Three-Input Switcher for HDMI and VGA Sources with Automatic Display Control and Ethernet-Enabled HDBaseT Output

AT-HDVS-200-TX
User Manual

Please check http://www.atlona.com/products/AT-HDVS-200-TX for the most recent firmware update or manual.
## Table of Contents

1. Introduction ................................................................. 3  
2. Package Contents .......................................................... 3  
3. Features ................................................................. 3  
4. Panel Descriptions  
   a. Front Panel .......................................................... 4  
   b. Rear Panel .......................................................... 4  
5. Category Cable ............................................................ 5  
6. WebGUI ................................................................. 6-16  
7. RS-232  
   a. Connection .......................................................... 17  
   b. Set Up ................................................................. 17  
   c. IP and RS-232 Commands ........................................... 18-21  
   f. IP Commands .......................................................... 22  
8. Connection Diagram  
   a. with HDVS-200-RX .................................................... 23  
   b. with UHD-CLSO series .............................................. 24  
9. Specifications .............................................................. 25  
10. Safety Information ....................................................... 26  
11. Warranty ................................................................. 27-28  
12. Atlona Product Registration .......................................... 28  

*Note:* To ensure compatibility, please be certain both transmitter and receiver have blue HDBaseT ports. This ensures both products are PoE (48V) compliant. The HDVS-200-TX is not compatible with PoCC (black RJ45, 24V) devices
Introduction

The AT-HDVS-200-TX is a 3×1 switcher for HDMI and VGA Inputs with HDBaseT Output. It features two HDMI inputs, a VGA input, and an always on 3.5mm audio connector. The AT-HDVS-200-TX can be the central component of a small, automated AV system. Automatic display control turns on the display automatically whenever a source is connected. When the source is removed, the display is turned off. Volume is controlled by using the front panel buttons. Automatic input selection on the AT-HDVS-200-TX works by sensing the presence of any video signal. With automatic input selection, manual control systems can be eliminated.

The AT-HDVS-200-TX combines the benefits of a switcher and the advantages of Ethernet-enabled HDBaseT signal transmission over a single cable. The switcher enables input selection from the front panel, RS-232, or TCP/IP commands. HDMI signals up to 4K/UHD @ 60Hz with embedded audio, VGA input signals up to 1920×1200, and control signals can be extended up to 328 feet (100 meters).

Note: To ensure compatibility, please be certain both transmitter and receiver have blue HDBaseT ports. This ensures both products are PoE (48V) compliant. The HDVS-200-TX is not compatible with PoCC (black RJ45, 24V) devices.

Package Contents

- 1 x AT-HDVS-200-TX
- 1 x Captive screw connector (3 pin: RS-232)
- 1 x Pair of mounting brackets
- 1 x User Manual

Features

- 2 HDMI (accepts DVI and DisplayPort with adaptors) and 1 VGA/analog audio inputs
- Auto switching with video detection technology (activated through RS-232, IP, or webGUI)
  - Device priority - Option to return to a specific port when receiving no signal from the current source
- Control audio volume for HDBaseT output or display
  - Adjust volume through front panel, RS-232, or TCP/IP control
  - Note: Together, CEC and HDBaseT output audio control provide a simple solution for complete audio and video control, without the need for IP, RS-232, or spending extra programming time.
- Analog audio embedding
  - Stand alone audio option - pass analog audio input with no video
- Supports up to 4K @ 60Hz 4:2:0 (when used with 4K compatible receivers/switchers e.g. UHD-CLSO series)
- Ethernet pass through for configuration, upgrading, and device management/control
- Supports Dolby TrueHD and DTS-HD Master Audio when using HDMI for audio input and output
- HDCP management
- EDID management for better compatibility
- Firmware upgrade via USB or webGUI for easy field service

with AT-HDVS-200-RX

- Scales incoming signals at a variety of common resolutions up to 1080p or 1920x1200
- Dry contact closure control capabilities for up to two devices
- Complete control of video brightness, contrast, saturation, hue, and more
- Projector control through RS-232, IP, or webGUI
- Dual RS-232 port for control systems in addition to projector control

*Note: Consumer Electronics Control (CEC): Atlona does not guarantee the function of CEC with all televisions. We can confirm proper operation with many current Samsung, Panasonic, and Sony TVs. Many manufactures do not support the CEC “Off” command when sent from a source and older TVs use proprietary commands. Atlona only supports those TVs that follow CEC command structure from HDMI 1.2a and support the “off” command when issued by a source. We encourage any dealer to get evaluation product from Atlona prior to designing a system around this control technology or be prepared to use other methods to control their displays if Atlona CEC is not compatible with the installed displays.
Panel Description

1. INPUT button: Use to switch between VGA and HDMI sources
2. DISPLAY button: Can be programmed to perform different functions
   - Default action will turn video output on/off for the switcher
   - Send on/off command to CEC, RS-232, or TCP/IP controllable displays or other connected devices
   - Sends RS-232 or TCP/IP trigger command when used with a compatible switcher (e.g. CLSO PoE series)
3. VOLUME buttons: Adjust output volume of the switcher or connected device when programmed
   - Note: To mute or unmute output audio, press both volume buttons together. LED will turn red when muted
4. HDMI 1 port: Connect first HDMI source here
5. VGA IN port: Connect VGA source here
6. AUDIO IN port: Connect analog audio here
7. PW LED: Will illuminate when receiving power
   - VGA LED: Illuminates when VGA input selected
   - HDMI 1 LED: Lights up when HDMI input 1 is selected
   - HDMI 2 LED: Turns on when the second HDMI input is selected

1. FW port: Firmware update port, connect a mini USB to USB A cable to a computer
   - Firmware is downloadable through http://www.atlona.com/products/AT-HDVS-200-TX/
2. RS-232 port: Connect control system or source here
3. HDMI 2 port: Connect second HDMI source here
4. LAN (black) port: Connect network switch or router to this port for Ethernet, TCP/IP, or webGUI control
5. HDBaseT OUT (blue) port: Connect to an HDBaseT PoE receiver
   - e.g. AT-HDVS-200-RX or UHD-CLSO PoE series switcher/ scalers

**Note:** To ensure compatibility, please be certain both transmitter and receiver have blue HDBaseT ports. This ensures both products are PoE (48V) compliant. The HDVS-200-TX is not compatible with PoCC (black RJ45, 24V) devices
Category Cable

For the category cables used in the installation of these products, please be sure to use a 568B termination as pictured below:

Use the table below to verify the best category cable for the installation.

