

# ASP-442A

## 4x4 Series HDMI 2.0a Matrix



## SAFETY INSTRUCTIONS

Please review the following safety precautions. If this is the first time using this model, then read this manual before installing or using the product. If the product is not functioning properly, please contact your local dealer or Aurora for further instructions.



The lightning symbol in the triangle is used to alert you to the presence of dangerous voltage inside the product that may be sufficient to constitute a risk of electric shock to anyone opening the case. It is also used to indicate improper installation or handling of the product that could damage the electrical system in the product or in other equipment attached to the product.



The exclamation point in the triangle is used to alert you to important operating and maintenance instructions. Failure to follow these instructions could result in injury to you or damage to the product.



Be careful with electricity:

- **Power outlet:** To prevent electric shock, be sure the electrical plug used on the product power cord matches the electrical outlet used to supply power to the Aurora product. Use only the power adapter and power connection cables designed for this unit.
- **Power cord:** Be sure the power cord is routed so that it will not be stepped on or pinched by heavy items.
- **Lightning:** For protection from lightning or when the product is left unattended for a long period, disconnect it from the power source.



Also follow these precautions:

- **Ventilation:** Do not block the ventilation slots if applicable on the product or place any heavy object on top of it.  
Blocking the air flow could cause damage. Arrange components so that air can flow freely. Ensure that there is adequate ventilation if the product is placed in a stand or cabinet. Put the product in a properly ventilated area, away from direct sunlight or any source of heat.
- **Overheating:** Avoid stacking the Aurora product on top of a hot component such as a power amplifier.
- **Risk of Fire:** Do not place unit on top of any easily combustible material, such as carpet or fabric.
- **Proper Connections:** Be sure all cables and equipment are connected to the unit as described in this manual.
- **Object Entry:** To avoid electric shock, never stick anything in the slots on the case or remove the cover.
- **Water Exposure:** To reduce the risk of fire or electric shock, do not expose to rain or moisture.
- **Cleaning:** Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- **ESD:** Handle this unit with proper ESD care. Failure to do so can result in failure.

### FCC

This 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.
- (2) This device must accept any interferences received, including interference that may cause undesired operation.



### Trademarks

*All trademarks in this document are the properties of their respective owners.*

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## PACKAGE CONTENTS

Please make sure the following items are included within your package. Contact your dealer if any items are missing or damaged.

- ASP-442A x 1
- Rack Ears x 2
- 12v DC Desktop Power Supply x 1

Note: Go to [www.aurorammm.com](http://www.aurorammm.com) for latest manual and firmware

# INTRODUCTION

## About

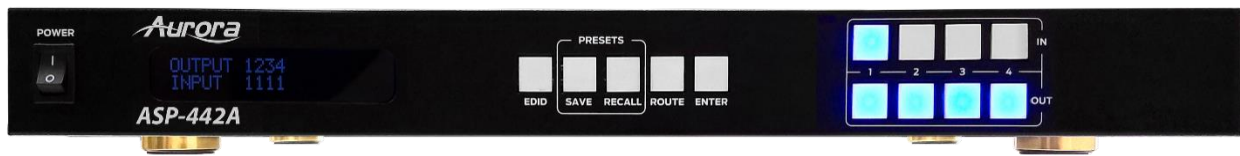
The ASP-442A is an 4x4 4K HDMI Matrix offering the power and flexibility you need at a cost-effective price. Route Ultra High Definition video sources and multi-channel digital audio from any of the eight (8) HDMI inputs to the any of the eight (8) HDMI outputs at the same time. The front keypad and LCD display are designed for easy operation and quick status of. LAN and RS-232 ports have advanced protocols allowing hot plug detection, signal detection, EDID table loading/recalling, presets, and more.

The advanced protocol features make the ASP-442A perfect for commercial applications with auto switching, digital signage with device detection, or residential systems with home automation.

## Features

- ◆ **HDMI 2.0a/HDCP 2.2**
- ◆ **Resolutions up to 4K2K 60Hz 4:4:4**
- ◆ **HDR High Dynamic Range**
- ◆ **HDMI 3D Compliant**
- ◆ **HDCP 2.2 Compliant**
- ◆ **Allows any source to be displayed on multiple displays at the same time**
- ◆ **Allows any HDMI display to view any HDMI source at any time**
- ◆ **Supports 7.1 channel digital audio**
- ◆ **Advanced EDID Functions**
- ◆ **Remote Setup functions via Windows Application**
- ◆ **Easy installation with rack-mounting**
- ◆ **Front LCD Status Display**
- ◆ **Labeling of Inputs, Outputs, and Presets on front display**

