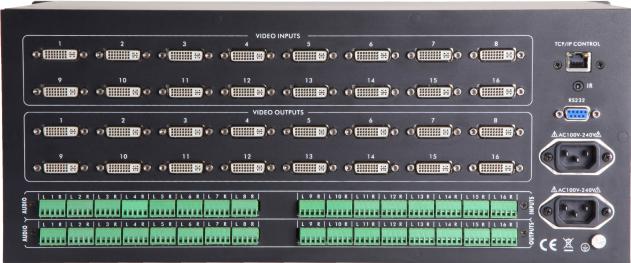


Atlona 16 by 16 DVI and Audio Matrix Switcher

AT-HDDVI1616-AM





User Manual

Toll free: 1-877-536-3976

Local: 1-408-962-0515

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Introduction

The Atlona 16 by 16 DVI and Audio Matrix Switcher is HDCP compliant, has 3 control options, 9 programmable memory presets, fast switching, and EDID learning. With switching as fast as .5 seconds and resolutions of up to 1920x1200 or 2k by 1k get the crisp video needed for presentations of all types.

Package Contents

- 1 x AT-HDDVI1616-AM
- 1 x IR Remote
- 1 x IR Receiver Module
- 1 x RS-232 cable
- 2 x Power Cord
- 1 x Software CD
- 1 x User Manual







Features

- HDCP compliant for seamless connections.
- 9 programmable memory presets for guick switching to the most used settings
- With the learning feature, EDID allows for compatibility between any source and display
- Redundant power supply keeps the switcher running in the event the main power supply fails
- Fast selection, switching time can be as fast as 0.5 seconds. Switching time varies with different displays.
- RS-232 compatible
- Independent audio and video switching, allowing 2Channel audio to be sent to any amp or recorder needed.
- TCP/IP control enabled
- Mountable with 4RU Racks



Specifications

Bandwidth frequency 10.2 Gbps

Input Ports 16 x DVI-D (female)

16 x Stereo Audio (balanced/unbalanced)

Output Ports 16 x DVI-D (female)

16 x Stereo Audio (balanced/unbalanced)

1 x RS-232

1 x Ethernet/TCP/IP

1 x 3.5mm IR

Resolution outputs Video: up to 2kx1k (2048x1080p)

Vesa: up to 1920x1200

Dimensions (HxWxD) 6.89x19.02x12.6 (inch) or 175x483x320 (mm)

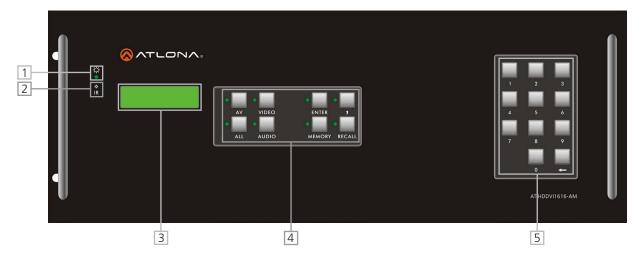
Weight 15.43lbs or 7kg

Temperature -4°F to 158°F or -20°C to 70°C

Power consumption 25W

Panel Description

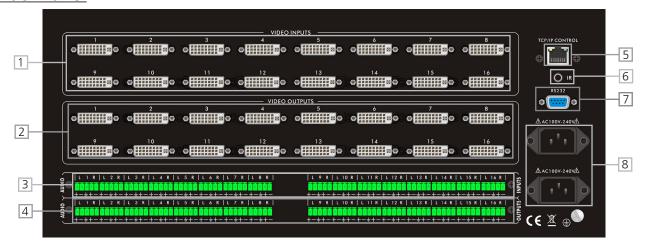
Front Panel



- 1. Power Indicator. Red LED will light up when power is on.
- 2. IR Receiver. Point your included IR remote control for the matrix switcher to receive commands
- 3. LCD Display. Displays commands and status messages
- 4. Menu for switching inputs, outputs, and functions
- 5. Menu for selecting inputs and outputs for your menu selections



Back Panel



- 1. Video Inputs. Sources such as DVD players and computers should be connected here.
- 2. Video Outputs. Video displays should be connected here.
- 3. Audio Inputs. Stereo audio should be connected here with a balanced or unbalanced connection.
- 4. Audio Outputs. Stereo audio connection output of either balanced or unbalanced audio.
- 5. TCP/IP connector. Connect to your switcher through a network by connecting an Ethernet cable here.
- 6. IR Port. Connect included IR Receiver here for extended IR capabilities.
- 7. RS-232 connector. Connect included RS-232 cable here if you wish to control your switcher by PC or 3rd party controller
- 8. Primary and Secondary Power Supply. Connect included power cables here.

