

# UserManual AC-CX42-AUHD





# **PRELIMINARY**



### Introduction

The ConferX 4x2 Matrix Switcher is the ideal solution for any conference room, classroom or huddle space. This 4K switcher is able to display any of the four sources through both the HDBaseT or HDMI output port. Each of these outputs are completely independent of each other allowing to show two sources at the same time. With additional audio inputs and outputs you will have not problems working with a microphone or intercom system. When you need a stable solution for video distribution, look to the entire line of ConferX products.

With the HDBaseT input this switch allows you to work alongside the ConferX Wallplate Transmitters. So you can have MiniDisplayport, HDMI, USB-C, or VGA inputs located up to 100 meters away from the AC-CX42-AUHD. This way a teacher or presenter can use their lap top directly at the podium or presenters station without having to connect anything to the matrix switcher at all. Giving any end user a simplified experience for sharing their ideas inside a classroom, conference room or huddle space.

Simple, intuitive and automatic control makes this unit the ideal "leave in the room" matrix. The user have an "Auto" option where the unit defaults to the last plugged in device, or simple one button control for each output. Prefer a control system? No problem, with a built in web based GUI, and a full set of control commands you are able to make this switch work for you.

#### **Features:**

- HDMI 2.0(a/b)
- 18Gbps Bandwidth Support (HDMI and HDBaseT output)
  - Note: 18Gbps on HDBaseT requires AC-EX70-444-RNE Receiver with ICT
- 4K60 4:4:4 Support (HDMI and HDBaseT output)
- Full HDR Support (HDR 10 & 12 Bit)
- Dolby Vision, HDR10+ and HLG Support
- HDCP 2.2 (and all earlier versions supported)
- Advanced EDID Management
- Audio input and output
- Web based control GUI
- Works with 3rd party control (Control4, Crestron, Savant, etc)

