

# OMEGA™

## 4K/UHD 6x2 Matrix Switcher

for HDMI, USB-C, and HDBaseT with USB



## Version Information

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| Version | Release Date | Notes   |
|---------|--------------|---------|
| 1       | June 2019    | Release |

## Welcome to Atlona!

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

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

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

## Sales, Marketing, and Customer Support

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### Main Office

Atlona Incorporated  
70 Daggett Drive  
San Jose, CA 95134  
United States

Office: +1.877.536.3976 (US Toll-free)  
Office: +1.408.962.0515 (US/International)

Sales and Customer Service Hours  
Monday - Friday: 6:00 a.m. - 4:30 p.m. (PST)

<http://www.atlona.com/>

### International Headquarters

Atlona International AG  
Ringstrasse 15a  
8600 Dübendorf  
Switzerland

Office: +41 43 508 4321

Sales and Customer Service Hours  
Monday - Friday: 09:00 - 17:00 (UTC +1)

## Operating Notes

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**IMPORTANT:** Visit <http://www.atlona.com/product/AT-OME-SW32> for the latest firmware updates and User Manual.

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

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## Coverage

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

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

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

OR

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

OR

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

Repair, replacement or refund of Atlona products is the purchaser's exclusive remedy and Atlona 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 products and is non-transferrable to any subsequent purchaser(s) or owner(s) of these products.

## Coverage Periods

Atlona 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.
- NOTE: Data cable (USB-C) and Wifi antenna covered by 1 year warranty.

### 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.

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Atlona recommends that end-purchasers contact their authorized Atlona dealer or reseller from whom they purchased their products. Atlona can also be contacted directly. Visit [www.atlona.com](http://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](http://www.atlona.com).

## Exclusions

This Limited Product Warranty excludes:

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

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

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- 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.

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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.

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

### 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](http://www.atlona.com).

## Important Safety Information



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



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

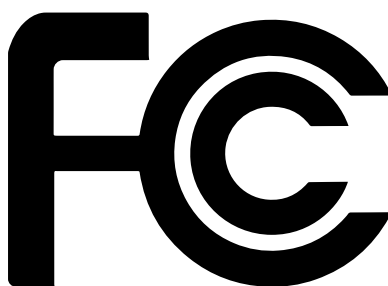


The information bubble is intended to alert the user to helpful or optional operational instructions in the literature accompanying the product.

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



## FCC Statement



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

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

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## Introduction

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The Atlona AT-OME-PS62 is a 6x2 matrix switcher with HDMI, USB-C, and HDBaseT inputs, plus HDMI and HDBaseT outputs. Part of the Omega™ Series of integration products for modern AV communications and collaboration, the OME-PS62 features HDBaseT extension for video up to 4K/60 4:2:0, plus embedded audio, control, Ethernet, and USB over distances up to 330 feet (100 meters). The HDMI and USB-C ports support video up to UHD/60 4:4:4. The OME-PS62 is HDCP 2.2 compliant and features 4K/60 4:4:4 upscaling and downscaling for the HDMI output. The integrated USB extension addresses the challenge of connecting between USB devices at remote locations, and is ideal for software video conferencing and touch or interactive displays. The OME-PS62 includes USB 3.0 and USB-C interfaces for three host PCs, plus two peripheral devices such as a camera, microphone, speaker phone, or keyboard and mouse. The OME-PS62 is ideal for a wide range of 4K presentation applications with Omega Series transmitters and receivers, with local HDMI and USB-C sources and the optional Gain™ 60 or Gain 120 amplifiers (purchasable through [atlona.com](http://atlona.com)).

## Features

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- Features two HDBaseT, three HDMI, and one USB-C input
- USB-C input for AV, data, and device charging
- Two selectable switching modes, including mirrored (default) HDMI and HDBaseT outputs, and matrixed outputs
- Transmits and receives audio, 4K/UHD video, and USB data up to 330 feet (100 meters) using HDBaseT
- Two USB 3.0 type B interfaces for connection to a host PC, plus two USB 3.0 type A ports for peripheral devices such as cameras, soundbars, or touch displays.
- 4K/UHD downscaling and upscaling on the HDMI output
- Supports IP, CEC, and bidirectional RS-232 to control local and remote displays
- Supplies industry standard IEEE 802.3af PoE over HDBaseT to Omega Series and other compatible transmitters and receivers
- Audio embedding and de-embedding, microphone/line level input with 48 volt phantom power and automatic ducking, and volume, mute, and five-band EQ for each output

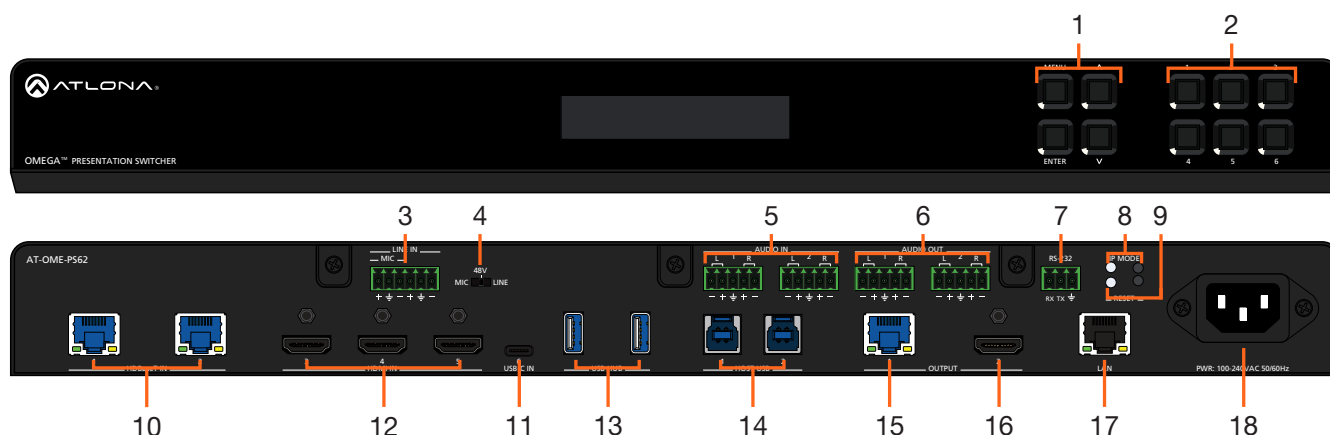
## Package Contents

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1 x AT-OME-PS62  
1 x Captive screw connector, 6-pin  
4 x Captive screw connector, 5-pin  
1 x Captive screw connector, 3-pin  
1 x USB-C cable  
4 x Mounting screws  
1 x Pair rack mount ears  
4 x Feet w/rubber grips  
1 x IEC power cord  
1 x Installation Guide



## Panel Description



### 1 Function Buttons

**MENU** - Access the front panel menu or use as a back button within the menu. The menu can be used to route inputs, change audio and EDID settings, and view device information.

**ENTER** - Used for making selection within the front panel OSD.

**^ and v** - Use to navigate through the front panel menu.

### 2 Number Buttons

Use for selection of inputs and outputs.

### 3. MIC/LINE input

Connect microphone or line input to this port.

### 4. MIC/LINE dip switch

Use to switch between MIC, 48V, and line level input.

### 5. AUDIO IN

Connect 2CH audio sources to these ports.

### 6. AUDIO OUT

Connect to an audio DSP, amplifier, or other audio distribution devices.

### 7. RS-232

Use for device or display control.

### 8. IP MODE LED and button

Press and hold the button for 5 seconds until the LED blinks to switch the IP mode between DHCP and Static IP modes. The LED will blink 4 times for DHCP and 2 times for static IP.

### 9. RESET LED and button

Press and hold the button for 5 seconds until the unit resets. The LED will blink 3 times as the unit resets to factory default settings.

### 10. HDBaseT IN

Connect a compatible HDBaseT transmitter to this port.

### 11. HDMI IN

Connect HDMI cables to these ports from HDMI sources.

### 12. USB-C IN

Connect a USB-C source to this port.

### 13. USB HUB

Connect USB devices to these ports. **e.g.** USB camera, mouse, etc.

### 14. HOST USB

Connect to a computer using a USB B to USB A cable. USB 3.0 signal will only pass when using the local USB hub devices.

### 15. HDBaseT Output

Connect a CAT5e/6/6a/7 cable from this port to an HDBaseT receiver.