Panel Control

AV: Used to select input to output. Example: Input 3 to output 5 - Press 3 then AV then 5 (displays as 3AV5 on the LCD display)

Video: Independent switching to transfer just the video of an input to an output. Example: Video from input 1 to output 3 - Press 1 then Video then 3 (displays as 1V3)

Audio: Independent switching to transfer just the audio of an input to an output. Example: Audio from input 2 to output 5 - Press 2 then Audio then 5 (displays as 2A5)

"," : Select multiple outputs with this. Example: Input 1 to output 3-5. Press 1 then AV then 3,4,5 (displays as 1AV345)

ALL: Press to connect all outputs for an input. Example: Input 2 to all outputs. Press 2ALL Memory: Save the current settings for the switcher to create a reset between 0-9. Press Memory3 to save as preset 3

Recall: Uses saved presets that you've created. Press Recall3 to pull up what you saved with Memory3 Enter: Used to end each selection. Example: 3AV5, press enter after to confirm your choice <--: Used for EDID selection or as a backspace. Hold for 10 seconds for EDID commands



Remote Control



Input Selection:

Press the number corresponding with the input you wish to select, for numbers 10 and above select 10+ and the number following. Example: 10 = 10+ and 0

Menu Selection:

Choose the action you wish to perform. At this time with the AT-HDDVI1616-AM the menu items you will use are AV, Video, Audio and ALL. Example: Input 3 with output 5. Press #3 in the input section, press AV, and then press #5 in the output section. The LCD display will show the input as 3AV5 on its screen.

-Output Selection:

Press the number of the corresponding output (display) you wish to select. For numbers 10 and above, select 10+ and the number following. Example: 13 = 10+ and 3

Note:

Multiple outputs are not selectable through the IR Remote control at this time. They are available through the front panel, TCP/IP and RS-232 controls.

TCP/IP

TCP/IP is another way to control your AT-HDDVI1616-AM. Connect with an ethernet cable to your network or computer. After connecting the cable you'll need to configure the IP on your computer.

IP address: 192.168.0.80 Subnet mask: 255.255255.0 Default gateway: 192.168.0.1

Preferred DNS: 202.96.134.133 Alternate DNS: 202.96.128.68



Use a straight cable to connect to a router or network.

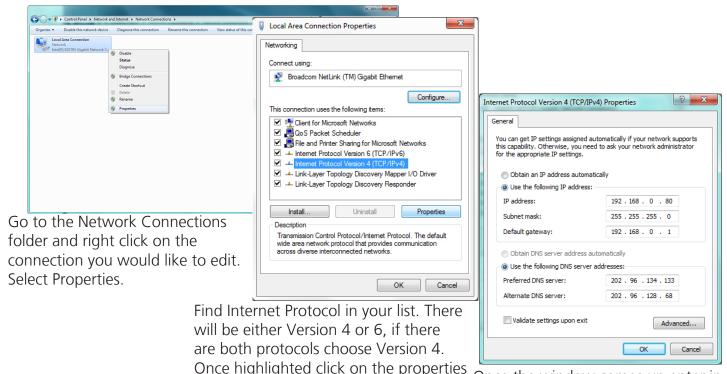


Use a crossover cable to connect directly to a computer.



TCP/IP Set Up

First Step: Configuring IP



IP address: 192.168.0.80 Subnet mask: 255.255.255.0 Default gateway: 192.168.0.1

Preferred DNS server: 202.96.134.133 Alternate DNS server: 202.96.128.68 Once the window comes up enter in the IP address, subnet mask, default gateway, preferred DNS server and alternate DNS server information into each field.

Note: Port 80 is a placeholder, if the network already has a .80 it can be changed to one that isn't in use.

buttons below the list box.

<u>Second Step:</u> Adding the Matrix to a network

To change the IP of the Matrix (normally 192.168.0.178) type the matrix IP address into Internet Explorer's address bar. A log in screen should appear.



The password is 88888. You must press the Login button. Pressing enter will cause it to return with a failed password page.





Select the "system info" or "change password" buttons to change the information for the matrix.

Once the system info button is selected it will switch to the Network page. To add this to a network, change the "0" in the IP, Gateway, and DNS server to "1". Press the apply button at the bottom of the page, then the reset device button in the top button menu.

from 192,168,0,80 to 192.168.1.80 then type the 192.168.1.178 into the address will display again.

