

Atlona HDMI to HDBaseT Matrix Switcher

AT-PRO2HD88M & AT-PRO2HD1616M (pictured below)



User Manual

Revision C: Firmware 1.1.25

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Revision C (3/22/13):

Firmware Version
Internal EDID feature added

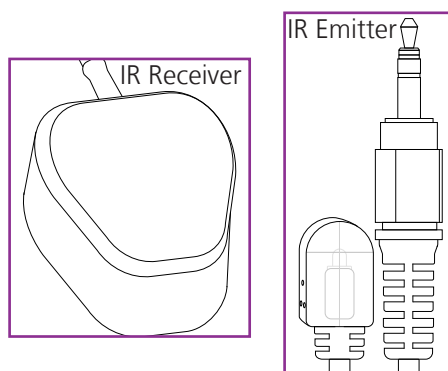
1.1.25
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Introduction

Extend HDMI and DVI (with HDMI to DVI adapter ex. AT-14040) sources up to 328ft at 1080p or 1920x1200. The Atlona HDMI to HDBaseT matrix switcher allows for effortless control of up to 32 devices through IR remote control, RS-232, 3rd party IR controllers and the front panel. With stereo audio embedding combine stereo audio with DVI signals over category cable. To ensure all audio passes through the matrix switcher supports all Lossy and Lossless formats of Dolby and DTS. The AT-PRO2HD delivers the best quality available with pass through of up to 1080p, 1920x1200, 3D, and Dolby TrueHD and DTS-HD Master audio signals.

Package Contents

- 1 x HDBaseT to HDMI Matrix Switcher
- 1 x IR Receiver
- 9/17 x IR Emitter
- 2 x 24V/6.25A DC adaptor
- 2 x Power Cord
- 1 x Remote Control
- 1 x User Manual



Features

- HDBaseT allows IR, RS-232, audio and visual signals to pass over a single CAT5e/6/7 cable.
- IR ports for zone dedicated control through IR remote control and 3rd party IR controllers.
- Programmable I/O memories, save multiple routes for faster switching to the most commonly used configurations.
- EDID learning function for multiple video display EDIDs.
- Built in internal EDID mode provides 12 individual EDIDs to ensure compatibility
- Multiple control interfaces such as RS-232, IR, and the front panel.
- Dolby TrueHD and DTS-HD Master Audio pass through HDMI output interface.
- Compatible with DVI/D (with DVI/D to HDMI adapter such as AT14040), allowing DVI/D source signal to be passed to displays.
- Audio embedding enabled with DVI/D sources. The built in 3.5mm audio import port allows DVI/D audio to be passed through with the CAT5e/6/7 connection to HDMI displays.
- HDCP compliant

Before You Start

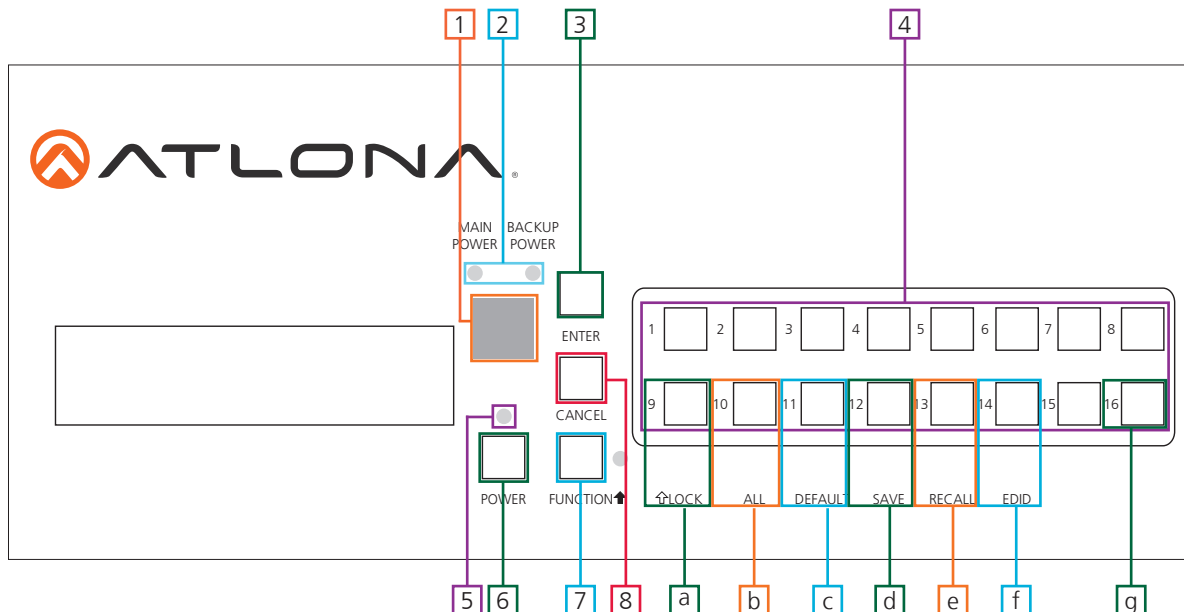
- Make sure when connecting the category cables a 568B termination method is used.
- Avoid using patch panels and wall plates during initial set up and testing of the matrix switcher.
- Make sure the matrix is connected to a component surge suppressor and line conditioner.

Note: Atlona's warranty does not cover damage due to electrical disturbances. A component surge suppressor and line conditioner are highly suggested especially in areas with electrical storms.

- Be sure you're using a mono to mono (2 conductor) 3.5mm IR cable when using IR output control from 3rd party control boxes, stereo (3 conductor) 3.5mm cables are not compatible.

Panel Description

Front Panel



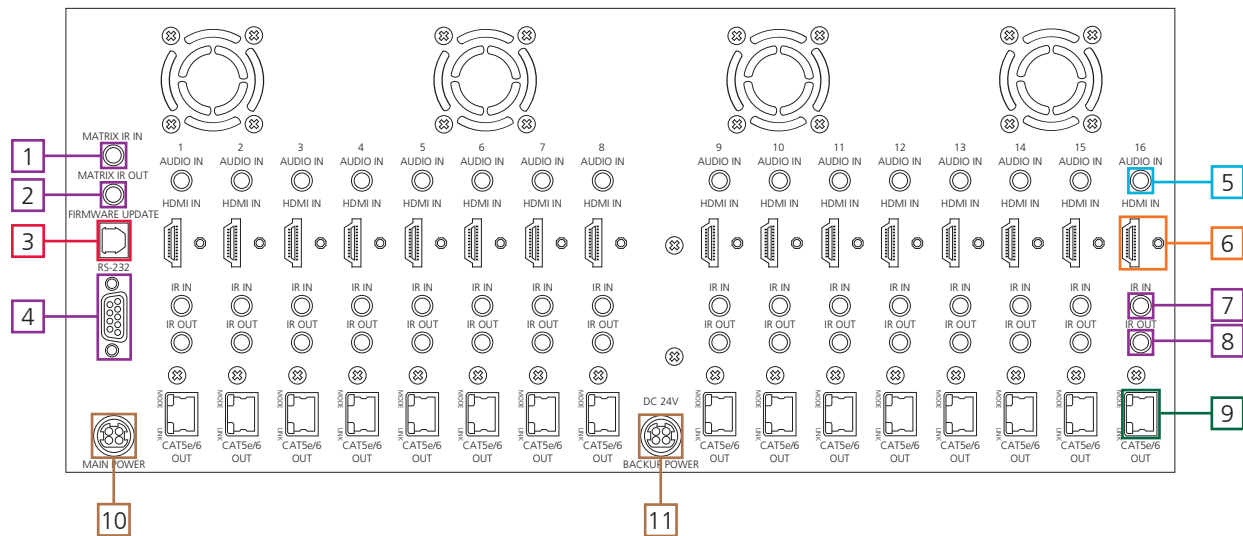
1. IR Receiver Window - Receives the signal from the included IR Remote Control or a 3rd party control box.
2. Power Supply Indicators - Red LED will illuminate when using main or backup power supply.
3. Enter Button - Use to view current status for inputs and outputs or to confirm a command.
4. Number buttons - Use these buttons to select input and output paths or use with the function button to change multiple matrix settings.
5. Power Indicator - The light will illuminate red when the Matrix is in standby mode or green when the matrix is on.
6. Power Button - Cycles the power between on or off (standby) mode.
7. Function Button - Allows you to select command options.
 - a. **Lock:** Locks all the panel keys so nothing can be altered until unlocked.
 - b. **All:** Save a single input to all the outputs with this function.
 - c. **Default:** Mirrors all inputs to corresponding outputs. (i.e. 1 to 1, 2 to 2, 3 to 3, etc.)
 - d. **Save:** Save the current input and output route to memory. Up to 8 programmable memories.
 - e. **Recall:** Load the input and output routes that you have previously saved.
 - f. **EDID:** Save/Load EDIDs to individual inputs.