<table>
<thead>
<tr>
<th>Performance Rating</th>
<th>Type of LAN cable</th>
</tr>
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<tbody>
<tr>
<td>Wiring</td>
<td>CAT5e/6</td>
</tr>
<tr>
<td>Solid</td>
<td>Shielded (STP/FTP)</td>
</tr>
<tr>
<td></td>
<td>Unshielded (UTP)</td>
</tr>
<tr>
<td>Stranded - Patch</td>
<td>Unshielded (UTP)</td>
</tr>
<tr>
<td>cable (Not</td>
<td>Shielded (STP/FTP)</td>
</tr>
<tr>
<td>recommended)</td>
<td></td>
</tr>
<tr>
<td>Termination</td>
<td>Please use EIA/TIA-568-B termination</td>
</tr>
</tbody>
</table>

**Important!** 4K (UHD) signals are sensitive to cable quality and installation technique. It is recommended to use CAT6a/7 solid core cables for best results.

**Note:** For cable distances see the specifications on page 25

**Connector**

Connector type and size is very important to ensure extenders work correctly. Please use the matching cable type with the correct RJ45 connector.

- CAT5e cables should use only CAT5e RJ45 connectors
- CAT6 cables should use only CAT6 connectors
- CAT6a cables should use only CAT6a connectors
- CAT7 cables should use only CAT7 connectors

Using the wrong size connectors may result in interference causing loss of signal.

**Important!** “EZ RJ45 connectors” are not recommended with HDBaseT extenders. Doing so may result in interference with audio and video transmission.

**Note:** To ensure compatibility, please be certain both transmitter and receiver have blue HDBaseT ports. This ensures both products are PoE (48V) compliant. The HDVS-200-TX is not compatible with PoCC (black RJ45, 24V) devices
Network Connections

For convenience, the HDVS-200 comes with DHCP on. This enables the switcher to be connected to a network without knowing available IP addresses. If your network is not compatible with dynamic IP addresses or if you are using the switcher with a TCP/IP control system, DHCP may be turned off and a static IP address set using RS-232 commands or the webGUI.

WebGUI

Atlona has created an easy to use webGUI for setup and changes to the configuration of the HDVS-200.

To begin, plug a LAN cable into the LAN port of the HDVS-200 and the network switch, then type the IP address of the unit into a web browser of a PC connected to the same network (as seen below).

To find the switcher IP: use RS-232 command “IPCFG”.

Note: IP addresses may also be found using common free IP scanner software such as “Advanced IP Scanner”

*Atlona does not assume responsibility for damage caused by other programs installed onto a computer, verify programs before installing*

A login screen will appear (this is the same log in for admin and general users). For the first log in (and future admin changes) the username is “root” and password is “Atlona”.

Note: Only the admin password can be changed (see page 14). The username will always remain “root”.

The Info Page displays general system information.

Note: When connected to certain receivers (other than HDVS-200-RX, UHD-SW-500ED, etc) it will display GENERAL in the navigation bar.
When a compatible receiver (e.g. AT-HDVS-200-RX) is connected, the navigation will display the SKU number in the bar. Clicking on the SKU will launch the webGUI of the RX.

**Note:** Opening the webGUI for the RX will navigate the user out of the TX webGUI

The Video Page enables input selection, VGA adjust, and auto-switch configuration.

**Video:**

- **Input Selection** - Choose between HDMI 1, HDMI 2, and VGA inputs
- **VGA Adjust** - Centers the VGA video on the display
- **Auto-Switch** -
  - ON/OFF switch: Toggle auto-switching on and off
  - Fallback Port: Select what input to switch to when the current signal is no longer received
  - Fallback Time(Sec): Set the amount of time (seconds) after receiving no signal before the input is switched to the fallback port
When used with the HDVS-200-RX, additional options will appear on the Video Page.

**Output Resolution** - Select the output resolution for the HDMI output (see resolution list below)

**Note:** The RX will scale all sources to the chosen resolution

**Aspect** - Adjusts the height and width of the image (see aspect list below)

### Output Resolution -

<table>
<thead>
<tr>
<th></th>
<th>Resolution</th>
<th></th>
<th>Resolution</th>
<th></th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>800x600p60</td>
<td>1</td>
<td>1024x768p60</td>
<td>2</td>
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<tr>
<td>5</td>
<td>1400x1050p60</td>
<td>6</td>
<td>1600x900p60RB</td>
<td>7</td>
<td>1600x1200p60</td>
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<td>10</td>
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<td>720p29.97</td>
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<td>1080i50</td>
<td>17</td>
<td>1080i59</td>
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<tr>
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<td>1080p24</td>
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<td>1080p25</td>
<td>22</td>
<td>1080p29.97</td>
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<tr>
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<td>1080p59.94</td>
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<td>1080p60</td>
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<td>35</td>
<td>1080p50</td>
<td>36</td>
<td>1080p25</td>
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<td>1080i59</td>
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<tr>
<td>40</td>
<td>720p25</td>
<td>41</td>
<td>1080p24</td>
<td>42</td>
<td>1080i50</td>
</tr>
</tbody>
</table>

### Aspect Ratio -

- **Full** - The image will fill the display
- **16:9** - The image will fit to a 16:9 display
- **16:10** - The image will fit to a 16:10 display
- **4:3** - The image will fit to a 4:3 display
- **Keep Ratio** - The image will keep the aspect ratio of the signal sent by the source

**Note:** Incorrect aspect ratio will display with horizontal or vertical bars to fill the excess space

Adjust brightness, contrast, saturation, and sharpness.