Change the IP on the computer bar. If successful the log in page

Third Step: Using the TCP/IP software



Download the newest software for control off the web page for the AT-HDDVI1616-AM. Unzip the file. An Atlona icon (like pictured to the left) should appear. Double click the file to open up the control software.

The software should automatically detect the 16x16 Matrix, if you have more than one HD Matrix from Atlona, use the drop down menu to select AT-HDDVI1616-AM. Once selected, press either Enter to go to the control interface or Password Setup to change/add a password for control of the matrix.





Once in the control interface there, click the TCP/IP button on the top of the window. Enter in the IP: 192.168.0.178 (192.168.1.178 if changed) and port 4001, if it has not already been auto-generated. If done correctly then a pop up window will display saying "connect success!".

IPort Configuration Web Serve

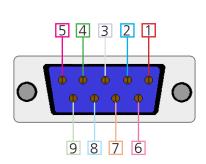
Note: Both Mreset and All+Through will mirror the inputs and outputs of the AT-HDDVI1616-AM.



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

Baud Rate: 9600bps Data Bit: 8bits Parity: None Stop Bit: 1bit

Command

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

System Command	Feedback	Function
Туре	(Model #)	Brings up the model information
Lock	Lock	Locks the front panel of the Matrix switcher
Unlock	Unlock	Unlocks the front panel of the Matrix switcher
Version	(Firmware #)	Brings up the firmware version

Each command or feedback is terminated with a carriage return.

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

Command	Feedback	Description
PWON	PWON	Turns power on
PWOFF	PWOFF	Turns power off
Statusx1	x1AVx2	Shows what input is connected to selected output
Status	x1AVx1, x2AVx2, x3AVx4,	Displays which inputs are currently connected to which outputs
Save[Y]	Save2	Saves settings for future use, saves vary from 0 to 9
Recall[Y]	Recall2	Pulls up saved settings for the number you selected
Clear[Y]	Clear2	Erases the save for the number you selected
EDIDMx1AVx2	EDIDMx1AVx2	Copies the EDID from output (x1) to Input (x2) (output 3 to input 7 = EDIDMx3AVx2)
EDIDMInit	EDIDMInit	Resets EDID to factory settings
Undo	Undo	Cancels the previous command



Command	Feedback	Description
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 (input 3 to output 3, input 4 to output 4, etc)
x1\$	x1\$	Turns off output channel (to turn off output 3 = x3\$)
All\$	All\$	Turns off all output channels
x1Ax2	x1Ax2	Sets audio input to selected output (x3Ax4 = input 3 audio to output 4)
x1Ax2,x3,x4	x1Ax2,x3,x4	Sets audio input to multiple outputs (x2Ax1,x3,x5 = input 2 audio to output 1, 3, and 5)
x1Vx2	x1Vx2	Sets video input to selected output (x1Vx5 = input 1 video to output 5)
x1Vx2,x3,x4	x1Vx2,x3,x4	Sets video input to multiple outputs (x4Vx1,x5,x9,x12 = input 4 video to outputs 1, 5, 9, and 12)
x1AVx2	x1AVx2	Switch input to output (input 3 to output 5 = x3AVx5)
x1AVx2,x3,x4	x1AVx2,x3,x4	Switch input to multiple outputs (input $3 = x3AVx1,x2$)

EDID (Extended Display Identification Data)

EDID is the standard compatibility signal passed between most sources and video displays. It allows the devices to make sure they support the same resolutions and timing.

The AT-HDDVI1616-AM has two EDID settings: default and learning. Default saves the settings of 1920x1200 resolution and 2 channel audio to all outputs. The learning setting will allow for the copying of an output's EDID to specific inputs.

Set Up

EDID can be set up in two ways: RS-232 and the front panel.

To set up EDID through the front panel hold the <-- button for 10 seconds. Once in EDID mode to set the matrix to default press "1". To use Learning mode and set individual EDIDs press "2", the output number to copy, Enter, the input number to save to, and then press Enter again. Repeat the learning process for all inputs until the EDID is set up as needed.

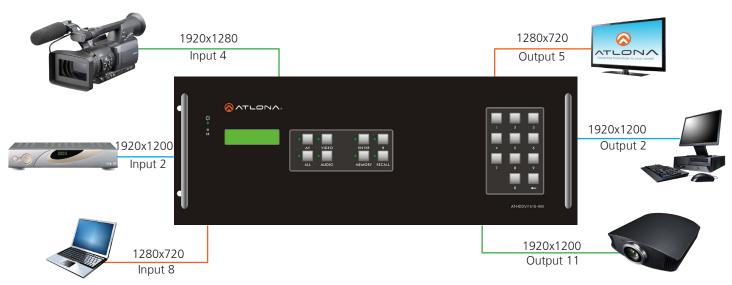
To set up EDID through RS-232 follow the steps for RS-232 set up then use the command EDIDMx1AVx2. The x1 and x2 are place holders for output and input. If saving output 5 to input 3 the command would be EDIDMx5AVx3. Repeat until all inputs are set up.