### 16. HDMI Output

Connect an HDMI cable from here to an HDMI display.

### 17. LAN

Connect an Ethernet cable to this port for control of the unit or to pass Ethernet to a local device.

### 18. 100-240VAC 50/60Hz Power Port

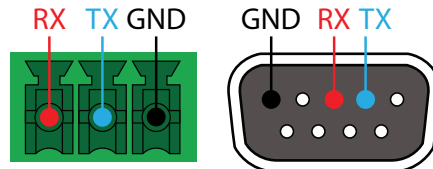
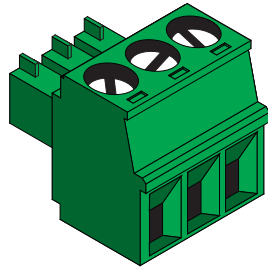
Connect the included IEC cord from this port to the wall for power.

## Installation

### Captive Screw Connections

#### RS-232

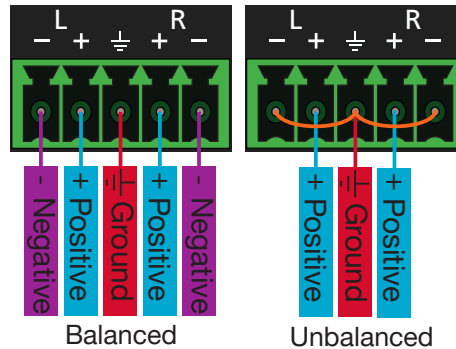
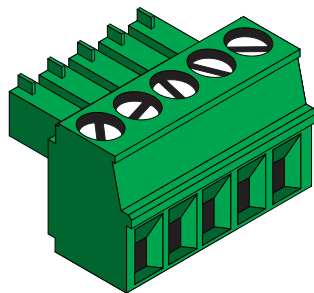
A 3-pin captive screw connector has been included for RS-232.



Pin out will be determined by the RS-232 cable and connect as RX (receive), TX (transmit) and  $\perp$  (Ground). Ground will be shared between port 1 and port 2.

#### Audio

Connect to an audio DSP, amplifier, or other audio distribution devices.



Use a jumper between the negative and ground pins when using an unbalanced connection.

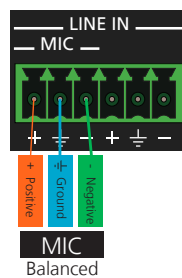
#### MIC / LINE



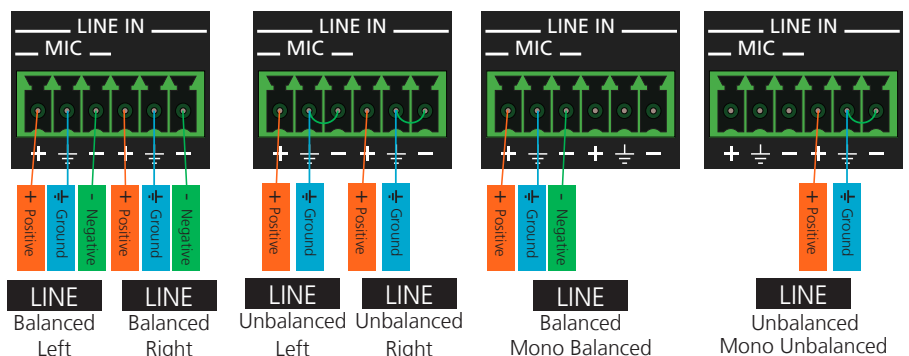
Connect dynamic or self-powered microphones in this mode.



Use this setting for phantom powered microphones. Supplies 48 volts.



Connect wireless microphone receivers (or other sources) with line level outputs using this setting. Either balanced, unbalanced, mono, or two channel connections may be used.

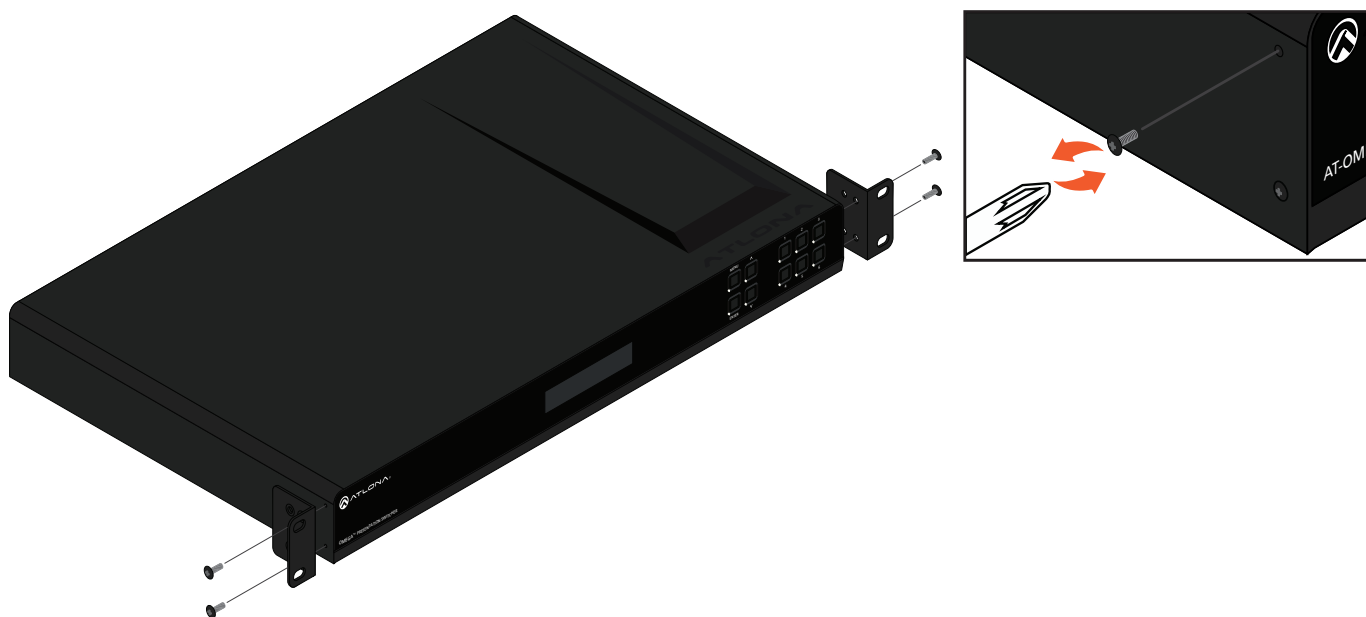


## Mounting Instructions

The AT-OME-PS62 can be mounted in a standard 19-inch rack or placed freestanding on top of a desk or table.

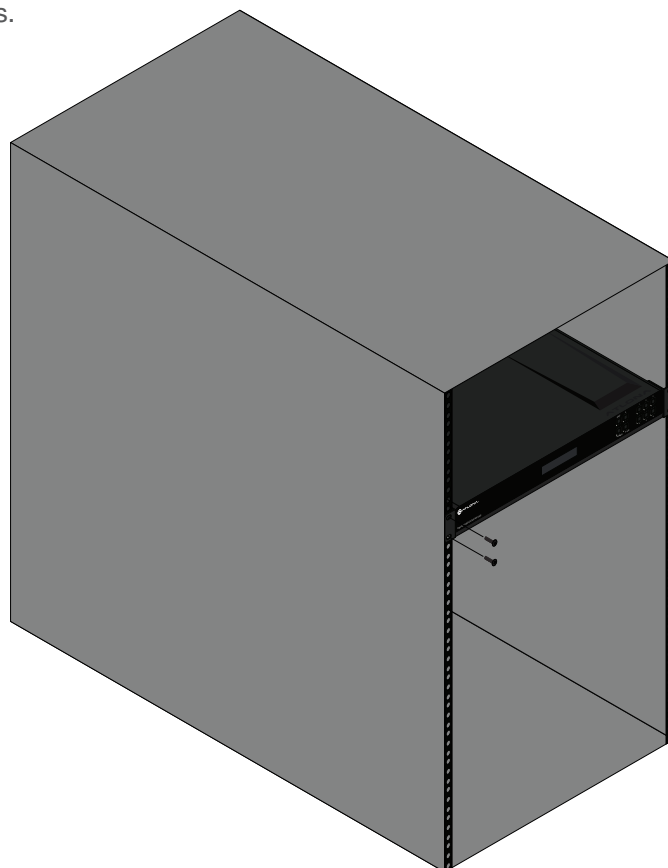
### Rack Installation

1. Remove the front two case screws from the sides of the case.
2. Attach the included rack ears to each side of the AT-OME-PS62 using the case screws.



