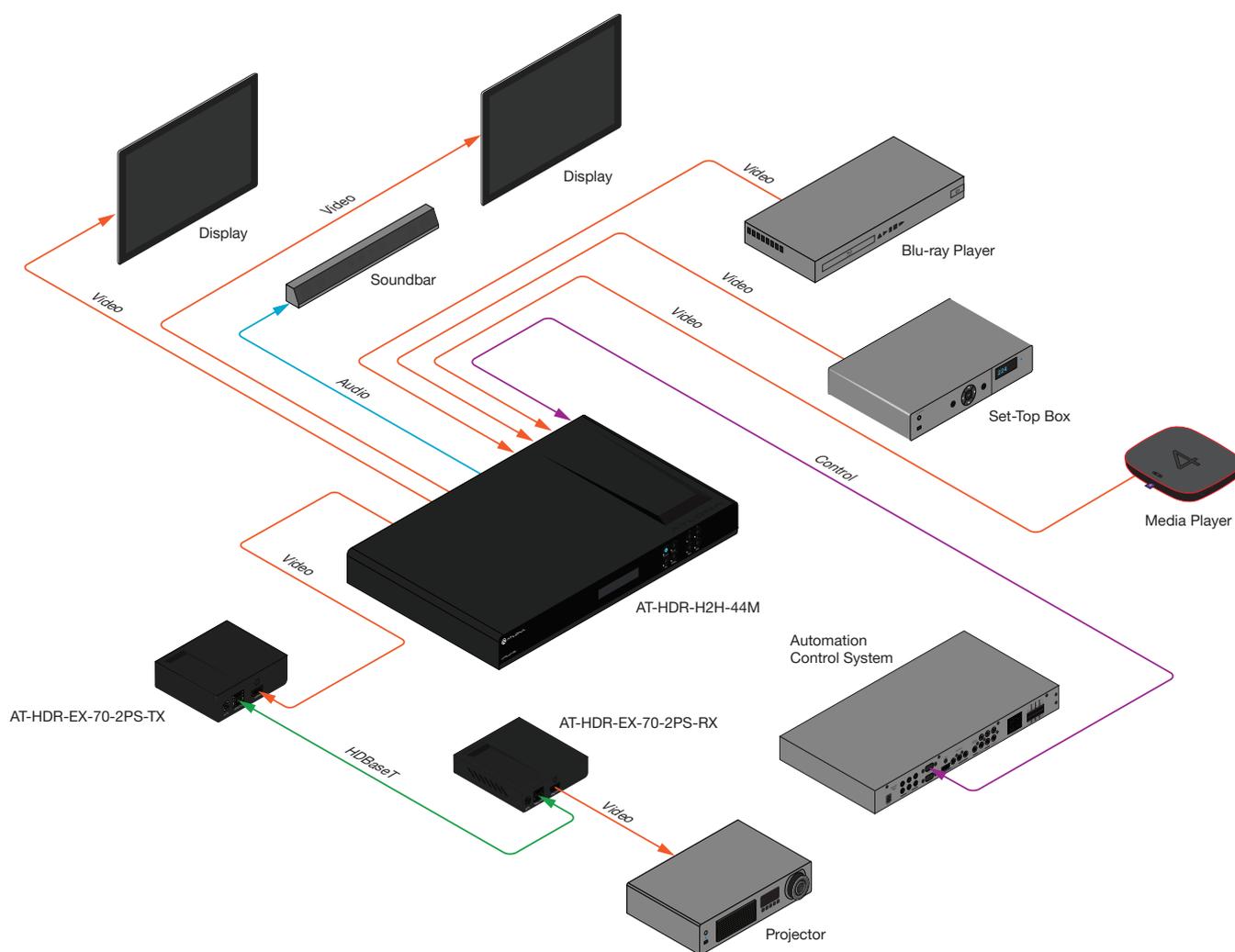
1. Turn the unit upside down.
2. Install each foot using the included feet screws, the rubber grips of the feet should be facing up during installation.
3. Turn the unit right-side up and place it in the desired location.