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Default

Default is used for when all displays support 1920x1200. If a display does not support this resolution then it will show only a black screen. (i.e. Output5 having the native resolution of 1280x720 would cause it to show only a black screen in default)



Learning

Learning EDID allows for the resolution and audio formats of a display to be saved to an input source. Once this setting is saved it will only output that resolution and audio, which will cause a black screen to display on any output that does not support the same settings.

In the above diagram, output5 can be saved to all 3 inputs allowing all three outputs to use the devices at 1280x720 (most displays have multiple resolution capabilities. Outputs 2 & 11 however can only be saved to inputs 2 & 4 as their native resolutions are 1920x1200 and input 8 is incapable of producing that resolution without a scaler.

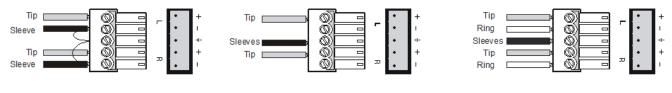
Audio (Balanced and Unbalanced)

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The AT-HDDVI1616-AM uses captive screw connectors for audio. Captive screw uses two types of audio: balanced and unbalanced. To be sure which to use refer to the manual for the connected device.

There are 3 connection possibilities, 2 unbalanced and 1 balanced (see picture below). When used, a balanced input can only output balanced audio and an unbalanced input can only output unbalanced audio but either unbalanced connection can be used.

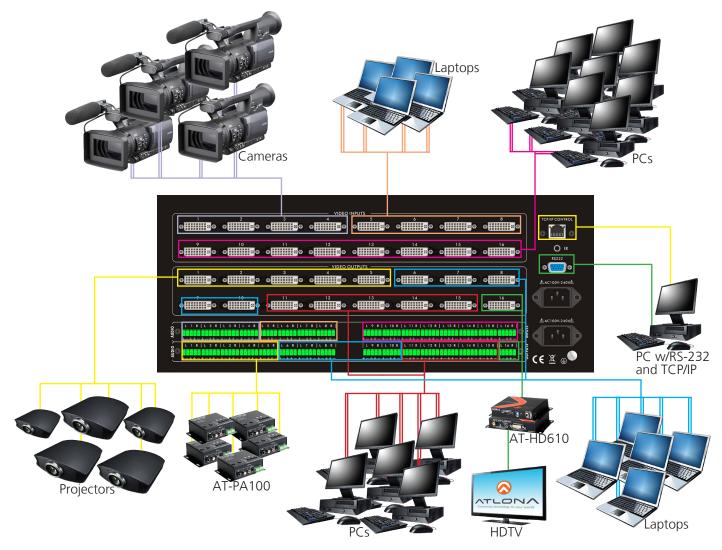


Unbalanced or Unbalanced Balanced Input & Output

11



Connections





Safety Information

<u>Safeguards</u>



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



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



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



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 AT-HDDVI1616-AM. 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.



Warranty

Limited Warranty

Atlona Technologies warrants that (a) its products (AT-HDDVI1616-AM) will perform substantially in accordance with the accompanying written materials for a period of 3 years from the date of receipt and (b) that the product will be free from defects in materials and workmanship under normal use and service for a period of 3 years. In the event applicable law imposes any implied warranties, the implied warranty period is limited to 3 years from the date of receipt. Some jurisdictions do not allow such limitations on duration of an implied warranty, so the above limitation may not apply to customers that fall within those areas.

Customer Remedies

Atlona Technologies' and its suppliers' entire liability and Customer's exclusive remedy shall be, at Atlona Technologies' decision, either return of the price paid for the product, repair, or replacement of the product that does not meet this Limited Warranty and which is returned to Atlona Technologies with a copy of the Customer's receipt. This Limited Warranty is void if failure of the product has resulted from accident, abuse, misapplication, or natural occurrence. In example but not limited to: power surges (electrical storms, local power outage), dropping the product (or items on the product), contact with fluids, and physical misconduct (i.e. kicking or punching). Any replacement product will be warranted for the remainder of the original warranty period.

No other warranties

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Atlona 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.

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