## Front ASP-442A



### Front

- Power – Power switch for turning the unit on or off. When first turned on all Input and Output LEDs will light for 1 second to show operation of LED working.
- LCD Display – Top row shows the input routed to relative Output number below.
- EDID – Utilized for setting up the EDID management.
- Save – Preset save function. Press Save for 3 seconds then an Input or Output number to store a preset into one of the 8 locations of the current routing setup.
- Recall – Preset recall function to restore a saved preset from one of the 8 stored presets. Also, if press and held for 5 seconds with USB memory stick inserted with firmware file, the unit will update the firmware.
- Route – When pressed a user can set up any input to any outputs followed by enter for all the routes to happen at the same time.
- Enter – Used to confirm entries. Also, if pressed with nothing selected, it will show the units Output connected status, Input connected status, IP address, Subnet Mask, Gateway, MAC, and Firmware on the LCD.
- Input 1-4 – Input source selections and used with various modes of operation.
- Output1-4 – Output source selections and used with various modes of operation.

*Note: Make certain you have the latest firmware for optimal performance and features listed in manual.*

## Rear ASP-442A

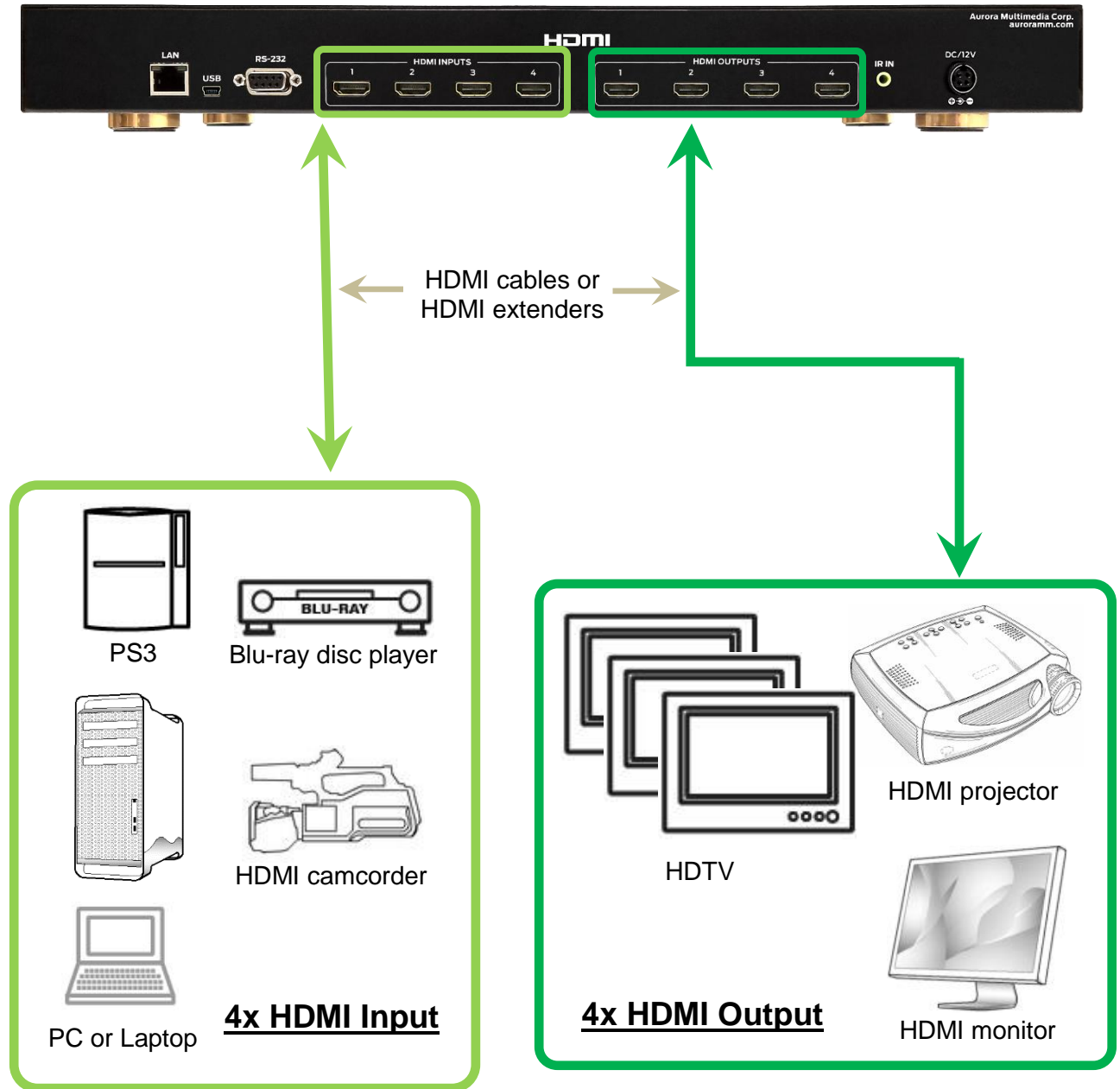


### Rear Connections

- Inputs 1-4 – Four HDMI 2.0a inputs for a variety of sources up to 4K60Hz resolutions.
- Outputs 1-4 – Four HDMI 2.0a outputs for a variety of destinations up to 4K60Hz resolutions.
- LAN - Control remotely using Telnet.
- RS232 – Connect RS-232 device up at 9600 baud for remote control.
- USB – Firmware Updates with USB stick
- IR IN – Remote control via IR remote with IR receiver unit.
- DC12V – Connect the included 12v DC desktop style power supply.