### Compatible AVProEdge HDBaseT products

**HDBaseT Input/Transmitters** 

- AC-CXWP-HDMO-T
- AC-CXWP-MDP-T
- AC-CXWP-VGA-T
- 1.6.670415 11656
- AC-CXWP-USBC-T
- AC-EX100-UHD-T
- AC-EX100TT-UHD

#### **HDBaseT Output/Receivers**

- AC-EX70-UHD-R
- AC-EX100-UHD-R3
- AC-EX70-444-RNE

### In The Box:

- AC-CX42-AUHD Matrix Switch
- IR Remote Control
- 48V/0.5A Power Supply



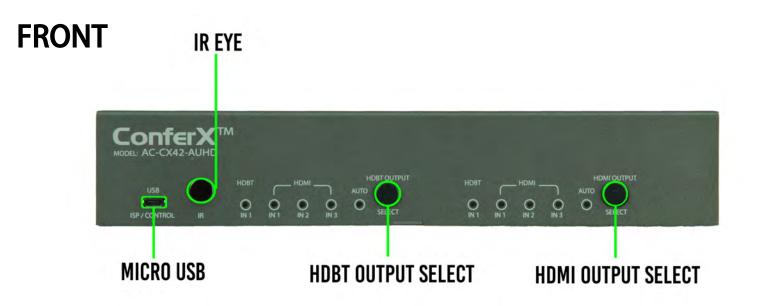
VIDEO:	
VIDEO RESOLUTIONS	UP TO 4K 60H7 4·2·0 & 4K30 4·4·4
VESA RESOLUTIONS	UP TO 2560X2048 (QSXGA)
HDR FORMATS/RESOLUTIONS	4K24 4:2:2 12 BIT, 4K24 4:2:0 10 BIT
·	YUV (COMPONENT), RGB
COLOR SPACE	(CSC: REC. 601, REC. 709, BT2020, DCI, P3 D6500)
CHROMA SUBSAMPELING	4:4:4, 4:2:2, 4:2:0 SUPPORTED
DEEP COLOR	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 2.0 CH, LPCM 6CH,LPCM 7CH, DOLBY DIGTAL, DOLBY DIGITAL PLUS, DTS MASTER AUDIO
AUDIO FORMATS SUPPORTED EXTRACTED (2CH)	PCM 2CH
DISTANCE:	
HDMI LEAD IN/OUT (4K60 4:4:4)	UP TO 50 FEET (USING BULLET TRAIN HDMI)
HDMI LEAD IN/OUT (W/ AOC CABLE) (4K60 4:4:4)	UP TO 2130 FEET (USING BULLET TRAIN AOC)
HDBASET (CAT) DISTANCE 1080P	100M (330 FEET) (WITH CAT 6A/7)
HDBASET (CAT) DISTANCE4K & HDR	70M (230 FEET) (WITH CAT6A/7)
OTHER:	
BANDWIDTH (HDMI)	18 GBPS
BANDWIDTH (HDBT)	10.2 GBPS (18GBPS W/ICT AND AC-EX70-444-RNE)
HDCP	HDCP 2.2 AND EARLIER
PORTS:	
HDMI (INPUT)	TYPE A
HDBASET (INPUT)	RJ45
AUDIO (EXTRACTED DIGITAL)	TOGLINIK
	TOSLINK
AUDIO (EXTRACTED ANALOG)	BALANCED L/R AUDIO (5 PIN TERMINAL BLOCK)
AUDIO (EXTRACTED ANALOG) Ir	BALANCED L/R AUDIO (5 PIN TERMINAL BLOCK) 3.5MM IR IN/OUT AND IR WINDOW ON THE FRONT
AUDIO (EXTRACTED ANALOG) IR RS232	BALANCED L/R AUDIO (5 PIN TERMINAL BLOCK)
AUDIO (EXTRACTED ANALOG) IR RS232 CONTROL:	BALANCED L/R AUDIO (5 PIN TERMINAL BLOCK) 3.5MM IR IN/OUT AND IR WINDOW ON THE FRONT 3 PIN TERMINAL BLOCK
AUDIO (EXTRACTED ANALOG) IR RS232 CONTROL: PORTS	BALANCED L/R AUDIO (5 PIN TERMINAL BLOCK) 3.5MM IR IN/OUT AND IR WINDOW ON THE FRONT 3 PIN TERMINAL BLOCK LAN, RS232, IR WINDOW
AUDIO (EXTRACTED ANALOG) IR RS232 CONTROL: PORTS LAN WEBOS	BALANCED L/R AUDIO (5 PIN TERMINAL BLOCK) 3.5MM IR IN/OUT AND IR WINDOW ON THE FRONT 3 PIN TERMINAL BLOCK
AUDIO (EXTRACTED ANALOG) IR RS232 CONTROL: PORTS LAN WEBOS ENVIRONMENTAL:	BALANCED L/R AUDIO (5 PIN TERMINAL BLOCK) 3.5MM IR IN/OUT AND IR WINDOW ON THE FRONT 3 PIN TERMINAL BLOCK LAN, RS232, IR WINDOW YES
AUDIO (EXTRACTED ANALOG) IR RS232 CONTROL: PORTS LAN WEBOS ENVIRONMENTAL: OPERATING TEMPRATURE	BALANCED L/R AUDIO (5 PIN TERMINAL BLOCK)  3.5MM IR IN/OUT AND IR WINDOW ON THE FRONT  3 PIN TERMINAL BLOCK  LAN, RS232, IR WINDOW  YES  23 TO 125°F (-5 TO 51°C)
AUDIO (EXTRACTED ANALOG) IR RS232 CONTROL: PORTS LAN WEBOS ENVIRONMENTAL: OPERATING TEMPRATURE STORAGE TEMPERATURE	BALANCED L/R AUDIO (5 PIN TERMINAL BLOCK)  3.5MM IR IN/OUT AND IR WINDOW ON THE FRONT  3 PIN TERMINAL BLOCK  LAN, RS232, IR WINDOW  YES  23 TO 125°F (-5 TO 51°C)  -4 TO 140°F (-20 TO 60°C)