Note: Default setting for EDID is the highest common HD resolution of all connected devices. (i.e. if you have resolutions ranging 720p, 1080i, and 1080p then 720p would be the default resolution for all connected displays.)

- g. **Firmware:** This function option will display the current firmware the Matrix has installed.
8. Cancel Button - Within the functions menu use to go back one screen or to the home screen.

Note: You cannot power off or change functions unless you go to the home screen.

Back Panel



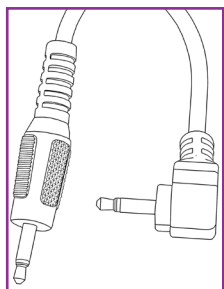
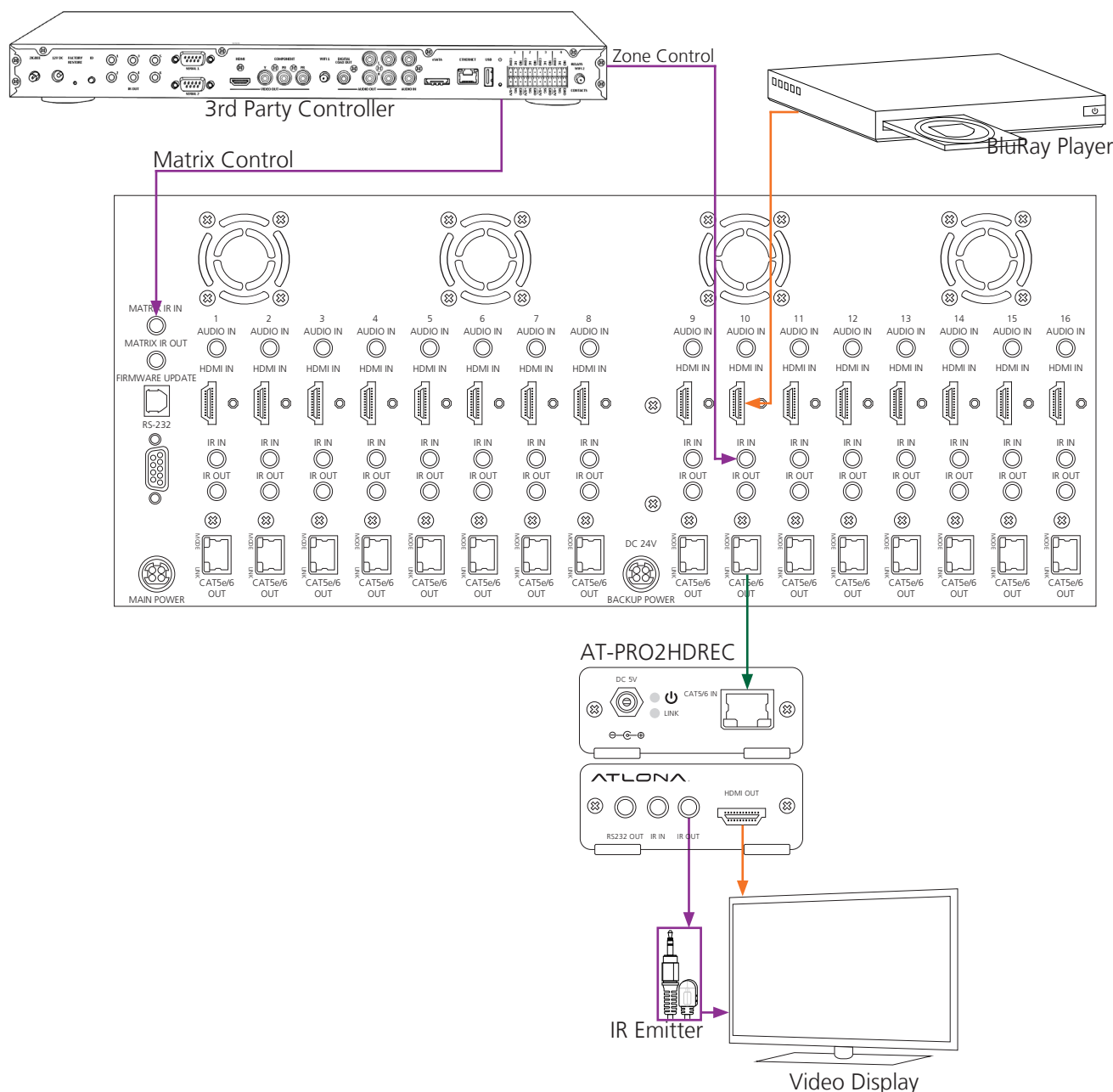
1. Matrix IR IN - Used to control matrix I/O switching from a 3rd party IR control box.
2. Matrix IR Out - Global output, combines IR for all incoming zones.
3. Firmware Update - Type B USB Port used for updating matrix firmware
4. RS-232 - Connect to this port for control from a computer or 3rd party control box.
5. Audio Input Ports - 3.5mm stereo audio port enabled only when a DVI/D adaptor is connected, disabled when HDMI cable is connected.
6. HDMI Input Ports - Connect HDMI sources into these ports, such as DVD players, BluRay players, computers, etc.
7. IR 3.5mm mono In ports - Used in conjunction with 3rd IR party control box to extend IR control commands to video displays over category cable.

Note: Be sure you're using a mono to mono 3.5mm IR cable (i.e. AT-MINIMONO6) for 3rd party control boxes, stereo 3.5mm cables are not compatible.

8. IR Out ports - Sends IR signal to sources through a 3.5mm mono IR emitter
9. CAT5e/6/7 (RJ45) Output ports - Extends video and bidirectional RS-232, IR, and audio signals through a single category cable.
10. Main Power - Use included 24V/6.25A DC adaptor to power the matrix switcher
11. Backup Power - Redundant power supply in case the main power supply fails. Includes a second 24V/6.25A DC adaptor.