# APPLICATION

## ASP-442A Application





## OPERATION

### LCD Readout



The LCD will reflect what Output is routed to which input when in an idle state. The ASP-442A (4x4) will only show 1,2,3, & 4 on the LCD unlike the ASP-882A which will show 1-8 since it is an 8x8.

- 1-1 If the input/output is not routed, will show "0"
- 1-2 Press ENTER will turn to next page to check other status as per 1-3 to 1-4.
- 1-3 Output Connections shows each output with active connected display. If a slash is underneath, then nothing is connected. If a destination like a display is present a "D" will show.



- 1-4 Input Connections shows each input with active connected source. If a slash is underneath, then nothing is connected or powered. If a source like a PC is connected a "S" will show.



- 1-5 IP Address



1-6 Subnet Mask



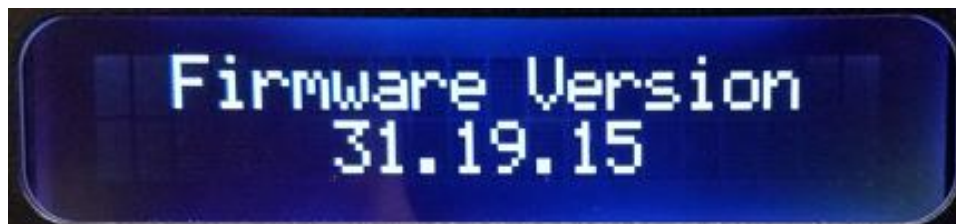
1-7 Gateway



1-8 MAC Address



1-9 Firmware Revision



1-10 Will revert to mapping if do not press any button for 3 seconds

The LCD will also show various states of operation and displaying information depending on the mode of operation.

## Routing

The ASP-442A has 3 ways of making a route for optimal flexibility.

### Technique 1

- 1) Press ROUTE, all the input / output buttons will light for connected HDMI inputs.
- 2) Press desired input, then the output(s) will light that it is routed to.
- 3) Select the Output(s) to associate the Input accordingly. To unroute press the already lit Output(s)
- 4) Press ENTER to complete the operation and make the routes all at once.
- 5) Press ROUTE again to do another input setting followed by 1) to 3)

Note: If want to discontinue the ROUTE setting, please press the ROUTE again. The operation will be canceled when no active button pushes for more than 3 seconds from last button press.

### Technique 2

- 1) Press an input and it will light along with any output it is currently routed to.
- 2) Press desired output(s) and it will be routed or unrouted to the selected input immediately.

Note: The operation will be cleared when no active button pushes for more than 5 seconds from last button press.

### Technique 3

- 1) Press an output and it will light along with any input it is currently routed to.
- 2) Press desired input and it will be routed or unrouted to the selected output immediately.

Note: The operation will be cleared when no active button pushes for more than 5 seconds from last button press.

## EDID

- 1) Press EDID, the LCD will state current mode of operation.
  - 1-1 Press EDID for 3 seconds, will be able to change the mode between Auto mode/Manual mode.
  
- 2) In Manual mode – EDID Learning
  - 2-1 Press the output that needs to be learned.
  - 2-2 The LCD will show “Device ID” of the output.
  - 2-3 Press the input(s) which you want to learn the EDID from the pressed output.
  - 2-4 Press ENTER, the LCD will show “Success” or “Fail” to indicate the learning status.
  
- 3) In Manual mode – Default EDID
  - 3-1 Press the OUTPUT 1~4 button for 3 seconds as default 1~4 EDID.
  - 3-2 The LCD will show “Default + mode number”.
  - 3-3 Press the input(s) which you want to learn the default EDID from the pressed output(default).
  - 3-4 Press ENTER, the LCD will show “Success” or “Fail” to indicate the learning status.
  
- 4) In Manual mode – Check input status
  - 4-1 Press the input.
  - 4-2 The learned EDID output number and device ID will show on the LCD.
  
- 5) In Auto mode

The device scans through all the outputs and compares the EDID, and makes a common denominator to use on the inputs. It will be the highest probability of operation with all displays connected.

