

# USER MANUAL

## AC-MX1616-AUHD-HDBT

AVPro Edge's 4K60 (4:4:4) 18Gbps Matrix Switcher comes with 16 HDMI Inputs, 16 HDBaseT Outputs and 8 mirrored HDMI Outputs



The AC-MX1616-AUHD-HDBT is a true HDMI/HDBaseT switch. This unit includes 16 HDMI inputs, 16 HDBaseT outputs, with 8 mirrored HDMI outputs (these mirror the odd numbered HDBaseT Ports 1, 3, 5, etc). This Matrix supports HDMI 2.0(a/b), HDCP 2.2, up to 4K video resolution, and up to 18 Gbps bandwidth. We are able to pass 18Gbps through category cable by using the new HDBaseT technology we have developed called "ICT". This switch allows any source (Blu-ray, UHD Blu-ray, satellite receiver, game consoles, PCs, etc ... ) to be shown on any of the connected displays. This matrix equalizes and amplifies the output to ensure the HDMI signal can be transmitted through long HDMI cables without loss of quality.

Audio Delay is "On-Board" so you can manage lip-sync issue before it is a problem. Also with built in Scalers you don't have to forfeit that 4K signal just because you have a couple older displays. All that with Full EDID management allows maximum flexibility with today's wide mixture of sources and displays.

This is an ideal solution for digital entertainment centers, HDTV retail, show sites, data centers, schools, conference and training centers and more!

## ***Features:***

- HDMI 2.0(a/b)
- 18Gbps Uncompressed Bandwidth Support on HDMI
- 18Gbps with ICT on HDBaseT outputs
- 4K60 4:4:4 Support
- Ultimate HDR Support (HDR 10 & 12 Bit)
- Dolby Vision, HDR10+ and HLG Support
- HDCP 2.2 (and all earlier versions supported)
- 4K > 1080P Down Scaling on HDBaseT outputs
- Simple setup with front panel control screen
- WebOS for simple connectivity and control/management
- Digital Toslink Out (7CH PCM, DD, DD+, DTS, DTS-MA)
- Balanced Analog Out (2CH PCM)
- Advanced EDID Management
- IR, RS-232 and LAN Control Options
- Built in Test Pattern on Each HDBaseT Output to Verify Infrastructure
- Driver Support for Crestron, C4, RTI, ELAN and more!!!
- Extracted Audio has 3 Operating Modes. Bind to Input, Bind to Output, or Matrix (Independent)

## ***In The Box:***

- AC-MX1616-AUHD-HDBT Matrix
- Power Cable
- IR Remote Control
- IR Extension Cable
- Rack Ears & Phoenix Connectors

| VIDEO:  |   |
|---|---|
| VIDEO RESOLUTIONS   | UP TO 4K 60HZ 4:4:4   |
| VESA RESOLUTIONS  | UP TO DCI 4K (4096X2160)  |
| HDR FORMATS/RESOLUTIONS   | 420, 422, 444 (10 AND 12 DEEP COLOR)<br>HDR10, HDR10+, DOLBY VISION (24/30 FRAMES), HLG                                       |
| COLOR SPACE   | YUV (COMPONENT), RGB<br>(CSC: REC. 601, REC. 709, BT2020, DCI, P3 D6500)  |
| CHROMA SUBSAMPLING  | 4:4:4, 4:2:2, 4:2:0 SUPPORTED   |
| DEEP COLOR  | UP TO 16 BIT (1080), UP TO 12 BIT (4K)  |
| SCALERS (HDMI) PER OUTPUT OPTIONAL  | 1080P TO 4K (RESOLUTION ONLY, FRAMERATE STAYS THE SAME)   |
| SCALERS (HDBASET) PER OUTPUT OPTIONAL   | 4K TO 1080P (RESOLUTION ONLY, FRAMERATE STAYS THE SAME)   |
| HDMI OUTPUT   | MIRRORED HDMI OUTPUTS (HDBASET 1-8)   |
| AUDIO:  |   |
| AUDIO FORMATS SUPPORTED HDMI  | PCM 2.0 CH, LPCM 5.1 & 7.1, DOLBY DIGITAL, DTS 5.1, DOLBY DIGITAL PLUS, DOLBY TRUEHD, DTS-HD MASTER AUDIO, DTS-X, DOLBY ATMOS |
| AUDIO FORMATS SUPPORTED EXTRACTED (TOSLINK)   | PCM 2 CH, LPCM 6 CH, LPCM 7 CH, DOLBY DIGITAL, DOLBY DIGITAL PLUS, DTS-HD MASTER AUDIO  |
| AUDIO FORMATS SUPPORTED EXTRACTED (2CH PORT)  | PCM 2 CH (NO DOWNMIX)   |
| AUDIO EXTRACTION LOCATION   | BIND TO INPUT, BIND TO OUTPUT<br>OR MATRIX (INDEPENDENT)  |
| AUDIO DELAY (PER OUTPUT, EXTRACTED)   | UP TO 630MS   |
| DISTANCE:   |   |
| HDBASET OUT (4K60 4:4:4 & HDR) W/ AC-EX70-444-RNE                                   | 70 METERS / 230 FEET (CAT 6A)   |
| HDBASET OUT (1080P) W/ AC-EX70-444-RNE  | 100 METERS / 330 FEET (CAT 6A)  |
| HDBASET OUT (4K60 4:2:0 MAX) W/ AC-EX70-UHD-R                                       | 40 METERS / 131 FEET (CAT 6A)   |
| HDBASET OUT (1080P) W/ AC-EX70-UHD-R  | 70 METERS / 230 FEET (CAT 6A)   |
| HDMI IN/OUT (4K60 4:4:4)  | UP TO 50 FEET (USING BULLET TRAIN HDMI)   |
| HDMI IN/OUT (W/ AOC CABLE) (4K60 4:4:4)   | UP TO 130 FEET (USING BULLET TRAIN AOC)   |
| OTHER:  |   |
| BANDWIDTH HDMI  | 18 GBPS UNCOMPRESSED  |
| BANDWIDTH HDBASET   | 18 GBPS (USES ICT ABOVE 10.2 GBPS SIGNALS)  |
| HDCP  | HDCP 2.2 AND EARLIER  |
| POH FOR RECEIVERS (NO NEED TO POWER RECEIVERS)                                      | YES, ALL OUTPUTS  |
| CONTROL:  |   |
| PORTS   | LAN, RS232, IR, MICRO USB   |
| DRIVERS   | C4, RTI, ELAN, CRESTRON, URC (FOR MORE - SEE DRIVERS PAGE)  |
| LAN WEBS  | YES   |
| PORTS:  |   |
| HDMI  | TYPE A  |
| HDBASET   | RJ45 W/ POH FOR HDBASET RECEIVERS   |
| LAN   | RJ45 W/ WEB INTERFACE/CONTROL   |
| AUDIO (EXTRACTED DIGITAL)   | TOSLINK   |
| AUDIO (EXTRACTED ANALOG)  | 5 PIN TERMINAL BLOCK (BALANCED)   |
| IR RX   | 3.5MM STEREO (3 CONDUCTOR)  |
| RS232   | 3 PIN TERMINAL BLOCK  |
| ENVIRONMENTAL:  |   |
| OPERATING TEMPRATURE  | 23 TO 125°F (-5 TO 51°C)  |
| STORAGE TEMPERATURE   | -4 TO 140°F (-20 TO 60°C)   |
| HUMIDITY RANGE  | 5-90% RH (NO CONDENSATION)  |
| POWER:  |   |
| POWER CONSUMPTION (TOTAL)   | 56 WATTS MAX  |
| POWER SUPPLY - MATRIX   | INPUT: AC 100-240V ~ 50/60HZ<br>OUTPUT: DC 48V 2A   |
| DIMENSIONS:   |   |
| DIMENSIONS (UNIT ONLY HEIGHT/DEPTH/WIDTH)   | MM: 134.87 X 406.4 X 441.45<br>INCH: 5.31 X 16 X 17.38  |
| DIMENSIONS (PACKAGED HEIGHT/DEPTH/WIDTH)  | MM: 209.55 X 558.8 X 571.5<br>INCH: 8.25 X 22 X 22.5  |
| RACK UNITS  | 3U  |
| WEIGHT (UNIT)   | 25 LBS (11.34 KG)   |
| WEIGHT (PACKAGED)   | 29 LBS (13.15 KG)   |
| *SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. MASS & DIMENSIONS ARE APPROXIMATE |   |



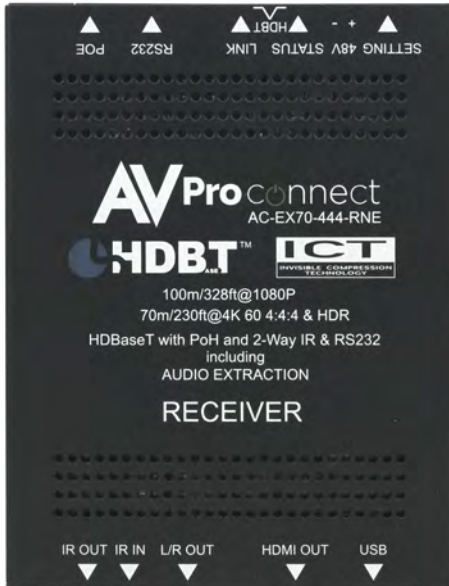
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## Compatible Receivers:

### AC-EX70-444-RNE: (W/ICT)

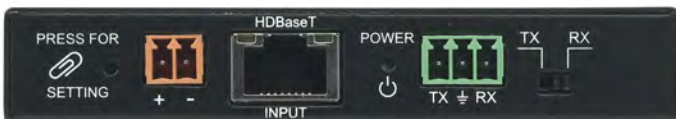
- 70M 4K 60 4:4:4 & HDR
- 100M 1080P

**\*NOTE: You MUST use this receiver to get 18Gbps ICT Video**



### AC-EX70-UHD-R:

- 40M 4K 60 4:2:0
- 70M 1080P



### Indicator Troubleshooting Lights on the HDBaseT Port on Matrix and Receivers:

**LINK - Above RJ45 (HDBT) Port & Below it on the Matrix: (Green)** This indicator shows that the AV HDBT link between the Tx and Rx is in tact. This light should ALWAYS be solid.

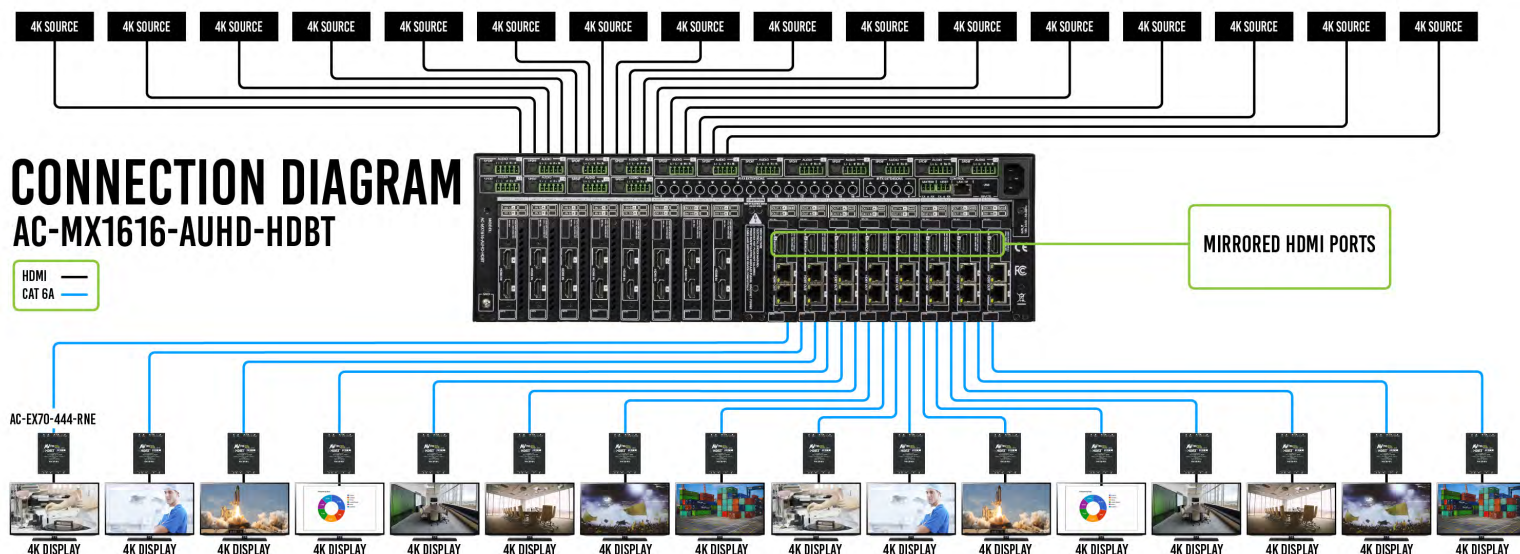
**STATUS- Above RJ45 (HDBT) Port & Below it on the Matrix: (Amber)** This is an indicator showing that the power is present between the Transmitter and Receiver. This light ALWAYS BLINKS steadily indicating everything is OK.