**Note:** Calibrate the display before using these settings to adjust picture
The Audio Page enables adjustments of audio source, volume, bass, and treble, providing a simple solution for audio control.

**HDMI Audio (1 and 2)** - Select the audio source for the individual HDMI inputs
- **Auto**: Will detect DVI signals and embed audio from analog audio input
- **Digital**: Will use audio from the HDMI input port
- **Analog**: Will use audio from the analog audio input port

**Audio Freerun Status** -
- **ON**: Will allow the HDVS-200-TX to send analog audio with no video
- **OFF**: Analog audio will not pass without video signal present

**Output Audio** -
- **Mute**: Toggle the output audio of both the HDMI and analog audio output
- **HDMI Audio**: Toggle the HDMI audio on and off
- **L/R Audio**: Toggle the analog audio output on and off

**Output Volume** - Master volume for both HDMI and analog audio out
- **Output**: Adjust the output volume
  - Options: -80 to 0
- **Output Bass**: Adjust the bass of the output
  - Options: -12 to 15
- **Output Treble**: Adjust the treble of the output
  - Options: -12 to 15
The Control Page includes settings which enable display controls by the switcher. It provides a way to program button functions, display control, and type of control commands (TCP/IP or RS-232) sent out.

**CEC Control:**

**Power** -

On: Sends a command over HDBaseT to the HDMI output of the connected receiver to turn the connected display on

Off: Sends a command over HDBaseT to the HDMI output of the connected receiver to turn the connected display off

**Note:** Consumer Electronics Control (CEC): Atlona does not guarantee the function of CEC with all televisions. We can confirm proper operation with many current Samsung, Panasonic, and Sony TVs. Many manufacturers do not support the CEC “Off” command when sent from a source and older TVs use proprietary commands. Atlona only supports those TVs that follow CEC command structure from HDMI 1.2a and support the “off” command when issued by a source. We encourage any dealer to get evaluation product from Atlona prior to designing a system around this control technology or be prepared to use other methods to control their displays if Atlona CEC is not compatible with the installed displays.

**Note:** Together, CEC and HDBaseT output audio control provide a simple solution for complete audio and video control, without the need for IP, RS-232, or spending extra programming time.
### System Settings

**Display Auto Power On** - When enabled, the unit will send the programmed (RS-232, IP, or CEC) command to the display to turn on after detecting an A/V signal

**Display Auto Power Off** - When enabled, the unit will send the programmed command to the display to turn off after not detecting an A/V signal

**Power Button Lock** - Lock or unlock the display button on the front panel to enable/disable display on/off commands

**Lamp cool down timer (0-300)** - Used with a projector whose lamp cannot be turned on for up to 5 minutes after being shut off. Match settings with lamp delay on projector

**Auto power off timer (5 sec - 1 hour)** - Sets the period of time between the loss of A/V signal and when the “Display Off” command is sent

*Note:* All functionality remains, only the HDBaseT output is turned off

**Power on delay timer (0-300)** - Sets the period of time after the display is turned on, that the power button will be locked

*Note:* LED will blink blue for the warm up timer period and then stay solid

*Note:* When timers are set to 0 seconds, they will disable the timer’s functions

**Control Type** - Select whether the display auto on/off commands are sent using RS-232, TCP/IP, or CEC

**Feedback Verify**

- **On:** If receiving no feedback, the product will send the command up to 4 times
- **Off:** The command will only be sent once, whether feedback is received or not

**Display Mode**

- **DispSW AVon:** Display switches on/off, source audio/video signal always on
- **DispSW AVSW:** Display switches on/off, source audio/video signal switches on/off
- **AV SW:** Display is always on, source audio/video signal switches on/off

**Volume/Mute**

- **Audio Out:** Volume and mute buttons will control volume level of the output
- **RS-232:** Volume/Mute buttons will send the commands using RS-232 to compatible extenders and displays
- **IP:** Volume/Mute buttons will send the commands over Ethernet using the LAN connection
TCP/IP Settings of Controlled Device:

This option programs the IP parameters for display control. The static IP address set here should match the display’s static IP address. To set or view the display’s address, check the display’s user manual.

**Note:** The switcher and the display must be on the same network and subnet for these commands to work.

**Note:** Be sure the static IP address set for the display does not match any other device on the network.

**IP Mode**
- **Non-login:** Does not require a username and password when using TCP/IP to control the display.
- **Login:** Requires a username and password to control the display through TCP/IP.

**IP Address & Port** - Set to match the display’s static IP.

**Username & Password** - Required when in login mode.

**Save** - Saves the IP settings for accessing the controlled device.

RS-232/IP Commands:

- **ASCII/Hex** - Set which type of commands are sent to the display.
- **On/Off/Volume+/Volume-/Mute** - Enter the specific commands and feedback that will be sent/received when using any of the control options.

**Note:** Individual commands will be found in the display’s manual.

**End of line symbols** - None, CR, LF, CR-LF, Space, STX, ETX, Null - Select the appropriate line terminators from the drop down list. Carriage return, line feed, and carriage return with line feed are the most commonly used line terminators.