Connection Instructions

1. Connect up to 4 HDMI sources to the HDMI IN ports.
2. Connect up to 4 HDMI displays to the HDMI OUT ports.
3. For control, connect to the captive screw port for IR and RS-232, or the LAN port for TCP/IP and webGUI.
4. Connect the included 24V power supply to the DC 24V port.
5. Connect the power supply to an AC outlet.

Connection Diagram



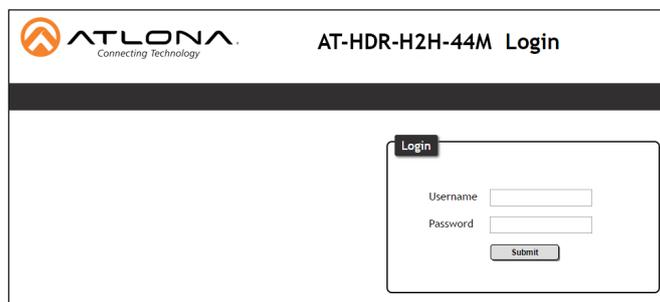
WebGUI

The AT-HDR-H2H-44M includes a built-in webGUI, which allows easy management and control of all features. Follow the instructions below to access the webGUI.

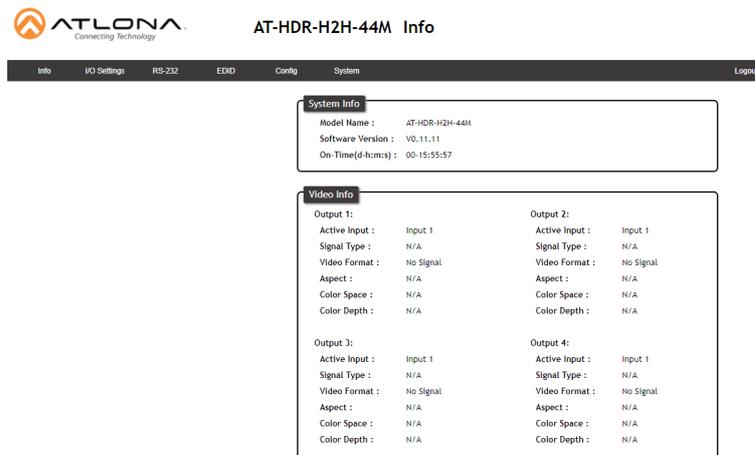
1. Use an IP scanner to determine the IP address of the AT-HDR-H2H-44M.
2. Launch a web browser.
3. In the address bar, type the IP address of the AT-HDR-H2H-44M.
4. Enter the following information on the **Login** page.

Login: **root**
 Password: **Atlona**

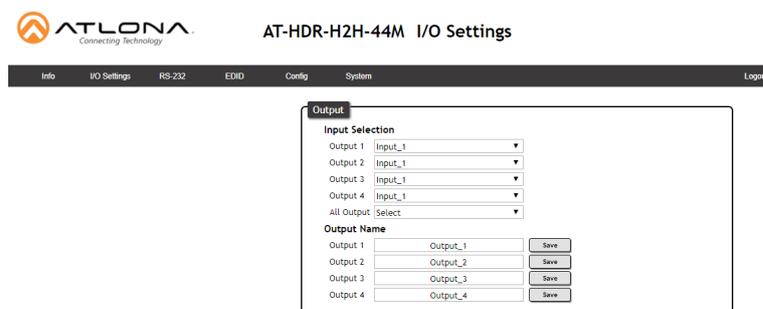
5. Click the **Login** button.



6. The info page will display, giving all the general information of the AT-HDR-H2H-44M.



7. Select **I/O Settings** from the top menu.



Output

Input Selection - Select the input to route to the output.

Output Name - The outputs have the option for labeling to help make routing and switching simpler. Label each output individually. Type the name in the box, and press save.

Input

HDCP Settings

Input 1 ON

Input 2 ON

Input 3 ON

Input 4 ON

Input Name

Input 1

Input 2

Input 3

Input 4

Preset

Store

Recall

Input

HDCP Settings - Toggle HDCP reporting between compliant (on) and non-compliant (off).

