User Manual

AC-MX42-AUHD

18 Gbps True 4K60 4:4:4 8x8 HDMI Matrix w/ Dual Audio De-Embedding, Scaling, and Auto-Switching

AVProConnect ~ 3518 N Casco Ave. Sioux Falls, SD 57104~ 1.877.886.5112 ~ +1.605.274.6055 ~ support@avproconnect.com

AC-MX42-AUHD

The AC-MX42-AUHD is a true 4x2 HDMI matrix switch. Supporting HDMI 2.0(a/b), HDCP 2.2, up to 4K video resolution, and up to 18 Gbps bandwidth. 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.

The AC-MX42-AUHD is ideal for bypassing AVR's that do not support full 18Gbps. You can bypass uncompressed HDMI to the display while running down-scaled video into a legacy AVR. Only video is reduced and audio remains untouched, making it an ideal component for systems where high bit rate audio is critical.

Conference room all-star. The auto-switching feature makes this unit an ideal, affordable, component for any conference room system. Ideal for feeding a video signal into a video conferencing codec with very little setup.

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 Bandwidth Support
- 4K60 4:4:4 Support
- Full HDR Support (HDR 10 & 12 Bit)
- Dolby Vision, HDR10+ and HLG Support
- HDCP 2.2 (and all earlier versions supported)
- 4K > 1080p Down Scaler (Out 2)
- Perfect AVR Bypass deliver 18Gbps to Display and uncompressed audio to AVR
- Advanced EDID Management
- IR, RS-232 and LAN Control Options
- Digital Toslink Out (7CH PCM, DD, DD +, DTS, DTS-MA)
- Balanced Analog Out (2CH PCM)
- Down-scaling mode for mixed systems
- Driver Support for Crestron, C4, RTI, ELAN and more
- Extracted Audio Supports DD+, DTS Master Audio on Toslink
- Extracted Audio bound to output 1 or 2

Easy to use:

- Install in seconds
- Feature rich
- Powerful EDID management
- Front Panel Control
- IR Remote
- IR & RS-232 Control
- LAN Control

In The Box:

- AC-MX42-AUHD Matrix Switch
- IR Remote Control
- 5V Locking Power Supply
- 3-Pin Terminal Block
- Mounting Ears

Quick Installation:

1. Connect the HDMI input sources (Blu-ray, Set Top Box, etc...) to the AC-MX42-AUHD.
2. Connect the HDMI output devices (AVR, Display, Distribution Amplifier, Extender) to the AC-MX42-AUHD.
3. Power on the sources.
4. Connect the power supply into the AC-MX42-AUHD.
5. Turn on output devices/displays.
6. Use the front panel controls, supplied IR remote or free LAN (IP: 192.168.001.239) to control the matrix.

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Rear Panel Overview:

Video:	
Video Resolutions	Up to 4K 60Hz 4:4:4
VESA Resolutions	Up to DCI 4K (4096x2160) 5K (up to 5120x3200)
HDR Formats/Resolutions	420, 422, 444 (10 and 12 Deep Color) HDR10, HDR10+, Dolby Vision, HLG
Color Space	YUV (Component), RGB (CSC: Rec. 601, Rec. 709, BT2020, DCI, P3 D6500)
Chroma Subsampeling	4:4:4, 4:2:2, 4:2:0 Supported
Deep Color	Up to 16 bit (1080), Up to 12 bit (4K)
Audio:	
Audio Formats Supported HDMI	PCM 2.0 Ch, LPCM 5.1 & 7.1, Dolby Digtal, 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
Audio Extraction Location	Follows Output (Selectable)
Distance:	
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	18 Gbps
HDCP	HDCP 2.2 and Earlier
Control:	
Ports	LAN, RS232, IR Window
LAN WebOS	YES
Ports:	
HDMI	Type A
LAN	RJ45 w/ Web Interface/Control
Audio (Extracted Digital)	Toslink
Audio (Extracted Analog)	L/R Audio
IR Rx	Window Only (Remote Included)
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)	7 Watts Max
Power Supply - Matrix	Input: AC 100-240V ~ 50/60Hz Output: DC 5V 2A
Dimensions:	
Dimensions (Unit Only Height/Depth/Width)	mm: 20.5 x 94 x 232.98 inch: .9 x 3.7 x 9.17
Dimensions (Packaged Height/Depth/Width)	mm: 76.2 x 184.1 x 317.5 inch: 3 x 7.25 x 12.5
Rack Units	Table Top - or Mounting Ears
Weight (Unit)	2 lbs/.9 kg
Weight (Packaged)	5 lbs/2.26 kg
*Specifications subject to change without notice. Mass & dimensions are approximate	