3. Install the OME-PS62 into a rack, using four rack screws.

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



### Surface Mounting

The AT-OME-PS62 can be placed freestanding on top of a desk, a table, or in a cabinet. To prevent damage to the surfaces or unnecessary movement of the matrix, four feet have been included.

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



### Cable Recommendation Guidelines

Refer to the tables below for recommended cabling when using Altona products with HDBaseT. The green bars indicate the signal quality when using each type of cable. Higher-quality signals are represented by more bars.

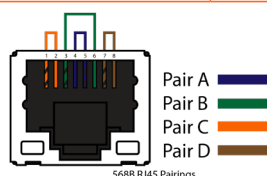
| Core                     | Shielding        | CAT5e | CAT6 | CAT6a | CAT7  |
|--------------------------|------------------|-------|------|-------|-------|
| Solid                    | UTP (unshielded) | ■     | ■■■  | ■■■■  | N/A   |
|                          | STP (shielded)   | ■■    | ■■■■ | ■■■■■ | ■■■■■ |
| Performance Rating (MHz) |                  | 350   | 500  | 600   | 800   |



**IMPORTANT:** Stranded or patch cables are not recommended due to performance issues.

| Cable               | Max. Distance @ 4K    | Max. Distance @ 1080p |
|---------------------|-----------------------|-----------------------|
| CAT5e               | 295 feet (90 meters)  | 330 feet (100 meters) |
| CAT6 / CAT6a / CAT7 | 330 feet (100 meters) | 330 feet (100 meters) |

Use of a TIA/EIA 568B termination is recommended for optimal performance.



## Connection Instructions

1. Connect compatible HDBaseT transmitters (e.g. AT-OME-EX-TX) to the HDBaseT input ports.
2. Connect HDMI and USB-C sources to the HDMI and USB-C input ports.
3. \*Optional\* Connect 2CH sources to the analog AUDIO IN ports.
4. \*Optional\* Connect a MIC or line input to the MIC/LINE input port and use the dip switch to ensure the port is in the correct mode.
5. \*Optional\* Connect the 2CH analog AUDIO OUT ports to an audio DSP, amplifier, or other audio distribution devices.
6. \*Optional\* Connect USB devices (e.g. USB camera) to the USB hub ports.
7. \*Optional\* Connect the HOST USB port to a computer using a USB B to USB A cable (cable not provided).
8. \*Optional\* For control, connect to the 3-pin captive screw RS-232 port.
9. \*Optional\* Connect a network switch to the LAN port, for IP control or system configuration.
10. Connect an HDMI cable from the HDMI output port to a local display.
11. Connect a compatible HDBaseT Receiver (e.g. AT-OME-EX-RX or AT-OME-SR21) to the HDBaseT output port.
12. Connect the included IEC power cord from the power port to a compatible power outlet.

## IP Modes

### DHCP

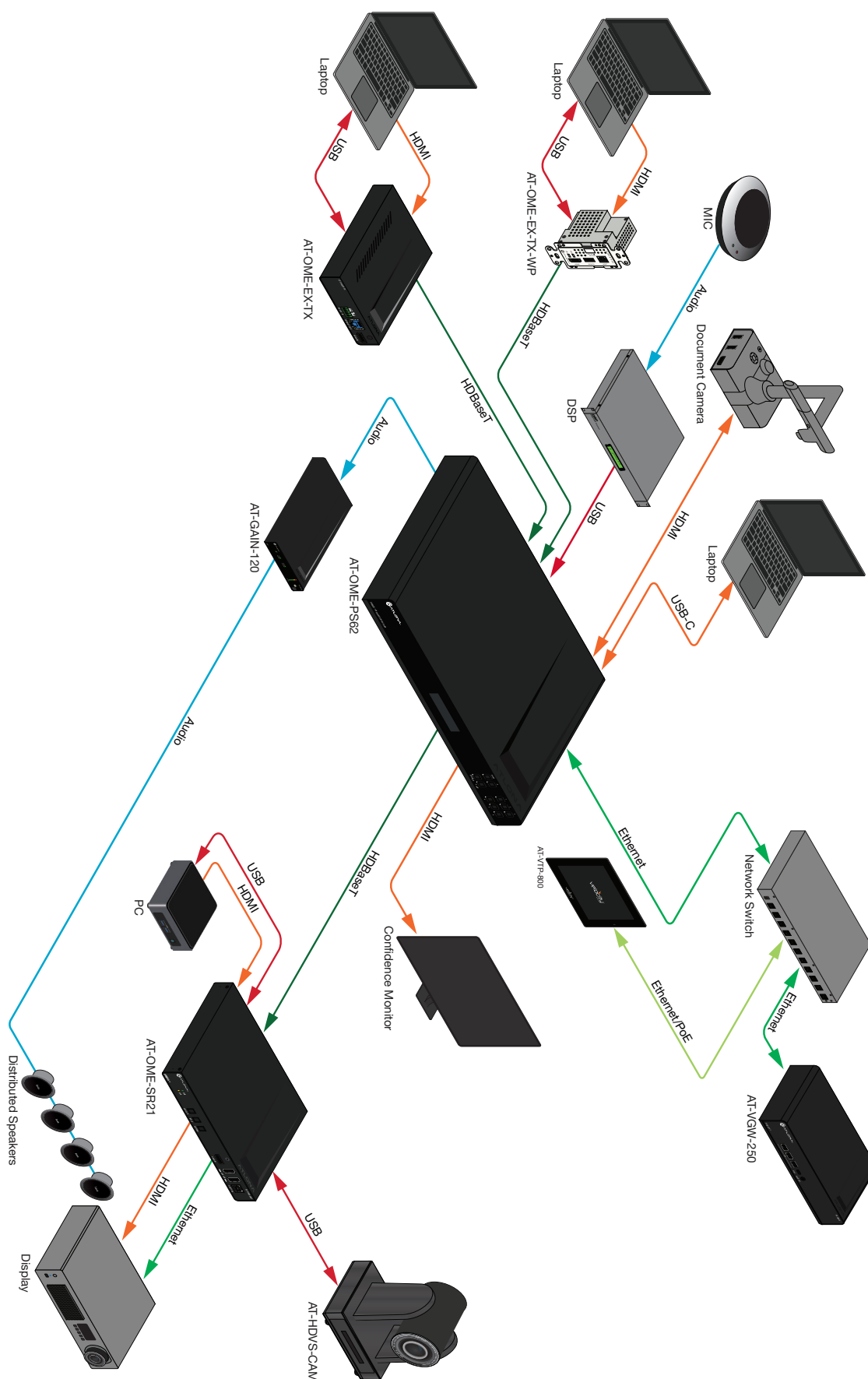
By default, the AT-OME-PS62 is set to DHCP mode. In this mode, when the AT-OME-PS62 is connected to the Local Area Network (LAN), it will automatically be assigned an IP address by the DHCP server (if available). Press the IP MODE button to show the IP address in the top left corner of the display connected to the HDMI output.

### Static

If no DHCP server is available, or a static IP is required, the OME-PS62 can be set to static IP mode using the IP mode button.

- Press and hold the **IP MODE** button for 5 seconds to switch to static IP mode, the LED will blink 2 times when it goes into Static IP mode. In this mode, the AT-OME-PS62 will be set to the following:  
IP address: 192.168.1.254  
Subnet mask: 255.255.0.0  
Gateway: 192.168.1.1
- To switch back to DHCP, press and hold the IP mode button for 5 seconds. The LED will blink 4 times when successfully put into DHCP mode.