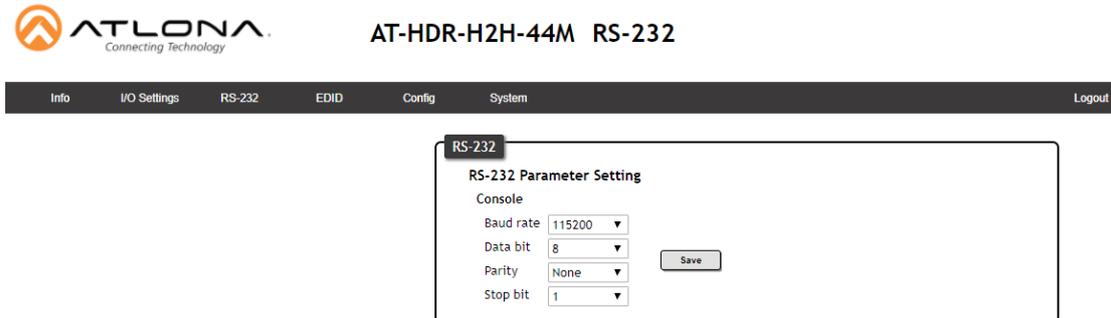
Input Name - The inputs have the option for labeling to help make routing and switching simpler. Label each input individually. Type the name in the box, and press save.

Preset

Store - Save the current I/O route to memory.

Recall - Load a previously saved I/O route.

- 8 Select **RS-232** from the top menu.



ATLONA Connecting Technology AT-HDR-H2H-44M RS-232

Info I/O Settings RS-232 EDID Config System Logout

RS-232

RS-232 Parameter Setting

Console

Baud rate

Data bit

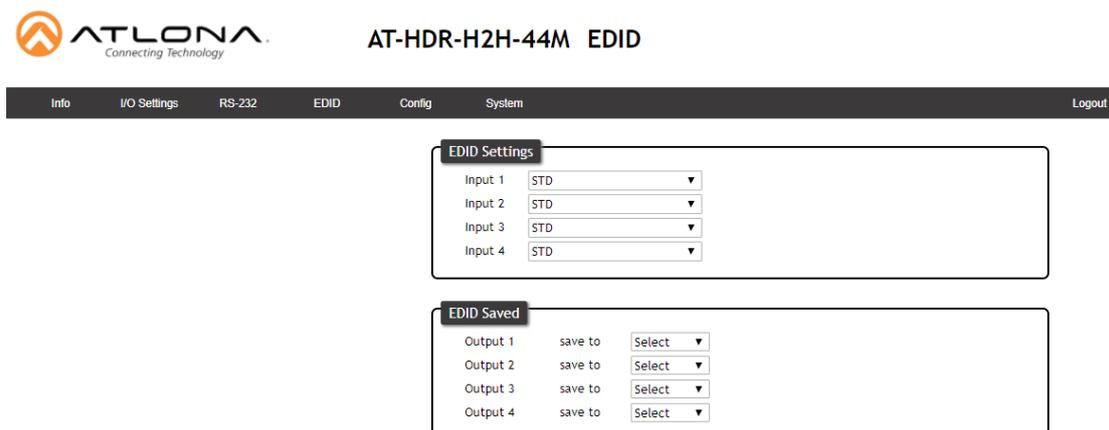
Parity

Stop bit

RS-232 Parameter Setting

Console - Select the baud rate, data bit, parity, and stop bit. Default baud rate, data bit, parity, and stop bit is 1152000, 8, None, and 1.

- 9 Select **EDID** from the top menu.