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Device Overview:

- Definition - Matrix switches provide the ability to route any input to any output or to multiple outputs at any time. Depending on the model, a matrix switch can route HD, UHD or AUHD content in this manner. Additionally, since most venues have both, audio zones and video zones, the requirement to breakout or strip off the audio is often necessary and has become almost a standard feature on most matrix switches.
- Control – Matrix switches are generally controlled via a third-party controller (like Control 4, RTI, Crestron, etc...). Many integrators want ready-made drivers for their control system in order to make programming and deployment easier.
- Matrix Switches are widely used in both, Commercial and Residential Applications.

Front Panel Control:

- "OUT 1 SELECT" - Toggles the active source for OUTPUT 1
- "OUT 2 SELECT" - Toggles the active source for OUTPUT 2
- "AUDIO OUTPUT SELECT" - Toggles which OUTPUT the extracted audio follows (2CH & Toslink are mirrored)
- "OUT 1 SCALER SELECT" - Toggles (On/Off) the output scaler for OUTPUT 1
    - ON - Signal will be scaled to 1080P
    - OFF - Scaler is disabled
- Enable/Disable "Auto-Switching" - Simply PRESS & HOLD the OUTPUT SELECT button for 4 seconds to toggle "Auto-Switching"
    - When the LED is flashing "Auto-Switching" is enabled.
    - You can enable only one output to auto switch, or both - when both are enabled, they will be mirrored.
- EDID is ideally set from the Web Interface, but can be set from the front panel - see EDID section of manual

Rear Panel Overview:

NOTES:

- Default IP Address is 192.168.001.239
- Audio Outputs are mirrored, and can follow one output
    - SPIDIF Toslink supports PCM, LPCM (up to 7CH), Dolby Digital, Dolby Digital Plus, DTS, DTS-HD, DTS Master Audio
    - Analog supports only 2CH PCM. If a higher codec is coming in, it will be silent (Only Toslink will work)

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CONNECTION DIAGRAM

AC-MX42-AUHD

RS-232, IP & USB CONTROL OPTOINS

CONTROL SYSTEM

AVR

DE-EMBEDDED AUDIO BREAK OUTS

HDMI

4K SOURCE

4K SOURCE

4K SOURCE

4K SOURCE

(4) 4K HDMI INPUTS
(2) 4K HDMI OUTPUTS

FRONT PANEL MATRIX CONTROL BUTTONS

THIS SWITCH IS RATED TO HANDLE THE HIGHEST BANDWIDTH 4K SOURCES

AVR BYPASS APPLICATION

AC-MX42-AUHD

4K DIRECTLY TO THE DISPLAY

HDMI

4K SOURCE

4K SOURCE

4K SOURCE

4K SOURCE

DOWNSCALED TO A 1080P RESOLUTION, WHILE RETAINING HIGH QUALITY AUDIO

AVR

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Auto Switching Logic:

When the AC-MX42-AUHD is in "Auto" mode the logic is to switch to the most recently plugged in device based on a Hot Plug Event. You can have either HDMI OUTPUT set on auto individually or they can both be on together.

See examples:

1. When a new source device (like a PC) is plugged into the AC-MX42-AUHD, it automatically switches to that input.

2. When an active source device is disconnected, the AC-MX42-AUHD is automatically switched back to the last source plugged in before it (so long as it is still active). It will continue to backtrack until it finds an active source. If no active source is found it will stop searching after one cycle.

3. If you are collaborating and a PC is connected, when a new PC is plugged into the matrix it will activate the new input on the outputs that are set to "Auto" - You can override by pressing the front panel, or sending a remote serial or LAN command as well.

Audio Output Logic:

You can extract audio from toslink or balance 2CH Audio. Audio outputs are an un-decoded output. This means that what goes in, is what goes out.

1. 2CH Analog Port - Supports 2CH PCM audio only, which is ideal for 2 Channel systems and zoned audio systems.

2. 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.