If the lights are not as discussed above - please check the following:

1. Check the length. The maximum distances and resolution compatibilities are:
  - a. AC-EX70-444-RNE ~ 70m (230ft) on 4K 60 4:4:4 & HDR and 100m (330ft) on 1080P
  - b. AC-EX70-UHD-R ~ 40m (131ft) on 4K 60 4:2:0 (NO HDR) and 70m (230ft) on 1080P
2. Remove any coils of cable and make sure that there is not excess cabling.
3. Bypass all patch panels and punch-down blocks.
4. Re-terminate connectors (pass-through style ends are NOT recommended). Sometimes, even if a cable tester indicates the run is valid, something may be slightly off.
5. Contact AVProEdge if these suggestions do not work.

## Common Application Diagram & What Is ICT:

THIS 4X4 MATRIX HAS 4 HDMI INPUTS AND FEATURES DUEL MIRRORED HDMI AND HDBASET OUTPUTS FOR A TOTAL OF 8 PORTS. THE HDBASET OUTPUT IS UTILIZING ICT (INVISIBLE COMPRESSION TECHNOLOGY), GIVING IT THE ABILITY TO DELIVER 18GBPS FULL 4K60 (4:4:4) SIGNALING OVER STANDARD CATEGORY CABLE. IT DOES THIS BY USING AVPROCONNECTS PROPRIETARY ENCODING ALGORITHM INSIDE THE MATRIX, AND DECODING ALGORITHM INSIDE THE AC-EX70-444-RNE HDBASET RECEIVERS.



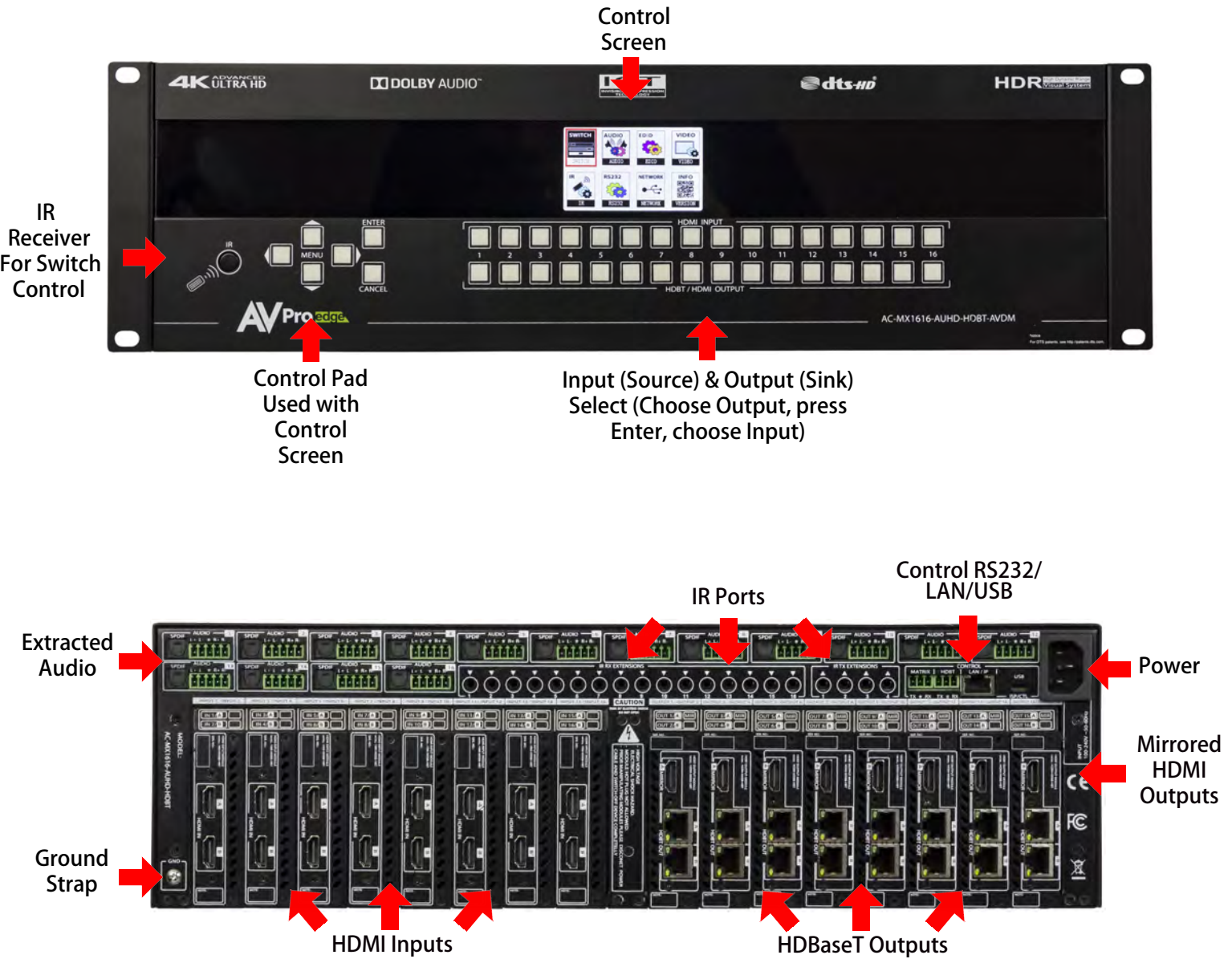


## Device Feature Overview:

The AC-MX1616-AUHD-HDBT is a 16 input/output Matrix switch built to handle all the latest sources outputting 4K 60 (4:4:4) HDR video signals. What truly makes this switch the choice of integrators around the world is the ability to distribute 18Gbps 4K to some zones and 1080p to others. We are able to accomplish this with our built in 4K to 1080p downscalers. This feature is one of many designed to help integrators throughout the installation process.

Supporting the full HDMI 2.0 a/b specification and supporting every flavor of HDR, this matrix will ensure you can get the most out of any system. This 16x16 matrix switcher supports formats including HDR, HDR10, HDR10+, Dolby Vision, HLG, BBC and NHK. All of them are supported in up to 4K 60Hz and up to 12 Bit Deep Color. All color space compression is compatible.

This powerhouse matrix switcher is the ideal solution for a multizone setup that has 4K sources and up to 16 zones. Control's a breeze as this switch comes with a web GUI you can access via the IP address, as well as drivers for all the top control systems. Combine that with the LED setup screen on the front, and you won't have any problems getting this switch up and running. The AC-MX1616-AUHD-HDBT is the integrators choice for large multizone distribution systems.



## Basic Setup:

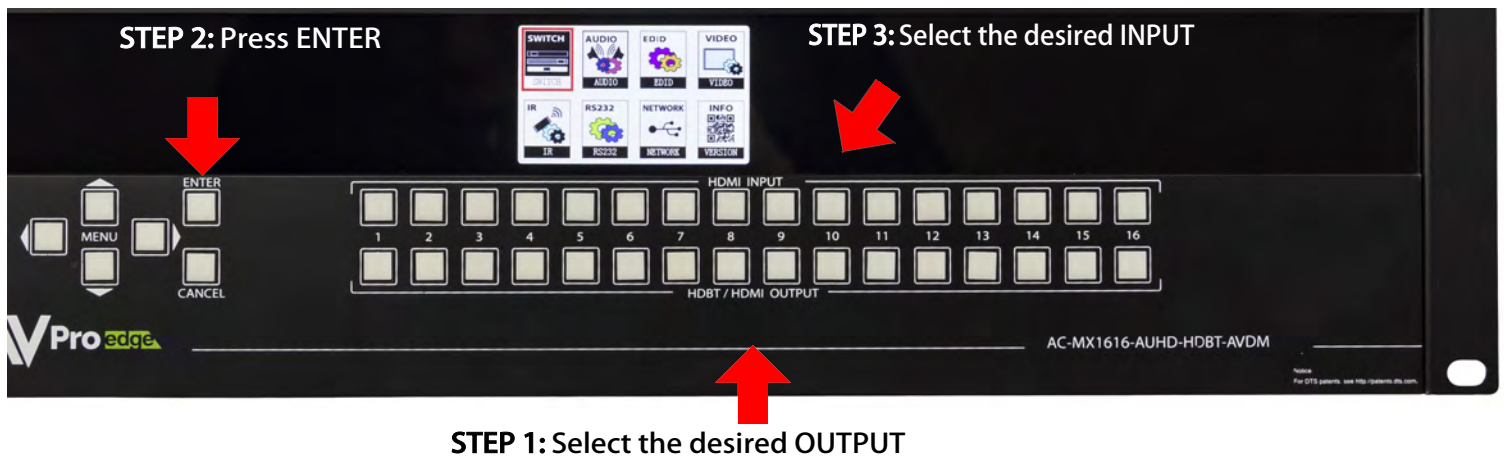
### Quick Setup:

1. Connect the HDMI input sources (Blu-ray, Set Top Box, etc...) to the AC-MX1616-AUHD-HDBT
2. Connect the HDMI output devices (AVR, Display, Distribution Amplifier, Extender) to the AC-MX1616-AUHD-HDBT
3. Power on the sources
4. Connect the power supply's into the AC-MX1616-AUHD-HDBT
5. Turn on output devices/displays
6. You may now use the front panel controls, supplied IR remote, Web Interface, or RS232/USB to control the switch.

## Front Panel Control : Simple Switching

The AC-MX1616-AUHD-HDBT can be quickly switched via the front panel by pressing the **OUTPUT # you want to set**, then select the **INPUT # you want routed**.

1. Press the button (1 through 16) that corresponds with the OUTPUT (Display, or Sink Device) you would like to send a source.
2. Now select the desired INPUT on (1 through 16)
3. The route is now set.
4. You may also navigate to the "Switch" Menu on the Control Screen to manage the routes (See "Switch Routing" on next page)



**Switching with the front panel controls.**  
**NOTE: Select the OUTPUT, press ENTER, and then select the INPUT**

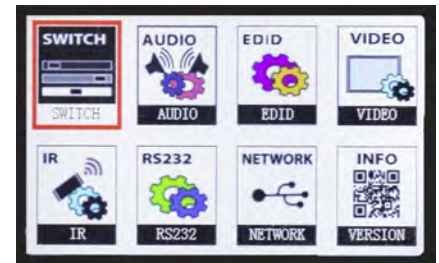


## Navigating the Control Screen:

You can use the control screen to setup/control several key features including:

- **Switch** ~ Control the switching of Inputs and Outputs
- **Audio** ~ Set the default extracted audio mode to Bind to Input, Bind to Output or Matrix - When in Matrix, audio route can be selected.
- **EDID** ~ View, adjust EDID Configuration
- **Video** ~ View, adjust Video Mode
- **IR** ~ View and adjust IR Routing/setup
- **RS232** ~ View and adjust RS232 routing and status
- **Network** ~ View/Setup IP Address (Host/device, Gateway, Subnet), Toggle DHCP, set port number and view MAC Address
- **Info/Version** ~ View Firmware versions

### Home Screen



To navigate the control screen you have a 6-button control panel that control the "Control" Screen.

- **"Menu"** area consists of UP, DOWN, LEFT and RIGHT - These are your navigation buttons. Press these buttons to move through them menus to your desired selections. Your desired selection will be bordered or highlighted
- **"Enter"** Selects the highlighted item and advances to the next set of options or sets your selection
- **"Cancel"** Stops what you are doing and takes you back one menu or to the home screen

Control  
Screen  
Navigation  
Buttons



Control  
Screen

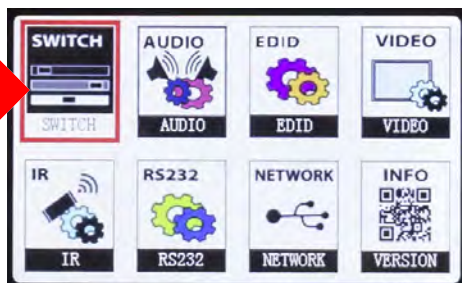
## Control Screen - Switch Routing:

**\*\*NOTE: The same settings can be found in the Web Interface under Sense Switch\*\***

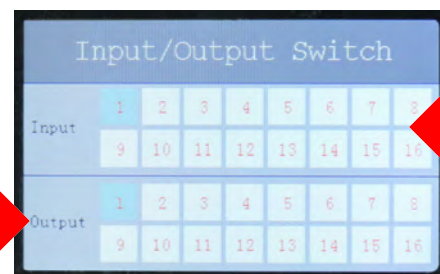
Once you select the "Matrix" option, you have 2 primary functions:

- View the current route settings so you can verify that your system is working properly and the routes are correct
- Set new matrix routes. You can change the matrix routes here as well, this is good for demonstrating switching. **NOTE: When setting a new route, select OUTPUT first then INPUT**

Select  
"SWITCH"



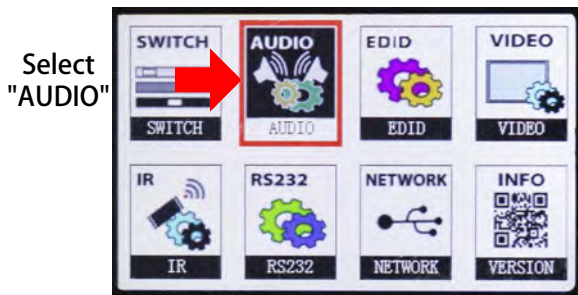
Select the  
OUTPUT First



Then Choose  
the INPUT

## Control Screen - Audio:

**\*\*NOTE: The same settings can be found in the Web Interface under Audio Setting and Audio Matrix\*\***



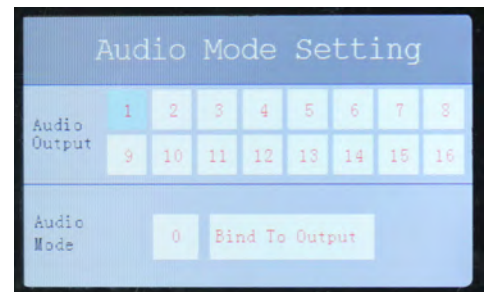
The Audio Settings Menu has Three Functions