Note: To discontinue the EDID setting, please press the EDID again. The operation will be canceled when there is no activity for more than 3 seconds from last button press.

## Presets

### SAVE

- 1) Press SAVE for 3 seconds, the button will light, and the operation will be started.
- 2) Select from input & output number 1~4 as customized mapping 1~8 sets.  
The LCD will show the mapping status of the pressed button.
- 3) Press ENTER to complete the operation. The current mapping will be saved.

Note: To discontinue the SAVE setting, please press the SAVE again. The operation will be canceled when there is no activity for more than 3 seconds from last button press.

### RECALL

- 1) Press recall, the button will light, and the operation will be started.
- 2) Select from input & output number 1~4 as customized mapping 1~8 sets.  
The LCD will show the mapping status of the pressed button.
- 3) Press ENTER to complete the operation. The mapping you have chosen will be recalled.

Note: If want to discontinue the RECALL setting, please press the RECALL again.  
The operation will be canceled when there is no activity for more than 3 seconds from last button press.

## Lock Mode

- 1) Press ENTER for 3 seconds will enable front panel locked.
- 2) Holding another 3 seconds will unlock.
- 3) If locked and any button is pressed, LCD will state "Keypad Locked".
- 4) During the lock mode, the LCD will show the mapping status.

## Show Network Address

- 1) Press ENTER to see units IP Address and Subnet Mask on the front LCD. It will show for 3 seconds or until a user selects another function.

## Firmware Update

Firmware can be update by the ASP Matrix Manager software or using a USB stick. The USB method can be done without the software tool making it quick and easy for field updates. Alternatively, the use of the LAN update method using the ASP Manager Utility is just as effective.

### USB Method

1. Store the uncompressed firmware file on the USB stick. Latest firmware can be found on the Aurora customer portal located at [www.auroramm.com](http://www.auroramm.com)
2. Plug USB stick into the USB port located on the rear of the Matrix.
3. Press and hold the Recall button on front panel for 5 seconds.
4. The front panel will show the progress... “FW update start”, “chip updating”, “FW updating”, “Update Finish”, etc.
5. When the update is finished the matrix will reboot automatically.
6. Remove the USB stick.

## PC Control Software

### ASP Matrix Manager

The ASP-442A has a utility called ASP Matrix Manager which allows the setup via RS-232 and Ethernet Mapping (Routing) of Outputs to Inputs, EDID management, Rename (Labeling displayed on LCD), System (IP Address Setup), and Firmware (Updating). Note for the ASP-442A only 4 inputs and outputs will be available and 8 preset locations. It is available for download from the Aurora customer portal [www.auroram.com](http://www.auroram.com)