3. Need to down-mix for combination, uncompressed and 2CH systems? Check out the AC-ADM-AUHD and AC-ADM-COTO

4. NOTE - The 2CH Analog port and the Toslink port are mirrored. If the audio codec coming into the AC-MX42-AUHD is above 2-Channel, the Analog port will be silent, however the audio will still come out of Toslink.

Factory Reset:

There is an easy way to reset all settings on this unit. It is especially useful if a static IP is set and the network changes, you can reset it.

- To preform a factory reset:
  Press and hold both "Audio Select" and "Output 1 Scaler Select" buttons for 5 seconds. All LEDs will flash one time indicating it is complete. All settings will now be reset including the IP address abck to 192.168.001.239

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Audio Wiring Diagram:

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EDID Management:

The BEST/EASIEST WAY to setup EDID's is to use the web interface. However, we know that may not always be an option. Since there is no screen on the device, you will have to rely on the LED's to complete EDID setup. Please follow the steps below (This might take one or two tries to get used too.)

1. Press and hold both "Out 1" and "Out 2" buttons for 5 seconds.
   a. All LED flash one time. You are now in EDID management state.

2. In the EDID management state, press the "Out 1" button to toggle to the input you want to set the EDID for. (1=IN1, 2=IN2, 3=IN3, 4=IN4)

3. Press the "Out 2" button to toggle through the EDID index.

4. Once you land on the EDID you want to use, press and hold the "Out 2" button for 3 seconds. All LEDs will flash one time indicating success

5. NOTE: When in the EDID management state, if you are inactive for 10 seconds it will return to the normal state automatically. All LEDs flash one time.

6. NOTE 2: We have a video available online or upon request if desired. Contact us or request at support.avproconnect.com

Use the chart below to pick your EDID:

AC-MX42-AUHD Front Panel EDID Settings

The LED Status : 0(OFF) 1(ON)

LED / Number	(OUT2)LED N1	(OUT2)LED N2	(OUT2)LED N3	(OUT2)LED N4	Audio LED	Scaler LED	EDID
Input1~Input4(HDMI1、HDMI2、HDMI3、HDMI4) EDID Settings(Output1[IN1][IN2][IN3][IN4] LED)							
0	0	0	0	0	0	0	0:1080P_2CH(PCM)
1	1	0	0	0	0	0	1:1080P_6CH
2	0	1	0	0	0	0	2:1080P_8CH
3	1	1	0	0	0	0	3:1080P_3D_2CH(PCM)
4	0	0	1	0	0	0	4:1080P_3D_6CH
5	1	0	1	0	0	0	5:1080P_3D_8CH
6	0	1	1	0	0	0	6:4K30Hz_3D_2CH(PCM)
7	1	1	1	0	0	0	7:4K30HZ_3D_6CH
8	0	0	0	1	0	0	8:4K30HZ_3D_8CH
9	1	0	0	1	0	0	9:4K60Hz(Y420)_3D_2CH(PCM)
10	0	1	0	1	0	0	10:4K60Hz(Y420)_3D_6CH
11	1	1	0	1	0	0	11:4K60Hz(Y420)_3D_8CH
12	0	0	1	1	0	0	12:4K60HZ_3D_2CH
13	1	0	1	1	0	0	13:4K60HZ_3D_6CH
14	0	1	1	1	0	0	14:4K60HZ_3D_8CH
15	1	1	1	1	0	0	15:1080P_2CH(PCM)_HDR
16	0	0	0	0	1	0	16:1080P_6CH_HDR
17	1	0	0	0	1	0	17:1080P_8CH_HDR
18	0	1	0	0	1	0	18:1080P_3D_2CH(PCM)_HDR
19	1	1	0	0	1	0	19:1080P_3D_6CH_HDR
20	0	0	1	0	1	0	20:1080P_3D_8CH_HDR
21	1	0	1	0	1	0	21:4K30Hz_3D_2CH(PCM)_HDR
22	0	1	1	0	1	0	22:4K30Hz_3D_6CH_HDR
23	1	1	1	0	1	0	23:4K30Hz_3D_8CH_HDR
24	0	0	0	1	1	0	24:4K60Hz(Y420)_3D_2CH(PCM)_HDR
25	1	0	0	1	1	0	25:4K60Hz(Y420)_3D_6CH_HDR
26	0	1	0	1	1	0	26:4K60Hz(Y420)_3D_8CH_HDR
27	1	1	0	1	1	0	27:4K60Hz_3D_2CH(PCM)_HDR
28	0	0	1	1	1	0	28:4K60Hz_3D_6CH_HDR
29	1	0	1	1	1	0	29:4K60Hz_3D_8CH_HDR
30	0	1	1	1	1	0	30:USER1_EDID
31	1	1	1	1	1	0	31:USER2_EDID
32	0	0	0	0	0	1	32:USER3_EDID
33	1	0	0	0	0	1	33:Copy Output1 EDID To Input
34	0	1	0	0	0	1	34:Copy Output2 EDID To Input