ATLONA Connecting Technology AT-HDR-H2H-44M EDID

Info I/O Settings RS-232 EDID Config System Logout

EDID Settings

Input 1

Input 2

Input 3

Input 4

EDID Saved

Output 1 save to

Output 2 save to

Output 3 save to

Output 4 save to

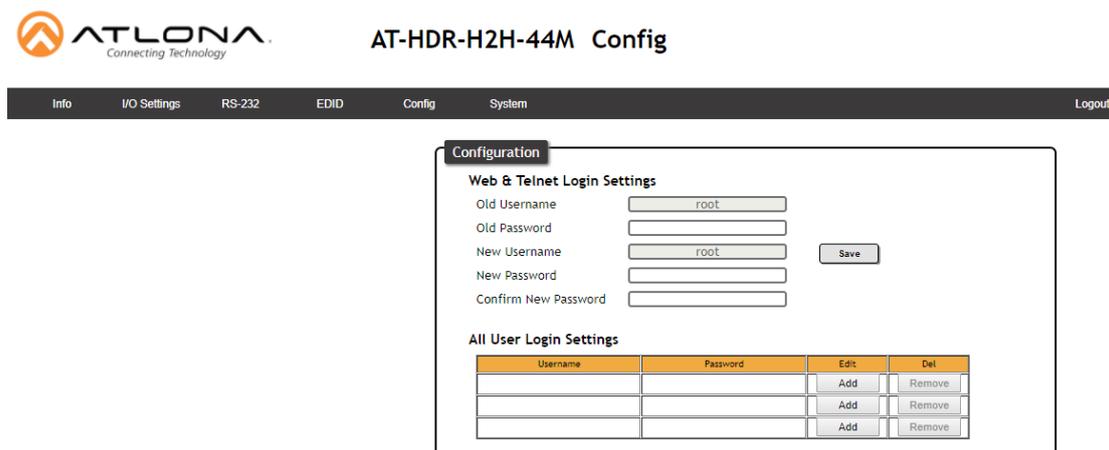
EDID Settings

Input - Select the EDID from the drop down list.

EDID Saved

Save to - Save the output's EDID to memory to be loaded to the inputs.

10 Select **Config** from the top menu.



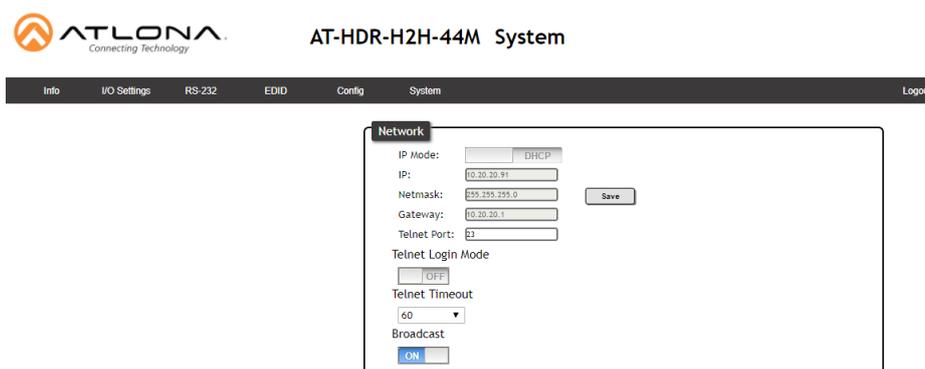
Web & Telnet Login Settings

Password - Update the admin password then press **Save**.

All User Login Settings

Username & Password - Add extra users for control and login.

11 Select **System** from the top menu.



Network

IP Mode - Switch between static and DHCP modes.

IP, Netmask, Gateway, Telnet Port - This will display the current IP settings on DHCP. When set to static, fill in the IP address, netmask, gateway, and telnet port.

Telnet Login Mode - Toggle telnet login mode on and off. If on, a username and password will be required to control the unit via TCP/IP.

Telnet Timeout - Set the amount of time between actions before the current user is logged out.

Broadcast - Toggles broadcast on and off.



System

Power - Toggles the unit between on and standby.

Lock - Lock and unlock the front panel keys.

IR - Turns the IR window on the front of the unit on and off.

Reset to Default - Select to set the unit back to the original factory settings.

Firmware Update - Press **Choose File** to search the local PC for the most recent firmware file. Press **Update** once the file is selected.

Commands

The following tables provide an alphabetical list of commands available on the AT-HDR-H2H-44M. All commands are case-sensitive and must be entered as documented. If the command fails or is entered incorrectly, then the feedback is “Command FAILED”.



IMPORTANT: Each command is terminated with a carriage-return (0x0d) and the feedback is terminated with a carriage-return and line-feed (0x0a).