## Connection Diagram



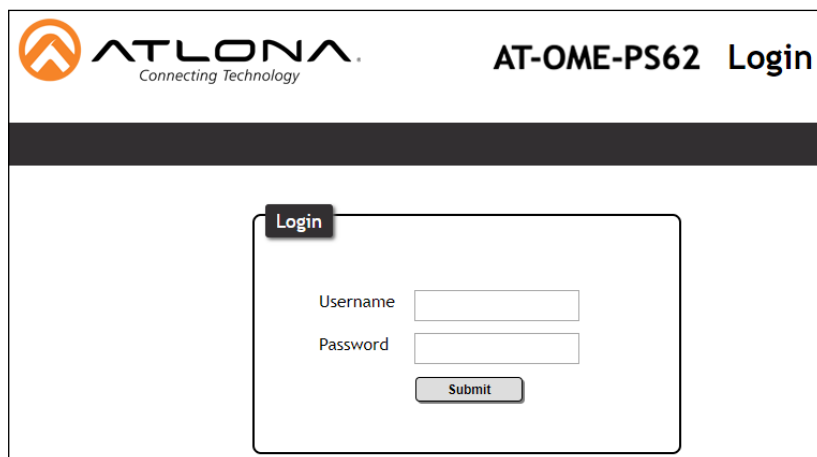
## WebGUI

The AT-OME-PS62 includes a built-in webGUI, which allows easy remote management and control of all features. Follow the instructions below to access the webGUI.

1. Make sure that an Ethernet cable is connected between the **LAN** port on the AT-OME-PS62 and the network.
2. Use an IP scanner to determine the IP address of the unit.
3. Launch a web browser and enter the IP address in the address bar.
4. The AT-OME-PS62 **Login** page will be displayed.
5. Enter the following information on the **Login** page.

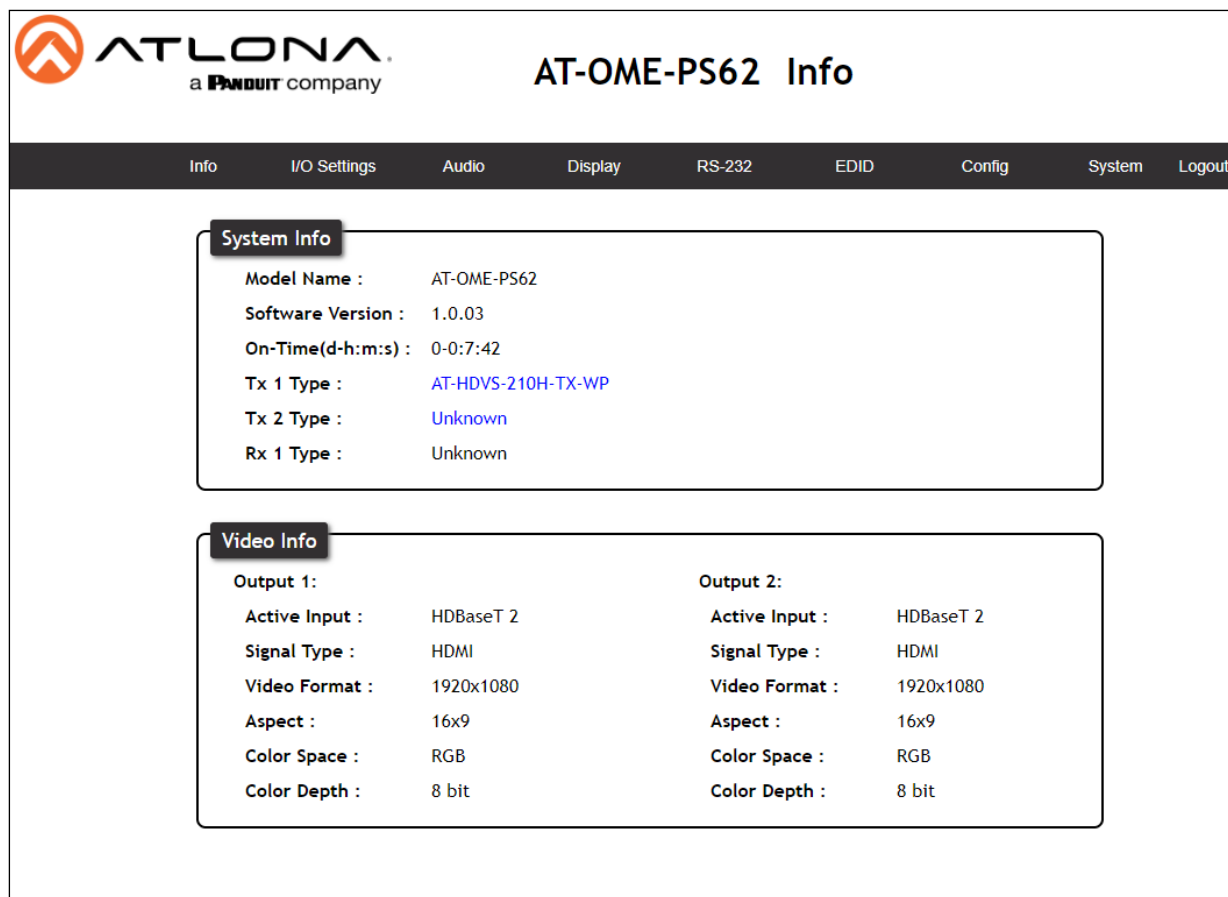
Login: admin

Password: Atlona



**NOTE:** If the login and password are entered wrong six times, the unit will lock the login screen for two minutes.

6. Click the Login button. The info page will display, giving all the general information of the AT-OME-PS62.



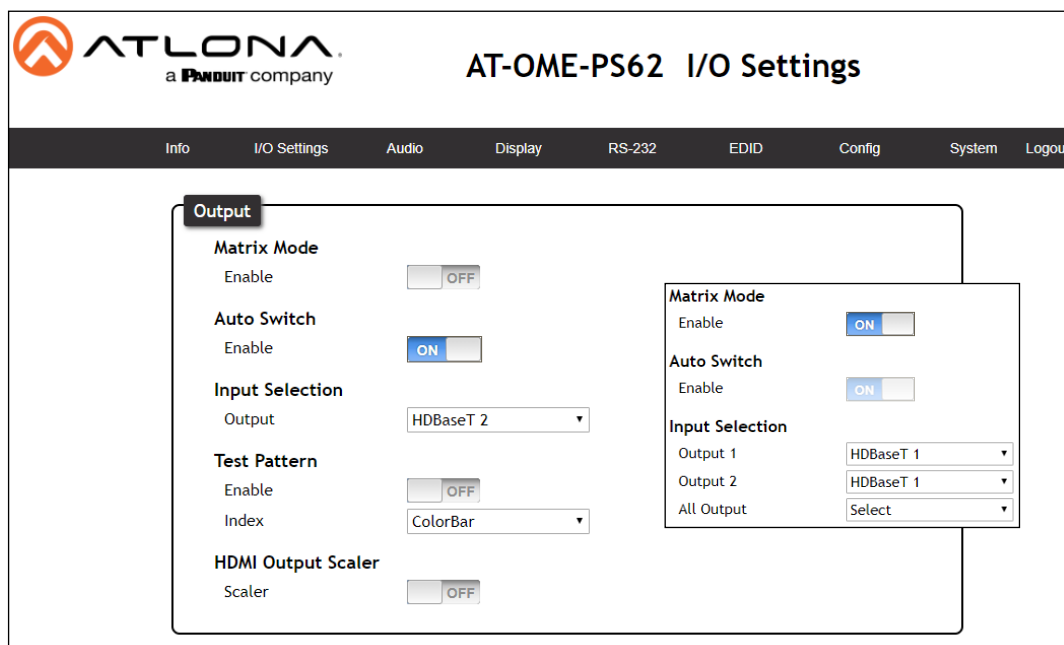
| System Info        |                    |
|--------------------|--------------------|
| Model Name :       | AT-OME-PS62        |
| Software Version : | 1.0.03             |
| On-Time(d-h:m:s) : | 0-0:7:42           |
| Tx 1 Type :        | AT-HDVS-210H-TX-WP |
| Tx 2 Type :        | Unknown            |
| Rx 1 Type :        | Unknown            |

| Video Info       |           |                  |           |
|------------------|-----------|------------------|-----------|
| <b>Output 1:</b> |           | <b>Output 2:</b> |           |
| Active Input :   | HDBaseT 2 | Active Input :   | HDBaseT 2 |
| Signal Type :    | HDMI      | Signal Type :    | HDMI      |
| Video Format :   | 1920x1080 | Video Format :   | 1920x1080 |
| Aspect :         | 16x9      | Aspect :         | 16x9      |
| Color Space :    | RGB       | Color Space :    | RGB       |
| Color Depth :    | 8 bit     | Color Depth :    | 8 bit     |

## I/O Settings

Select I/O Settings from the top navigation to adjust routing and video settings.