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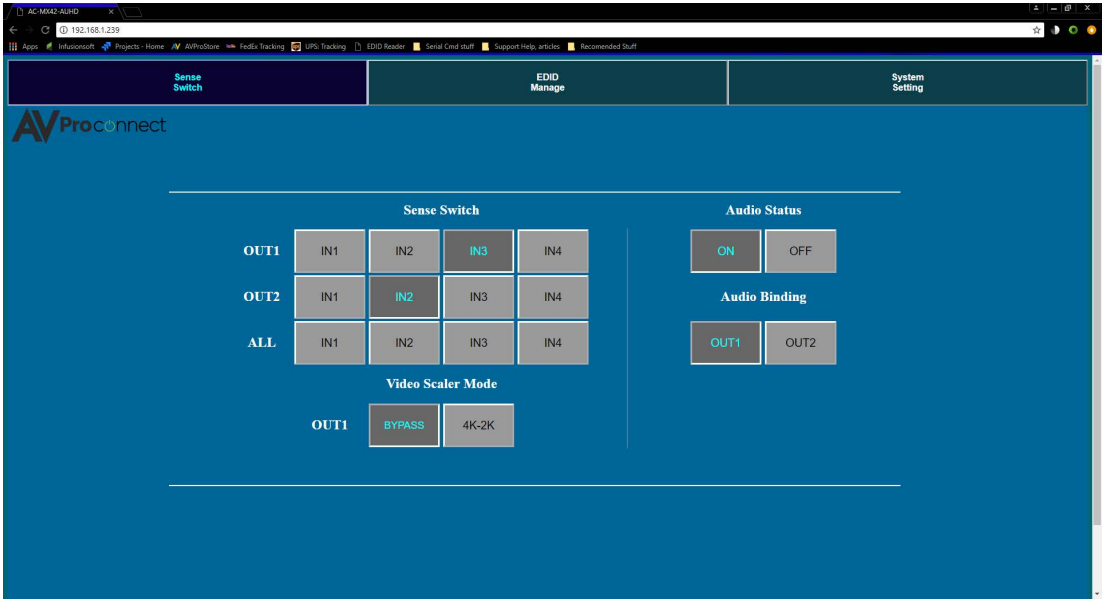
Web Interface: Switching

Use this page to switch between inputs and outputs, set the Output 1 Scaler and manage Audio from the web interface.

Default IP = 192.168.001.239



Sense Switch:

Use this area to route inputs to outputs

Video Scaler Mode:

This will set the scaler mode for OUTPUT 1, the options are:

- **BP** = Bypass - Scaler is disabled (Default)
- **4K-2K** = 1080P - If incoming signal is 4K, it will be downscaled to 1080P or 1900x1200 depending on the input format.

Audio Status:

Enable or Disable extracted Audio, the options are:

- **ON** = Extracted audio ports are ON (Default)
- **OFF**= Extracted audio ports are muted.

Audio Binding:

Bind the audio to a specific OUTPUT 9Audio always will follow one output, this means the sudio switches with the video of the output you designate, the options are:

- **OUT1** = Extracted audio will follow OUTPUT 1 (Default)
- **OUT 2**= Extracted audio will follow OUTPUT 2