Connection and Installation

3rd Party Controller Set Up

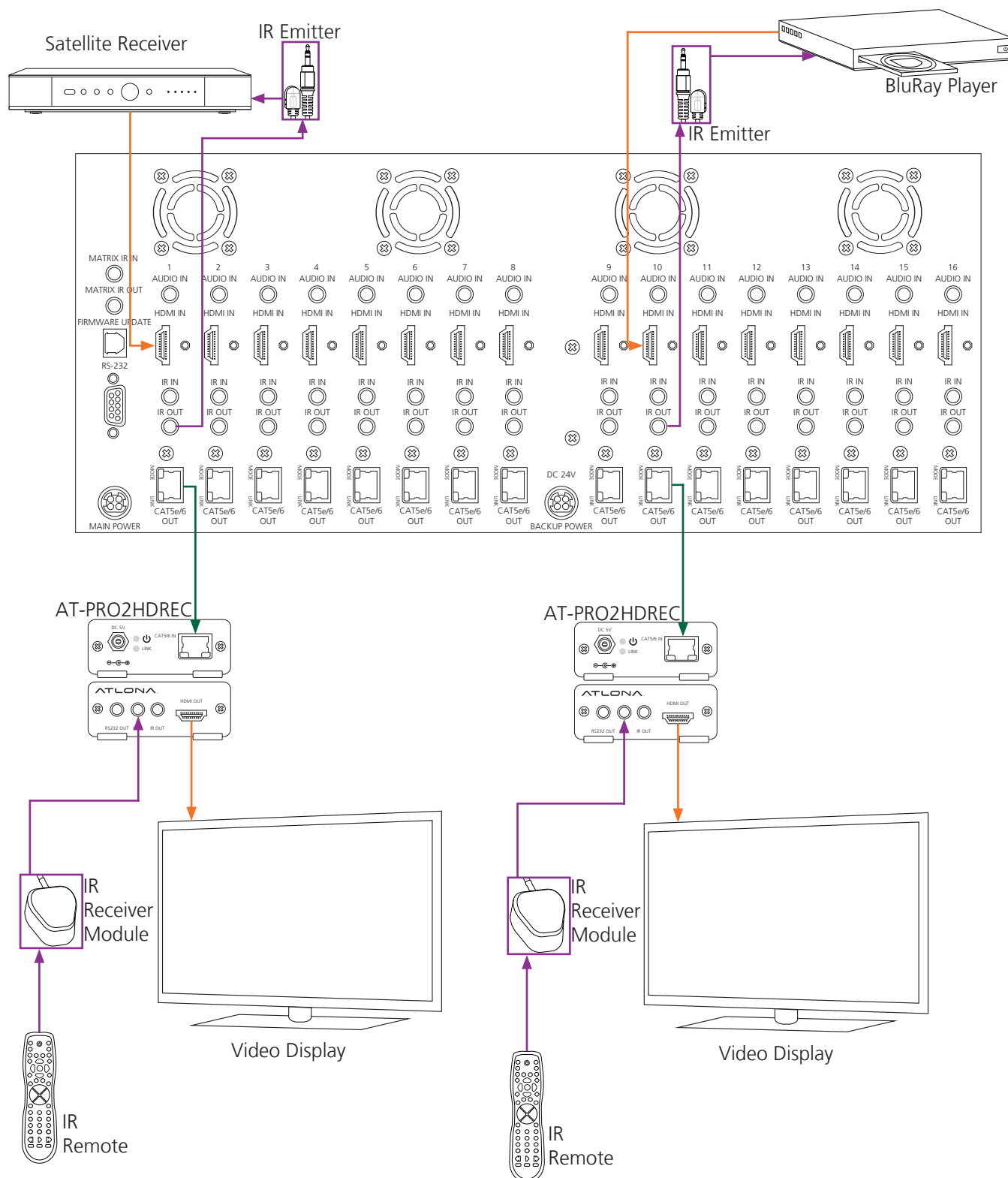


With the new feature of the IR in ports the AT-PRO2HD has the unique ability to receive IR commands through a 3rd party controller and send it out through the CAT5e/6 port to control the displays in any zone.

Note: Be sure to use a mono to mono (2 conductor) 3.5mm IR extender from the 3rd party controller to the AT-PRO2HD.

IR Remote Control Set Up

Note: When using an IR remote control all sources can be controlled as well as the local display.



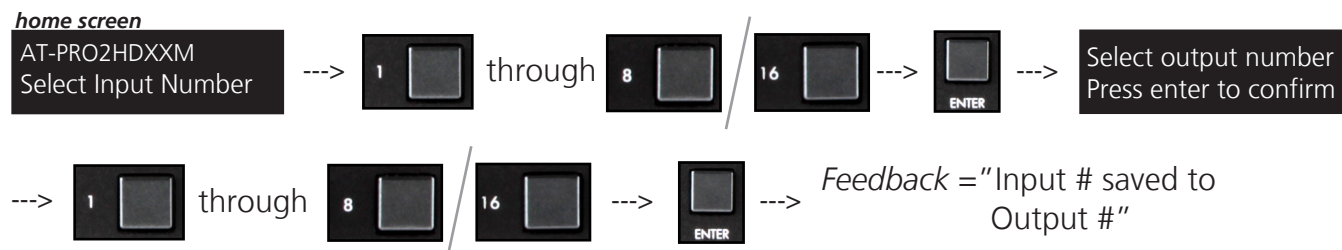
Matrix Front Panel Functions

The AT-PRO2HD's front panel has 3 functions: I/O control, EDID set up, and matrix settings. The following sections go over step by step setup & control.

I/O Control

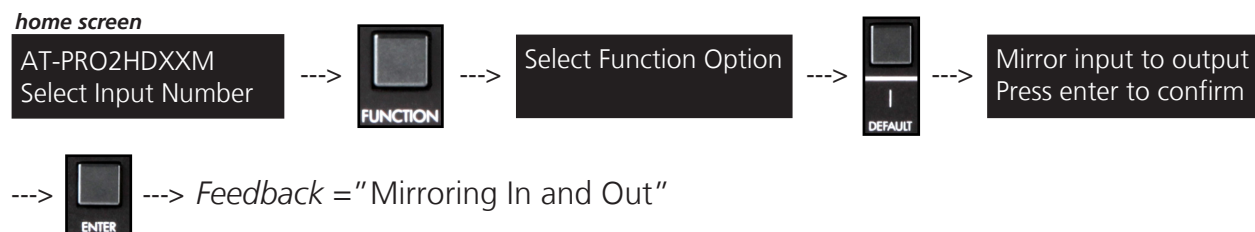
To **set** an input to an output

(I.E. Input 1 to output 2)



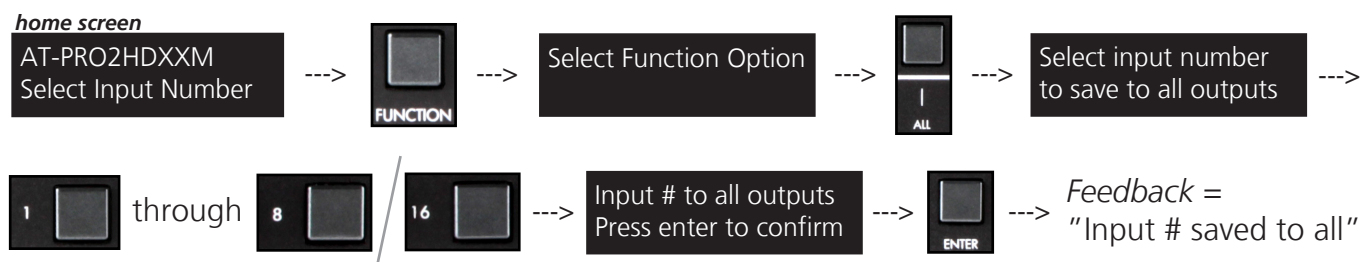
To **mirror** all inputs and outputs

(I.E. Input 1 to output 1, input 2 to output 2, etc.)