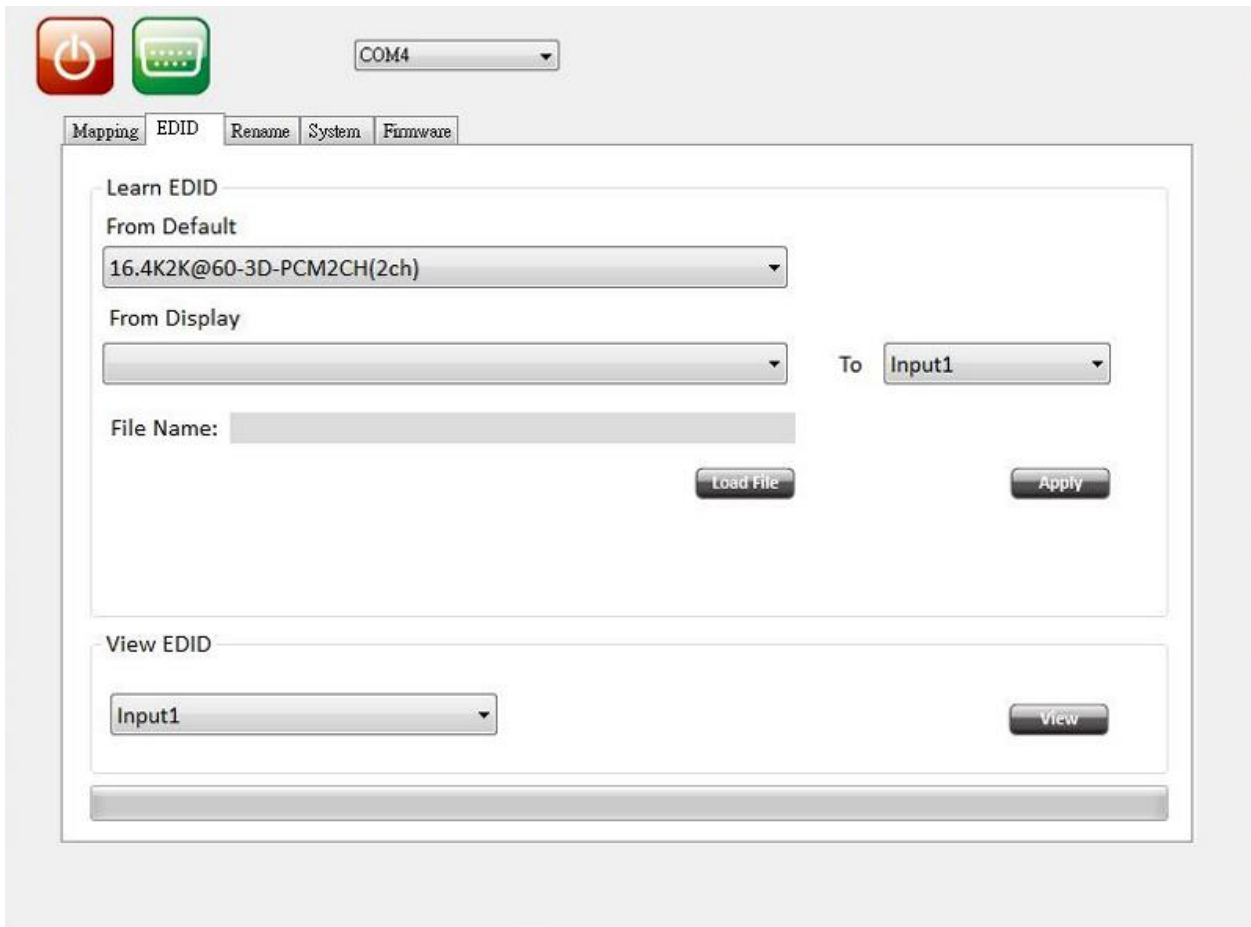
#### **Mapping**

The Mapping tab allows the routing of Outputs to the designated input. It also will allow for presets to be saved and recalled.

The screenshot shows the 'Mapping' tab of the ASP Matrix Manager software. At the top, there are two icons: a red power button and a green communication icon. To the right is a dropdown menu set to 'COM4'. Below these are five tabs: 'Mapping' (selected), 'EDID', 'Rename', 'System', and 'Firmware'. The main area is divided into two panels. The left panel, titled 'I/O Mapping', contains five rows: 'Output 1', 'Output 2', 'Output 3', 'Output 4', and 'All Outputs'. Each row has a dropdown menu currently set to 'Input3'. The right panel contains two sections: 'Recall Mapping' with a 'From' dropdown and a 'Recall' button, and 'Save Mapping' with a 'To' dropdown and a 'Save' button.

**EDID**

The EDID tab allows for full EDID management to all the inputs. Custom EDID files can be loaded from this tab or pulled from a device to be saved for other units.





## **Rename**

The Rename tab allows the labeling of Input, Output and Preset buttons on the front LCD.

The screenshot shows a software interface for renaming buttons. At the top left, there are two icons: a red power button and a green button with a speech bubble. To the right is a dropdown menu showing 'COM4'. Below these are five tabs: 'Mapping', 'EDID', 'Rename', 'System', and 'Firmware'. The 'Rename' tab is active. The interface is divided into two main sections: 'Rename I/O' and 'Rename Mapping'. The 'Rename I/O' section contains two columns of input fields. The left column has four fields labeled 'Input 1', 'Input 2', 'Input 3', and 'Input 4'. The right column has four fields labeled 'Output 1', 'Output 2', 'Output 3', and 'Output 4'. Below these fields are two buttons: 'Read' and 'Save'. The 'Rename Mapping' section contains eight input fields labeled 'Mapping 1' through 'Mapping 8'. Below these fields are two buttons: 'Read' and 'Save'.

Rename I/O		Rename Mapping			
Input 1	<input type="text"/>	Output 1	<input type="text"/>	Mapping 1	<input type="text"/>
Input 2	<input type="text"/>	Output 2	<input type="text"/>	Mapping 2	<input type="text"/>
Input 3	<input type="text"/>	Output 3	<input type="text"/>	Mapping 3	<input type="text"/>
Input 4	<input type="text"/>	Output 4	<input type="text"/>	Mapping 4	<input type="text"/>
				Mapping 5	<input type="text"/>
				Mapping 6	<input type="text"/>
				Mapping 7	<input type="text"/>
				Mapping 8	<input type="text"/>

**System**

The System tab is for the setup of the units IP settings, factory defaults, and firmware versions.