- Audio Mode:
- Audio En/Dis:
- Audio Delay:



**Function 1** - Set the default extracted **AUDIO MODE**. There are three options:

- BIND TO OUTPUT (extracted audio switches with the video, this is the default mode)
- BIND TO INPUT (extracted audio is fixed to the corresponding input by the same number)
- INDEPENDENT/MATRIX (extracted audio can be routed however you like and there are commands to allow it to function as a separate matrix)



1. Select the extracted AUDIO OUTPUT first by using the arrow keys to navigate to it
2. Press ENTER to set the selection
3. Use the UP/DOWN arrow keys to toggle Audio Mode (Bind to Input, Bind to Output, Matrix)
4. Press ENTER to set selection

**\*\*When MATRIX Mode is selected if you hit ENTER again it will bring you to the routing screen where you can select the desired INPUT you want to route\*\***

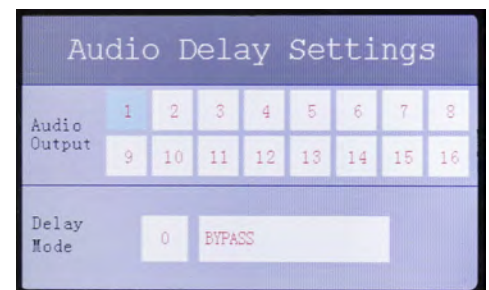
**Function 2** - **AUDIO ENABLE/DISABLE** Extracted Audio

1. Select the extracted audio first by using the arrow keys to navigate to it
2. Press ENTER to set the selection
3. Use the UP/DOWN arrow keys to toggle Audio Status ON or OFF (Enable/Disable)
4. Press ENTER to set selection



**Function 3** - **AUDIO DELAY SETTINGS** Extracted Audio

1. Select the extracted audio OUTPUT first by using the arrow keys to navigating to it
2. Press ENTER to set the selection
3. Use the UP/DOWN arrow keys to select the desired delay. Delay settings are in increments of 90 milliseconds (\*Default is 0MS/BYPASS) 0MS/BYPASS, 90MS, 180MS, 270MS, 360MS, 450MS, 540MS, 630MS
4. Press ENTER to set selection



## Control Screen - EDID Management:

**\*\*NOTE: The same settings can be found in the Web Interface under EDID Manage\*\***

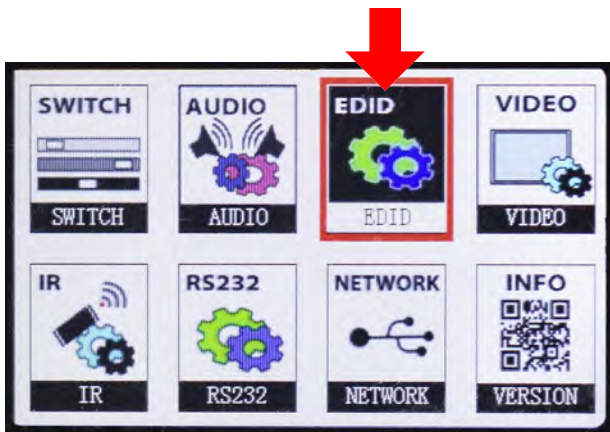
Instantly and easily set and manage EDID functions right from the front screen. EDID management will help you get the right signal from the source device adding additional security that nothing unsupported will be mistakenly fed into the system.

EDID effectively tells the source what the system is capable of handling, devices without robust EDID control just have to hope the source behaves how we want it to. With the AC-MX1616-AUHD-HDBT you control the sources:

To Set the EDID, just choose EDID from the "Home Screen" and then select the INPUT you want to set. Finally toggle through the EDIDs until you get the one you want. For the most plug and play compatibility, we recommend using "1080P 2CH". This is ideal for bars, restaurants, and homes. There is also the ability to upload a custom EDID is desired (Has to be done in Serial Control Software).

Available EDID options are listed below. Additionally, you can copy an EDID from a display using Serial (more later in this manual) - This is recommended for advanced users doing HDR distribution.

Select "EDID"



Choose Input  
to apply EDID  
to



Select the desired EDID

**Available EDID's:**

- 1080P\_2CH
- 1080P\_6CH
- 1080P\_8CH
- 1080P\_3D\_2CH
- 1080P\_3D\_6CH
- 1080P\_3D\_8CH
- 4K30HZ\_3D\_2CH
- 4K30HZ\_3D\_6CH
- 4K30HZ\_3D\_8CH
- 4K60HzY420\_3D\_2CH
- 4K60HzY420\_3D\_6CH
- 4K60HzY420\_3D\_8CH
- 4K60HZ\_3D\_2CH
- 4K60HZ\_3D\_6CH
- 4K60HZ\_3D\_8CH
- 1080P\_2CH\_HDR
- 1080P\_6CH\_HDR

- 1080P\_8CH\_HDR
- 1080P\_3D\_2CH\_HDR
- 1080P\_3D\_6CH\_HDR
- 1080P\_3D\_8CH\_HDR
- 4K30HZ\_3D\_2CH\_HDR
- 4K30HZ\_3D\_6CH\_HDR
- 4K30HZ\_3D\_8CH\_HDR
- 4K60HzY420\_3D\_2CH\_HDR
- 4K60HzY420\_3D\_6CH\_HDR
- 4K60HzY420\_3D\_8CH\_HDR
- 4K60HZ\_3D\_2CH\_HDR
- 4K60HZ\_3D\_6CH\_HDR
- 4K60HZ\_3D\_8CH\_HDR
- User EDID 1
- User EDID 2
- User EDID 3

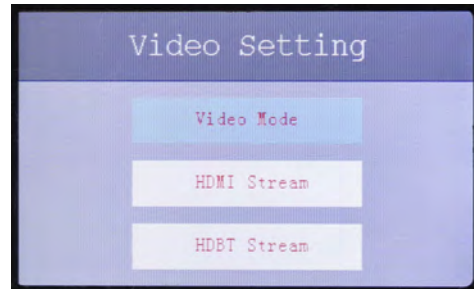
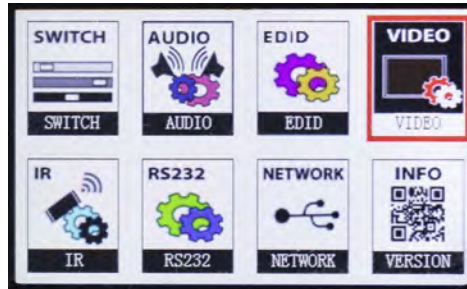


## Control Screen - Video:

**\*\*NOTE: The same settings can be found in the Web Interface under Video Setting\*\***

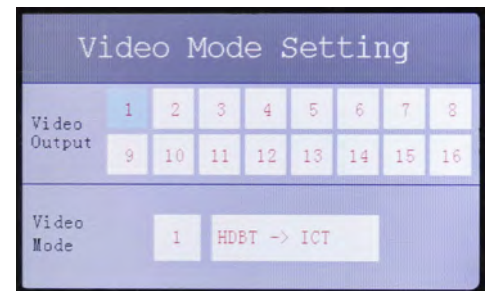
The VIDEO Settings Menu has Three Functions

- Video Mode
- HDMI Stream
- HDBT Stream



### Function 1 - Set the Output Video Mode

- HDBT -> ICT
  - Enables ICT (18G) Compression mode on HDBT Port **-DEFAULT**
- 4K -> HD
  - If incoming signal is 4K, it will be downscaled to 1080P or 1900x1200 depending on the input format

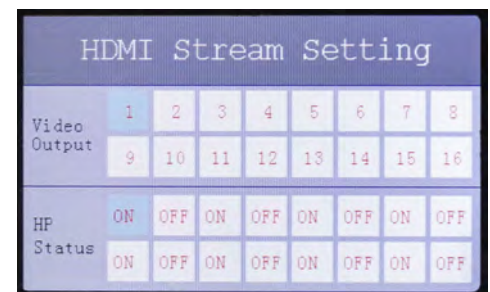


**\*\*NOTE: ONLY THE ODD NUMBERED HDBaseT PORTS CAN BE DOWNSCALED\*\***

### Function 2 - Set the HDMI Stream Setting

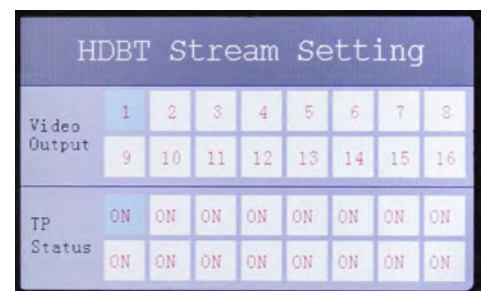
- HDMI Stream Settings
  - The 8 Mirrored HDMI Output Streams can be turned ON/OFF

**\*\*NOTE: These are the ODD NUMBERED Ports (1, 3, 5, etc)\*\***



### Function 3 - Set the HDBT Stream Setting

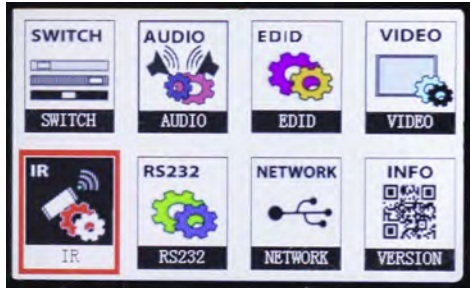
- HDBT Stream Settings
  - The 16 HDBT Output Streams can be turned ON/OFF



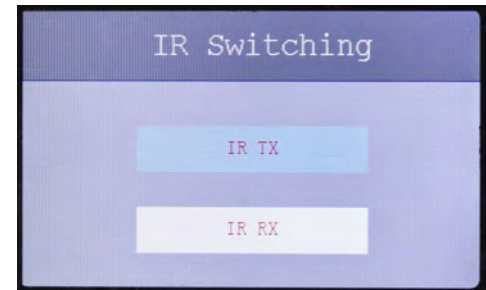
## Control Screen - IR:

**\*\*NOTE: The same settings can be found in the Web Interface under "IR EX-Setting", and "IR & RS232 Control"\*\***

The IR Settings Menu has two Functions

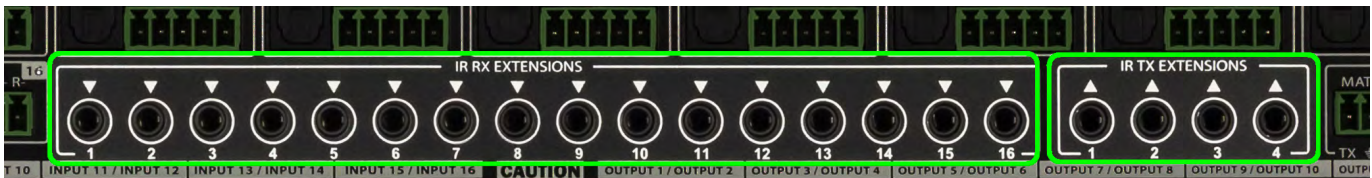


- IR TX
  - Routing
  - ON/OFF
- IR RX
  - Routing



### IR Details:

The IR RX Extensions on this machine are designed for a direct connection from a control system only. These are not designed to be used with a IR Receiving Eye.