### Output

**Matrix Mode** - When enabled, the outputs will switch independently. When disabled (default), the outputs will mirror each other.

**Auto Switch** - When enabled, the input will switch to the most recently plugged in. This is only available when Matrix mode is disabled.

**Input Selection** - Manually route ports. Only one port will be switchable when matrix mode is disabled. When matrix mode is enabled, it will have the option to switch both ports independently or use the all output selection to select the same source for both outputs.

**Test Pattern** - Disabled by default. When enabled, output 1 will display one of the three test pattern options: ColorBar, CrossHatch, and Slash.

**HDMI Output Scaler** - By default, the scaler is disabled. When enabled, new options will appear.



**HDMI Output Scaler**

Scaler ☒ ON

Resolution 1080p60

Aspect Ratio Keep

Over Scan

Enable ☐ OFF

Horizontal Size 0 %  +

Vertical Size 0 %  +

Brightness 30 %  +

Contrast 30 %  +

Saturation 30 %  +

Sharpness 30 %  +

Hue 30 %  +

Reset To Default

## HDMI Output Scaler

Scaler - When enabled, will display extra options. This is for the HDMI output only.

Resolution - Select the output resolution the source signal will be scaled to from the drop down menu.

Scaling options: 1024x768, 1280x768, 1280x800, 1360x768, 1600x1200, 1920x1200, 2048x1080, 1280x720p50, 1280x720p60, 1920x1080p24, 1920x1080p25, 1920x1080p50, 1920x1080p60 (default), 3840x2160p24, 3840x2160p25, 3840x2160p30, 3840x2160p50, 3840x2160p60, 4096x2160p24, 4096x2160p25, 4096x2160p30, 4096x2160p50, 4096x2160p60



**NOTE:** Based on the selection from the drop down menu, the scaler will adjust not only resolution but frame rate as well. All VESA resolutions will output at 60Hz when using the scaler.

Aspect Ratio - Select between Keep (which will keep the aspect ration of the source device) and Fill (which will adjust the picture to fill the display).

Overscan - Enable to be able to manually adjust the horizontal and vertical size of the source image. Default is 0 and can be adjust from 0% to 50%.

Brightness, Contrast, Saturation, Sharpness, Hue - Adjust the output's brightness, contrast, saturation, sharpness, and hue manually. Default is 0% and can be adjusted from 0% to 60%.

Reset To Default - Press the Reset button to set all the scaling options back to factory defaults.

**Input**

**HDCP Settings**

HDBaseT 1 ☒ ON

HDBaseT 2 ☒ ON

HDMI 3 ☒ ON

HDMI 4 ☒ ON

HDMI 5 ☒ ON

USB-C 6 ☒ ON

HelpTip:  
 This section is meant for applications where Video conferencing system is connected to the video output of the PS62.


## Input

HDCP - On - This mode is selected by default. The PS62 will report HDCP compliant to the selected sources. If the outputs are not HDCP compliant, they will receive no signal from the source.

HDCP - Off - When selected, the PS62 will report non-HDCP to the source, so it will only send non compliant source signals. This is especially good for presentation that are using sources that automatically report all signals as HDCP compliant even when no HDCP is necessary (e.g. apple computers with spreadsheets and other non compliant presentation material).

## Audio

Select Audio from the top navigation to adjust output levels and MIC options.


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**AT-OME-PS62 Audio**

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

Audio Output 1 configuration

Source HDBaseT Output

Ducking OFF

Attack Time 1 ms

Release Time 1 ms

Program Decrease 0 dB

Trigger Level -60 dB

DownMix OFF

AUX 1 -90 dB

AUX 2 0 dB

AUX 3

Line -90 dB

MIC 0 dB

Audio Output 2 configuration

Source HDMI Output

Ducking OFF

Attack Time 300 ms

Release Time 1000 ms

Program Decrease 20 dB

Trigger Level -35 dB

DownMix OFF

AUX 1 0 dB

AUX 2 0 dB

AUX 3

Line 0 dB

MIC 0 dB

### Audio Output 1 & 2 configuration

Source - Select between HDMI Output, HDBaseT Output, Aux 1 (AUDIO IN 1), Aux 2 (AUDIO IN 2), and Aux 3 (LINE IN) to.

Ducking - Enable ducking to have the source audio adjust when receiving active MIC input.

Attack Time - Set the delay before ducking begins after detecting signal from a microphone.

Release Time - Sets the delay time after no signal is detected that ducking stops.

Program Decrease - Set the amount to ensure the program level is low enough when ducking is triggered that the speaker/audio is heard.

Trigger Level - Set the level of sound from the MIC that will trigger ducking.



DownMix - Sets AUX source to mix output mono (enabled) or two channel (disabled).

Mixer - Mix analog audio sources in with program audio.










AT-OME-PS62

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**Master Volume**

Output 1    0 dB    -        +  
Output 2    0 dB    -        +

**Input Volume**

HDBaseT 1    0 dB    -        +  
HDBaseT 2    0 dB    -        +  
HDMI 3    0 dB    -        +  
HDMI 4    0 dB    -        +  
HDMI 5    0 dB    -        +  
USB-C 6    0 dB    -        +  
AUX 1    0 dB    -        +  
AUX 2    0 dB    -        +  
AUX 3    0 dB    -        +






### Master Volume

Output 1 & 2 - Adjusts the output volume for the HDMI and HDBaseT outputs. Default is 0dB and can be adjusted from -90dB to 10dB.






### Input Volume

Level Adjustment - Adjusts the input volume for each individual audio source. Default is 0dB and can be adjusted from -90dB to 10dB.

**EQ Output 1**

Band 1 (60Hz)    0 dB    -        +  
Band 2 (240Hz)    0 dB    -        +  
Band 3 (1000Hz)    0 dB    -        +  
Band 4 (4000Hz)    0 dB    -        +  
Band 5 (8000Hz)    0 dB    -        +

**EQ Output 2**

Band 1 (60Hz)    0 dB    -        +  
Band 2 (240Hz)    0 dB    -        +  
Band 3 (1000Hz)    0 dB    -        +  
Band 4 (4000Hz)    -12 dB    -        +  
Band 5 (8000Hz)    12 dB    -        +

### EQ Output 1 & 2


Band level - Use the slider to adjust each individual band of the output volume. Default is 0dB and can be adjusted from -12dB to 12dB.

## Display

Select Display from the top navigation to adjust display control settings.



**NOTE:** The Display page is only available when Matrix mode is disabled.


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**AT-OME-PS62 Display**

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

Display Control Guidelines:

1. If OME-RX is used as a receiver, please configure display control settings on OME-PS62.
2. If OME-SR21 is used as a receiver, be aware that SR21 has a local hdmi input and if selected, it will show different content then PS62's HDMI output.

**CEC**

**CEC Command - HDBaseT Output**  
 Power    
 Volume

**CEC Command - HDMI Output**  
 Power    
 Volume

**System Settings**

Display Auto Power   
 Auto power off timer 15 Seconds ▾  
 Lamp cool down timer(Sec.) 10 ▾  
 Display Warm-Up Timer(Sec.) 10 ▾  
 Control Type CEC ▾

**TCP/IP Settings of Controlled Device**

IP Mode Non-Login ▾  
 IP Address 10.20.50.35  
 Port 23  
 Username admin  
 Password \*\*\*\*\*

**RS232/IP commands**

Manufacturer Generic ▾  
 Products Generic ▾  
 Model Generic ▾  
 Display Commands  
 [Please use '\x' as a delimiter for HEX values]

**Repeat Command**  
 Status   
 Times 2 ▾

ON PW 1   
 OFF PW 0   
 Volume+ VOL+   
 Volume- VOL-   
 Mute MUTE   
 Mute On MUTE ON   
 Mute Off MUTE OFF

### CEC Command HDBaseT and HDMI

**Power** - Using CEC protocol, the PS62 will send the on and off commands out the HDMI outputs of the PS62 and compatible HDBaseT receiver.

**Volume** - Pressing these buttons will send the CEC commands for volume up, down, and mute, out the HDMI outputs of the PS62 and compatible HDBaseT receiver.

### System Settings

**Display Auto Power** - Enable to send the programmed command to the display to turn on or off when detecting or losing A/V signals.