AUDIO (EXTRACTED ANALOG) IR RS232 CONTROL: PORTS LAN WEBOS ENVIRONMENTAL: OPERATING TEMPRATURE STORAGE TEMPERATURE HUMIDITY RANGE	BALANCED L/R AUDIO (5 PIN TERMINAL BLOCK) 3.5MM IR IN/OUT AND IR WINDOW ON THE FRONT 3 PIN TERMINAL BLOCK  LAN, RS232, IR WINDOW YES  23 TO 125°F (-5 TO 51°C)
AUDIO (EXTRACTED ANALOG) IR RS232 CONTROL: PORTS LAN WEBOS ENVIRONMENTAL: OPERATING TEMPRATURE STORAGE TEMPERATURE HUMIDITY RANGE POWER:	BALANCED L/R AUDIO (5 PIN TERMINAL BLOCK)  3.5MM IR IN/OUT AND IR WINDOW ON THE FRONT  3 PIN TERMINAL BLOCK  LAN, RS232, IR WINDOW  YES  23 TO 125°F (-5 TO 51°C)  -4 TO 140°F (-20 TO 60°C)  5-90% RH (NO CONDENSATION)
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AUDIO (EXTRACTED ANALOG) IR RS232 CONTROL: PORTS LAN WEBOS ENVIRONMENTAL: OPERATING TEMPRATURE STORAGE TEMPERATURE HUMIDITY RANGE POWER: POWER CONSUMPTION (TOTAL)	BALANCED L/R AUDIO (5 PIN TERMINAL BLOCK)  3.5MM IR IN/OUT AND IR WINDOW ON THE FRONT  3 PIN TERMINAL BLOCK  LAN, RS232, IR WINDOW  YES  23 TO 125°F (-5 TO 51°C)  -4 TO 140°F (-20 TO 60°C)  5-90% RH (NO CONDENSATION)
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AUDIO (EXTRACTED ANALOG) IR RS232 CONTROL: PORTS LAN WEBOS ENVIRONMENTAL: OPERATING TEMPRATURE STORAGE TEMPERATURE HUMIDITY RANGE POWER: POWER CONSUMPTION (TOTAL)  POWER SUPPLY  DIMENSIONS:  DIMENSIONS (UNIT ONLY LENGTH/DEPTH/HEIGHT)	BALANCED L/R AUDIO (5 PIN TERMINAL BLOCK)  3.5MM IR IN/OUT AND IR WINDOW ON THE FRONT  3 PIN TERMINAL BLOCK  LAN, RS232, IR WINDOW  YES  23 TO 125°F (-5 TO 51°C)  -4 TO 140°F (-20 TO 60°C)  5-90% RH (NO CONDENSATION)  12 WATTS MAX  INPUT: AC 100-240V ~ 50/60HZ  OUTPUT: DC 48V 0.5A  MM: 220.7 X 158.8 X 41.4  INCH: 8.69 X 6.25 X 1.63
AUDIO (EXTRACTED ANALOG) IR RS232 CONTROL: PORTS LAN WEBOS ENVIRONMENTAL: OPERATING TEMPRATURE STORAGE TEMPERATURE HUMIDITY RANGE POWER: POWER CONSUMPTION (TOTAL) POWER SUPPLY DIMENSIONS: DIMENSIONS	BALANCED L/R AUDIO (5 PIN TERMINAL BLOCK)  3.5MM IR IN/OUT AND IR WINDOW ON THE FRONT  3 PIN TERMINAL BLOCK  LAN, RS232, IR WINDOW  YES  23 TO 125°F (-5 TO 51°C)  -4 TO 140°F (-20 TO 60°C)  5-90% RH (NO CONDENSATION)  12 WATTS MAX  INPUT: AC 100-240V ~ 50/60HZ  OUTPUT: DC 48V 0.5A  MM: 220.7 X 158.8 X 41.4  INCH: 8.69 X 6.25 X 1.63  MM: 397 X 222 X 95.3
AUDIO (EXTRACTED ANALOG) IR RS232 CONTROL: PORTS LAN WEBOS ENVIRONMENTAL: OPERATING TEMPRATURE STORAGE TEMPERATURE HUMIDITY RANGE POWER: POWER CONSUMPTION (TOTAL)  POWER SUPPLY  DIMENSIONS:  DIMENSIONS (UNIT ONLY LENGTH/DEPTH/HEIGHT)	BALANCED L/R AUDIO (5 PIN TERMINAL BLOCK)  3.5MM IR IN/OUT AND IR WINDOW ON THE FRONT  3 PIN TERMINAL BLOCK  LAN, RS232, IR WINDOW  YES  23 TO 125°F (-5 TO 51°C)  -4 TO 140°F (-20 TO 60°C)  5-90% RH (NO CONDENSATION)  12 WATTS MAX  INPUT: AC 100-240V ~ 50/60HZ  OUTPUT: DC 48V 0.5A  MM: 220.7 X 158.8 X 41.4  INCH: 8.69 X 6.25 X 1.63