Command	Description
All#	Resets all inputs to corresponding outputs
Broadcast	Enables, disables, and displays status of broadcast mode
Clear	Erases the saved I/O route settings for the chosen preset number
CSpara	Set RS-232 parameter
EDIDMSet	Sets the EDID of an input to default, internal, or a previously saved EDID
EDIDOut	Saves the output EDID to memory
HDCPSet	Sets HDCP mode of the HDMI ports
HTTPPort	Sets the HTTP port
IPAddUser	Add a user for TCP/IP control
IPCFG	Displays IP address configuration
IPDelUser	Delete a user from TCP/IP
IPDHCP	Turns DHCP on / off
IPLogin	Enables / Disables IPLogin mode
IPPort	Set the TCP/IP port
IPQuit	Logs out of TCP/IP
IPStatic	Sets a static IP address
IPTimeout	Determines amount of seconds of inactivity before TCP/IP disconnects
IROFF	Disables the front panel IR receiver window
IRON	Enables the front panel IR receiver window
Lock	Locks the front panel of the matrix so no buttons are active
Mreset	Sets matrix back to the default settings
PWOFF	Turns the unit off
PWON	Turns the unit on
PWSTA	Displays the power status of the matrix
Recall	Recalls saved I/O route settings for the chosen preset number
Save	Saves I/O route settings for future use, preset options 0 to 8

Command	Description
Status	Displays which inputs are currently connected to which outputs
System	Displays system information about the AT-HDR-H2H-44M
TrigCEC	Triggers the stored CEC command to turn the display on and off
Type	Brings up the model information
Unlock	Unlocks the front panel of the matrix, enabling the buttons again
Version	Brings up the current firmware version
x?All	Sets selected input to all outputs
x?\$	Changes status of output channel
x?AVx?	Switch input to output

All#

Resets all inputs to corresponding outputs

Syntax

All#

Example

All#

Feedback

x1AVx1, x2AVx2, x3AVx3, x4AVx4

Broadcast

Sets how long the front panel power LED blinks

Syntax

Broadcast X

Parameter	Description	Range
X	Variable	on, off, sta

Example

Broadcast sta

Feedback

Broadcast on

Clear

Erases the saved I/O route settings for the chosen preset number

Syntax

ClearX

Parameter	Description	Range
X	I/O preset number	1 to 8

Example

Clear2

Feedback

Clear2

CSpara

Set RS-232 parameters

Syntax

```
CSpara[W,X,Y,Z]
```

Parameter	Description	Range
W	Baud rate	2400, 4800, 9600, 19200, 38400, 57600, 115200
X	Data bits	7, 8
Y	Parity bit	None, Odd, Even
Z	Stop bits	1, 2

Example

```
CSpara[115200,8,0,1]
CSpara[sta]
```

Feedback

```
CSpara[115200,8,0,1]
CSpara [115200,8,0,1]
```

EDIDMSet

Sets the EDID of an input to default, internal, or a previously saved EDID

Syntax

```
EDIDMSetX YZ
```

Parameter	Description	Range
X	Input	1 to 4
Y	EDID type	default, save, int
Z	Variable	save - 1 to 4 int - 1 to 9

Example

```
EDIDMSet1 default
EDIDMSet2 save2
EDIDMSet3 int3
```

Feedback

```
EDIDMSet1 default
EDIDMSet2 save2
EDIDMSet3 int3
```

Internal EDIDs

- 1: 1080p 3D / 2 channel
- 2: 1080p 3D / multichannel (lossless)
- 3: 1080p DVI
- 4: 4K 60 4:2:0 / 2 channel
- 5: 4K 60 4:2:0 / multichannel (HD lossless)
- 6: 4K 60 4:2:0 HDR / 2 channel
- 7: 4K 60 4:2:0 HDR / multichannel (HD lossless)
- 8: 4K 60 4:4:4 8-bit / 2 channel
- 9: 4K 60 4:4:4 8-bit / multichannel (HD lossless)