**Note:** Be sure to check the display’s manual for the correct line terminators.

**Feedback** - Feedback commands can be set by typing in the field or will auto fill after pressing the test button.

**Note:** If the command is incorrect, you will get a red ‘Timeout!’ message at the top of the RS-232 field.
RS-232 Parameter Setting

Zone -
Adjust the RS-232 parameters of the HDBaseT output of the HDVS-200

Note: When connected to the HDVS-200-RX the baud rate must be 115200 or communications will not pass

TX RS-232 -
Adjust the RS-232 parameters of the HDVS-200-TX

RX RS-232 -
Adjust the RS-232 parameters of the HDVS-200-RX

Save -
Once the RS-232 parameters are changed, press the save button to make it live on the unit.
The EDID Page enables the preferred input timing to be selected and HDCP compliance reporting to be set.

**HDMI Prefer Timing:** Select the best resolution to ensure compatibility with the input & output
**VGA Prefer Timing:** Select the best resolution to ensure compatibility with the input & output
**HDMI 1 HDCP:** Switch the HDCP reporting between compliant or non-compliant
**HDMI 2 HDCP:** Switch the HDCP reporting between compliant or non-compliant

The HDVS-200-TX has two HDCP reporting modes: compliant and non-compliant.

- **Compliant** - Reports to the source it is connected to an HDCP compliant device
  - **Note:** Will pass all HDCP compliant and non-compliant source signals to an HDCP compliant display

- **Non-Compliant** - Reports to the source it is connected to an HDCP non-compliant device
  - **Note:** Some Apple products (and other PCs) will encrypt non-HDCP content, stopping non-HDCP compliant displays from receiving even personal files such as: PowerPoint, Excel, or Word files. Use this mode to pass non-HDCP content (e.g. to codecs or video streaming devices)
  - **Note:** Blu-Ray content, Apple TV, and other HDCP compliant source signals will not pass when set to non-compliant

### Preferred Timings (HDMI)

<table>
<thead>
<tr>
<th>Default</th>
<th>1280x800</th>
<th>1920x1080</th>
<th>1024x768</th>
<th>1280x720</th>
<th>1920x1200</th>
<th>1366x768</th>
<th>800x600</th>
<th>1600x900</th>
<th>2560x1440</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
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<td>2</td>
<td>3</td>
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<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>5</td>
<td>1920x1200</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>3840x2160</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:** 2560x1440 and 3840x2160 are not available when using an HDVS-200-RX

### Preferred Timings (VGA)

<table>
<thead>
<tr>
<th>Default</th>
<th>1280x800</th>
<th>1920x1080</th>
<th>1024x768</th>
<th>1280x720</th>
<th>1920x1200</th>
<th>1366x768</th>
<th>800x600</th>
<th>1600x900</th>
<th>sta</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
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<td>2</td>
<td>3</td>
<td>4</td>
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<td>sta</td>
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<td>1920x1200</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Default becomes Native when using an HDVS-200-RX
The Configuration Page allows non-admin users to be added or the admin password to be changed.

Only 3 non-admin users can be added. Press the add button. A pop up screen will appear (see below). Fill in the username and password than press save changes. Users will not have the ability to access this page.

Admin password can also be changed. Be sure to write this information down as admin is the only profile allowed to add/remove users.

**Note:** Default username= “root” and password= “Atlona”
Network: IP address, netmask, gateway, and telnet port can be set to any settings compatible with your network. The Netmask and Gateway must match your existing network settings.

**IP Mode**
- **Static**: Set a fixed IP address
  - **Note**: For a stable connection when using a control system, it is best to set up a static IP. As you select an IP address, make certain no other devices on your network are using that IP address.
- **DHCP**: Dynamic Host Configuration Protocol will automatically select an IP address on the network that is not already in use.

**Telnet Login Mode** - Turn on/off - requires a password to adjust settings
**Telnet Timeout** - Set the auto log-off time between 1 and 3600 seconds
**Broadcast** - Turn on and off the feedback through all control ports
**Reset to Default** - Reset the device to factory settings

**Firmware Update** - Use this feature to find and load the MCU firmware to the switcher
  - **Note**: Firmware can be found and downloaded from [http://www.atlona.com/products/AT-HDVS-200-TX/](http://www.atlona.com/products/AT-HDVS-200-TX/) page under the firmware tab

**Valens Update** - Use this feature to find and load the HDBaseT chip firmware to the switcher
RS-232 Connection

RS-232 pin out is determined by the connected device and connects as RX (receiver), TX (transmitter), and \( \frac{1}{2} \) (ground). (See picture 1)

Note: Be sure to follow the connect order above as the female captive screw connector connects to the unit upside down.

RS-232 is often connected through a DB 9-pin to captive screw connector. The pins have specific signals associated with them, some are unassigned.

Note: Typical DB9 connectors use pin 2 for TX, pin 3 for RX, and pin 5 for ground. On some devices, the functions of pins 2 and 3 are reversed.

Set Up

To set up the RS-232 terminal (if not using 3rd party software) use the following steps:

1. Connect the HDVS-200 to a PC using a DB9 to DB9 and DB9 to USB adaptor cable
   Note: A gender changer and/or null modem may be needed between some connections
   a. Remove the DB9 connector, strip and connect the wires to the included captive screw connector (as explained above), then connect the captive screw connector to the switcher
2. Go to the Device Manager folder (see picture A)
3. Find the HDVS-200 COM port and right click with a mouse and select properties (see picture B)
   Note: If unsure which COM port is the HDVS-200, unplug the cable and plug it back in. It will disappear and reappear on the COM port list.
4. Under the properties menu select the port settings tab and update the menu to the HDVS-200 default settings of: Bits Per Second: 115200, Data Bits: 8, Parity: None, Stop Bits: 1 and Flow Control: None. (see picture C)

Set up is done and any terminal program may be used to control the HDVS-200 now.
# Commands