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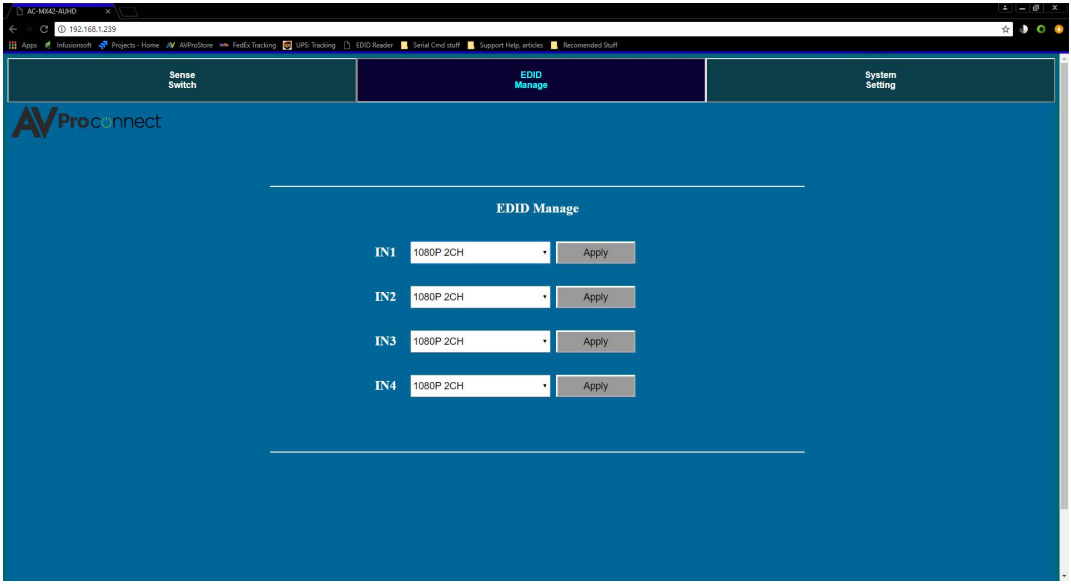
Web Interface: EDID Manage

Default IP = 192.168.001.239



EDID Manage:

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 sources or to manage infrastructure.

The EDID options are:

0. 1080P_2CH
1. 1080P_6CH
2. 1080P_8CH
3. 1080P_3D_2CH
4. 1080P_3D_6CH
5. 1080P_3D_8CH
6. 4K30HZ_3D_2CH
7. 4K30HZ_3D_6CH
8. 4K30HZ_3D_8CH
9. 4K60HzY420_3D_2CH
10. 4K60HzY420_3D_6CH
11. 4K60HzY420_3D_8CH
12. 4K60HZ_3D_2CH
13. 4K60HZ_3D_6CH
14. 4K60HZ_3D_8CH
15. 1080P_2CH_HDR
16. 1080P_6CH_HDR
17. 1080P_8CH_HDR
18. 1080P_3D_2CH_HDR
19. 1080P_3D_6CH_HDR
20. 1080P_3D_8CH_HDR
21. 4K30HZ_3D_2CH_HDR
22. 4K30HZ_3D_6CH_HDR
23. 4K30HZ_3D_8CH_HDR
24. 4K60HzY420_3D_2CH_HDR
25. 4K60HzY420_3D_6CH_HDR
26. 4K60HzY420_3D_8CH_HDR
27. 4K60HZ_3D_2CH_HDR
28. 4K60HZ_3D_6CH_HDR
29. 4K60HZ_3D_8CH_HDR
30. User EDID 1
31. User EDID 2
32. User EDID 3

*You can copy the EDID from any output and apply it to any input. Select "Copy EDID from Output x" (x=1-8). This will copy the EDID from the display and apply it to the selected input. This new EDID will be stored as "USER EDID 1".

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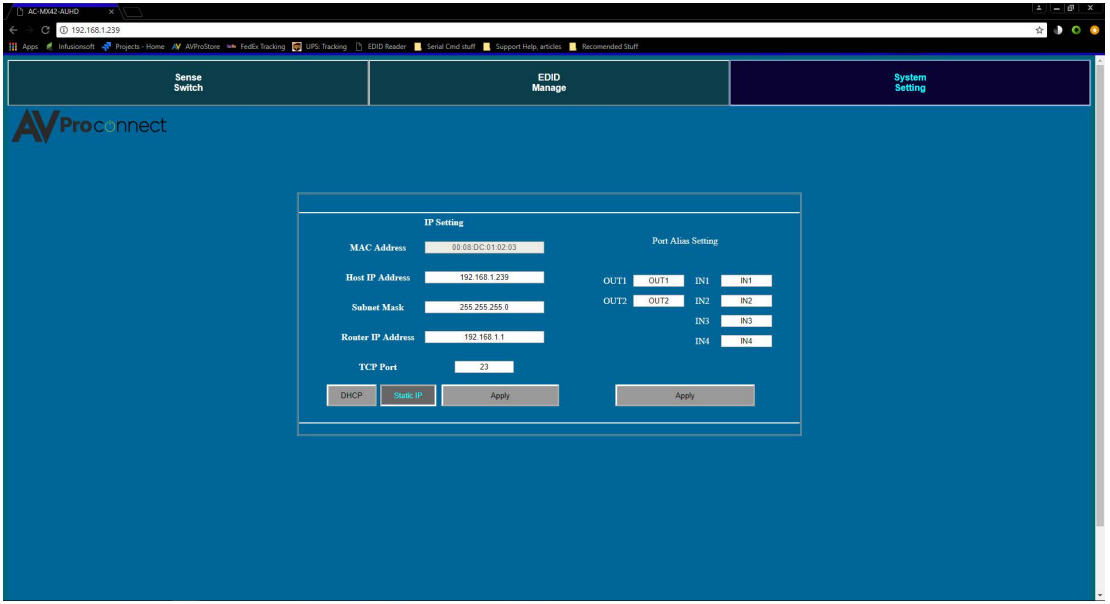
Web Interface: System Settings