### IRNOTES (On the Matrix):

1. By default the IR RX is routed to the corresponding HDBaseT Output number (ie. IR IN #1 --> HDBaseT Output 1, IR IN #2 --> HDBaseT Output 2, etc...)
  - a. To change, use the arrow keys to select the HDBT Channel/RX Channel, hit ENTER and use the up/down arrow keys to change the route
2. By default the IR TX is automatically routed with the active source (ie. If you are watching INPUT 3 on HDBaseT OUTPUT 1, when you point a remote at an IR Receiver on the HDBaseT Rx connected the signal will be routed to IR OUT 3)
3. Each IR IN can be routed in any way you like (One to one or one to many) by using the command SET IRC EXT SW x1.x2.x3.x4 (See below).
4. Each IR OUT can be routed manually as well using the command SET IRT OUTx IS INy ({x=[0~16](0=all),y=[1~16]}). This can also be controlled by the Web Interface



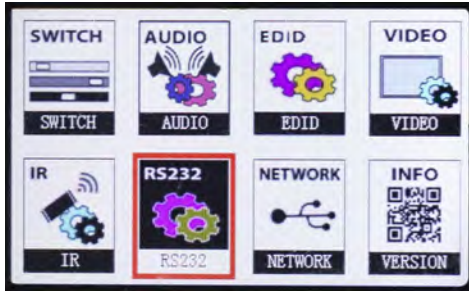
### IRNOTES (On the HDBaseT Receiver):

1. **IR OUT** = IR Emitter for sending signals to a Display or Projector
  - a. (Note - Use Provided Emitters)
2. **IRIN** = For sending IR signals back to the Matrix for switching AND to send IR signals to the IR TX (out) on the Matrix - by default the IR OUT on the matrix is automatically routed with the active source (ie. If you are watching INPUT 3 on HDBaseT OUTPUT 1, when you point a remote at an IR Receiver on the HDBaseT Rx connected the signal will be routed to IR OUT 3)



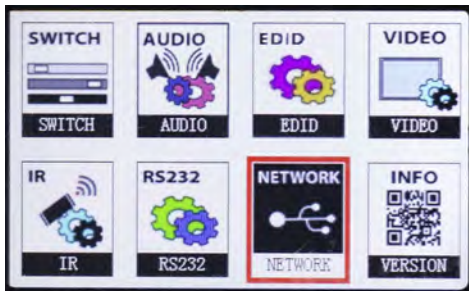
## Control Screen -RS232 Management:

1. Here you can turn RS232 ON/OFF per OUTPUT
  - a. Use the arrow keys to select the OUTPUT
  - b. Press enter
  - c. Use Up/Down arrow keys to change from ON/OFF
  - d. Press Enter again to set



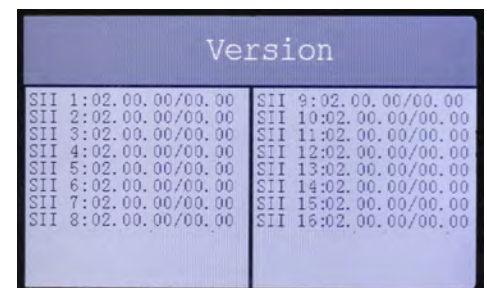
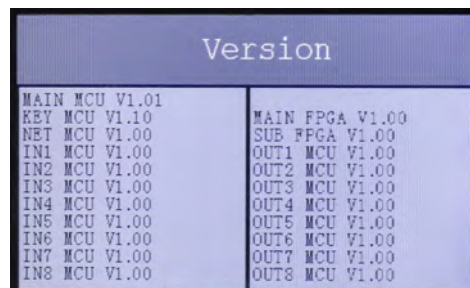
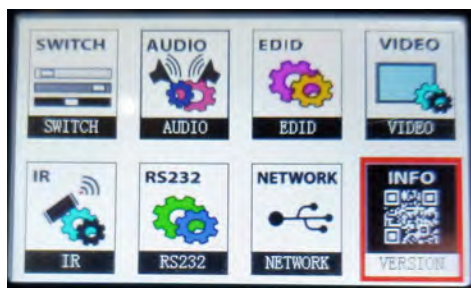
## Control Screen -Network:

1. Here you can alter the Network settings
  - a. Use the UP/DOWN arrow keys to select the setting (RIP, IP, MASK, TCP/IP, and DHCP)
  - b. Press enter
  - c. Use LEFT/RIGHT Arrow keys to move between digits
    - i. (green highlighted section)
  - d. Use UP/DOWN to change numerical value
  - e. Press ENTER to set



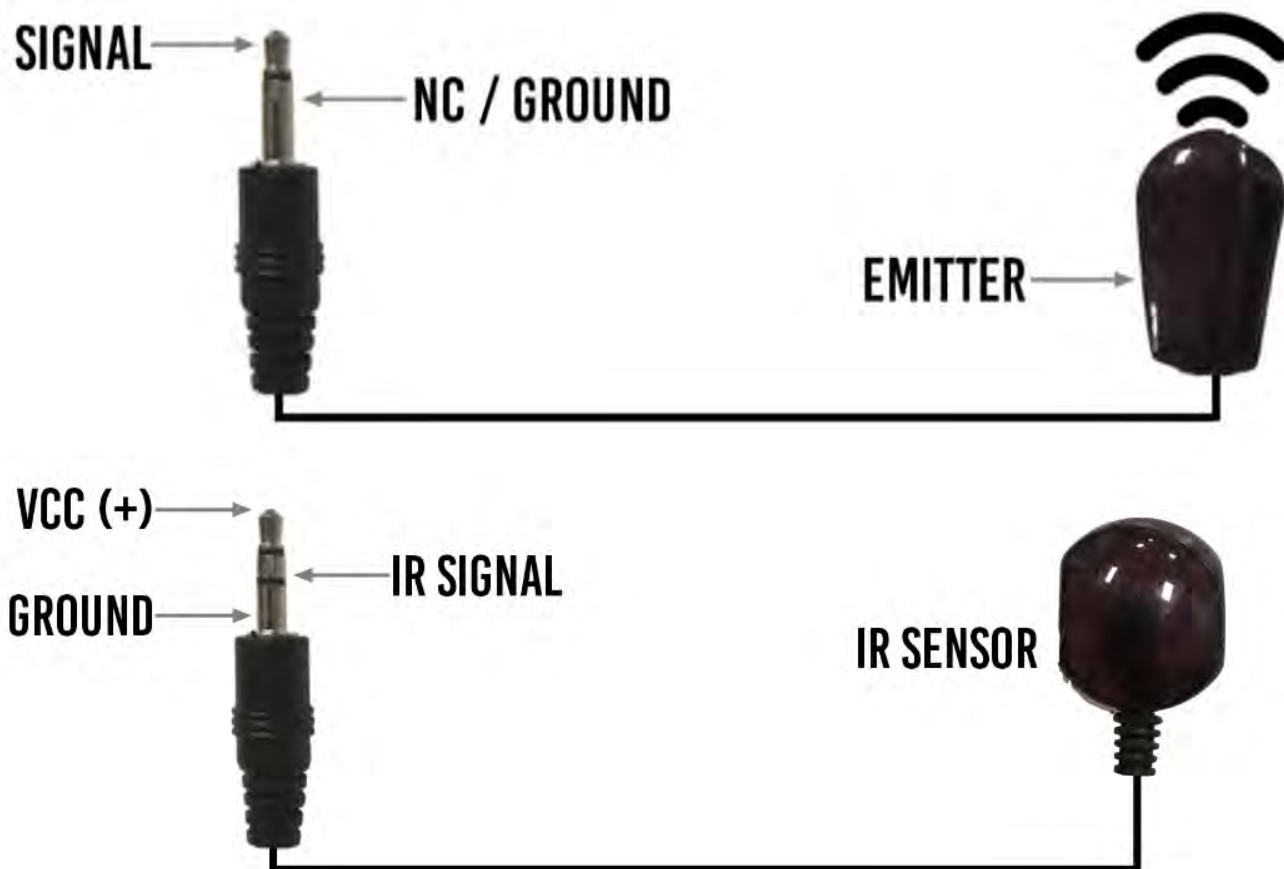
## Control Screen -Info:

1. Here you can view the Firmware Versions currently loaded on the Matrix
  - a. Note: There are two pages, use the UP/DOWN arrow keys to navigate between the two.





## IR Details: HDBaseT Receiver



## IR Details: Matrix



The "IR RX EXTENTION" and "IR TX EXTENTION" ports on the back of the Matrix are designed to be directly connected to a control system. They are not designed to be used with IR Emitters/Receivers.

## Control System Direct



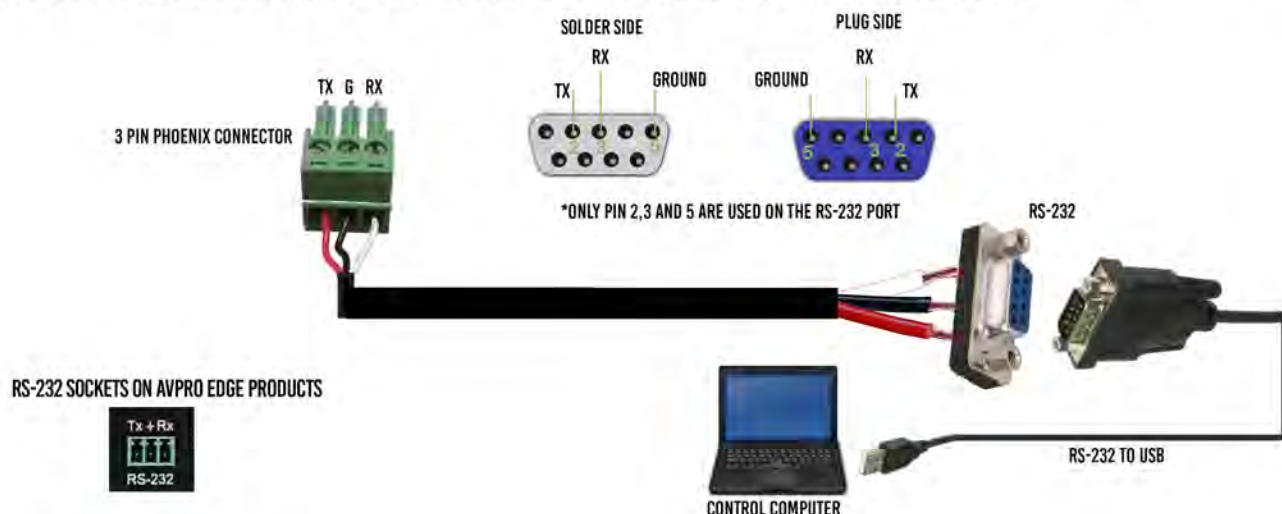
Available for purchase, Part Number "AC-IR Mono Cable"

## RS232 Details:

Here is a sample cable. in this example you can see how to connect or build and RS232 cable to use to control the Matrix. The pin configuration is shown here as well.

# RS-232 CABLE FOR AVPRO EDGE

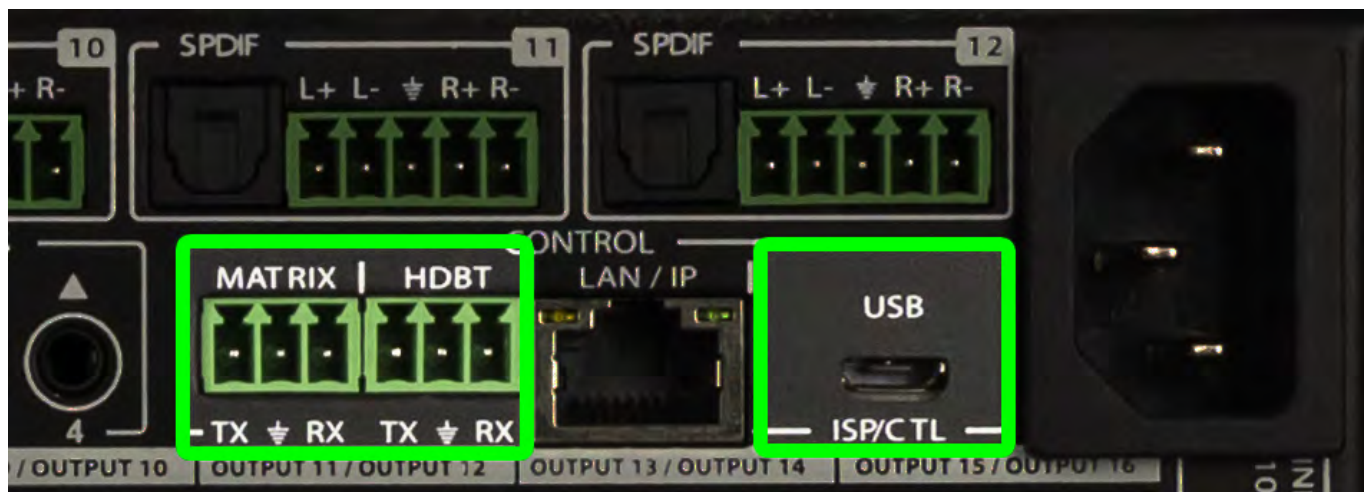
IN ORDER TO CONNECT YOUR COMPTER TO THE SWITCH BY RS-232 YOU NEED TO MAKE YOUR OWN CABLE WITH ONE END A PHOENIX CONNECTOR AND THE OTHER END A RS-232 PORT. YOUR COMPUTER DOESN'T HAVE A RS-232 INPUT, GET A USB CONVERTER (AS SHOWN BELOW), AND PLUG THE USB END TO ANY COMPUTER



You can send serial commands in the 3-Pin port or the Micro USB port

3-Pin RS232  
to control  
Matrix

Has a built in Micro USB--  
Serial driver, a com port will  
be set up on the PC



3-Pin RS232  
to HDBaseT  
Receivers

## RS-232 and TCP/IP Control:

The AC-MX1616-AUHD-HDBT can be controlled with either RS-232 or TCP/IP commands. Certain switching or format configurations can only be done using these commands. We recommend using either the MyUART (RS-232 - free) or Hercules (TCP/IP - free) apps as they are very easy to use for sending commands to the machine.

**For TCP/IP control commands use Telnet Port 23.**

For RS-232, use a null modem serial cable adapter and set the serial communications to: 57600,n,8,1 (baud: 57600, no parity, 8 data bits and 1 stop bit) with no handshaking.

Please add a return (Enter key) after each command when using direct commands.

The unified command list (ASCII) is listed below.