<table>
<thead>
<tr>
<th>Command</th>
<th>Feedback</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>System sta</td>
<td>Model: AT-HDVS-200-TX</td>
<td>Displays the model number of the unit</td>
</tr>
<tr>
<td></td>
<td>MAC Addr: b8-98-b0-00-14-89</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Address Type: DHCP</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IP Addr: 192.168.11.166</td>
<td></td>
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<tr>
<td></td>
<td>Netmask: 255.255.255.0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gateway: 192.168.11.1</td>
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<td></td>
<td>On/Up Time &lt;dd HH:mm:ss&gt;: 04 04:44:58</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Type</td>
<td>Displays the model number of the unit</td>
</tr>
<tr>
<td>VersionX</td>
<td>VersionX</td>
<td>Displays the current firmware X= MCU or VSTX</td>
</tr>
<tr>
<td>HDVS sta</td>
<td>HDVS sta</td>
<td>Displays the model number of the connected receiver</td>
</tr>
<tr>
<td>Mreset</td>
<td>Mreset</td>
<td>Reset the unit to factory settings and restarts the switcher</td>
</tr>
<tr>
<td>Update X</td>
<td>Update X</td>
<td>Sets the unit into update mode X= MCU (unit) or VSTX (Valens)</td>
</tr>
<tr>
<td>Input X</td>
<td>e.g. Input HDMI 1</td>
<td>Select the input device. X= HDMI 1, HDMI 2, VGA, or sta</td>
</tr>
<tr>
<td></td>
<td>e.g. Input HDMI 1</td>
<td>e.g. Set the input to HDMI 1</td>
</tr>
<tr>
<td>AutoSW X</td>
<td>AutoSW X</td>
<td>Enable/Disable auto switching or display auto switching status</td>
</tr>
<tr>
<td></td>
<td>e.g. AutoSW on</td>
<td>e.g. Turns auto switching on</td>
</tr>
<tr>
<td>ASwPrePort X</td>
<td>ASwPrePort X</td>
<td>Sets input the switcher defaults to when losing AV signal X= 1-3, Prev</td>
</tr>
<tr>
<td>ASwOutTime X</td>
<td>ASwOutTime X</td>
<td>Sets the delay time for how long the auto switching receives no signal from the input before switching ports x= 3-600 (default is 3 second)</td>
</tr>
<tr>
<td></td>
<td>e.g. ASwOutTime 60</td>
<td>e.g. Sets the delay time to 1 minute with no signal before changing ports</td>
</tr>
<tr>
<td>ASwFstTime X</td>
<td>ASwFstTime X</td>
<td>Sets the delay time of switching when a new device is powered on X=10-600</td>
</tr>
<tr>
<td></td>
<td>e.g. ASwFstTime 10</td>
<td>e.g. HDVS will switch to the new source after 10 seconds of signal</td>
</tr>
<tr>
<td>VGAAuto</td>
<td>VGAAuto</td>
<td>Adjusts VGA picture to the center of the display</td>
</tr>
<tr>
<td></td>
<td>Note: Only valid when VGA is selected</td>
<td></td>
</tr>
<tr>
<td>BRT XX</td>
<td>BRT XX</td>
<td>Set output brightness value X=0-100, +, -, sta</td>
</tr>
<tr>
<td></td>
<td>e.g. BRT 30</td>
<td>e.g. Set output brightness to 30</td>
</tr>
<tr>
<td>CTRST XX</td>
<td>CTRST XX</td>
<td>Set output contrast value X=0-100, +, -, sta</td>
</tr>
<tr>
<td></td>
<td>e.g. CTRST 20</td>
<td>e.g. Set output contrast to 20</td>
</tr>
<tr>
<td>SATRT XX</td>
<td>SATRT XX</td>
<td>Set output saturation value X=0-100, +, -, sta</td>
</tr>
<tr>
<td></td>
<td>e.g. SATRT 65</td>
<td>e.g. Set output contrast to 65</td>
</tr>
<tr>
<td>HUE XX</td>
<td>HUE XX</td>
<td>Set output hue value X=0-100, +, -, sta</td>
</tr>
<tr>
<td></td>
<td>e.g. HUE 38</td>
<td>e.g. Set output hue to 38</td>
</tr>
<tr>
<td>SHARP XX</td>
<td>SHARP XX</td>
<td>Set output sharpness value X=0-100, +, -, sta</td>
</tr>
<tr>
<td></td>
<td>e.g. SHARP 11</td>
<td>e.g. Set output sharpness to 11</td>
</tr>
<tr>
<td>HDCPSet1 X</td>
<td>HDCPSet1 X</td>
<td>Set HDCP reporting for HDMI IN 1 X= on, off, sta</td>
</tr>
<tr>
<td></td>
<td>e.g. HDCPSet1 on</td>
<td>e.g. Set HDCP reporting for HDMI IN to compliant</td>
</tr>
<tr>
<td>HDCPSet2 X</td>
<td>HDCPSet2 X</td>
<td>Set HDCP reporting for HDMI IN 1 X= on, off, sta</td>
</tr>
<tr>
<td></td>
<td>e.g. HDCPSet2 off</td>
<td>e.g. Set HDCP reporting for HDMI IN to non-compliant</td>
</tr>
</tbody>
</table>