**Auto power off timer** - Sets the period of time between the loss of A/V signal and when the display off command is sent. Default is 15 seconds and can be adjusted from 5 seconds to 1 hour.

**Lamp cool down timer (Sec.)** - Sets the time between when projector lamp has been turned off to when it can receive new commands. Default is 10 seconds and can be adjusted from 10 seconds to 300 seconds.

**Display Warm-Up Timer (Sec.)** - Sets the time between when the projector lamp has been turned on to when it can receive new commands. Default is 10 seconds and can be adjusted from 10 seconds to 300 seconds.

**Control Type** - By default, CEC is selected for control of the display. IP and RS-232 can also be selected. When IP or RS-232 are selected, more fields are available.

TCP/IP Settings of Controlled Device

IP Mode

Non-Login ▼

IP Address

10.20.50.35

Port

23

Username

admin

Password

•••••

Save

### TCP/IP Settings of Controlled Device (only available when IP is selected)

IP Mode - Toggle telnet login mode between Non-Login and Login. If set to Login, a username and password will be required to control the controlled device via TCP/IP.

IP Address - Sets to the IP of the controlled device/display.

Telnet Port - Set the telnet port of the controlled device for control. Default is 23.

Username & Password - Sets the username and password that is required when login mode is enabled.

RS232/IP commands

Manufacturer

Generic ▼

Products

Generic ▼

Model

Generic ▼

Display Commands  
[Please use \x as a delimiter for HEX values]

Repeat Command

Status

Times

2 ▼

ON

PW 1

Send

OFF

PW 0

Send

Volume+

VOL+

Send

Volume-

VOL-

Send

Mute

MUTE

Send

Mute On

MUTE ON

Send

Mute Off

MUTE OFF

Send

Save

Revert

RS232/IP commands

Manufacturer

Generic ▼

Products

Generic ▼

Model

Generic ▼

Repeat Command

Status

Times

2 ▼

ON

PW 1

Send

OFF

PW 0

Send

Volume+

VOL+

Send

Volume-

VOL-

Send

Mute

MUTE

Send

Mute On

MUTE ON

Send

Mute Off

MUTE OFF

Send

RS232/IP commands

Manufacturer

Panasonic ▼

Products

Panasonic Projector ▼

Model

Panasonic Projector ▼

[Please use \x as a delimiter for HEX values]

### RS-232 / IP Commands

Manufacturer, Products, Models - Select the make and model of the display for control. Commands have been programmed into the PS62 for a wide range of products. If the current display is not found within the database, use generic and manually adjust the command fields.

Repeat Command - Enable Status to repeat the commands. Default repeat number is 2 and can be adjusted from 2 to 4 times.

Commands: On/Off/Volume/Mute - These fields will automatically be filled with the correct command when selecting a manufacturer and product from the drop down menus. If manually entering the commands, type them into the fields next to the command name.

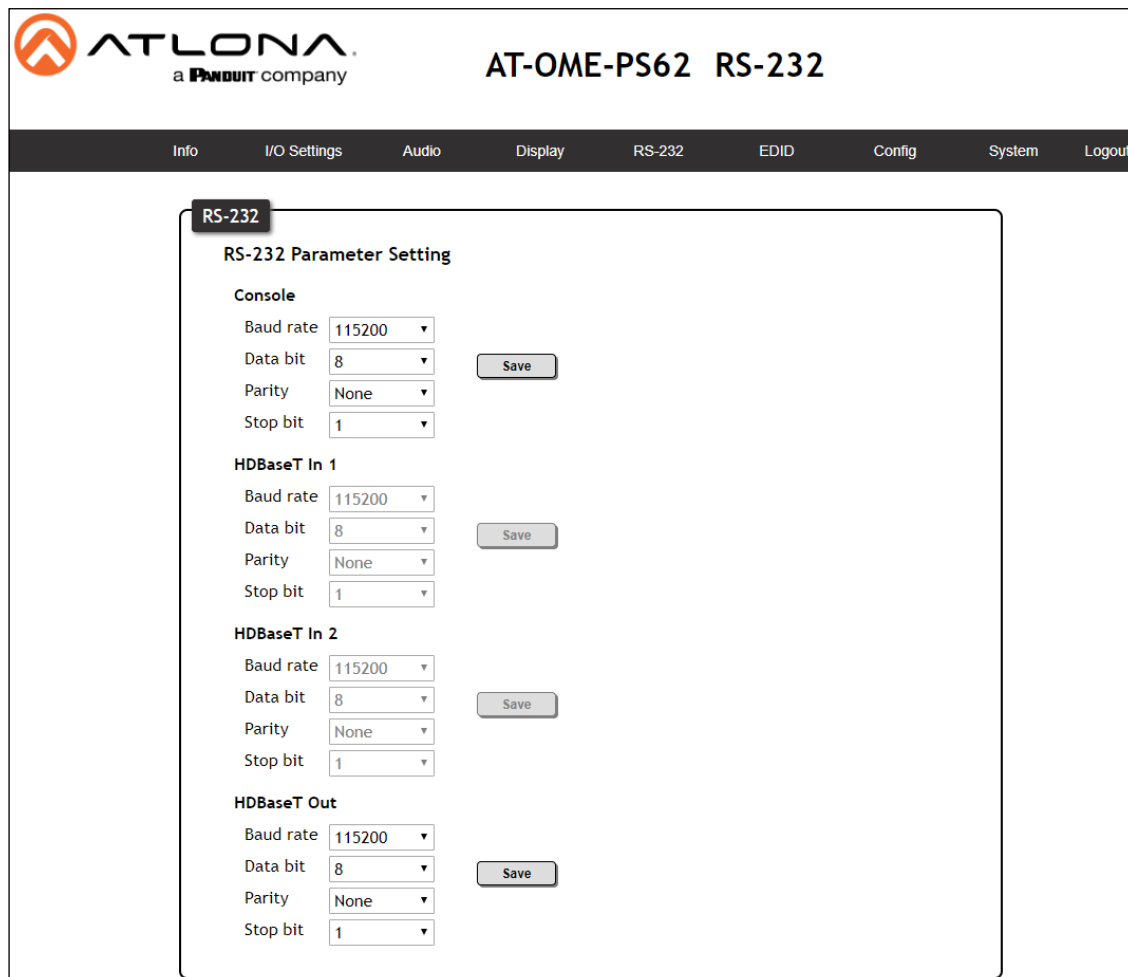
Send - Use this button to send the command to the display, this can be used while manually typing the commands to ensure the commands are correct.

Save - Save the commands to the webGUI. Manufacturer, products, and Model will revert to Generic but the commands will be saved from the previously selected and saved Manufacturer, products, and model selection.

Revert - Sets the commands back to the previously saved settings.

## RS-232

Select RS-232 from the top navigation to adjust the parameters of the RS-232 ports.



The screenshot shows the AT-OME-PS62 RS-232 webGUI interface. The top navigation bar includes links for Info, I/O Settings, Audio, Display, RS-232, EDID, Config, System, and Logout. The RS-232 section is active, displaying the 'RS-232 Parameter Setting' form. This form contains four sections: Console, HDBaseT In 1, HDBaseT In 2, and HDBaseT Out. Each section has dropdown menus for Baud rate (115200), Data bit (8), Parity (None), and Stop bit (1), followed by a 'Save' button.

### RS-232 Parameter Setting

**Console** - Select the baud rate, data bit, parity, and stop bit to match the control system's parameters. Defaults are 115200, 8, None, and 1.

**HDBaseT In 1** - Select the baud rate, data bit, parity, and stop bit that will be sent from the HDBaseT IN port to the connected HDBaseT transmitter. This should be set to match the source device being controlled by the transmitter. Defaults are 115200, 8, None, and 1.

**HDBaseT In 2** - Select the baud rate, data bit, parity, and stop bit that will be sent from the HDBaseT IN port to the connected HDBaseT transmitter. This should be set to match the source device being controlled by the transmitter. Defaults are 115200, 8, None, and 1.

**HDBaseT Out** - Select the baud rate, data bit, parity, and stop bit that will be sent from the HDBaseT OUT port to the connected HDBaseT receiver. This should be set to match the source device being controlled by the receiver. Defaults are 115200, 8, None, and 1.

## EDID

Select EDID from the top navigation to save/load EDIDs.