## Serial Command List

|                             |   |                            |
|-----------------------------|---|----------------------------|
| = H                         | : Help  | =                          |
| = STA                       | : Show Global System Status   | =                          |
| = SET RST                   | : Reset to Factory Defaults   | =                          |
| = SET RBT                   | : System Reset to Reboot  | =                          |
| = SET ADDR xx               | : Set System Address to xx {xx=[00-99](00=Single)}  | =                          |
| = SET LCD ON Tx             | : Set LCD Remain On Time{x=[0~3](0=Always ON,1=15,2=30,3=60Sec)}                                  | =                          |
| = SET KEY LOCK ON/OFF       | : Set Key Lock On/Off   | =                          |
| = SET FAN SPEED x           | : Set Fan Speed{x=[0~6]}  | =                          |
| = GET ADDR                  | : Get System Address  | =                          |
| = GET STA                   | : Get System Status   | =                          |
| = GET DEV TEMP              | : Get Device Temperature  | =                          |
| = GET INx SIG STA           | : Get Input x Signal Status{x=[0~16](0=ALL)}  | =                          |
| = GET INx VID FMT INF       | : Get Input x Video Format Info{x=[0~16](0=ALL)}  | =                          |
| = GET LCD ON T              | : Get LCD Remain On Time  | =                          |
| = GET KEY LOCK              | : Get Key Lock Status   | =                          |
| -----                       |   |                            |
| =                           | Output Setup Commands:  | (Note:output number[0~16]) |
| = SET OUTx VS INy           | : Set Output x To Input y{x=[0~16](0=ALL), y=[1~16]}  | =                          |
| = SET OUTx TP VIDEOy        | : Set HDBT Output x VIDEO Mode y<br>{x=[0~16](0=ALL), y=[2,5](2=4K->2K(Only Odd Num),5=ICT Mode)} | =                          |
| = SET OUTx TP POEy          | : Set HDBT Output x Power Mode{x=[0~16](0=ALL),y=[0~1](0=Auto,1=EN)}                              | =                          |
| = SET OUTx EXA EN/DIS       | : Set Ex-Audio Output x Enable/Disable{x=[0~16](0=ALL)}   | =                          |
| = SET OUTx EXADL PHY        | : Set Ex-Audio Delay<br>{x=[0~16](0=ALL), y=[0~7](0=Bypass,1~7=90,180,270,360,450,540,630MS)}     | =                          |
| = SET EXAMX MODEx           | : Set Ex-Audio Matrix Mode{x=[0~2](0=Bind To Output,1=Bind To Input,2=Matrix)}                    | =                          |
| = SET OUTx AS INy           | : Set Ex-Audio Output x To Input y{x=[0~16](0=ALL), y=[1~16]}                                     | =                          |
| = SET OUTx EXAUD LEVx       | : Set Output x EQ-Audio Volume Levely{x=[1~16],y=[0~14]}  | =                          |
| = SET OUTx TP SGM EN/DIS    | : Set HDBT Output x Signal Generator Enable/Disable{x=[0~16](0=ALL)}                              | =                          |
| = SET OUTx HP STREAM ON/OFF | : Set HDMI Output x Stream ON/OFF{x=[0~15(Odd Num)](0=ALL)}                                       | =                          |
| = SET OUTx TP STREAM ON/OFF | : Set HDBT Output x Stream ON/OFF{x=[0~16](0=ALL)}  | =                          |
| = GET OUTx VS               | : Get Output x Video Route{x=[0~16](0=ALL)}   | =                          |
| = GET OUTx TP VIDEO         | : Get HDBT Output x Video Mode{x=[0~16](0=ALL)}   | =                          |
| = GET OUTx TP POE           | : Get HDBT Output x Power Mode{x=[0~16]}  | =                          |
| = GET OUTx EXA              | : Get Ex-Audio Output Enable/Disable Status{x=[0~16](0=ALL)}                                      | =                          |
| = GET OUTx EXADL PH         | : Get Ex-Audio Output Delay Status{x=[0~16](0=ALL)}   | =                          |
| = GET EXAMX MODE            | : Get Ex-Audio Matrix Mode  | =                          |
| = GET OUTx AS IN            | : Get Output x Ex-Audio Route{x=[0~16](0=ALL)}  | =                          |
| = GET OUTx EXAUD LEV        | : Get Output x EQ-Audio Volume Level{x=[0,16](0=all)}   | =                          |
| = GET OUTx TP SGM           | : Get HDBT Output x Signal Generator Enable/Disable Status{x=[0~16](0=ALL)}                       | =                          |
| = GET OUTx HP STREAM        | : Get HDMI Output x Stream ON/OFF Status{x=[0~15(Odd Num)](0=ALL)}                                | =                          |
| = GET OUTx TP STREAM        | : Get HDBT Output x Stream ON/OFF Status{x=[0~16](0=ALL)}   | =                          |
| = GET OUTx HP EDID DATA     | : Get HDMI Output x EDID DATA{x=[1-15(Odd Num)]}  | =                          |
| = GET OUTx TP EDID DATA     | : Get HDBT Output x EDID DATA{x=[1~16]}   | =                          |



## Command List Continued:

|                                   |  |   |
|-----------------------------------|--|---|
| = Input Setup Commands:           |  | (Note: input number(x)=HDMI(x), x=1-16) |
| = SET INx EDID y                  | : Set Input x EDID {x=[0~16](0=ALL), y=[0~32]}   |   |
| = 0:1080P_2CH(PCM)                | 1:1080P_6CH  | 2:1080P_8CH                             |
| = 3:1080P_3D_2CH(PCM)             | 4:1080P_3D_6CH   | 5:1080P_3D_8CH                          |
| = 6:4K30Hz_3D_2CH(PCM)            | 7:4K30Hz_3D_6CH  | 8:4K30Hz_3D_8CH                         |
| = 9:4K60Hz(Y420)_3D_2CH(PCM)      | 10:4K60Hz(Y420)_3D_6CH   | 11:4K60Hz(Y420)_3D_8CH                  |
| = 12:4K60Hz_3D_2CH                | 13:4K60Hz_3D_6CH   | 14:4K60Hz_3D_8CH                        |
| = 15:1080P_2CH(PCM)_HDR           | 16:1080P_6CH_HDR   | 17:1080P_8CH_HDR                        |
| = 18:1080P_3D_2CH(PCM)_HDR        | 19:1080P_3D_6CH_HDR  | 20:1080P_3D_8CH_HDR                     |
| = 21:4K30Hz_3D_2CH(PCM)_HDR       | 22:4K30Hz_3D_6CH_HDR   | 23:4K30Hz_3D_6CH_HDR                    |
| = 24:4K60Hz(Y420)_3D_2CH(PCM)_HDR | 25:4K60Hz(Y420)_3D_6CH_HDR   | 26:4K60Hz(Y420)_3D_8CH_HDR              |
| = 27:4K60Hz_3D_2CH(PCM)_HDR       | 28:4K60Hz_3D_6CH_HDR   | 29:4K60Hz_3D_8CH_HDR                    |
| = 30:USER1_EDID                   | 31:USER2_EDID  | 32:USER3_EDID                           |
| = SET INx EDID CY OUTy HP         | : Copy HDMI Output y EDID To Input x(USER1 BUF){x=[0~16](0=ALL), y=[Odd Num]}  |   |
| = SET INx EDID CY OUTy TP         | : Copy HDBT Output y EDID To Input x(USER1 BUF){x=[0~16](0=ALL), y=[1~16]}   |   |
| = SET INx EDID Uy DATAz           | : Write EDID To User y Buffer of Input x{x=[0~16](0=ALL), y=[1~3], z=[EDID Data]}  |   |
| = GET INx EDID                    | : Get Input x EDID Index{x=[0~16](0=ALL)}  |   |
| = GET INx EDID y DATA             | : Get Input x EDID y Data{x=[1~16], y=[0~32]}  |   |
| = Network Setup Command:          |  | : ( xxx=[000-255], zzzz=[0001~9999]     |
| = SET RIP xxx.xxx.xxx.xxx         | : Set Route IP Address to xxx.xxx.xxx.xxx  |   |
| = SET HIP xxx.xxx.xxx.xxx         | : Set Host IP Address to xxx.xxx.xxx.xxx   |   |
| = SET NMK xxx.xxx.xxx.xxx         | : Set Net Mask to xxx.xxx.xxx.xxx  |   |
| = SET TIP zzzz                    | : Set TCP/IP Port to zzzz  |   |
| = SET DHCP y                      | : Set DHCP {y=[0~1](0=Dis,1=Enable)}   |   |
| = GET RIP                         | : Get Route IP Address   |   |
| = GET HIP                         | : Get Host IP Address  |   |
| = GET NMK                         | : Get Net Mask   |   |
| = GET TIP                         | : Get TCP/IP Port  |   |
| = GET DHCP                        | : Get DHCP Status  |   |
| = GET MAC                         | : Get MAC Address  |   |
| = IR Route Setup Command:         |  |   |
| = SET IRC OUTy MUX z              | : zz={x1.x2.x3.x4.x5.x6.x7.x8.x9.x10.x11.x12.x13.x14.x15.x16}  |   |
| = SET IRT OUTx IS INy             | : Set IR Route Channel Switch{x1~x16=[0,1](0=Disable,1=Enable), y=[0~4]}   |   |
| = SET LIR EXT SW zz               | : Set Local IR Extender Switch{x1~x16=[0,1](0=Disable,1=Enable)}   |   |
| = SET CIR EXT SW zz               | : Set Callback IR Extender Switch{x1~x16=[0,1](0=Disable,1=Enable)}  |   |
| = GET IRC OUTy MUX                | : Get IR Route Channel Switch Status{x=[0~4](0=all)}   |   |
| = GET IRT OUTx IS                 | : Get Output x IR Route{x=[0~16](0=all)}   |   |
| = GET LIR EXT SW                  | : Get Local IR Extender Switch Status  |   |
| = GET CIR EXT SW                  | : Get Callback IR Extender Switch Status   |   |
| = RS232 Route Setup Command:      |  |   |
| = SET RS CHy MUX zz               | : Set the RS232 MUX{y=[1], x1~x16=[0-1](0=Disable,1=Enable)}   |   |
| = SET RS PTH OUTx LENy BRz        | : Set RS232 Control Pass Through to Outputx {x=[0-16](0=ALL), y=[1~800], z=[0~5](0=9600,1=14400,2=19200,3=38400,4=57600,5=115200)} |   |
| = GET RS CHx MUX                  | : Get the RS232 MUX Status{x=[1]}  |   |
| = IR Code Setup Command:          |  |   |
| = SET IR SYS xx.yy                | : Set IR Custom Code{xx=[00-FFH], yy=[00-FFH]}   |   |
| = SET IR OUTx INy CODE mm.nn      | : {x=[1~16], y=[1~16], mm=[00~FFH, Output], nn=[00~FFH, Input]}  |   |
| = GET IR SYS                      | : Get IR Custom Code   |   |
| = GET IR OUTx INy CODE            | : Get IR Data Code{x=[1~16], y=[1~16]}   |   |

## Extracted Audio:

The extracted audio ports have distinct operating modes. Your desired mode can be set to suite your particular installation. The 3 modes are:

**From Input** ~ This is the default configuration. In this mode the audio port number corresponds to the INPUT signal. This is ideal for systems where audio is matrixed separately in a zoned amplifier.

**From Output** ~ This configuration will automatically have the audio follow OUTPUT, so the audio from the extracted port always matches the HDMI output. This is ideal for systems that use local AVR's for some of the zones.

**Independent/Matrix** ~ This mode allows you matrix the extracted audio outputs independent of HDMI. In this mode a new set of commands becomes available to be able to route audio however you want. This can be used as a separate zoned audio matrix with only using an amplifier.

### Setting up Extracted Audio Routing:

You can set up Extracted Audio Routing from the front panel, WebOS, Driver or by sending the following command:

**SET EXAMX MODEx** -- Where {x=[0~2]}(0=Bind To Output,1=Bind To Input,2=Matrix)

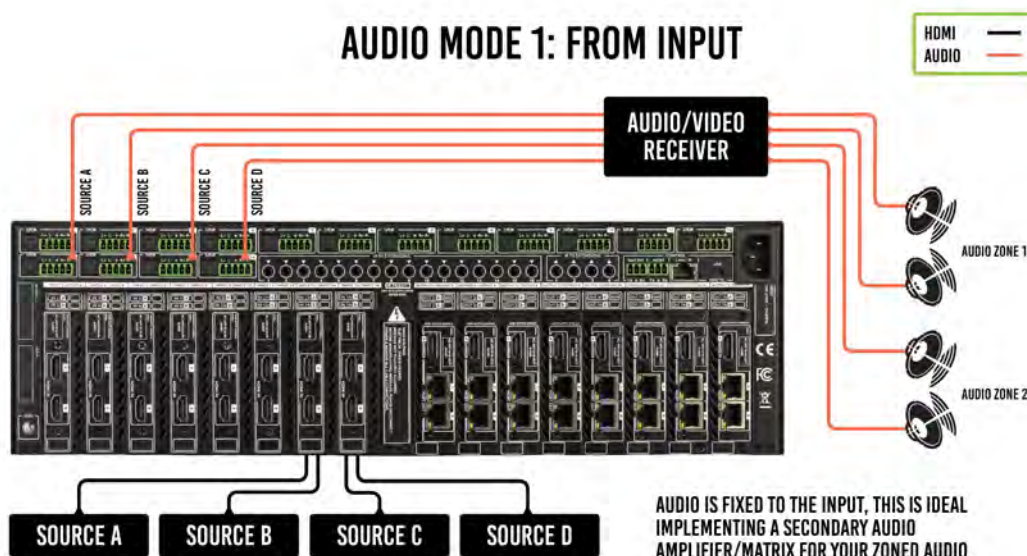
If you set to "Matrix" you can use the following command to route the 16 extracted audio ports to any INPUT:

**SET OUTx AS INy** -- Where Set Ex-Audio Output x To Input y{x=[0~16]}(0=ALL), y=[1~16]}

***NOTE: 2CH Balanced Audio Port - Supports 2CH PCM audio only, which is ideal for 2 Channel systems and zoned audio systems. NO DOWN-MIXING***