Default IP = 192.168.001.239



IP Settings:

Set network settings such as:

- Static IP
- Subnet Mask
- Router IP
- TCP Port
- Enable DHCP

Port Alias Settings:

Rename inputs and outputs for easy management. Each custom name is limited to eight (8) characters.

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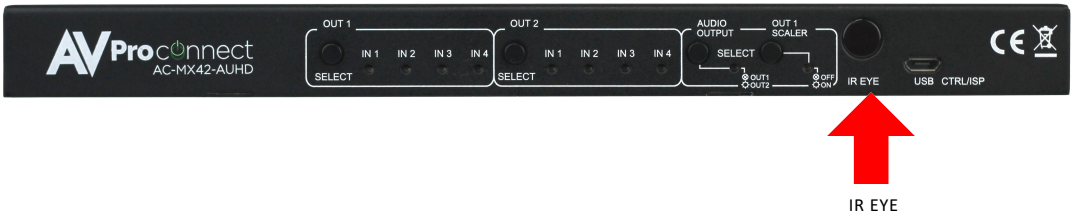
IR Control:

For IR Control there is an IR Window on the front face of the device.



IR EYE

IR Remote Control:

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RS-232 Commands:

The AC-MX42-AUHD can be controlled with RS-232 commands. Some configurations can only be completed by using these commands. We recommend using MyUART software (free of charge) as it is very easy to use in order to send commands to the machine.

The same commands can be sent to the matrix using Ethernet as IP commands (Telnet).