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

**Note:** If the command fails or is incorrect the feedback should be “Command FAILED”
<table>
<thead>
<tr>
<th>Command</th>
<th>Feedback</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PrefTimg X</td>
<td>PrefTimg X</td>
<td>Set preferred timing to EDID. X= 0-10 &amp; sta</td>
</tr>
<tr>
<td>VGAPrefT X</td>
<td>VGAPrefT X</td>
<td>Set preferred VGA timing to EDID X= 0-8 &amp; sta</td>
</tr>
<tr>
<td>AudioSrcX Y</td>
<td>AudioSrcX Y</td>
<td>Select the audio source X=1-2 Y=auto, dig, ana, sta</td>
</tr>
<tr>
<td>e.g. AudioSrc1 dig</td>
<td>e.g. AudioSrc1 dig</td>
<td>e.g. Select HDMI as the audio source</td>
</tr>
<tr>
<td>AnaGain X</td>
<td>AnaGain X</td>
<td>Set the analog gain value or check status X= 1-16, sta</td>
</tr>
<tr>
<td>e.g. AnaGain sta</td>
<td>e.g. AnaGain 7</td>
<td>e.g. Check the analog gain level</td>
</tr>
<tr>
<td>HDMIAUD X</td>
<td>HDMIAUD X</td>
<td>Turn HDMI audio on, off, or check status X= on, off, sta</td>
</tr>
<tr>
<td>e.g. HDMIAUD on</td>
<td>e.g. HDMIAUD on</td>
<td>e.g. Turn HDMI audio on</td>
</tr>
<tr>
<td>LRAUD X</td>
<td>LRAUD X</td>
<td>Turn analog audio output on, off, or check status X= on, off, sta</td>
</tr>
<tr>
<td>e.g. LRAUD sta</td>
<td>e.g. LRAUD on</td>
<td>e.g. Check the status of the analog audio output</td>
</tr>
<tr>
<td>VOUT +</td>
<td>VOUT XX</td>
<td>Increase the volume output by 1</td>
</tr>
<tr>
<td>e.g. VOUT1 +</td>
<td>e.g. VOUTX +</td>
<td>e.g. Increases the volume output by 1</td>
</tr>
<tr>
<td>VOUT -</td>
<td>VOUT XX</td>
<td>Decrease the volume output by 1</td>
</tr>
<tr>
<td>e.g. VOUT -10</td>
<td>e.g. VOUT -10</td>
<td>e.g. Decreases the volume output by 1</td>
</tr>
<tr>
<td>VOUT X</td>
<td>VOUT X</td>
<td>Set the volume to a specific level from -80 to 0</td>
</tr>
<tr>
<td>e.g. VOUT -10</td>
<td>e.g. VOUT -10</td>
<td>e.g. Set the volume to -10</td>
</tr>
<tr>
<td>VOUTMute X</td>
<td>VOUTMute X</td>
<td>Mute/unmute all audio output X= on, off, sta</td>
</tr>
<tr>
<td>e.g. VOUTMute1 on</td>
<td>e.g. VOUTMute on</td>
<td>e.g. Mute all audio output</td>
</tr>
<tr>
<td>BASS X</td>
<td>BASS X</td>
<td>Adjusts the bass of the audio output X= +, -, sta, -12 to 15</td>
</tr>
<tr>
<td>e.g. BASS +</td>
<td>e.g. BASS 5</td>
<td>e.g. Increases the bass by 1</td>
</tr>
<tr>
<td>TREBLE X</td>
<td>TREBLE X</td>
<td>Adjusts the treble of the audio output X= +, -, sta, -12 to 15</td>
</tr>
<tr>
<td>e.g. TREBLE -5</td>
<td>e.g. TREBLE -5</td>
<td>e.g. Sets the treble to -5</td>
</tr>
<tr>
<td>FreeRun X</td>
<td>FreeRun X</td>
<td>Sets whether analog audio will pass on without video X= on, off, sta</td>
</tr>
<tr>
<td>e.g. FreeRun on</td>
<td>e.g. FreeRun on</td>
<td>e.g. Sets the analog audio to pass through without video</td>
</tr>
</tbody>
</table>

**Preferred Timings (HDMI) -**

- 0 Default
- 1 1280x800
- 2 1920x1080
- 3 1024x768
- 4 1280x720
- 5 1920x1200
- 6 1366x768
- 7 800x600
- 8 1600x900
- 9 2560x1440
- 10 3840x2160

**Note:** 2560x1440 and 3840x2160 are not available when using an HDVS-200-RX

**Preferred Timings (VGA) -**

- 0 Default
- 1 1280x800
- 2 1920x1080
- 3 1024x768
- 4 1280x720
- 5 1920x1200
- 6 1366x768
- 7 800x600
- 8 1600x900
- 9 2560x1440

**Note:** Default becomes Native when using an HDVS-200-RX

**Commands with HDVS-200-RX**

<table>
<thead>
<tr>
<th>Command</th>
<th>Feedback</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VidOutRes X</td>
<td>VidOutRes X</td>
<td>Set the output resolution x=0-28, sta</td>
</tr>
<tr>
<td>e.g. VidOutRes 22</td>
<td>e.g. VidOutRes 22</td>
<td>e.g. Set the output resolution to 1920x1080p29</td>
</tr>
<tr>
<td>Aspect X</td>
<td>Aspect X</td>
<td>Set the output aspect ratio x=full, 16:9, 16:10, 4:3, keep, sta</td>
</tr>
<tr>
<td>e.g. Aspect 16:10</td>
<td>e.g. Aspect 16:10</td>
<td>e.g. Set the output aspect ratio to 16:10</td>
</tr>
</tbody>
</table>

**Note:** Incorrect aspect ratio will display with horizontal or vertical bars to fill the excess space.

Each command is terminated with a carriage return. Feedback is terminated with a carriage return and line feed. **Note:** If the command fails or is incorrect the feedback should be “Command FAILED”