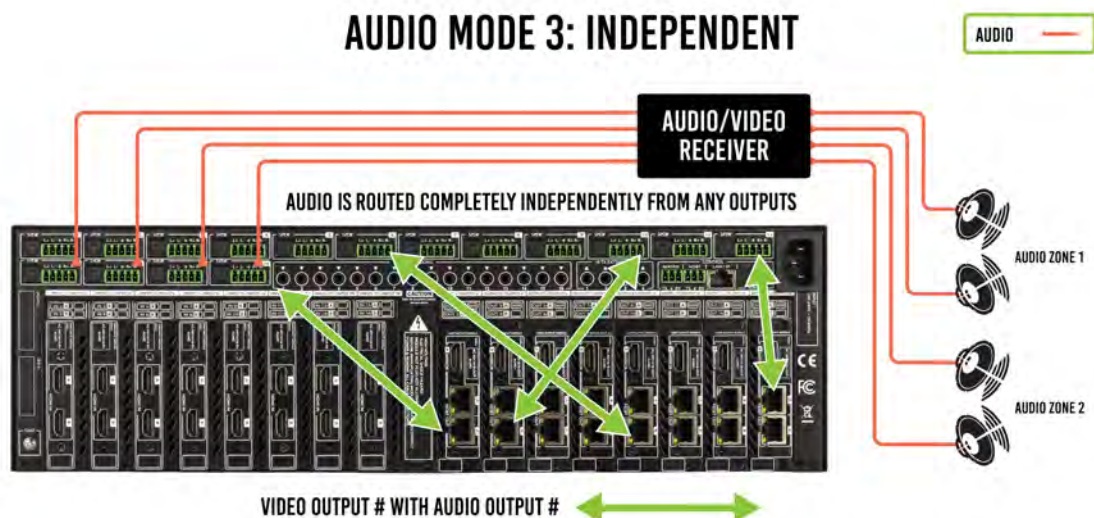
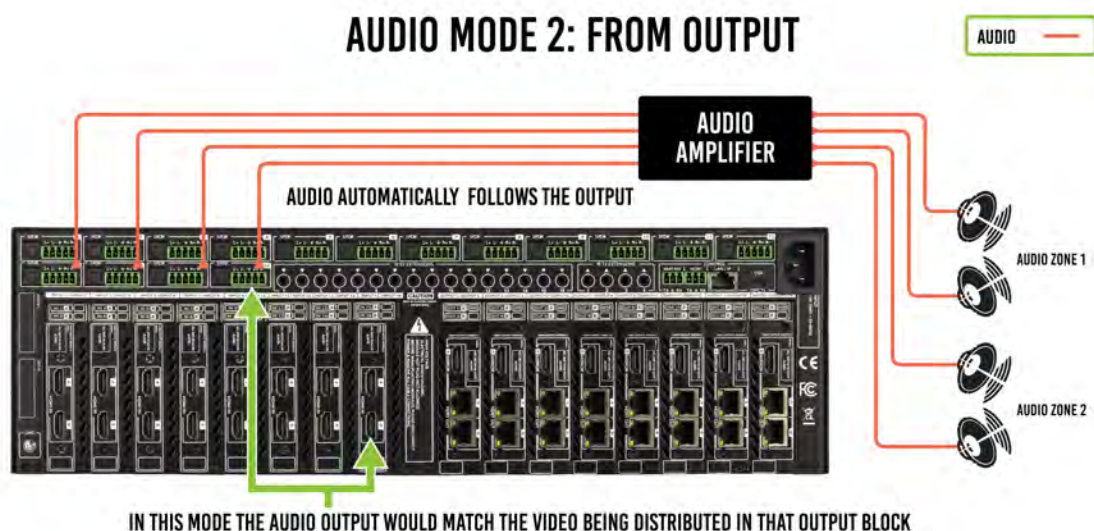
***Toslink Audio Port - Supports PCM, LPCM (up to 7CH), Dolby Digital, Dolby Digital Plus, DTS, DTS-HD, DTS Master Audio, which is ideal for multi-channel audio systems and older AVR's that do not support 18Gbps.***

### Audio Diagrams:

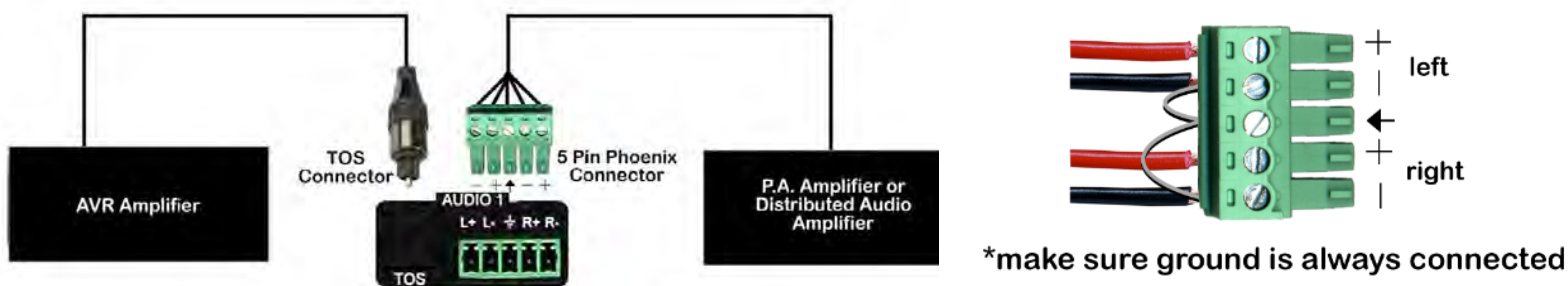


## Extracted Audio cont:

Audio Diagrams:



## Audio Wiring Diagram:





# Web Interface: Sense Switch

Here you can switch INPUTS/OUTPUTS

Sense Switch

Link Info

Video Setting

Audio Setting

Audio Matrix

IR EX-Setting

IR & RS232 Control

EDID Manage

System Setting

Sense Switch

|       |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| OUT1  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT2  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT3  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT4  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT5  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT6  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT7  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT8  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT9  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT10 | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT11 | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT12 | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT13 | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT14 | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT15 | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT16 | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| ALL   | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |

AC-MX1616-AUHD  
V1.30

# Web Interface: Link Info

Here you can see video information for each INPUT.

Sense Switch

Link Info

Video Setting

Audio Setting

Audio Matrix

IR EX-Setting

IR & RS232 Control

EDID Manage

System Setting

AVProedge

VIDEO INFO

|      |                        |         |
|------|------------------------|---------|
| IN1  | 3840X2160P@62HZ YUV420 | Refresh |
| IN2  | 1920X1080P@60HZ YUV422 |         |
| IN3  | NO SIGNAL              |         |
| IN4  | NO SIGNAL              |         |
| IN5  | NO SIGNAL              |         |
| IN6  | NO SIGNAL              |         |
| IN7  | NO SIGNAL              |         |
| IN8  | NO SIGNAL              |         |
| IN9  | NO SIGNAL              |         |
| IN10 | NO SIGNAL              |         |
| IN11 | NO SIGNAL              |         |
| IN12 | NO SIGNAL              |         |
| IN13 | NO SIGNAL              |         |
| IN14 | NO SIGNAL              |         |
| IN15 | NO SIGNAL              |         |
| IN16 | NO SIGNAL              |         |

AC-MX1616-AUHD  
V1.30

Web Interface: Video Settings

- 1. HDBT Video Scaler Mode
  - a. Odd number HDBaseT Ports can be either
    - i. 4K-HD, any incoming 4K Signal will be downscaled to 1920x1080P
    - ii. ICT MODE (18G), Our Invisible Compression Technology mode (Default) when paired with 444 HDBaseT Receiver will deliver a 18Gbps signal over HDBaseT
- 2. HDMI Output Stream
  - a. Mirrored HDMI OUTPUTs can be turned ON/OFF
- 3. HDBT Output Stream
  - a. Each HDBT Output can be turned ON/OFF
- 4. HDBT Output Signal
  - a. Built in 1080P Test pattern can be turned ON/OFF per HDBT Output

Sense Switch

Link Info

Video Setting

Audio Setting

Audio Matrix

IR EX-Setting

IR & RS232 Control

EDID Manage

System Setting

AVProedge

HDBT Video Scaler Mode

|       |       |          |
|-------|-------|----------|
| OUT1  | 4K-HD | ICT MODE |
| OUT3  | 4K-HD | ICT MODE |
| OUT5  | 4K-HD | ICT MODE |
| OUT7  | 4K-HD | ICT MODE |
| OUT9  | 4K-HD | ICT MODE |
| OUT11 | 4K-HD | ICT MODE |
| OUT13 | 4K-HD | ICT MODE |
| OUT15 | 4K-HD | ICT MODE |

HDMI Output Stream

|       |    |     |
|-------|----|-----|
| OUT1  | ON | OFF |
| OUT3  | ON | OFF |
| OUT5  | ON | OFF |
| OUT7  | ON | OFF |
| OUT9  | ON | OFF |
| OUT11 | ON | OFF |
| OUT13 | ON | OFF |
| OUT15 | ON | OFF |

HDBT Output Stream

|       |    |     |
|-------|----|-----|
| OUT1  | ON | OFF |
| OUT2  | ON | OFF |
| OUT3  | ON | OFF |
| OUT4  | ON | OFF |
| OUT5  | ON | OFF |
| OUT6  | ON | OFF |
| OUT7  | ON | OFF |
| OUT8  | ON | OFF |
| OUT9  | ON | OFF |
| OUT10 | ON | OFF |
| OUT11 | ON | OFF |
| OUT12 | ON | OFF |
| OUT13 | ON | OFF |
| OUT14 | ON | OFF |
| OUT15 | ON | OFF |
| OUT16 | ON | OFF |

HDBT Output Signal

|       |    |     |
|-------|----|-----|
| OUT1  | ON | OFF |
| OUT2  | ON | OFF |
| OUT3  | ON | OFF |
| OUT4  | ON | OFF |
| OUT5  | ON | OFF |
| OUT6  | ON | OFF |
| OUT7  | ON | OFF |
| OUT8  | ON | OFF |
| OUT9  | ON | OFF |
| OUT10 | ON | OFF |
| OUT11 | ON | OFF |
| OUT12 | ON | OFF |
| OUT13 | ON | OFF |
| OUT14 | ON | OFF |
| OUT15 | ON | OFF |
| OUT16 | ON | OFF |

AC-MX1616-AUHD  
V1.30




## Web Interface: Audio Settings

### 1. Extracted Audio Delay (MS)

- a. Each extracted Audio Port has the ability to delay the audio in 90 millisecond intervals.
  - i. 90, 180, 270, 360, 450, 540, and 630 Miliseconds.
- b. Bp = BYPASS (Default).