To **route** one input to all outputs

(I.E. Input 1 to output 1, 2, 3, and 4)



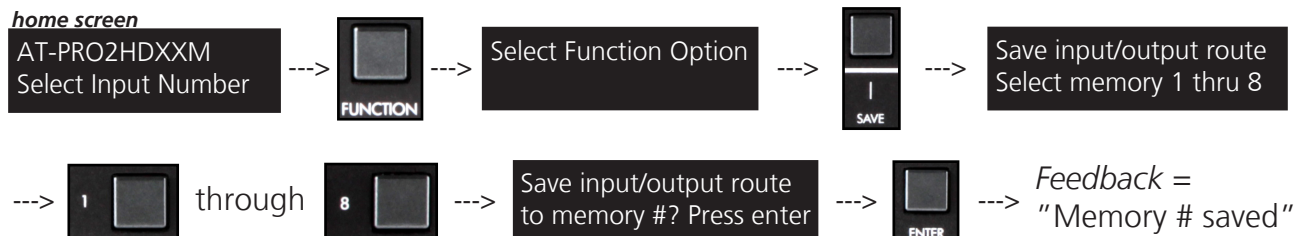
I/O Route Memory

Once inputs and outputs have been set they can be saved to memory and recalled later. Up to 8 individual input/output routes can be saved. The route will remain in memory until a new route has been saved to that memory number or the matrix has been factory reset.

example route

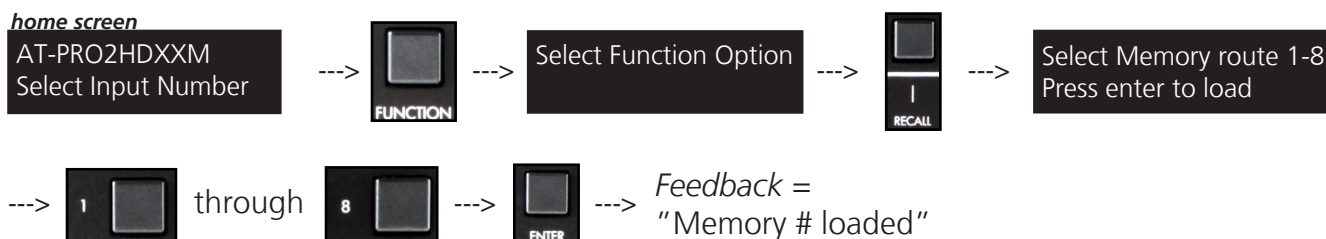
O:	1	2	3	4	5	6	7	8
I:	5	4	8	16	11	1	3	2

To **save** an I/O route to memory



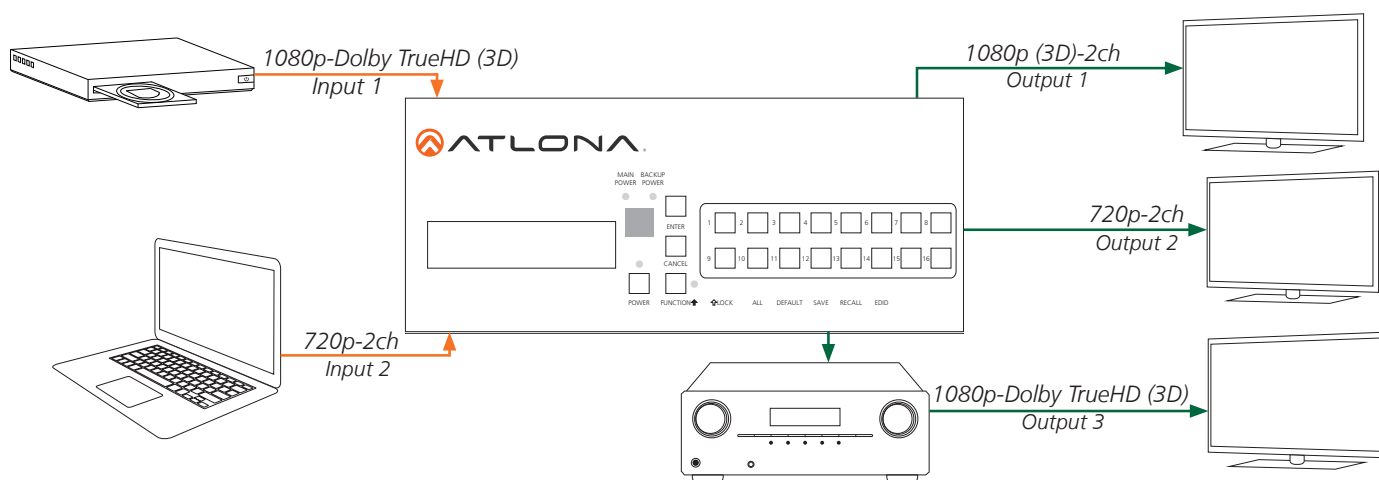
To **load** a saved I/O route

Once an input/output route has been saved, it can be loaded at any time.



EDID Set Up

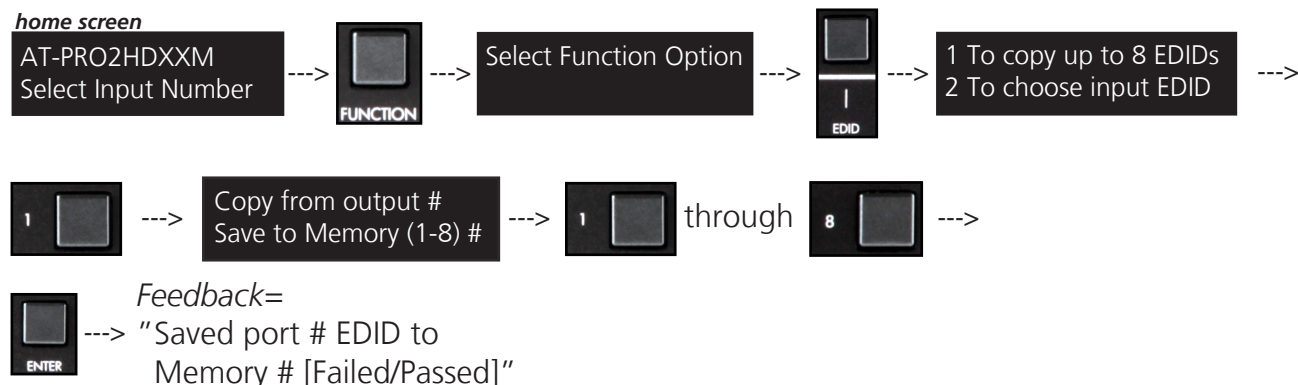
When the matrix is completely connected and turned on it will load the **default EDID**, which is the highest common native resolution of the devices. (i.e. In the diagram below the default would be 720p with 2ch audio. **Multi-channel audio and 3D are not enabled on internal mode, unless all devices have these features.**)



On default, all devices in the diagram will work at 720p. If a device is not syncing or a different resolution is required, internal EDID or EDID copy and load should resolve these issues. The PRO2HD can copy up to 8 EDIDs to memory.