### AT-OME-PS62 EDID

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

#### EDID Settings

|         |                      |
|---------|----------------------|
| Input 1 | Connected Displays ▼ |
| Input 2 | Connected Displays ▼ |
| Input 3 | Connected Displays ▼ |
| Input 4 | Connected Displays ▼ |
| Input 5 | Connected Displays ▼ |
| Input 6 | Connected Displays ▼ |

#### EDID Saved

MEM 1: Mem 1

save from

Select ▼

Save

## EDID

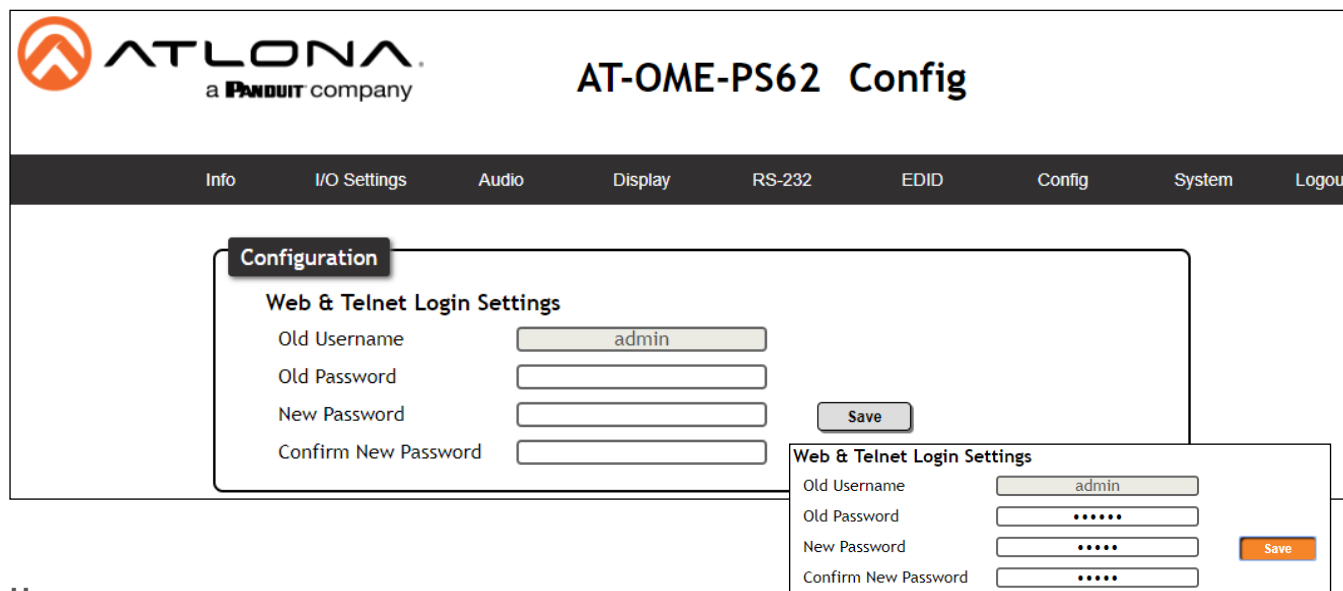
EDID Settings - Use the drop down menu to select from default (highest common resolution between source and display), 12 internal EDIDs, and previously saved EDIDs.

EDID Saved - The ID field will display the memory # and currently saved EDID name, select the output from the drop down menu to be saved. Once the output is selected, press the save button to make it available in the EDID settings drop down menus.

**i NOTE:** Output 1 provides automatic 4K to 1080p scaling. In order for the scaling to be.

## Config

Select Config from the top navigation to change the user password.



### Users

Admin Password - Update the admin password for the switcher. Only the admin password may be changed, the username will remain admin.

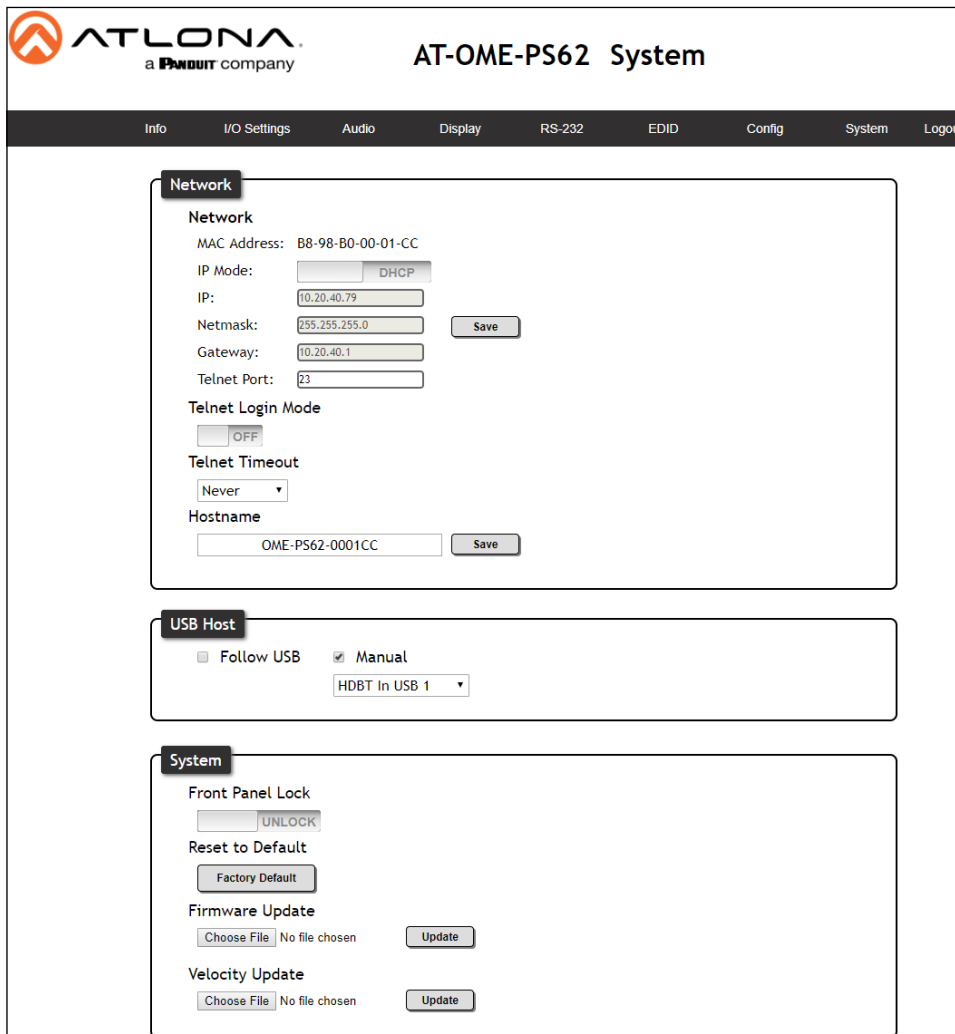
**NOTE:** The passwords cannot contain any special characters. e.g. !@#\$%^&\*?+-;,'".

Once the new password has been entered, press the Save button to make the password live. The user will be logged out and must log back in with the new password.



## System

Select System from the top navigation to adjust network, USB, and general system options.



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**AT-OME-PS62 System**

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

**Network**

**Network**  
 MAC Address: B8-98-B0-00-01-CC  
 IP Mode: ☐ DHCP ☐ Static  
 IP:   
 Netmask:    
 Gateway:   
 Telnet Port:   
**Telnet Login Mode**  
☐ OFF ☐ ON  
**Telnet Timeout**  
  
**Hostname**

**USB Host**

☐ Follow USB ☒ Manual

**System**

**Front Panel Lock**

**Reset to Default**

**Firmware Update**  
 No file chosen

**Velocity Update**  
 No file chosen

### Network

MAC Address - Displays the MAC address of the unit.

IP Mode - Switch between static and DHCP IP modes.

IP, Netmask, Gateway - This will display the unit's current DHCP IP settings. When set to static, fill in the IP address, netmask, and gateway.

Telnet Port - Set the telnet port if needed for control. Default port is 23.