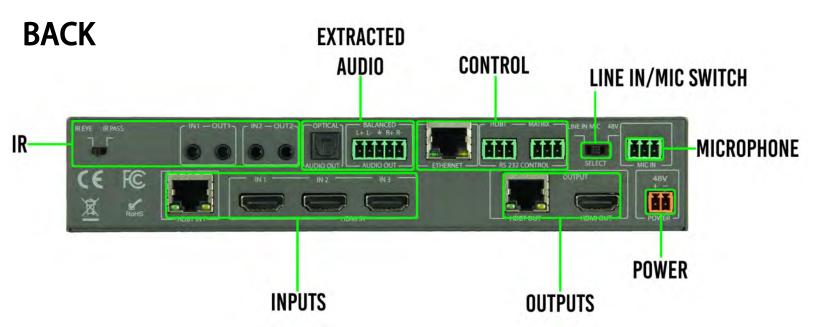


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# **Device Overview**







#### **Basic Installation:**

The unit has an Auto-Config on boot up and reception of new sources and displays to maximize plug and play installation:

- 1. Plug in the display(s) or sink devices
- 2. Plug in the sources
- 3. Plug in the power supply to the AC-CX42-AUHD
- 4. Power on the Sources and Display(s)

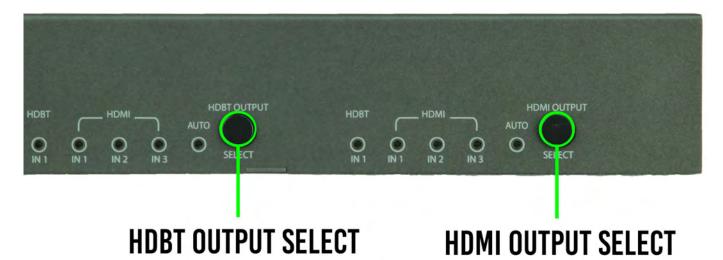
This will ensure proper EDID application across the device.

### **Basic Control Using Front Panel:**

### **Switching:**

The AC-CX42-AUHD can be switched from the front panel by pressing the corresponding OUTPUT SELECT button:

- 1. Press the HDBT OUTPUT SELECT button to cycle through the four Inputs
- 2. Press the HDMI OUTPUT SELECT button to cycle through the four Inputs
- 3. Press and hold the desired OUTPUT SELECT button (HDBT or HDMI) for 3 seconds to Enable/Disable AUTO SWITCH MODE (all INPUT LEDs will flash)
  - a. AUTO SWITCH Enabled AUTO LED ON
  - b. AUTO SWITCH Disabled AUTO LED OFF



### **Auto-Switching Logic**

When the AC-CX42-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 the HDMI, HDBaseT, or both be set to "Auto" mode.



### **RS-232 Configuration**

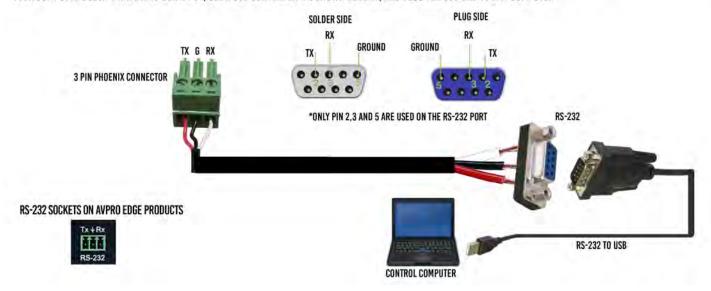
The AC-CX42-AUHD Has two distinct RS232 Ports:

- 1. **HDBT-**This is for transmitting RS232 signals from the matrix to the remote HDBaseT Receiver.
- 2. **MATRIX** This is for send signals to the AC-CX42-AUHD for controlling the device. See Page 8 for the complete command list.