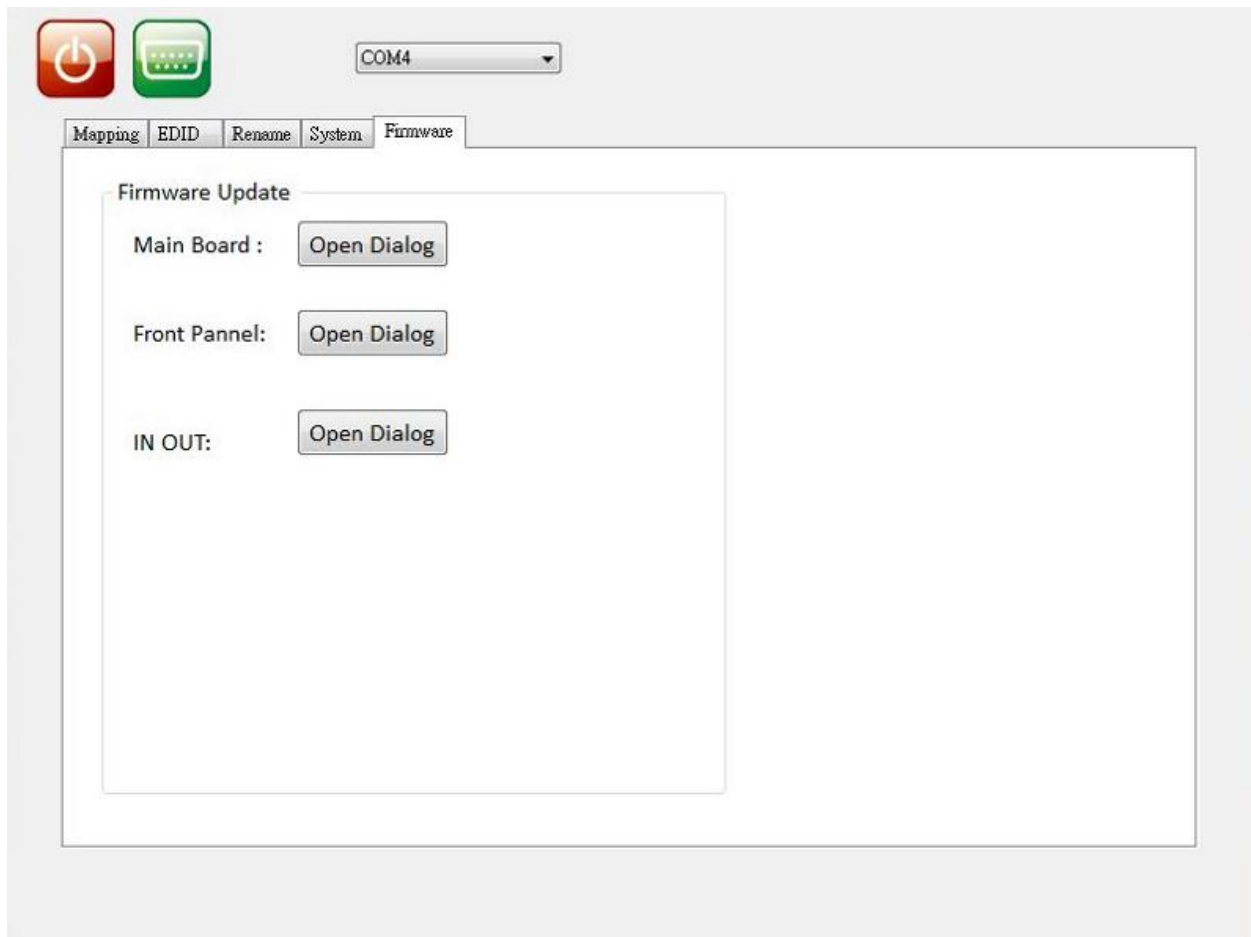
The screenshot displays a web-based configuration interface for a device. At the top left, there are two icons: a red power button and a green speech bubble. To their right is a dropdown menu showing 'COM4'. Below these are five tabs: 'Mapping', 'EDID', 'Rename', 'System', and 'Firmware', with 'System' being the active tab. The main content area is divided into three sections:

- Network:** Contains radio buttons for 'DHCP' (selected) and 'Static'. Below are three input fields for 'IP', 'Mask', and 'Gateway', each with a dotted placeholder. At the bottom are 'Read' and 'Save' buttons.
- System:** Contains two buttons: a red 'Factory Reset' button and a grey 'Firmware Version' button.
- Cloud setting:** Contains an 'Association Code' input field with a 'Read' button, and a 'Reset Cloud' label with an 'Apply' button.

## **Firmware**

The Firmware page allows the updating of firmware from the LAN or USB. Latest firmware can be found on the Aurora customer portal located at [www.auroramm.com](http://www.auroramm.com)

Important! Make certain unit has valid IP address if using Update from Net. If unit is set to DHCP make certain there is a DHCP server connected or set to a static. If updating from USB memory stick, only one update file can reside in the root directory. Early firmware may require to files to be updated (ALL and MB). If it is 2 files the one with ALL in the name must be loaded first.