**Output Resolution -**

- 0 800x600p60
- 1 1024x768p60
- 2 1280x1080p60
- 3 1280x1024p60
- 4 1366x768p60
- 5 1400x1050p60
- 6 1600x900p60RB
- 7 1600x1200p60
- 8 1680x1050p60
- 9 1920x1200pRB
- 10 720p25
- 11 720p29.97
- 12 720p30
- 13 720p50
- 14 720p59.94
- 15 720p60
- 16 1080i50
- 17 1080i59
- 18 1080i60
- 19 1080p23.98
- 20 1080p24
- 21 1080p25
- 22 1080p29.97
- 23 1080p30
- 24 1080p50
- 25 1080p59.94
- 26 1080p60
- 27 Input
- 28 Native
- 29 sta
<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>SetCmd X[Y]</code></td>
<td>Sets the RS-232 or IP command for the selected button or function X= on, off, vol+, vol-, and mute Y= command</td>
</tr>
<tr>
<td><code>SetStrgType X</code></td>
<td>Sets the command string type X= ascii, hex, sta</td>
</tr>
<tr>
<td><code>SetEnd X[Y]</code></td>
<td>Sets the line termination for the chosen command X= on, off, vol+, vol-, mute, fbkon, fbkoff, fbkmute Y= None, CR, LF, CR-LF, Space, STX, ETX, and null</td>
</tr>
<tr>
<td><code>SetFbVerify X</code></td>
<td>Verifies the device is receiving commands X= on, off, sta</td>
</tr>
<tr>
<td><code>TrigCEC X</code></td>
<td>Triggers the stored CEC command to turn the display on and off X= on, off</td>
</tr>
<tr>
<td><code>TrigRS X</code></td>
<td>Triggers the RS-232 command from RS-232 or IP X= on, off, vol+, vol-, and mute</td>
</tr>
<tr>
<td><code>TrigIP X</code></td>
<td>Triggers the IP command from RS-232 or IP X= on, off, vol+, vol-, and mute</td>
</tr>
<tr>
<td><code>CtlType X</code></td>
<td>Sets the control type X= ip, rs-232, cec</td>
</tr>
<tr>
<td><code>CliMode X</code></td>
<td>Sets the control device's IP mode X= sta, login, non-login</td>
</tr>
<tr>
<td><code>CliUser X</code></td>
<td>Sets the IP username for login X= username, (blank)</td>
</tr>
<tr>
<td><code>CliPass X</code></td>
<td>Sets the IP password for login X= password, (blank)</td>
</tr>
<tr>
<td><code>CliIPAddr X</code></td>
<td>Sets the IP address of the controlled device X= ip, sta</td>
</tr>
<tr>
<td><code>CliPort X</code></td>
<td>Sets the IP port of the controlled device X= port, sta</td>
</tr>
<tr>
<td><code>AutoDispOff X</code></td>
<td>Enable or disable display auto off X= on, off, sta</td>
</tr>
<tr>
<td><code>AutoDispOn X</code></td>
<td>Enable or disable display auto on X= on, off, sta</td>
</tr>
<tr>
<td><code>AutoPwrMode X</code></td>
<td>Set the display mode for auto power on and off X= DISPAVON, DISPAVSW, AVSW, sta</td>
</tr>
<tr>
<td><code>APwrOffTime X</code></td>
<td>Sets how long after receiving no signal to trigger auto display off X= 1-240, sta</td>
</tr>
<tr>
<td><code>ProjSWMode X</code></td>
<td>Set delay time for the display on command to be sent X= 0-300, sta</td>
</tr>
<tr>
<td><code>ProjWarmUpT X</code></td>
<td>Set period of time after the display is turned on that the power command will not send X= 0-300, sta</td>
</tr>
<tr>
<td><code>VolKeyOPT X</code></td>
<td>Set the control type/device the volume button sends out X= 0-2</td>
</tr>
<tr>
<td><code>DispKeyLock X</code></td>
<td>Locks/unlocks the front panel display key X= on, off, sta</td>
</tr>
<tr>
<td><code>DispRS X</code></td>
<td>Sets the display command type to RS-232 X= on, off, sta</td>
</tr>
<tr>
<td><code>DispCEC X</code></td>
<td>Sets the display command type to CEC X= on, off, sta</td>
</tr>
<tr>
<td><code>DispIP X</code></td>
<td>Sets the display command type to TCP/IP X= on, off, sta</td>
</tr>
<tr>
<td><code>Display X</code></td>
<td>Triggers the currently set command type to send display commands X=on, off, sta</td>
</tr>
</tbody>
</table>

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

**Note:** If the command fails or is incorrect the feedback should be “Command FAILED”

**Volume Key**

<table>
<thead>
<tr>
<th>Key</th>
<th>Command</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>HDVS</td>
<td>Display on</td>
</tr>
<tr>
<td>1</td>
<td>RS-232</td>
<td>Display on</td>
</tr>
<tr>
<td>2</td>
<td>IP</td>
<td>Display on</td>
</tr>
</tbody>
</table>
**RS-232 Control Parameters**

Default baud rate to control the switcher is 115200.

*Note:* For the display's actual baud rate, refer to the owner’s manual

To change the baud rate of the switcher (for switcher control) or the zone output (for display/projector control), the commands below will be needed:

**Switcher parameter command**

\[
\text{CSpara[baudrate, data-length, parity, stop-bit]} \quad (\text{data-length, parity, and stop-bit for switcher must be 8, 0, 1})
\]

*e.g.* To change the baud rate to 38400 use \text{CSpara[38400, 8, 0, 1]}  

*Note:* Use this command if the connected control system does not output 115200

**Zone output parameter commands**

\[
\text{RS232para[baudrate, data-length, parity, stop-bit]} \quad \text{(Note: Use this command if the connected display uses a different baud rate)}
\]

*Note:* Use this command if the connected display uses a different baud rate

\[
\text{RxRSparaZ1[baudrate, data-length, parity, stop-bit]} \quad \text{(Note: RxRSparaZ1sta will display the current parameters of the HDVS-200-RX)}
\]

**RS232zone[command]**

Once the switcher and zone outputs have been set up for the best communication, commands can be sent to control the display. The commands will come from the user manual of the display or projector. The commands and any carriage returns/line feeds in the commands will need to be placed in the bracket.