# 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





=	11	. 11-1-		-=
=	H	: Help		
=	STA	: Show Global System Status		=
=	SET RBT	: Reboot Device		=
=	SET RST	: Reset to Factory Defaults		=
=	SET ADDR xx	: Set System Address to xx {xx=[00-99](00=	Single)}	=
=	GET ADDR	: Get System Address		=
=	GET STA	: Get System System Status		=
=	GET INX SIG STA	: Get Input x Signal Status{x=[0~16](0=ALL)	)}	=
=	Output Cotus Commands			-=
=	Output Setup Commands:	. Cat Outant Ta Innut (c. 10, 21/0, ALL)	. [4 43]	=
=	SET OUTx VS INy	: Set Output x To Input $y\{x=[0\sim2](0=ALL), y$		=
=	SET OUT1 VIDEOy	: Set Output1 VIDEO Mode {y=[2,5](2=4K->		=
=	SET EXA BTV OUTX	: Set Ex-Audio Output bind to Outputx{x=[1^		=
=	SET SWITCH MODEX	: Set Switch Mode To Single Switch or Double		=
=	SET OUTx EXA EN/DIS	: Set Ex-Audio Output Enable/Disable{x=[0](	0=ALL)}	=
=	SET OUT1 EXA MIC EN/DIS	: Set EX-Audio Route to Microphone Input En	able/Disable	=
=	SET OUTx STREAM ON/OFF	: Set Output x Stream ON/OFF $\{x=[0\sim2](0=A)$	LL)}	=
l=	SET OUT1 TP POE y	: Set Output1 POE Mode{y=[0~1](0=Auto,1=		=
=	SET OUTX HA MUTE ON/OFF	: Set HDMI Output x Audio Mute ON/OFF{x=		=
	SET OUT1 TP SGM EN/DIS	: Set HDBT Output Signal Generator Enable/E		-
-		: Set HDMI Output Signal Generator Enable/E		
=	SET OUT2 HP SGM EN/DIS			=
=	GET OUTX VS	: Get Output x Video Route{x=[0~2](0=ALL)	}	=
=	GET OUT1 VIDEO	: Get Output1 Video Mode		=
=	GET EXA BTV OUT	: Get Ex-Audio Output bind to Which Output		=
=	GET SWITCH MODE	: Get Switch Mode		=
=	GET OUTx EXA	: Get Ex-Audio Output Enable/Disable Status	x=[0](0=ALL)}	=
=	GET OUT1 EXA MIC	: Get EX-Audio Route to Microphone Input Er		=
1_	GET OUTX EDID DATA	: Get Output x EDID DATA{x=[1~2]}		
=	GET OUTX EDID DATA	: Get Output x Stream ON/OFF Status{x=[0~	27/0-411/3	
			2J(U-MLL)}	=
=	GET OUT1 TP POE	: Get Output1 POE Mode	27/0 4112	=
=	GET OUTX HA MUTE	: Get HDMI Output x Audio Mute Status{x=[0		=
=	GET OUT1 TP SGM	: Get HDBT Output Signal Generator Enable/I		=
=	GET OUT2 HP SGM	: Get HDMI Output Signal Generator Enable/I	Disable Status	=
1=	Input Cotup Commando			-=
=	Input Setup Commands:	. Cat Industry EDID (c. 10, 43/0, 411) 10, 3	221	-
=	SET INX EDID y	: Set Input x EDID $\{x=[0\sim4](0=ALL), y=[0\sim3]\}$		=
=	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	=