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

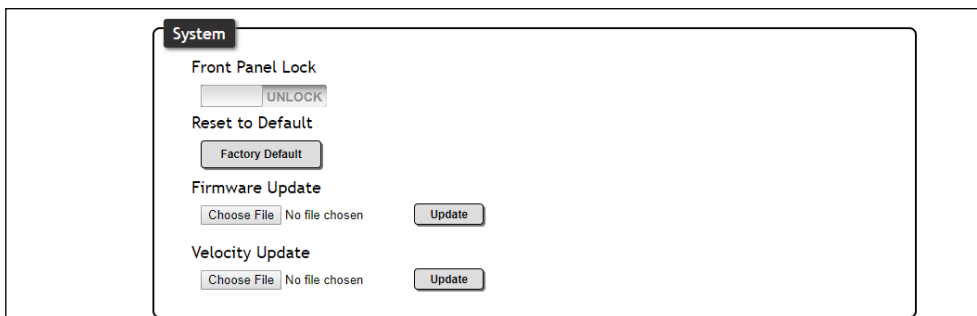
Telnet Timeout - Set the amount of time between actions before the current user is logged out. Default is 10000 seconds.

Hostname - Set the name for the matrix, this will show up in network discovery.

### USB Host

Follow USB - Sets the USB hosts to follow the most recently connected device. If a host is connected, then it will auto switch to that source. If the current host loses signal or stops broadcasting, it will fall back to the previously connected active device.

Manual - Select which host will be used. Select between local USB Hosts, USB-C, and compatible connected HDBaseT devices.

The screenshot shows a web interface with a 'System' tab selected. It contains four sections: 'Front Panel Lock' with an 'UNLOCK' button; 'Reset to Default' with a 'Factory Default' button; 'Firmware Update' with a 'Choose File' button, the text 'No file chosen', and an 'Update' button; and 'Velocity Update' with a 'Choose File' button, the text 'No file chosen', and an 'Update' button.

## System

Power - Toggle the PS62 between on and standby (off) mode.

Lock - Lock or unlock the front panel buttons.

Reset to Default- Press the Factory Default button to set the unit back to all factory settings, including IP mode.

Firmware update - Use the choose file button to search the local PC for the firmware file. Once selected, press the update button to start the firmware update.



**NOTE:** Firmware updates and release notes can be found at <https://atlona.com/product/AT-OME-PS62/> .

# Appendix

## Specifications

| Video              |  |
|--------------------|--|
| HDMI               | 2.0 (1.4 when downscaled)  |
| HDCP               | 2.2 / 1.4  |
| UHD/HD/SD          | 4096x2160@60 <sup>(1)</sup> /50/30/25/24Hz, 3840x2160@60 <sup>(1)</sup> /50/30/25/24Hz, 1080p@60/59.9/50/30/29.97/25/24/23.98Hz, 1080i@30/29.97/25Hz, 720p@60/59.94/50Hz, 576p@50Hz, 576i@25Hz, 480p@60/59.96Hz, 480i@30Hz |
| VESA               | 2560x1600, 2048x1536, 1920x1200, 1680x1050, 1600x1200, 1440x900, 1400x1050, 1280x1024, 1280x800, 1366x768, 1360x768, 1152x864, 1024x768, 800x600, 640x480  |
| USB-C              | Up to 4K/UHD @ 60Hz  |
| Color Space        | YUV, RGB   |
| Chroma Subsampling | 4:4:4, 4:2:2, 4:2:0  |
| Color Depth        | 8-bit, 10-bit, 12-bit  |
| HDR                | HDR10, Hybrid-Log Gamma (HLG), and Dolby® Vision™ @ 60Hz; HDMI and USB-C ports only  |

| Audio                               |  |
|-------------------------------------|--|
| HDMI / HDBaseT Pass-Through Formats | PCM 2.0, LPCM 5.1, LPCM 7.1, Dolby® Digital, Dolby Digital Plus™, Dolby TrueHD, Dolby Atmos®, DTS® Digital Surround™, DTS-HD Master Audio™, and DTS:X® |
| Bit Depth                           | 24 bits  |
| <b>Analog Audio</b>                 |  |
| Format                              | Stereo 2-Channel   |
| Balanced Output                     | +4 dBu nominal gain, +20 dB headroom   |
| Frequency Response                  | 20 Hz to 20 kHz, ± 0.5 dB  |
| Impedance                           | 150 Ω  |
| Stereo channel separation           | > 90 dB  |
| THD+N                               | < 0.004% at 20 Hz to 20 kHz  |
| SNR                                 | > 103.7 dB at 1 kHz, zero clipping @ 0 dBFS, unweighted  |
| EQ                                  | 5 band, 63Hz, 85Hz, 250Hz, 1kHz, 4kHz  |
| <b>MIC</b>                          |  |
| Phantom Power                       | 48V, enable and disable through webGUI / 3-pin MIC option  |
| Ducking                             | Selectable on/off  |
| Trigger level                       | Selectable, -60 to -10 dB  |
| Attack Time                         | Selectable, 1 to 5000 ms   |
| Release Time                        | Selectable, 1 to 5000 ms   |
| Sample Rate                         | 32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz   |

| USB               |   |
|-------------------|---|
| Compliance        | 2.0   |
| Maximum Data Rate | 120 Mbps                                      |
| USB-C             | Supports Audio, Video, and device & host data |

| Control     |  |
|-------------|--|
| RS-232      | Device control and configuration<br>Bidirectional pass-through from control system over HDBaseT<br>Supported baud rates: 2400, 4800, 9600, 19200, 38400, 57600, 115200 |
| IP          | Protocols: Https, Telnet, mDNS<br>Modes: DHCP, Static - selectable through front panel and webGUI  |
| CEC Support | Yes  |

## Appendix

| Resolution / Distance | 4K/UHD - Feet / Meters |     | 1080p - Feet / Meters |     |
|-----------------------|------------------------|-----|-----------------------|-----|
| HDMI IN/OUT           | 15                     | 5   | 30                    | 10  |
| CAT5e                 | 295                    | 90  | 330                   | 100 |
| CAT6/6a/7             | 330                    | 100 | 330                   | 100 |

| Connectors, Controls, and Indicators                                  |  |
|---|--|
| HDMI IN   | 3 - Type A, 19-pin female  |
| HDBaseT IN  | 2 - RJ45, female   |
| USB-C IN  | 1 - USB Type-C v3.1, 24-pin female, AV input (Alternate Mode)                      |
| HDMI OUT  | 1 - Type A, 19-pin female  |
| HDBaseT OUT   | 1 - RJ45, female   |
| USB HUB   | 2 - Type A, 4-pin female   |
| USB HOST  | 2 - Type B, female   |
| LINE/MIC IN   | 1 - 6-pin captive screw, balanced / unbalanced line level input w/3-pin MIC option |
| LINE/MIC Switch   | 1 - 3 position switch - MIC, 48V, and LINE   |
| AUDIO IN  | 2 - 5-pin captive screw, balanced / unbalanced 2-channel                           |
| AUDIO OUT   | 2 - 5-pin captive screw, balanced / unbalanced 2-channel                           |
| RS-232  | 2 - 3-pin captive screw (bidirectional)  |
| LAN   | 2 - RJ45, 100Base-T  |
| PWR   | 1 - Internal 100-240 VAC 50/60Hz, IEC female connector                             |
| <b>Control Buttons:</b><br>MENU, NAV, and NUMBER<br>IP MODE and RESET | 10 - momentary, tact-type<br>2 - momentary, recessed                               |
| <b>Function Indicators:</b><br>IP MODE, RESET                         | 2 - LED, green   |

| Temperature   | Fahrenheit                 | Celsius   |
|---------------|----------------------------|-----------|
| Operating     | 32 to 122                  | 0 to 50   |
| Storage       | -4 to 140                  | -20 to 60 |
| Humidity (RH) | 20% to 60%, non-condensing |           |

| Power       |   |
|-------------|---|
| Consumption | <b>Unit only:</b> 58W<br><b>Full load:</b> 170W (while powering USB-C device up to 60W, HDBaseT PoE devices up to 15W each, and USB type A devices up to 2.5W each) |
| Supply      | 100-240 VAC, 50/60Hz  |

| Dimensions | Inches            | Millimeters    |
|------------|-------------------|----------------|
| H x W x D  | 1.73 x 17.24 x 10 | 44 x 438 x 254 |

| Weight | Pounds | Kilograms |
|--------|--------|-----------|
| Device | 7.76   | 3.52      |

| Certification |             |
|---------------|-------------|
| Device        | CE, FCC, UL |