### 2. Audio Status

- a. Each extracted Audio Port can be turned ON/OFF

| Sense Switch   | Link Info | Video Setting | Audio Setting | Audio Matrix | IR EX-Setting | IR & RS232 Control | EDID Manage | System Setting |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
|--|-----------|---------------|---------------|--------------|---------------|--------------------|-------------|----------------|------|----|-----|-----|-----|-----|-----|-----|----|------|----|-----|-----|-----|-----|-----|-----|----|------|----|-----|-----|-----|-----|-----|-----|----|------|----|-----|-----|-----|-----|-----|-----|----|------|----|-----|-----|-----|-----|-----|-----|----|------|----|-----|-----|-----|-----|-----|-----|----|------|----|-----|-----|-----|-----|-----|-----|----|------|----|-----|-----|-----|-----|-----|-----|----|------|----|-----|-----|-----|-----|-----|-----|----|-------|----|-----|-----|-----|-----|-----|-----|----|-------|----|-----|-----|-----|-----|-----|-----|----|-------|----|-----|-----|-----|-----|-----|-----|----|-------|----|-----|-----|-----|-----|-----|-----|----|-------|----|-----|-----|-----|-----|-----|-----|----|-------|----|-----|-----|-----|-----|-----|-----|----|-------|----|-----|-----|-----|-----|-----|-----|----|------|----|-----|------|----|-----|------|----|-----|------|----|-----|------|----|-----|------|----|-----|------|----|-----|------|----|-----|------|----|-----|-------|----|-----|-------|----|-----|-------|----|-----|-------|----|-----|-------|----|-----|-------|----|-----|-------|----|-----|
|    |           |               |               |              |               |                    |             |                |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| <div> <div> Ex-Audio Output Delay(MS) </div> <table> <tr><td>OUT1</td><td>90</td><td>180</td><td>270</td><td>360</td><td>450</td><td>540</td><td>630</td><td>Bp</td></tr> <tr><td>OUT2</td><td>90</td><td>180</td><td>270</td><td>360</td><td>450</td><td>540</td><td>630</td><td>Bp</td></tr> <tr><td>OUT3</td><td>90</td><td>180</td><td>270</td><td>360</td><td>450</td><td>540</td><td>630</td><td>Bp</td></tr> <tr><td>OUT4</td><td>90</td><td>180</td><td>270</td><td>360</td><td>450</td><td>540</td><td>630</td><td>Bp</td></tr> <tr><td>OUT5</td><td>90</td><td>180</td><td>270</td><td>360</td><td>450</td><td>540</td><td>630</td><td>Bp</td></tr> <tr><td>OUT6</td><td>90</td><td>180</td><td>270</td><td>360</td><td>450</td><td>540</td><td>630</td><td>Bp</td></tr> <tr><td>OUT7</td><td>90</td><td>180</td><td>270</td><td>360</td><td>450</td><td>540</td><td>630</td><td>Bp</td></tr> <tr><td>OUT8</td><td>90</td><td>180</td><td>270</td><td>360</td><td>450</td><td>540</td><td>630</td><td>Bp</td></tr> <tr><td>OUT9</td><td>90</td><td>180</td><td>270</td><td>360</td><td>450</td><td>540</td><td>630</td><td>Bp</td></tr> <tr><td>OUT10</td><td>90</td><td>180</td><td>270</td><td>360</td><td>450</td><td>540</td><td>630</td><td>Bp</td></tr> <tr><td>OUT11</td><td>90</td><td>180</td><td>270</td><td>360</td><td>450</td><td>540</td><td>630</td><td>Bp</td></tr> <tr><td>OUT12</td><td>90</td><td>180</td><td>270</td><td>360</td><td>450</td><td>540</td><td>630</td><td>Bp</td></tr> <tr><td>OUT13</td><td>90</td><td>180</td><td>270</td><td>360</td><td>450</td><td>540</td><td>630</td><td>Bp</td></tr> <tr><td>OUT14</td><td>90</td><td>180</td><td>270</td><td>360</td><td>450</td><td>540</td><td>630</td><td>Bp</td></tr> <tr><td>OUT15</td><td>90</td><td>180</td><td>270</td><td>360</td><td>450</td><td>540</td><td>630</td><td>Bp</td></tr> <tr><td>OUT16</td><td>90</td><td>180</td><td>270</td><td>360</td><td>450</td><td>540</td><td>630</td><td>Bp</td></tr> </table> </div> <div> <div>Audio Status</div> <table> <tr><td>OUT1</td><td>ON</td><td>OFF</td></tr> <tr><td>OUT2</td><td>ON</td><td>OFF</td></tr> <tr><td>OUT3</td><td>ON</td><td>OFF</td></tr> <tr><td>OUT4</td><td>ON</td><td>OFF</td></tr> <tr><td>OUT5</td><td>ON</td><td>OFF</td></tr> <tr><td>OUT6</td><td>ON</td><td>OFF</td></tr> <tr><td>OUT7</td><td>ON</td><td>OFF</td></tr> <tr><td>OUT8</td><td>ON</td><td>OFF</td></tr> <tr><td>OUT9</td><td>ON</td><td>OFF</td></tr> <tr><td>OUT10</td><td>ON</td><td>OFF</td></tr> <tr><td>OUT11</td><td>ON</td><td>OFF</td></tr> <tr><td>OUT12</td><td>ON</td><td>OFF</td></tr> <tr><td>OUT13</td><td>ON</td><td>OFF</td></tr> <tr><td>OUT14</td><td>ON</td><td>OFF</td></tr> <tr><td>OUT15</td><td>ON</td><td>OFF</td></tr> <tr><td>OUT16</td><td>ON</td><td>OFF</td></tr> </table> </div> |           |               |               |              |               |                    |             |                | OUT1 | 90 | 180 | 270 | 360 | 450 | 540 | 630 | Bp | OUT2 | 90 | 180 | 270 | 360 | 450 | 540 | 630 | Bp | OUT3 | 90 | 180 | 270 | 360 | 450 | 540 | 630 | Bp | OUT4 | 90 | 180 | 270 | 360 | 450 | 540 | 630 | Bp | OUT5 | 90 | 180 | 270 | 360 | 450 | 540 | 630 | Bp | OUT6 | 90 | 180 | 270 | 360 | 450 | 540 | 630 | Bp | OUT7 | 90 | 180 | 270 | 360 | 450 | 540 | 630 | Bp | OUT8 | 90 | 180 | 270 | 360 | 450 | 540 | 630 | Bp | OUT9 | 90 | 180 | 270 | 360 | 450 | 540 | 630 | Bp | OUT10 | 90 | 180 | 270 | 360 | 450 | 540 | 630 | Bp | OUT11 | 90 | 180 | 270 | 360 | 450 | 540 | 630 | Bp | OUT12 | 90 | 180 | 270 | 360 | 450 | 540 | 630 | Bp | OUT13 | 90 | 180 | 270 | 360 | 450 | 540 | 630 | Bp | OUT14 | 90 | 180 | 270 | 360 | 450 | 540 | 630 | Bp | OUT15 | 90 | 180 | 270 | 360 | 450 | 540 | 630 | Bp | OUT16 | 90 | 180 | 270 | 360 | 450 | 540 | 630 | Bp | OUT1 | ON | OFF | OUT2 | ON | OFF | OUT3 | ON | OFF | OUT4 | ON | OFF | OUT5 | ON | OFF | OUT6 | ON | OFF | OUT7 | ON | OFF | OUT8 | ON | OFF | OUT9 | ON | OFF | OUT10 | ON | OFF | OUT11 | ON | OFF | OUT12 | ON | OFF | OUT13 | ON | OFF | OUT14 | ON | OFF | OUT15 | ON | OFF | OUT16 | ON | OFF |
| OUT1   | 90        | 180           | 270           | 360          | 450           | 540                | 630         | Bp             |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT2   | 90        | 180           | 270           | 360          | 450           | 540                | 630         | Bp             |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT3   | 90        | 180           | 270           | 360          | 450           | 540                | 630         | Bp             |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT4   | 90        | 180           | 270           | 360          | 450           | 540                | 630         | Bp             |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT5   | 90        | 180           | 270           | 360          | 450           | 540                | 630         | Bp             |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT6   | 90        | 180           | 270           | 360          | 450           | 540                | 630         | Bp             |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT7   | 90        | 180           | 270           | 360          | 450           | 540                | 630         | Bp             |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT8   | 90        | 180           | 270           | 360          | 450           | 540                | 630         | Bp             |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT9   | 90        | 180           | 270           | 360          | 450           | 540                | 630         | Bp             |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT10  | 90        | 180           | 270           | 360          | 450           | 540                | 630         | Bp             |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT11  | 90        | 180           | 270           | 360          | 450           | 540                | 630         | Bp             |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT12  | 90        | 180           | 270           | 360          | 450           | 540                | 630         | Bp             |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT13  | 90        | 180           | 270           | 360          | 450           | 540                | 630         | Bp             |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT14  | 90        | 180           | 270           | 360          | 450           | 540                | 630         | Bp             |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT15  | 90        | 180           | 270           | 360          | 450           | 540                | 630         | Bp             |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT16  | 90        | 180           | 270           | 360          | 450           | 540                | 630         | Bp             |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT1   | ON        | OFF           |               |              |               |                    |             |                |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT2   | ON        | OFF           |               |              |               |                    |             |                |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT3   | ON        | OFF           |               |              |               |                    |             |                |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT4   | ON        | OFF           |               |              |               |                    |             |                |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT5   | ON        | OFF           |               |              |               |                    |             |                |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT6   | ON        | OFF           |               |              |               |                    |             |                |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT7   | ON        | OFF           |               |              |               |                    |             |                |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT8   | ON        | OFF           |               |              |               |                    |             |                |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT9   | ON        | OFF           |               |              |               |                    |             |                |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT10  | ON        | OFF           |               |              |               |                    |             |                |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT11  | ON        | OFF           |               |              |               |                    |             |                |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT12  | ON        | OFF           |               |              |               |                    |             |                |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT13  | ON        | OFF           |               |              |               |                    |             |                |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT14  | ON        | OFF           |               |              |               |                    |             |                |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT15  | ON        | OFF           |               |              |               |                    |             |                |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |
| OUT16  | ON        | OFF           |               |              |               |                    |             |                |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |      |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |       |    |     |     |     |     |     |     |    |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |      |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |       |    |     |

## Web Interface: Audio Matrix

The Audio Setting tab allows to:

### 1 - Select the Ex-Audio Matrix

- Mode:**
- Bind To Output (Default) ~ Extracted audio will switch with the corresponding HDMI Output of the same number
  - Bind To Input ~ Extracted audio will be fixed to the corresponding HDMI Input of the same number (Audio will never switch)
  - Matrix ~ Extracted audio can be routed independently of the HDMI Matrix (NOTE: You can only use the "Audio Matrix" control grid when this mode is selected).

**2 - Audio Matrix** ~ This grid allows you to control the extracted audio route independently of the HDMI route.

**\*\*NOTE: This function is only available if the Ex-Audio Mode is "Matrix" \*\***

Sense Switch

Link Info

Video Setting

Audio Setting

Audio Matrix

IR EX-Setting

IR & RS232 Control

EDID Manage

System Setting

AVPro edge

Ex-Audio Matrix Mode

Bind To Output

Bind To Input

Matrix

Audio Matrix

|       |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| OUT1  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT2  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT3  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT4  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT5  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT6  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT7  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT8  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT9  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT10 | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT11 | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT12 | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT13 | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT14 | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT15 | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT16 | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| ALL   | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |

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## Web Interface: IR EX-Settings

- IR RX Extensions:
- IR TX Extensions:

1. By default the **IR RX** is routed to the corresponding HDBaseT Output number (ie. IR IN #1 --> HDBaseT Output 1, IR IN #2 --> HDBaseT Output 2, etc...)  
 a. To change, use the arrow keys to select the HDBT Channel/RX Channel, hit ENTER and use the up/down arrow keys to change the route
2. By default the **IR TX** is automatically routed with the active source (ie. If you are watching INPUT 3 on HDBaseT OUTPUT 1, when you point a remote at an IR Receiver on the HDBaseT Rx connected the signal will be routed to IR OUT 3)
3. Each **IR IN** can be routed in any way you like (One to one or one to many) by using the command SET IRC EXT SW x1.x2.x3.x4 (See below).
4. Each **IR OUT** can be routed manually as well using the command SET IRT OUTx IS INy ({x=[0~16](0=all),y=[1~16]}).

Sense Switch

Link Info

Video Setting

Audio Setting

Audio Matrix

IR EX-Setting

IR & RS232 Control

EDID Manage

System Setting

IR RX EXTENSIONS

|       |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| OUT1  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT2  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT3  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT4  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT5  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT6  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT7  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT8  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT9  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT10 | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT11 | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT12 | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT13 | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT14 | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT15 | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| OUT16 | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
| ALL   | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |

IR TX EXTENSIONS

|      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| OUT1 | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  |
| OUT2 | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  |
| OUT3 | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  |
| OUT4 | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  |
|      | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |

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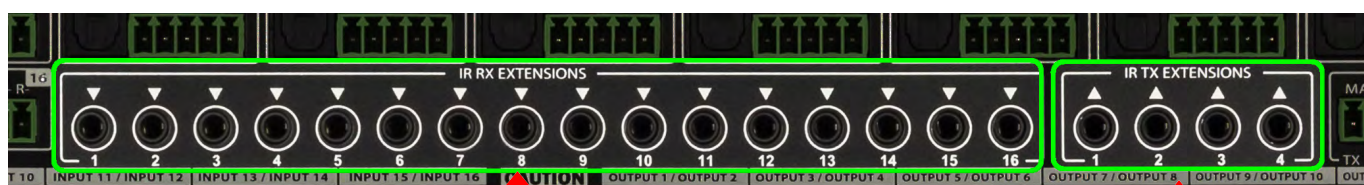
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## Web Interface: IR & RS232 Control

- RS232 Control:
  - ON (Default) - Allows RS232 signals to route through Matrix to HDBaseT Receiver
  - OFF - RS232 signals will not route through the Matrix to the corresponding HDBaseT Receivers
- Local IR Switch:
  - ON (Default) - Turns IR RX Extensions 3.5mm Ports on back of Matrix ON
  - OFF - Turns IR RX Extensions 3.5mm Ports on back of Matrix OFF
- Callback IR Switch:
  - ON (Default) - Turns IR TX Extension 3.5mm Ports on the back of the Matrix ON
  - OFF - Turns IR TX Extension 3.5mm Ports on the back of the Matrix OFF



IR RX  
Extensions

IR TX  
Extensions

Sense Switch
Link Info
Video Setting
Audio Setting
Audio Matrix
IR EX-Setting
**IR & RS232 Control**
EDID Manage
System Setting

RS232 CONTROL

|     | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| RS1 | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON   | ON   | ON   | ON   | ON   | ON   | ON   |
|     | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  |

LOCAL IR SWITCH

|  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
|  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON   | ON   | ON   | ON   | ON   | ON   | ON   |
|  | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  |

CALLBACK IR SWITCH

|  | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | IN13 | IN14 | IN15 | IN16 |
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
|  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON   | ON   | ON   | ON   | ON   | ON   | ON   |
|  | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  |

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## Web Interface: IR & RS232 Control

Using the built-in EDID manager, a multitude of EDID's can be set for each input, and each input can be assigned a different EDID. This should be used to optimize or to manage infrastructure.