-				
1=	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		=
=	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]	=
=	SET IN1 TP POE y	: Set IN1 POE Mode{y=[0~1](0=Auto,1=For	ce)}	=
=	GET INx EDID	: Get Input x EDID Index $\{x=[0\sim4](0=ALL)\}$		=
=	GET INx EDID y DATA	: Get Input x EDID y Data $\{x=[1\sim4],y=[0\sim32]$	13.	=
1_	GET IN1 TP POE	: Get IN1 POE Mode	The state of the s	_
	GET INT IF FOE	. Get INT FOL Plode		- =
=	Auto mode:			=
		: Set HDMI1/HDMI2 Output Enter Auto Mode	Control Enable/Disable	
=	SET HDx AUTO EN/DIS	{x=0(HDMI1&HDMI2 Output),x=1(HDMI1 (		=
1	CET LID. ALITO			+
=	GET HDx AUTO	: Get HDMI1/HDMI2 Output Auto Mode Cont	oi Status	=
1-	Network Setup Command:	: ( xxx=[000-255], zzzz=[0001~9999]		-
1=	SET RIP xxx.xxx.xxx	: Set Route IP Address to xxx.xxx.xxx		=
1	SET HIP xxx.xxx.xxx	: Set Host IP Address to xxx.xxx.xxx.xxx		
1=				-
=	SET NMK xxx.xxx.xxx	: Set Net Mask to xxx.xxx.xxx		-
=	SET TIP zzzz	: Set TCP/IP Port to zzzz		=
=	SET DHCP y	: Set DHCP $\{y=[0\sim1](0=Dis,1=Enable)\}$		=
=	GET RIP	: Get Route IP Address		=
=	GET HIP	: Get Host IP Address		=
1_	GET NMK	: Get Net Mask		
1				
=	GET TIP	: Get TCP/IP Port		=
=	GET DHCP	: Get DHCP Status		=
=	GET MAC	: Get MAC Address		=
=	PS232 Poute Setup Commands			=
=	RS232 Route Setup Command:	· Cot LIDRE DC222 By E T	Doublefor Editor Transit O. Out. 122	=
=	SET RS HRF Ix/Ox	: Set HDBT RS232 RX From Input or Output	ort x{x=[1](1=1nput,O=Output)}	=
I_	CET DC DTH OUTS LENS DD-	: Set RS232 Pass Through to Ouput x		
1=	SET RS PTH OUTx LENy BRz	$\{x=[1], y=[1\sim100], z=[0\sim5](0=9600, 1=1440)$	0,2=19200,3=38400,4=57600,5=115200)}	=
			, , , , , ,	
l=	SET RS PTH INx LENy BRz	: Set RS232 Pass Through to Input x		=
1	, <del>-</del>	$\{x=[1], y=[1\sim100], z=[0\sim5](0=9600, 1=1440)$	0,2=19200,3=38400,4=57600,5=115200)}	
1	GET RS HRF	: Get HDBT RS232 RX From Port State		=
=				-=
=				=
  -  -	IR Code Setup Command:			
= = =		: Set IR Custom Code{xx=[00-FFH],yy=[00-FFH]	FH]}	=
= = =	IR Code Setup Command:	: Set IR Custom Code{xx=[00-FFH],yy=[00-FFH]; : Set IR Data Code{x=[1~2],y=[1~4],zz=[00-FFH];		_
= = = =	IR Code Setup Command: SET IR SYS xx.yy SET IR OUTx INy CODE zz	: Set IR Data Code $\{x=[1\sim2],y=[1\sim4],zz=[00]$		=
=	IR Code Setup Command: SET IR SYS xx.yy			=