*e.g.* To turn the display or projector on if the command is PWRON carriage return, use the command:

\[
\text{RS232zone[PWRON}_{cr}\text{]}_{cr}
\]

*Note:* \(cr\) = carriage return
### IP Commands

<table>
<thead>
<tr>
<th>Command</th>
<th>Feedback</th>
<th>Description</th>
</tr>
</thead>
</table>
| IPCFG or IPCFCGRx | IP Addr: x.x.x.x  
Netmask: x.x.x.x  
Gateway: x.x.x.x  
IP Port: x.x.x | Displays IP address configuration of the TX or of the RX when using IPCFCGRx |
| IPTimeout XX e.g. IPTimeout 120 | IPTimeout XX e.g. IPTimeout 120 | Determines amount of seconds of inactivity before TCP/IP disconnects          |
| IPQuit          | IPQuit                                        | Logs out of TCP/IP                                                          |
| IPAddUser       | TCP/IP username & password list:  
- user password  
- user password  
- user password | Will display a list of users                                                |
| IPAddUser X Y   | TCP/IP user was added e.g. IPAddUser Atlona 1234 (User=Atlona 1234=Password) | Add a user for TCP/IP control. X=User Y=Password                             |
| IPDelUser X     | TCP/IP user was deleted Delete a user from TCP/IP X=User (Ex. IPDelUser Atlona) | Delete a user from TCP/IP X=User (Ex. IPDelUser Atlona)                      |
| IPDHCP sta      | IPDHCP sta e.g. IPDHCP on | Displays the status of DHCP                                                  |
| IPDHCP on       | IPDHCP on                                     | Turns DHCP on                                                               |
| IPDHCP off      | IPDHCP off                                    | Turns DHCP off                                                              |
| IPStatic X Y Z  | IPStatic X Y Z e.g. IPStatic 192.168.1.1  
255.255.255.0 192.168.1.200 | Sets static IP address e.g. IPStatic Address(X) Netmask(Y) Gateway(Z)       |
| IPPort X        | IPPort X                                      | Set the TCP/IP port (ex. IPPort 230)                                        |
| ILogin sta      | ILogin sta e.g. ILogin on | Displays ILogin status e.g. ILogin is on                                    |
| ILogin on       | ILogin on                                     | Enables ILogin                                                              |
| ILogin off      | ILogin off                                    | Disables ILogin                                                             |
| Broadcast sta   | Broadcast sta                                 | Displays broadcast mode status                                              |
| Broadcast on    | Broadcast on                                  | Enables broadcast mode                                                     |
| Broadcast off   | Broadcast off                                 | Disables broadcast mode                                                    |

Each command is terminated with a carriage return. Feedback is terminated with a carriage return and line feed.  
**Note:** If the command fails or is incorrect the feedback should be “Command FAILED”
Connection Diagram (with HDVS-200-RX)

- **Video**
- **HDBaseT**
- **Audio**
- **Ethernet**
- **Dry CC**
- **Control**

![Connection Diagram](image-url)

- Document Camera
- Media Player
- Laptop
- AT-HDVS-200-TX
- AT-HDVS-200-RX
- AT-PA100-G2
- Drop down projector screen (contact closure controlled)
- Router
- Projector

ATLONA
Connecting Technology

atlona.com
Specifications

**Video Resolutions***

- **HDMI IN/OUT**
  - 4096x2160@24/25/30/50*/60Hz*, 3840x2160@24/25/30/50*/60Hz* (UHD), 2048x1080p, 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
  - 2560x2048, 2560x1600, 2048x1536, 1920x1200, 1680x1050, 1600x1200, 1600x900, 1440x900, 1400x1050, 1366x768, 1360x768, 1280x1024, 1280x800, 1280x768, 1152x864, 1024x768, 800x600, 640x480

- **VGA IN**
  - 1920x1200, 1680x1050, 1600x1200, 1600x900, 1440x900, 1400x1050, 1366x768, 1360x768, 1280x1024, 1280x800, 1280x768, 1152x864, 1024x768, 800x600, 640x480

- Color Space: YUV, RGB
- Chroma Subsampling: 4:4:4, 4:2:2, 4:2:0*
- Color Depth: 8-bit, 10-bit, 12-bit

**Audio**

- **Analog IN**
  - PCM 2Ch

- **HDMI / HDBaseT**
  - PCM 2Ch, LPCM 5.1, LPCM 7.1, Dolby Digital, DTS 5.1, Dolby Digital Plus, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos

- **Sample Rate**
  - 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz

- **Bit Rate**
  - up to 24-bit

**Distance**

- CAT5e/6 @ 4K: up to 70 m / up to 230 ft
- CAT5e/6 @ 1080p: up to 100 m / up to 328 ft
- CAT6a/7 @ 4K: up to 100 m / up to 328 ft

**Signal**

- Bandwidth: 10.2 Gbps
- CEC: Yes
- HDCP: Switchable - Compliant / Non-compliant

**Temperature**

- Operating: 0°C to 50°C / 32°F to 122°F
- Storage: -20°C to 60°C / -4°F to 140°F
- Humidity: 20 to 90% non-condensing

**Power**

- Consumption: 30W (when paired)

**Dimension**

- H x W x D: 38 x 127 x 102 (mm) / 1.5 x 5 x 4.02 (inch)

**Weight**

- Device: 0.29 kg / 0.64 lbs

**Certification**

- Product: CE, FCC

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*4096x2160@50/60Hz & 3840x2160@50/60Hz supported @ chroma subsampling 4:2:0 8-bit only
*Resolutions will differ when used with AT-HDVS-200-RX, view RX manual for compatible resolutions

**Note:** To ensure compatibility, please be certain both transmitter and receiver have blue HDBaseT ports. This ensures both products are PoE (48V) compliant. The HDVS-200-TX is not compatible with PoCC (black RJ45, 24V) devices.
Safety Information

Safeguards

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 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