EDIDOut

Saves the output EDID to memory

Syntax

```
EDIDOut X
```

Parameter	Description	Range
X	Variable	1-4

Example
EDIDOut 1

Feedback
EDIDOut 1

HDCPSet

Sets HDCP mode of the HDMI ports

Syntax

```
HDCPSet X Y
```

Parameter	Description	Range
X	Value	1 ... 2
Y	Value	on, off, sta

Example
HDCPSet 1 on

Feedback
HDCPSet 1 on

HTTPPort

Sets the HTTP port

Syntax

```
HTTPPort X
```

Parameter	Description	Range
X	Port number	0 to 65535

Example
HTTPPort 12

Feedback
HTTPPort 12

IPAddUser

Add a user for TCP/IP control

Syntax

```
IPAddUser X Y
```

Parameter	Description	Range
X	User name	20 characters (max)
Y	Password	20 characters (max)

Example

```
IPAddUser ABCd Y4n
```

Feedback

```
IPAddUser ABCd Y4n
TCP/IP user was added
```

IPCFG

Displays IP address configuration

Syntax

```
IPCFG
```

Example

```
IPCFG
```

Feedback

```
IP Addr: 10.0.1.101
Netmask: 255.255.255.0
Gateway: 10.0.1.1
IP Port: 23
```

IPDelUser

Delete a user from TCP/IP

Syntax

```
IPDelUser X
```

Parameter	Description	Range
X	User	User name

Example

```
IPDelUser ABCd
```

Feedback

```
IPDelUser ABCd
TCP/IP user was deleted
```

IPDHCP

Turns DHCP on / off

Syntax

```
IPDHCP X
```

Parameter	Description	Range
X	Value	on, off, sta

Example

IPDHCP on

Feedback

IPDHCP on

IPLogin

Enables / Disables IPLogin mode

Syntax

```
IPLogin X
```

Parameter	Description	Range
X	Value	on, off, sta

Example

IPLogin off

Feedback

IPLogin off

IPPort

Set the TCP/IP port

Syntax

```
IPPort X
```

Parameter	Description	Range
X	Port	0 to 65535, sta

Example

IPPort 23

Feedback

IPPort 23

IPQuit

Logs out of TCP/IP

Syntax
IPQuit

Example

IPQuit

Feedback

IPQuit

IPStatic

Sets a static IP address

Syntax
IPStatic X Y Z

Parameter	Description	Range
X	IP address	0 to 255 (per byte)
Y	Subnet mask	0 to 255 (per byte)
Z	Gateway (router)	0 to 255 (per byte)

Example

IPStatic 192.168.1.112 255.255.255.0 192.168.1.1

Feedback

IPStatic 192.168.1.112 255.255.255.0 192.168.1.1

IPTimeout

Determines amount of seconds of inactivity before TCP/IP disconnects

Syntax
IPTimeout X

Parameter	Description	Range
X	Interval (in seconds)	1 to 60000

Example

IPTimeout 300

Feedback

IPTimeout 300

IROFF

Disables the front panel IR receiver window

Syntax
IROFF

Example

IROFF

Feedback

IROFF

IRON

Enables the front panel IR receiver window

Syntax

IRON

Example

IRON

Feedback

IRON

Lock

Locks the front panel of the matrix so no buttons are active

Syntax

Lock

Example

Lock

Feedback

Lock

Mreset

Sets matrix back to the default settings

Syntax

MReset

Example

Mreset

Feedback

Mreset

PWOFF

Turns the unit off

Syntax

PWOFF

Example

PWOFF

Feedback

PWOFF

PWON

Turns the unit on

Syntax

PWON

Example

PWON

Feedback

PWON

PWSTA

Displays the power status of the matrix

Syntax
PWSTA

Example
PWSTA

Feedback
PWON

Recall

Recalls saved I/O route settings for the chosen preset number

Syntax
Recall

Example
Recall

Feedback
Recall

Save

Saves I/O route settings for future use, preset options 0 to 8

Syntax
SaveX

Parameter	Description	Range
X	Channel	0 to 8

Example
Save1

Feedback
Save1

Status

Displays which inputs are currently connected to which outputs

Syntax
Status

Example
Status

Feedback
x1AVx2, x2AVx3, x3AVx2, x4AVx1

System

Displays system information about the AT-HDR-H2H-44M

Syntax

```
System X
```

Parameter	Description	Range
X	Status	sta

Example

```
System sta
```

Feedback

```
Model: AT-HDVS-200-TX
MAC Addr: b8-98-b0-00-10-e6
Address Type: DHCP
IP Addr: 10.0.1.161
Netmask: 255.255.255.0
Gateway: 10.0.1.1
HTTP Port: 80
Telnet Port: 23
Firmware: 1.1.28
On/Up Time <dd HH:mm:ss>: 00 00:53:31
```