Step 1: copy an EDID

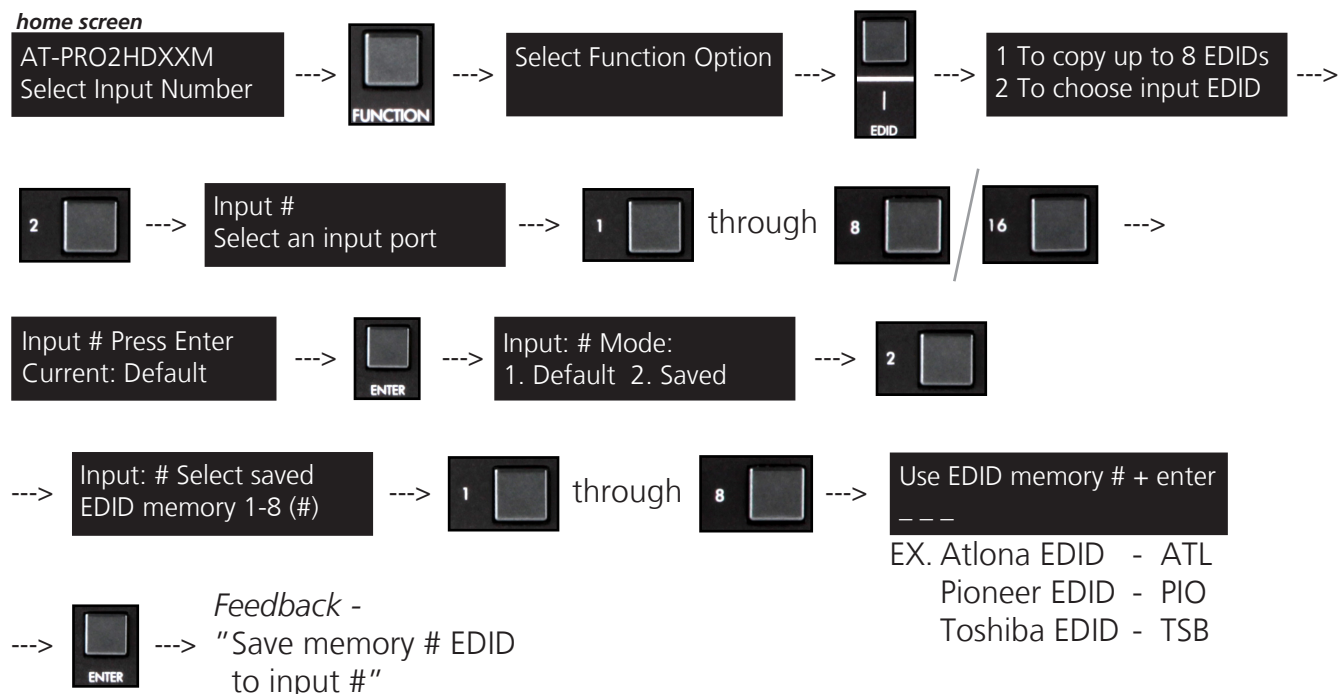
Before an EDID can be loaded to an input, it must first be copied to the matrix's memory. Each display's EDID can be saved individually to one of the matrix's four preset EDID memories.



Step 2: load a copied EDID onto an input

Once EDIDs have been copied to memory they can be loaded to a specific input.

Note: (refer to the diagram on page 9) Using the EDID of output 3 with input 1 will enable 1080p, 3D, and Dolby TrueHD to pass. Output 2 will receive no audio or video and output 1 will receive no audio with these settings.



Step 3: Load an internal EDID on an input

If the first two steps don't produce the correct resolution or audio configuration, the twelve internal EDIDs should resolve the issue.

Internal EDID options

EDID 1: 1080P 2CH audio
 EDID 2: 1080P multichannel audio*
 EDID 3: 1080P Dolby Digital 5.1**
 EDID 4: 1080P 3D 2CH audio
 EDID 5: 1080P 3D Multi Channel Audio*
 EDID 6: 1080P 3D Dolby Digital 5.1**
 EDID 7: 720P 2CH audio
 EDID 8: 720P Dolby Digital 5.1**
 EDID 9: 1280x800 RGB 2CH Audio
 EDID 10: 1366x768 RGB 2CH audio
 EDID 11: 1080P DVI***
 EDID 12: 1280x800 DVI***

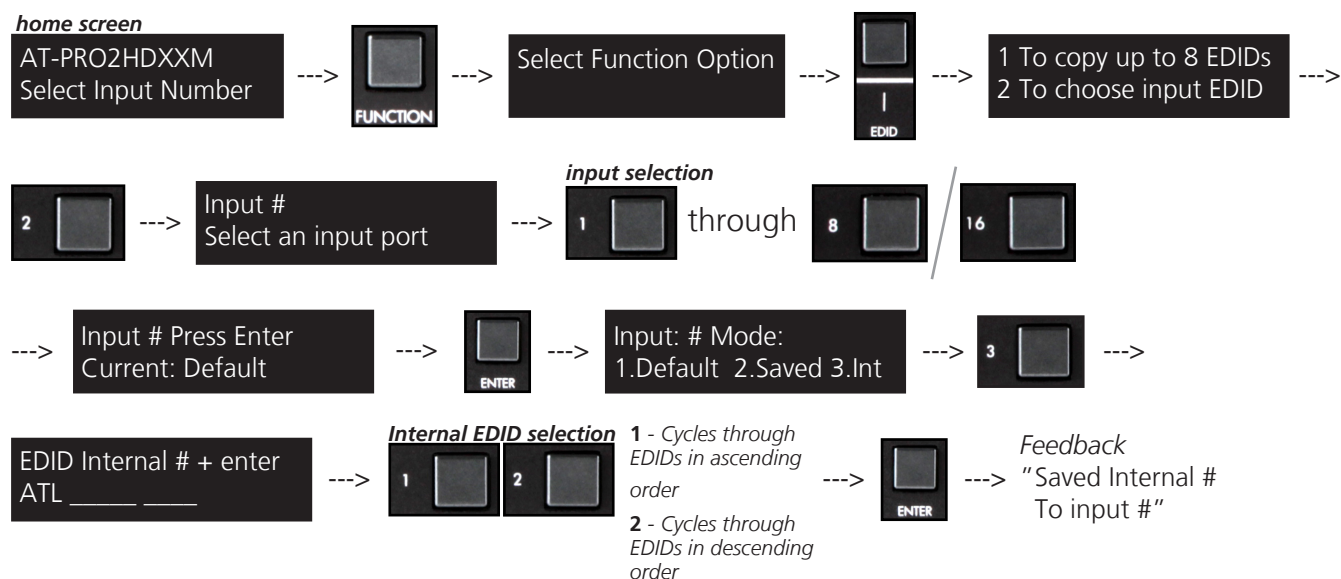
Front panel display readout

ATL 1080P 2CH
 ATL 1080P Multi CH
 ATL 1080P DD
 ATL 1080P 3D 2CH
 ATL 1080P 3D Multi CH
 ATL 1080P 3D DD
 ATL 720P 2CH
 ATL 720P DD
 ATL 1280x800 RGB 2CH
 ATL 1366x768 RGB 2CH
 ATL 1080P DVI
 ATL 1280x800 RGB DVI

* Recommended EDID for use of an AVR

** Recommended EDID for use of the S/PDIF audio de-embedding

*** Recommended EDID for use of DVI projectors



RS-232 commands:

To access the different EDIDs through RS-232 the following commands must be used.