## SERIAL COMMANDS

### RS-232 & Telnet Commands

**Baud Rate: 9600 8N1 DB9 Female (Pins 2-TX, 3-RX, 5-GND), Straight through Cable to PC**

! is the start character to active a command

? is the start character to query status

~ is the start character of the response

/x0D (<cr> aka carriage return) is the end character

Commands are case sensitive. Capitals only.

Command	String Format	Information
Route Command	!RTx1 x2 x3 x4<cr>	x1-x8 = output relative to input. Example: !RT315x8052<cr> 0 = Unroute X = ignore (do nothing) In this example Output 1 is routed to 3 Output 2 is routed to 1 Output 3 is routed to 5 Output 4 is ignored and left alone Output 5 is routed to 8 Output 6 is unrouted Output 7 is routed to 5 Output 8 is routed to 2  Response: ~RTx1 x2 x3 x4<cr>
Preset Recall	!PRx<cr>	x = 1-8 Responds: ~PRx<cr>
Preset Store	!PSx<cr>	x = 1-8 Responds: ~PSx<cr>
Query Route	?RT<cr>	Responds with ~RTx1 x2 x3 x4<cr> x1-x4 = output relative to input. Example: Output 1 is routed to input 3 so position x1 would equal 3. If nothing is routed to an output then the value will be 0 (zero).
Firmware Version	?VR<cr>	Responds with the current firmware version number Example ~VR1.00<cr>
Factory Default	!FD<cr>	Responds with ~FD<cr>
IP Address	!IPA-xxx.xxx.xxx.xxx<cr>	x= IP Address ex. 192.168.1.13 Responds with ~IPA-xxx.xxx.xxx.xxx<cr>

EDID Write	!EDWx-y0 y1...y255<cr>	x= HDMI Input 1-4 y0-y255 = EDID Data in ASCII HEX representation
EDID Read	?EDRx<cr>	x= HDMI Input 1-4 y0-y255 = EDID Data in ASCII HEX representation Response: ~EDIDx-y0 y1...y255<cr> y0-y255 = EDID Data in ASCII HEX representation
EDID Learn	!EDLx1 x2 x3 x4 x5 x6 x7 x8<cr>	x1-x4 = output relative to input. Example: !EDL315x80F2<cr> 0 = Clear EDID X = ignore (do nothing) F = Factory EDID default In this example Input 1 gets output 3 EDID Input t 2 gets output 1 EDID Input 3 gets output 5 EDID Input 4 is ignored and left alone Input t 5 gets output 8 EDID Input 6 is cleared Input 7 is Set to factory default EDID Input 8 gets output 2 EDID  Response: ~EDLx1 x2 x3 x4<cr>  Factory default EDID should be 1080p 24bit stereo
EDID Auto	!AEDIDx<cr>	x = (1=ON, 0=OFF) Response: ~AEDIDx<cr>
Front Keypad Lockout	!KLx<CR>	x = (1=ON, 0=OFF) Response: ~KL<cr>
HDCP Input On/Off	!HDCPIN x1 x2 x3 x4 <CR>	x1-x4 = Input relative to HDCP function. 0 = HDCP is forced off. This helps with devices that always have HDCP on unless it sees there is no key to exchange. 1 = HDCP is available <b>Note: Default is HDCP Available</b>
Hotplug Input Detect	?HPIN<cr>	Detects and reports back if a signal is present at a specific input. It will also send the response back automatically if there is a change in state. Response: ~HPIN x1 x2 x3 x4<cr> 0 = nothing 1 = signal
Hotplug Output Detect	?HPOUT<cr>	Detects and reports back if a device present at a specific output. It will also send the response back automatically if there is a change in state. Response: ~HPOUT x1 x2 x3 x4<cr> 0 = nothing 1 = signal

VCC Output Toggle	!VCCOUTx<cr>	1 = Toggle Output VCC5V 100ms Response: ~VCCOUTx <cr>
Input Label	!LINx-y<cr>	x = 1-4 y = Label Name Response: ~LINx-y<cr>
Input Label Query	?LINx<cr>	x = 1-4 y = Label Name Response: y<cr>
Output Label	!LOUTx-y<cr>	x = 1-4 y = Label Name Response: ~LINx-y<cr>
Output Label Query	?LOUTx<cr>	x = 1-4 y = Label Name Response: y<cr>
Preset Label	!LPRx-y<cr>	x = 1-4 y = Label Name Response: ~LINx-y<cr>
Preset Label Query	?LPRx<cr>	x = 1-4 y = Label Name Response: y<cr>

Note 1: Upon power up or detection of a new device on an output the port should read the EDID to see if it is DVI connected and if so remove the audio automatically for proper compatibility. This way if the input EDID is HDMI the HDMI will still work with ports that have DVI connected.