TrigCEC

Triggers the stored CEC command to turn the display on and off

Syntax

```
TrigCEC X
```

Parameter	Description	Range
X	Value	on, off, vol+, vol-, mute

Example

```
TrigCEC on
```

Feedback

```
TrigCEC on
```

Type

Brings up the model information

Syntax

```
Type
```

Example

```
Type
```

Feedback

```
AT-HDR-H2H-44M
```

Unlock

Unlocks the front panel of the matrix, enabling the buttons again

Syntax

```
Unlock
```

Example

```
Unlock
```

Feedback

```
Unlock
```

Version

Brings up the current firmware version

Syntax

```
VersionX
```

Parameter	Description	Range
X	Value	MCU, OSD,

Example

```
VersionMCU
```

Feedback

```
V1.0.00
```

x?All

Sets selected input to all outputs

Syntax

```
x?All
```

Parameter	Description	Range
?	Input	0 to 4

Example

```
x3All
```

Feedback

```
x3All
```

x?\$

Changes status of output channel

Syntax

x?\$ Y

Parameter	Description	Range
X	Output	0 to 4
Y	Variable	on, off, sta

Example

x2\$ sta

Feedback

x2\$ on

x?AVx?

Switch input to output

Syntax

x?AVx&

Parameter	Description	Range
?	Input	0 to 4
&	Output	0 to 4

Example

x1AVx3

Feedback

x1AVx3

Appendix

Specifications

Video		
UHD/HD/SD	4096×2160@24/25/30/50/60Hz, 3840×2160@24/25/30/50/60Hz, 2048×1080p, 1080p@23.98/24/25/29.97/30/50/59.94/60Hz, 1080i@50/59.94/60Hz, 720p@50/59.94/60Hz, 576p, 576i, 480p, 480i	
VESA	2560×2048, 2560×1600, 2048×1536, 1920×1200, 1680×1050, 1600×1200, 1600×900, 1440×900, 1400×1050, 1366×768, 1360×768, 1280×1024, 1280×800, 1280×768, 1152×768, 1024×768, 800×600	
Color Space	YUV, RGB	
Chroma Sampling	4:4:4, 4:2:2, 4:2:0	
Color Depth	8-bit, 10-bit, 12-bit	
Audio		
HDMI IN / OUT	PCM 2Ch, LPCM 5.1, LPCM 7.1, Dolby® Digital, DTS® 5.1, Dolby Digital Plus™, Dolby TrueHD, DTS-HD Master Audio™, Dolby Atmos®, DTS:X®	
Sample Rate	32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz	
Bit Rate	up to 24-bit	
Distance	Feet	Meters
HDMI IN / OUT @ 4K	15	5
HDMI IN / OUT @ 1080p	30	10
Signal		
Bandwidth	18 Gbps	
CEC	Yes	
HDCP	2.2	
Temperature	Fahrenheit	Celsius
Operating	32 to 122	0 to 50
Storage	-4 to 140	-20 to 60
Humidity (RH)	20% to 90%, non-condensing	
Power		
Consumption	30 W	
Idle Consumption	2 W	
Supply	Input: 110 - 240 V AC, 50 / 60 Hz Output: 24 V DC, 2.7 A	
Dimensions	Inches	Millimeters
H x W x D	1.73 x 17.24 x 10.00	44.00 x 438.00 x 254.00
H x W x D, w/feet/ears	2.18 x 18.93 x 10.23	55.50 x 481.00 x 260.00
Rack Size	1 RU	

Weight	Pounds	Kilograms
Device	8.81	4
Certification		
Power Supply	CE, FCC, UL, and LVD certificates Level VI compliant	
Unit	CE, FCC	

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