Command	Feedback	Description
EDIDMSetX default	EDIDMSetX default	Sets the EDID of an input to the default EDID Ex. EDIDMset2 default - sets input 2 to default
EDIDMSetX saveY	EDIDMSetX saveY	Sets the EDID of an input to the previously saved EDID memory Ex. EDIDMset1 save3 - sets input 1 to the EDID memory 3
EDIDMSetX intZ	EDIDMSetX intZ	Sets the EDID of an input to one of the internal EDIDs Ex. EDIDMset3 int6 - sets input 3 to the internal EDID - 1080p 3D Dolby Digital 5.1

Matrix Settings

When installing or troubleshooting it's important to verify settings, or be able to come back to a project and see how it was set up. The AT-PRO2HD has matrix settings viewable through the front panel. View current I/O settings, firmware version, and the baud rates of not just the matrix but extenders as well.

View I/O settings

home screen

AT-PRO2HDXXM
Select Input Number



O 1 2 3 4 5 6 7 8
I x x x x x x x x



O 9 10 11 12 13 14 15 16
I x x x x x x x x

View Firmware/Baud Rate settings

home screen

AT-PRO2HDXXM
Select Input Number



Select Function Option

PRO2HD88

PRO2HD1616

8

16

Hold for
5 seconds

AT-PRO2HDXXM
FW Ver: X.X.XX



AT-PRO2HDXXM
Console: X X X X
Matrix Baud Rate

EX. 115200 8 None 1
OR
9600 8 ODD 0



AT-PRO2HDXXM
Port 1: X X X X
Output Baud Rate

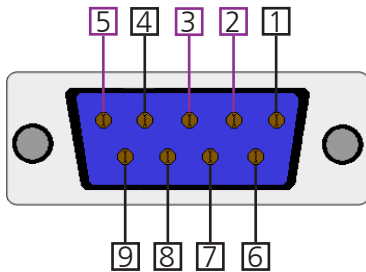


Press 5 to cycle through
the baud rates of each
output port.

RS-232

Connection

RS-232 is connected through a 9-pin female D connector. The pins will have functions associated with them, some will be unassigned.



No.	Pin	Function
1	----	Not used
2	Tx	Transmit
3	Rx	Receive
4	----	Not used
5	Gnd	Ground
6	----	Not used
7	----	Not used
8	----	Not used
9	----	Not used

Command

The command codes are case sensitive, do not change capitalization, spacing, or lettering.

Command	Feedback	Description
Type	(Model #)	Brings up the model information
Lock	Lock	Locks the front panel of the Matrix switcher so no buttons are active
Unlock	Unlock	Unlocks the front panel of the Matrix switcher, enabling buttons
Version	(Firmware #)	Brings up the firmware version
RS232zoneX[command]	RS232zoneX[command]	Send commands to devices connected to the receiver RS-232 ports. Commands are the same as the ones stated in this table. X = zone number
ex: RS232zone1[PWON]	ex: RS232zone1[PWON]	Ex: Turning the power on for the device connected in zone 1
PWON	PWON	Power on
PWOFF	PWOFF	Power off
PWSTA	PWx	Will display the power status of the matrix (ex. Power is on = PWON)
Statusx1	x7AVx1	Shows what input is connected to selected output
Status	x1AVx1, x2AVx2, x3AVx4,	Displays which inputs are currently connected to which outputs
SaveY (ex. Save2)	SaveY (ex. Save2)	Saves settings for future use, preset options 0 to 9
RecallY (ex. Recall2)	RecallY (ex. Recall2)	Recalls saved settings for the number you selected
ClearY (ex. Clear2)	ClearY (ex. Clear2)	Erases the save for the number you selected
x1All	x1All	Sets selected input to all outputs (x3All would set input 3 to all)
x1#	x1#	Sets input to corresponding output (x4# would set input 4 to output 4)
All#	All#	Resets all inputs to corresponding outputs (in3 to out3)
x1\$	x1\$	Turns off output channel (to turn off output 3 = x3\$)
All\$	All\$	Turns off all output channels
x1AVx2	x1AVx2	Switch input to output (input 3 to output 5 = x3AVx5)
x1AVx2,x3,x4	x1AVx2,x3,x4	Switch input to multiple outputs (input 3 = x3AVx1,x2)
Mreset	Mreset	Sets matrix back to the default settings

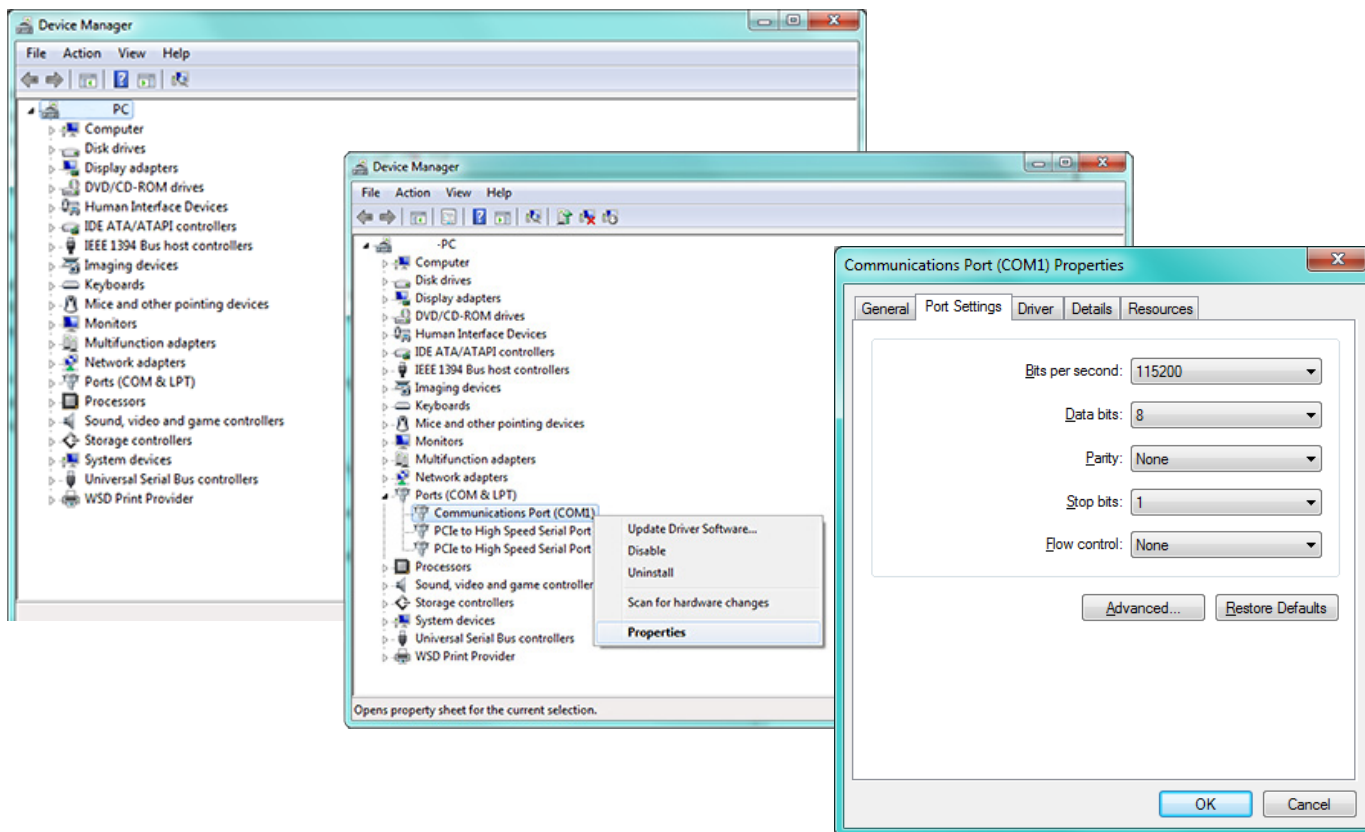
Each command is terminated with a carriage return.