- The EDID options are:
- |                   |                       |
|-------------------|-----------------------|
| 1080P_2CH         | 1080P_8CH_HDR         |
| 1080P_6CH         | 1080P_3D_2CH_HDR      |
| 1080P_8CH         | 1080P_3D_6CH_HDR      |
| 1080P_3D_2CH      | 1080P_3D_8CH_HDR      |
| 1080P_3D_6CH      | 4K30HZ_3D_2CH_HDR     |
| 1080P_3D_8CH      | 4K30HZ_3D_6CH_HDR     |
| 4K30HZ_3D_2CH     | 4K30HZ_3D_8CH_HDR     |
| 4K30HZ_3D_6CH     | 4K60HzY420_3D_2CH_HDR |
| 4K30HZ_3D_8CH     | 4K60HzY420_3D_6CH_HDR |
| 4K60HzY420_3D_2CH | 4K60HzY420_3D_8CH_HDR |
| 4K60HzY420_3D_6CH | 4K60HZ_3D_2CH_HDR     |
| 4K60HzY420_3D_8CH | 4K60HZ_3D_6CH_HDR     |
| 4K60HZ_3D_2CH     | 4K60HZ_3D_8CH_HDR     |
| 4K60HZ_3D_6CH     | User EDID 1           |
| 4K60HZ_3D_8CH     | User EDID 2           |
| 1080P_2CH_HDR     | User EDID 3           |
| 1080P_6CH_HDR     |                       |

\*You can copy the EDID from any output (HDMI and HDBaseT) and apply it to any input. Select "Copy EDID from Output x" (x=1-16) and click Apply. This will copy the EDID from the display and apply it to the selected input. The new EDID will be stored as "USER EDID1"

Sense Switch

Link Info

Video Setting

Audio Setting

Audio Matrix

IR EX-Setting

IR & RS232 Control

EDID Manage

System Setting

AVProedge

EDID Manage

IN1

1080P 2CH

▼

Apply

IN2

1080P 2CH

▼

Apply

IN3

1080P 2CH

▼

Apply

IN4

1080P 2CH

▼

Apply

IN5

1080P 2CH

▼

Apply

IN6

1080P 2CH

▼

Apply

IN7

1080P 2CH

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Apply

IN8

1080P 2CH

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Apply

IN9

1080P 2CH

▼

Apply

IN10

1080P 2CH

▼

Apply

IN11

1080P 2CH

▼

Apply

IN12

1080P 2CH

▼

Apply

IN13

1080P 2CH

▼

Apply

IN14

1080P 2CH

▼

Apply

IN15

1080P 2CH

▼

Apply

IN16

1080P 2CH

▼

Apply

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## Web Interface: System Settings

- IP Settings
  - Host IP Address
  - Subnet Mask
  - Router IP Address
  - TCP Port
  - DHCP/Static
- Port Alias Settings
  - Rename/Label each INPUT and OUTPUT (limited to Six Characters)

| Sense Switch   | Link Info         | Video Setting | Audio Setting | Audio Matrix | IR EX-Setting | IR & RS232 Control | EDID Manage | System Setting |             |                   |                 |               |             |               |                   |             |          |    |      |      |     |     |      |      |     |     |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |
|--|-------------------|---------------|---------------|--------------|---------------|--------------------|-------------|----------------|-------------|-------------------|-----------------|---------------|-------------|---------------|-------------------|-------------|----------|----|------|------|-----|-----|------|------|-----|-----|------|------|-----|-----|-------|-------|------|------|------|------|-----|-----|-------|-------|------|------|------|------|-----|-----|-------|-------|------|------|------|------|-----|-----|-------|-------|------|------|------|------|-----|-----|-------|-------|------|------|------|------|-----|-----|-------|-------|------|------|------|------|-----|-----|-------|-------|------|------|
|    |                   |               |               |              |               |                    |             |                |             |                   |                 |               |             |               |                   |             |          |    |      |      |     |     |      |      |     |     |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <h3 style="text-align: center; color: white;">IP Setting</h3> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">MAC Address</td> <td style="border: 1px solid #ccc; padding: 2px;">F8:1D:78:A8:19:E4</td> </tr> <tr> <td>Host IP Address</td> <td style="border: 1px solid #ccc; padding: 2px;">192.168.1.239</td> </tr> <tr> <td>Subnet Mask</td> <td style="border: 1px solid #ccc; padding: 2px;">255.255.255.0</td> </tr> <tr> <td>Router IP Address</td> <td style="border: 1px solid #ccc; padding: 2px;">192.168.1.1</td> </tr> <tr> <td>TCP Port</td> <td style="border: 1px solid #ccc; padding: 2px;">23</td> </tr> </table> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <span style="border: 1px solid #ccc; padding: 2px 10px;">DHCP</span> <span style="border: 1px solid #ccc; padding: 2px 10px; background-color: #0072bc; color: white;">Static IP</span> <span style="border: 1px solid #ccc; padding: 2px 10px;">Apply</span> </div> </div> <div style="width: 50%;"> <h3 style="text-align: center; color: white;">Port Alias Setting</h3> <table style="width: 100%; border-collapse: collapse;"> <tr> <td>OUT1</td><td>OUT1</td><td>IN1</td><td>IN1</td><td>OUT9</td><td>OUT9</td><td>IN9</td><td>IN9</td> </tr> <tr> <td>OUT2</td><td>OUT2</td><td>IN2</td><td>IN2</td><td>OUT10</td><td>OUT10</td><td>IN10</td><td>IN10</td> </tr> <tr> <td>OUT3</td><td>OUT3</td><td>IN3</td><td>IN3</td><td>OUT11</td><td>OUT11</td><td>IN11</td><td>IN11</td> </tr> <tr> <td>OUT4</td><td>OUT4</td><td>IN4</td><td>IN4</td><td>OUT12</td><td>OUT12</td><td>IN12</td><td>IN12</td> </tr> <tr> <td>OUT5</td><td>OUT5</td><td>IN5</td><td>IN5</td><td>OUT13</td><td>OUT13</td><td>IN13</td><td>IN13</td> </tr> <tr> <td>OUT6</td><td>OUT6</td><td>IN6</td><td>IN6</td><td>OUT14</td><td>OUT14</td><td>IN14</td><td>IN14</td> </tr> <tr> <td>OUT7</td><td>OUT7</td><td>IN7</td><td>IN7</td><td>OUT15</td><td>OUT15</td><td>IN15</td><td>IN15</td> </tr> <tr> <td>OUT8</td><td>OUT8</td><td>IN8</td><td>IN8</td><td>OUT16</td><td>OUT16</td><td>IN16</td><td>IN16</td> </tr> </table> <div style="text-align: center; margin-top: 10px;"> <span style="border: 1px solid #ccc; padding: 2px 10px;">Apply</span> </div> </div> </div> |                   |               |               |              |               |                    |             |                | MAC Address | F8:1D:78:A8:19:E4 | Host IP Address | 192.168.1.239 | Subnet Mask | 255.255.255.0 | Router IP Address | 192.168.1.1 | TCP Port | 23 | OUT1 | OUT1 | IN1 | IN1 | OUT9 | OUT9 | IN9 | IN9 | OUT2 | OUT2 | IN2 | IN2 | OUT10 | OUT10 | IN10 | IN10 | OUT3 | OUT3 | IN3 | IN3 | OUT11 | OUT11 | IN11 | IN11 | OUT4 | OUT4 | IN4 | IN4 | OUT12 | OUT12 | IN12 | IN12 | OUT5 | OUT5 | IN5 | IN5 | OUT13 | OUT13 | IN13 | IN13 | OUT6 | OUT6 | IN6 | IN6 | OUT14 | OUT14 | IN14 | IN14 | OUT7 | OUT7 | IN7 | IN7 | OUT15 | OUT15 | IN15 | IN15 | OUT8 | OUT8 | IN8 | IN8 | OUT16 | OUT16 | IN16 | IN16 |
| MAC Address  | F8:1D:78:A8:19:E4 |               |               |              |               |                    |             |                |             |                   |                 |               |             |               |                   |             |          |    |      |      |     |     |      |      |     |     |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |
| Host IP Address  | 192.168.1.239     |               |               |              |               |                    |             |                |             |                   |                 |               |             |               |                   |             |          |    |      |      |     |     |      |      |     |     |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |
| Subnet Mask  | 255.255.255.0     |               |               |              |               |                    |             |                |             |                   |                 |               |             |               |                   |             |          |    |      |      |     |     |      |      |     |     |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |
| Router IP Address  | 192.168.1.1       |               |               |              |               |                    |             |                |             |                   |                 |               |             |               |                   |             |          |    |      |      |     |     |      |      |     |     |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |
| TCP Port   | 23                |               |               |              |               |                    |             |                |             |                   |                 |               |             |               |                   |             |          |    |      |      |     |     |      |      |     |     |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |
| OUT1   | OUT1              | IN1           | IN1           | OUT9         | OUT9          | IN9                | IN9         |                |             |                   |                 |               |             |               |                   |             |          |    |      |      |     |     |      |      |     |     |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |
| OUT2   | OUT2              | IN2           | IN2           | OUT10        | OUT10         | IN10               | IN10        |                |             |                   |                 |               |             |               |                   |             |          |    |      |      |     |     |      |      |     |     |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |
| OUT3   | OUT3              | IN3           | IN3           | OUT11        | OUT11         | IN11               | IN11        |                |             |                   |                 |               |             |               |                   |             |          |    |      |      |     |     |      |      |     |     |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |
| OUT4   | OUT4              | IN4           | IN4           | OUT12        | OUT12         | IN12               | IN12        |                |             |                   |                 |               |             |               |                   |             |          |    |      |      |     |     |      |      |     |     |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |
| OUT5   | OUT5              | IN5           | IN5           | OUT13        | OUT13         | IN13               | IN13        |                |             |                   |                 |               |             |               |                   |             |          |    |      |      |     |     |      |      |     |     |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |
| OUT6   | OUT6              | IN6           | IN6           | OUT14        | OUT14         | IN14               | IN14        |                |             |                   |                 |               |             |               |                   |             |          |    |      |      |     |     |      |      |     |     |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |
| OUT7   | OUT7              | IN7           | IN7           | OUT15        | OUT15         | IN15               | IN15        |                |             |                   |                 |               |             |               |                   |             |          |    |      |      |     |     |      |      |     |     |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |
| OUT8   | OUT8              | IN8           | IN8           | OUT16        | OUT16         | IN16               | IN16        |                |             |                   |                 |               |             |               |                   |             |          |    |      |      |     |     |      |      |     |     |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |
| AC-MX1616-AUHD<br>V1.30  |                   |               |               |              |               |                    |             |                |             |                   |                 |               |             |               |                   |             |          |    |      |      |     |     |      |      |     |     |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |      |      |     |     |       |       |      |      |



## ▪ *Troubleshooting*

- Verify Power - Pg. 7
  - Ensure the Power cord is properly connected, front panel HDBaseT port LED indicator lights should be active
- Verify Connections - Check that all cables are properly connected
- Not passing video, this may be an EDID issue. Out of the box the default is 1080P 2CH. Try a canned EDID or copy the connected displays EDID - Pg. 11, 18, 28
- IR Issues - Verify correct connections - P. 13, 15, 26
  - Visibly flashing Emitters may not function properly, try the IR Cables that come in the box if you are experiencing issues
- Audio Issues - Pg. 10, 19, 20, 24, 25
  - Verify Source is set to output 8ch if using TOSLINK
    - Note: This unit does NOT Down-Mix, for 2Ch port to function source must be set to 2Ch.
- Still having issues, contact us
  - Support Direct - +1-605-977-3477
  - All inquiries - + 1-605-274-6055
  - Submit a support request ticket
    - <https://support.avproedge.com/hc/en-us/requests/new>

## ■ ***Maintenance***

To ensure reliable operation of this product as well as protecting the safety of any person using or handling this device while powered, please observe the following instructions.

- Use the power supplies provided. If an alternate supply is required, check voltage, polarity and that it has sufficient power to supply the device it is connected to.
- Do not operate these products outside the specified temperature and humidity range given in the above specifications.
- Ensure there is adequate ventilation to allow this product to operate efficiently.
- Repair of the equipment should only be carried out by qualified professionals as these products contain sensitive components that may be damaged by any mistreatment.
- Only use this product in a dry environment. Do not allow any liquids or harmful chemicals to come into contact with these products.
- Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner or benzene to clean this unit.

## ■ ***Damage Requiring Service***

The unit should be serviced by qualified service personnel if:

- The DC power supply cord or AC adaptor has been damaged
- Objects or liquids have gotten into the unit
- The unit has been exposed to rain
- The unit does not operate normally or exhibits a marked change in performance
- The unit has been dropped or the housing damaged

## ■ ***Support***

Should you experience any problems while using this product, first, refer to the Troubleshooting section of this manual before contacting Technical Support. When calling, the following information should be provided:

- Product name and model number
- Product serial number
- Details of the issue and any conditions under which the issue is occurring

## ■ ***Warranty***

If your product does not work properly because of a defect in materials or workmanship, AVProEdge (referred to as “the warrantor” ) will, for the length of the period indicated as below, (Parts/Labor (10) Years), which starts with the date of original purchase ( “Limited Warranty period” ), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor. During the “Labor” Limited Warranty period there will be no charge for labor. During the “Parts” warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty is extended only to the original purchaser and only covers product purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

This warranty extends to products purchased directly from AVPro or an authorized dealer. AVPro is not liable to honor this warranty if the product has been used in any application other than that for which it was intended, has been subjected to misuse, accidental damage, modification or improper installation procedures, unauthorized repairs or is outside of the warranty period. Please direct any questions or issues you may have to your local dealer before contacting AVPro.



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Thank you for choosing AVProEdge!

Please contact us with any questions, we are happily at your service!



AVProEdge  
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1-877-886-5112 ~ 605-274-6055  
[support@avproedge.com](mailto:support@avproedge.com)