The serial port settings should be set 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. (.txt file available upon request or online)

```
==                                  Systems HELP                                  ==
==                System Address = 00          F/W Version : 1.01                ==
==                                                                                 ==
== Azz : All Commands start by Prefix System Address zz, if [01~99]               ==
==                                                                                 ==
== System Control Setup Commands:                                                  ==
== H                    : Help                                                     ==
== STA                  : Show Global System Status                                ==
== SET RST              : Reset to Factory Defaults                                ==
== SET ADDR xx          : Set System Address to xx {xx=[00~99](00=Single)}         ==
== SET CAS EN/DIS       : Set Cascade Mode Enable/Disable                          ==
== GET ADDR             : Get System Address                                       ==
== GET CAS              : Get Cascade Mode Status                                  ==
== GET STA              : Get System System Status                                 ==
== GET INx SIG STA      : Get Input x Signal Status{x=[0~4](0=ALL)}                ==
==                                                                                 ==
== Output Setup Command : (Note:output number(x)=HDMI(x),x=1~2)                    ==
== SET OUTx VS INy      : Set Output x To Input y {x=[0~2](0=ALL), y=[1~4]}        ==
== SET OUTx VIDEOy      : Set Output VIDEO Mode                                    ==
==                      {x=[1], y=[1~2](1=BYPASS,2=4K->2K)}                        ==
== SET EXA BTV OUTx     : Set Ex-Audio Output bind to Output x{x=[1~2]}            ==
== SET OUTx EXA EN/DIS  : Set Ex-Audio Output Enable/Disable{x=[0](0=ALL)}        ==
== SET OUTx STREAM ON/OFF: Set Output x Stream ON/OFF{x=[0~2](0=ALL)}              ==
== GET OUTx VS          : Get Output x Video Route{x=[0~2](0=ALL)}                 ==
== GET OUTx VIDEO       : Get Output x Video Status{x=[1]                          ==
== GET EXA BTV OUT      : Get Ex-Audio Output bind to Output                       ==
== GET OUTx EXA         : Get Ex-Audio Output Enable/Disable Status{x=[0](0=ALL)}  ==
== GET OUTx EDID DATA   : Get Output x EDID DATA{x=[1~2]}                          ==
== GET OUTx STREAM      : Get Output x Stream ON/OFF Status{x=[0~2](0=ALL)}        ==
==                                                                                 ==
== Input Setup Command: (Note:input number(x)=HDMI(x),x=1~4)                       ==
== SET INx EDID y       : Set Input x EDID{x=[0~4](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_8CH_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 : Copy Output y EDID To Input x(USER1 BUF)                 ==
==                      {x=[0~4](0=ALL), y=[1~2]}                                  ==
== SET INx EDID Uy DATAz: Write EDID To  User y Buffer  of Input x                 ==
==                      {x=[0~4](0=ALL), y=[1~3],z=[EDID Data]                     ==
== GET INx EDID         : Get Input x EDID Index                                   ==
==                      {x=[0~4](0=All)}                                           ==
== GET INx EDID y DATA  : Get Input x EDID y Data                                  ==
==                      {x=[1~4],y=[0~32}                                          ==
==                                                                                 ==
== Auto mode:                                                                      ==
== SET HDx AUTO EN/DIS  :Set HDMI1/HDMI2 Output Enter Auto Mode Control Enable/Disable ==
==                      {x=0(HDMI1&HDMI2 Output),x=1(HDMI1 Output),x=2(HDMI2 Output)} ==
== GET HDx AUTO         : Get HDMI1/HDMI2 Output Auto Mode Control Status          ==
==                                                                                 ==
==                                                                                 ==
== IR  Code Setup:                                                                 ==
== SET IR SYS xx.yy         : Set IR System Code                                   ==
==                          {xx=[00~FFH],yy=[00~FFH]                               ==
== SET IR OUTx INy CODE zz : Set IR Data Code                                      ==
==                          {x=[1~2],y=[1~4],zz=[00~FFH]}                          ==
== GET IR SYS               : Get IR System Code                                   ==
== GET IR OUTx INy CODE     : Get IR Data Code                                     ==
==                          {x=[1~2],y=[1~4]}                                      ==
==                                                                                 ==
== 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                                     ==
```


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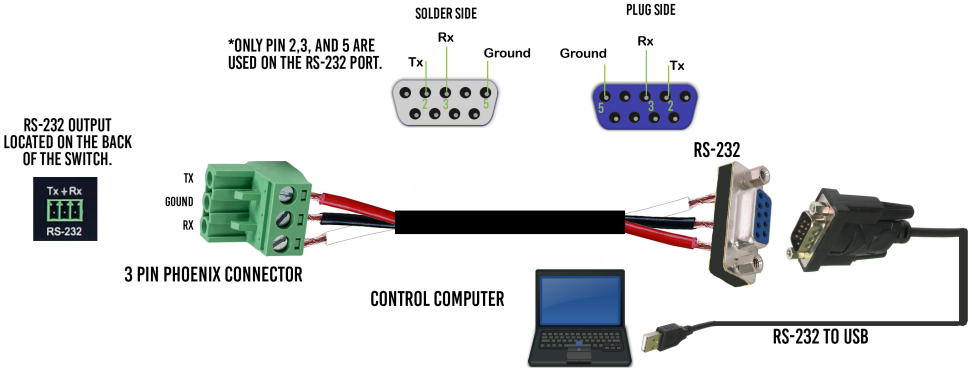
RS-232 Wiring Diagram:

RS-232 CONNECTION

IN ORDER TO CONNECT A COMPUTER TO THE SWITCH VIA RS-232, A CABLE WILL NEED TO BE MADE. ONE END WILL NEED TO HAVE A PHOENIX CONNECTOR AND THE OTHER END WILL NEED TO BE A RS-232 PORT. IF THE COMPUTER DOESN'T HAVE A RS-232 INPUT, A USB CONVERTER MAY BE USED (SHOWN BELOW).



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▪ 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, AVProConnect (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 AVProConnect!

Please contact us with any questions. We are happy to be of service!

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