Note 2: If change is made from front panel the appropriate response command should be sent out. For example if a route was made then the ~RTx1 x2 x3 x4<cr> should be sent automatically. This way polling is not required.

Note 3: If an input has no HDCP then the output should not have HDCP either unless the force HDCP command is enable.

## APPENDIX 1 Troubleshooting

Problem	Solution
1. LED is not lit on any LEDs or buttons	<ul style="list-style-type: none"><li>a. Check 12v power supply is plugged in rear of unit</li><li>b. Check to see if Wall supply is plugged into wall outlet.</li><li>c. Make certain wall outlet has power.</li><li>d. Make certain switch on rear of unit is on.</li></ul>
2. RS-232 does not work	<ul style="list-style-type: none"><li>a. Check connection on RS-232 port. Make certain TX goes to RX and RX goes to TX of the device to be connected. Don't forget about ground.</li><li>b. Check baud rate.</li><li>c. Verify commands being sent are correct protocol.</li></ul>
3. Some functions do not work	<ul style="list-style-type: none"><li>a. Make certain unit has latest firmware.</li></ul>

## APPENDIX 2 Technical Specifications

Model Name	ASP-442A
Technical	ASP-442A
RS-232 Baud Rate	9600 8N1 DB9 Female (Pins 2-TX, 3-RX, 5-GND), Straight through Cable to PC
Front Panel	Blue Backlit LCD and Selection Keys
Bandwidth	600MHz
Resolutions	480i / 480p / 720p / 1080i / 1080p60 8-12 bit color / 3840x2160 @ 30Hz / 4Kx2K @ 30Hz / 4Kx2K @ 60Hz
HDCP Compliant	1.4 and 2.2
HDMI Output Distance	1080p up to 20m, 4K30Hz up to 10m, 4K60Hz up to 5m Note: Cable quality may impact distance
HDMI Connector	Type A (19 Pin Female)
RS-232 Connector	DB-9 Female
LAN Port	RJ-45 (Telnet Communications)
Mechanical	ASP-442A
Housing	Aluminum enclosure
Dimensions [L x W x D]	17.32" x 8.03" x 1.7" [440 x 204.2 x 44mm]
Weight	5.1lbs (2.315kg)
Mounting	1RU Rack Mount 19" x 1.75"
Power supply	12v 7.5A DC
Power consumption	25Watts
Operation temperature	0~40°C [32~104°F]
Storage temperature	-20~60°C [-4~140°F]
Relative humidity	20~90% RH [no condensation]
Package Contents	1x ASP-442A 1x 12v Desktop Power Supply 2x Rack Mount Ears

**Specifications subject to change without notice.**



## APPENDIX 3    Warranty

### Limited 3 Year Warranty

Aurora Multimedia Corp. ("Manufacturer") warrants that this product is free of defects in both materials and workmanship for a period of 3 years as defined herein for parts and labor from date of purchase. This Limited Warranty covers products purchased in the year of 2009 and after. Motorized mechanical parts (Hard Drives, DVD, etc), mechanical parts (buttons, doors, etc), remotes and cables are covered for a period of 1 year. Touch screen displays are covered for 1 year; touch screen overlay components are covered for 90 days. Supplied batteries are not covered by this warranty. During the warranty period, and upon proof of purchase, the product will be repaired or replaced (with same or similar model) at our option without charge for parts or labor for the specified product lifetime warranty period.

This warranty shall not apply if any of the following:

- A. The product has been damaged by negligence, accident, lightning, water, act-of-God or mishandling; or,
- B. The product has not been operated in accordance with procedures specified in operating instructions; or,
- C. The product has been repaired and or altered by other than manufacturer or authorized service center; or,
- D. The product's original serial number has been modified or removed; or,
- E. External equipment other than supplied by manufacturer, in determination of manufacturer, shall have affected the performance, safety or reliability of the product.
- F. Part(s) are no longer available for product.

In the event that the product needs repair or replacement during the specified warranty period, product should be shipped back to Manufacturer at Purchaser's expense. Repaired or replaced product shall be returned to Purchaser by standard shipping methods at Manufacturer's discretion. Express shipping will be at the expense of the Purchaser. If Purchaser resides outside the contiguous US, return shipping shall be at Purchaser's expense.

**No other warranty, express or implied other than Manufacturer's shall apply.**

Manufacturer does not assume any responsibility for consequential damages, expenses or loss of revenue or property, inconvenience or interruption in operation experienced by the customer due to a malfunction of the purchased equipment. No warranty service performed on any product shall extend the applicable warranty period. This warranty does not cover damage to the equipment during shipping and Manufacturer assumes no responsibility for such damage.

[www.auroramm.com](http://www.auroramm.com)

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