Each Feedback is terminated with a carriage return and line feed.

Note: If the command fails or is incorrect the feedback should be "Command FAILED"

RS-232 Set Up

To set up the RS-232 hyperterminal (if not using 3rd party software) the first thing needed is to find the RS-232 communications port under the computer's device manager. Once there right click the port and select properties. Under the properties menu select the port settings tab and update the menu to the matrix default: Bits Per Second: 115200, Data Bits: 8, Parity: None, Stop Bits: 1 and Flow Control: None.



Baud Rate

To change the baud rate of the matrix or the receivers (i.e. AT-PRO2HDREC) an RS-232 hyperterminal will be needed. Once the RS-232 hyperterminal is set up changing the baud rate will be done with a command line. **The baud rate for the matrix is for matrix control and the receiver baud rate is for control of the RS-232 device in the zone being altered.**

Note: Baud Rate must be only 2400, 4800, 9600, 19200, 38400, 57600, or 115200

Command for Matrix baud rate

CSpara[baudrate,data-length,parity,stop-bit] (data, parity, and stop for matrix must be 8,0,1)

For example if you wish to change the baud rate to 38400 the command would look like this:

CSpara[38400,8,0,1]

Command for Receiver baud rate status

RS232para

The RS-232 status command will provide feedback for the current parameters for each output.

Example: (See example of feedback below)

RS232para

Current RS232 parameter:

- Port 1 :BaudRate 2400bps, DataBits 0, Parity None, StopBits 1.
- Port 2 :BaudRate 9600bps, DataBits 0, Parity ODD, StopBits 1.
- Port 3 :BaudRate 9600bps, DataBits 0, Parity None, StopBits 1.
- Port 4 :BaudRate 9600bps, DataBits 0, Parity None, StopBits 1.
- Port 5 :BaudRate 19200bps, DataBits 0, Parity None, StopBits 1.
- Port 6 :BaudRate 9600bps, DataBits 0, Parity None, StopBits 1.
- Port 7 :BaudRate 9600bps, DataBits 0, Parity None, StopBits 1.
- Port 8 :BaudRate 9600bps, DataBits 0, Parity None, StopBits 1.
- Port 9 :BaudRate 38400bps, DataBits 0, Parity None, StopBits 1.
- Port 10 :BaudRate 9600bps, DataBits 0, Parity None, StopBits 1.
- Port 11 :BaudRate 9600bps, DataBits 0, Parity None, StopBits 1.
- Port 12 :BaudRate 9600bps, DataBits 0, Parity None, StopBits 1.
- Port 13 :BaudRate 9600bps, DataBits 0, Parity None, StopBits 1.
- Port 14 :BaudRate 9600bps, DataBits 0, Parity None, StopBits 1.
- Port 15 :BaudRate 57600bps, DataBits 0, Parity None, StopBits 2.
- Port 16 :BaudRate 9600bps, DataBits 0, Parity None, StopBits 1.

Note: Default for the outputs is: Baud-9600bps, Data length-8bit, Parity-None, Stop Bit-1

The ability to check baud rate status on the outputs will help to identify control compatibility for in zone RS-232 devices.

Command for Receiver (output zone) baud rate

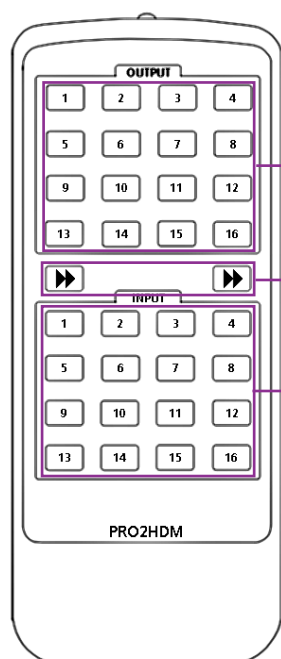
RS232paraX[baudrate,data-length,parity,stop-bit]

X represents the zone# (output#), the data length must be 7 or 8, parity bit will be 0 for none, 1 for odd, 2 for even, and the stop-bit must be 1 or 2.

For example if you wish to change the baud rate to 19200, data length 8, ODD parity, and 1 stop-bit on the receiver in zone 6 to 19200 the command would look like this:

RS232para6[19200,8,1,1]

Remote Control



Output selection. Numbers correspond with the CAT5e/6/7 category cable outputs on the matrix.

Arrow buttons are not functional for this product.

Input selection. Numbers correspond with the HDMI inputs on the matrix.

Specifications

Resolutions

Video	480i, 480p, 576i, 576p, 720p50/60, 1080i50/60, 1080p24/50/60
VESA	640x480, 800x600, 1024x768, 1280x1024, 1360x768, 1600x1200, 1920x1200
Colorspace	RGB, YCbCr 4:4:4, YCbCr 4:2:2
Color depth	8-bit, 10-bit, 12-bit

Audio

Formats	PCM 2Ch, LPCM 5.1, LPCM 7.1, Dolby Digital, DTS 5.1 Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio
Sample Rate	32KHz, 44.1KHz, 48KHz, 88.2KHz, 96KHz, 176.4KHz, 192KHz

Distance

HDMI	10 meters	30 feet
CAT	100 meters	328 feet

Signal

Bandwidth	6.75 Gbps
CEC	No
HDCP	Compliant

Temperature

Operating	0°C to 40°C	32°F to 104°F
Storage	-20°C to 60°C	-4°F to 140°F
Humidity	20 to 90% non-condensing	

Power

Consumption-88M	60W
Consumption-1616M	109
Idle Consumption-88M	2W
Idle Consumption-1616M	2.7W
Supply	Input: AC100~240V 50/60Hz Output: DC 24V/6.25A

Dimension

H x W x D - 88M	177.8 x 439.74 x 322.26 (mm)	7 x 17.31 x 12.69 (inch)
H x W x D - 1616M	177.8 x 439.74 x 322.26 (mm)	7 x 17.31 x 12.69 (inch)
Rack Size	4U	

Weight

Device - 88M	7.13 kg	15.72 lbs
Device - 1616M	8.22 kg	18.12 lbs
Shipping - 88M	15.51 kg	34.20 lbs
Shipping - 1616M	17.89 kg	39.45 lbs

Certification

Power Supply	CE, FCC, cULus
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Ports

HDMI

Features	3D, 1080p, 1920x1200, Dolby TrueHD, DTS-HD Master Audio
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RJ45

Features	RS-232, IR, 3D, 1080p, 1920x1200, Dolby TrueHD, DTS-HD Master Audio
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AUDIO IN

Audio Formats	PCM 2Ch
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IR IN

Compatibility	Mono to mono IR cables or Atlona IR receiver
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IR OUT

Compatibility	Atlona IR emitter only
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USB B

Use	Firmware updating
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Updating and Resetting

Updating firmware

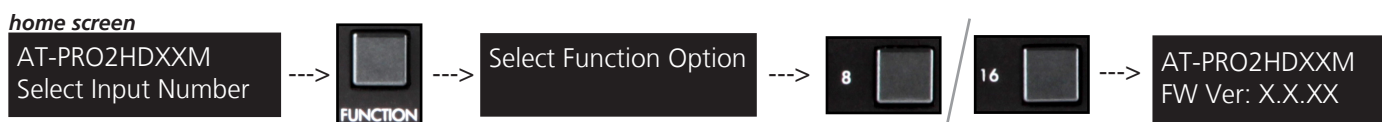
At times there will be new firmware to update, fix, or change functionality of products. Atlona has made this as easy as possible for updating on the job by simply downloading from Atlona.com and uploading the file onto the matrix.

NOTE: Only use a Windows computer to update the matrix. Use of an Apple computer to update will cause the matrix to be unusable until the update is redone with a Windows computer.

Needs:

- Verify the current firmware version
- PC (not compatible with MACs)
- OS that supports USB mass storage devices
- USB A to USB B cable (i.e. AT11008)

To **view** the current firmware. Function option is "**8**" (PRO2HD88M) / "**16**" (PRO2HD1616M)



Preparing the Matrix:

- Unplug the power cable.
- Hold the Cancel button while plugging the power back in.
- Connect the USB B to USB A cable into the Matrix and the Computer.

Updating the Matrix:

The computer should auto detect the connection, if it does not, open the USB device from my computer.

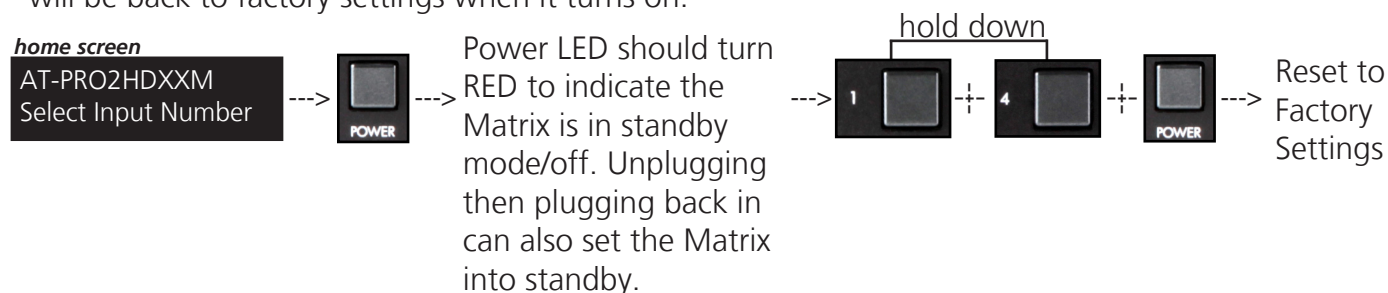
- Click open in a new folder. (if auto run detects connection)
- Delete the file in the folder. (there should be only one file, if more delete all files)
- Copy and Paste the new firmware file into the USB folder.
- Unhook the Matrix from the computer.
- Unplug the power cable from the AT-PRO2HD
- Replug the power and start the matrix normally. Your update should be complete

If you wish to verify the new firmware, press function then button 8/16 and it will display

Resetting to factory settings

Atlona understands that settings can be troublesome and at times its just easier to set things back to factory settings. To make things easier a simple one step reset was created.

To reset the matrix, hold down the buttons 1 and 4 while powering on. If done correctly the matrix will be back to factory settings when it turns on.



Safety Information

Safeguards



To reduce the risk of electric shock, do not expose this product to rain or moisture



Do not modify the wall plug. Doing so will void the warranty and safety features.



If the wall plug does not fit into your local power socket, hire an electrician to replace your obsolete socket.



This equipment should be installed near the socket outlet and the device should be easily accessible in the case it requires disconnection.

Precautions

FCC regulations state that any unauthorized changes or modifications to this equipment, not expressly approved by the manufacturer, could void the user's authority to operate this equipment.

Operate this product using only the included external power supply. Use of other power supplies could impair performance, damage the product, or cause fires.

In the event of an electrostatic discharge this device may automatically turn off. If this occurs, unplug the device and plug it back in.

Protect and route power cords so they will not be stepped on or pinched by anything placed on or against them. Be especially careful of plug-ins or cord exit points from this product.

Avoid excessive humidity, sudden temperature changes or temperature extremes.

Keep this product away from wet locations such as bathtubs, sinks, laundries, wet basements, fish tanks, and swimming pools.

Use only accessories recommended by Atlona to avoid fire, shock, or other hazards.

Unplug the product before cleaning. Use a damp cloth for cleaning and not cleaning fluid or aerosols. Such products could enter the unit and cause damage, fire, or electric shock. Some substances may also mar the finish of the product.

Never open, remove unit panels, or make any adjustments not described in this manual. Attempting to do so could expose you to dangerous electrical shock or other hazards. It may also cause damage to your product. Opening the product will void the warranty.

Do not attempt to service the unit. Disconnect the product and contact your authorized Atlona reseller or contact Atlona directly.

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

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:

- A) 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**
- B) 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**
- C) 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.

Repair, replacement or refund of Atlona's products is the purchaser's exclusive remedy and Atlona's liability does not extend to any other damages, incidental, consequential or otherwise.

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

Coverage Periods

Atlona's Limited Product Warranty Period begins on the date of purchase by the end-purchaser. The date contained on the end-purchaser's sales or delivery receipt is the proof purchase date.

Limited Product Warranty Terms – New Products

- 10 years from proof of purchase date for hardware/electronics products purchased on or after June 1, 2013
- 3 years from proof of purchase date for hardware/electronics products purchased before June 1, 2013
- Lifetime Limited Product Warranty for all cable products

Limited Product Warranty Terms – Refurbished (B-Stock) Products

- 3 years from proof of purchase date for all Refurbished (B-Stock) hardware and electronic products purchased on or after June 1, 2013

Remedy

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.

Atlona requires that products returned are properly packed, preferably in the original carton, for shipping. Cartons not bearing a return authorization or case number will be refused. Atlona, at its sole discretion, reserves the right to reject any products received without advanced authorization. Authorizations can be requested by calling 1-877-536-3976 (US toll free) or 1-408- 962-0515 (US/international) or via Atlona's website at www.atlona.com.

Exclusions

This Limited Product Warranty excludes:

- Damage, deterioration or malfunction caused by any alteration, modification, improper use, neglect, improper packing or shipping (such claims must be presented to the carrier), lightning, power surges, or other acts of nature.
- 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.
- Equipment enclosures, cables, power supplies, batteries, LCD displays, and any accessories used in conjunction with the product(s).
- 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.

Limitation on Liability

The maximum liability of Atlona under this limited product warranty shall not exceed the original Atlona MSRP for its products. To the maximum extent permitted by law, Atlona is not responsible for the direct, special, incidental or consequential damages resulting from any breach of warranty or condition, or under any other legal theory. Some countries, districts or states do not allow the exclusion or limitation of relief, special, incidental, consequential or indirect damages, or the limitation of liability to specified amounts, so the above limitations or exclusions may not apply to you.

Exclusive Remedy

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.

Other Conditions

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.

Atlona, Inc Product Registration

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

Registration creates an ownership record if your product is lost or stolen and helps ensure you'll receive notification of performance issues and firmware updates.

At Atlona we respect and protect your privacy, assuring you that your registration information is completely secure. Atlona product registration is completely voluntary and failure to register will not diminish your limited warranty rights.

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