# **IR Configuration**

IR Mode Slide Switch: (On Back) This is used to select a preferred IR Mode - There are two modes:

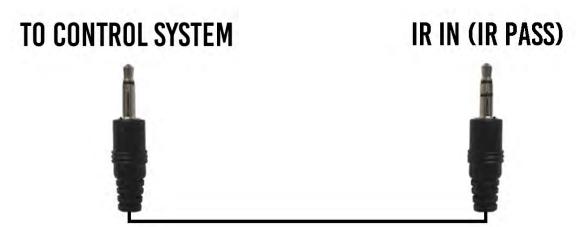
- IR-EYE The IR Input will be configured to operate with an IR Receiver Eye.
- IR PASS The IR Input will be configured to safely operate with a direct connection from a control system using a mono or stereo 3.5mm cable. It's protected @ 3v-20v. Default mode is IR-EYE.



**IR Sensor:** 



### **IR Connect to Control System:**

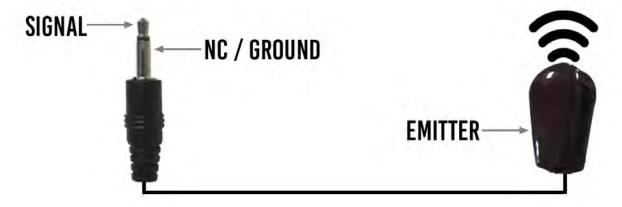




# IR Configuration Cont.

IR OUT - The IR OUT port is send IR signals out of an IR Emitter (Pictured below) that originate at the HDBaseT Receiver OR HDBaseT Transmitter

### **IR Emitter:**





### **Audio Output Logic and Cable Prep:**

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.

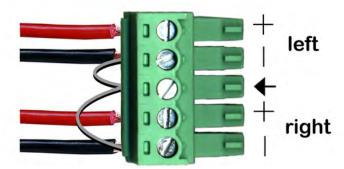
2CH Balanced Audio Port - Supports 2CH PCM audio only, which is ideal for 2 Channel systems and zoned audio systems.

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.

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

You can use balanced analog outputs in a balanced system, but you can also prep a cable as shown below to convert to a traditional 2CH unbalanced (L/R) system.

You can also purchase pre-made cables (AC-CABLE-5PIN-2CH)



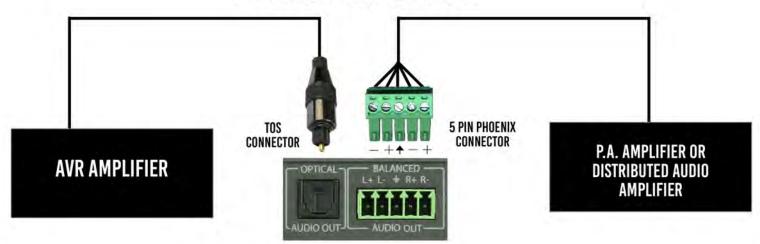
\*NOTE: Make sure ground is always connected



AC-CABLE-5PIN-2CH

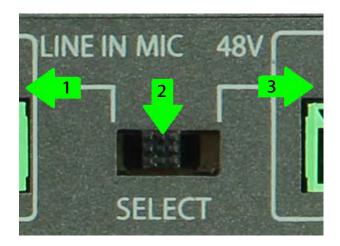
### **Audio Wiring Diagram:**

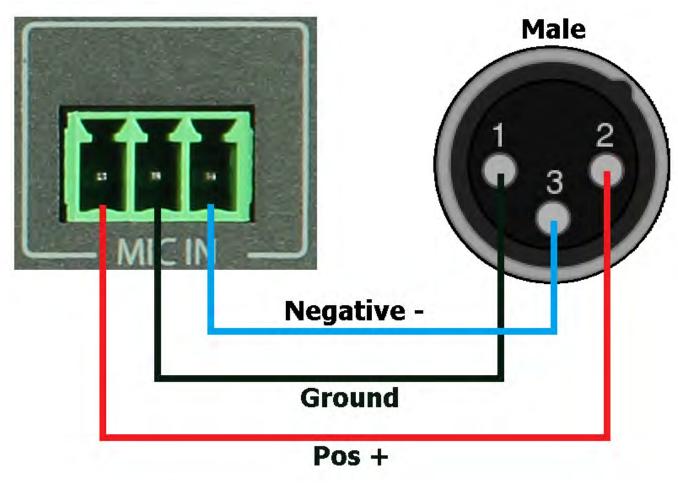
# **AUDIO DIAGRAM**





- 1. LINE IN Select this if input will be standard L/R audio.
- 2. MIC Select this for non-powered or Dynamic microphones.
- 3. 48V This if for Microphones that require Phantom Power.

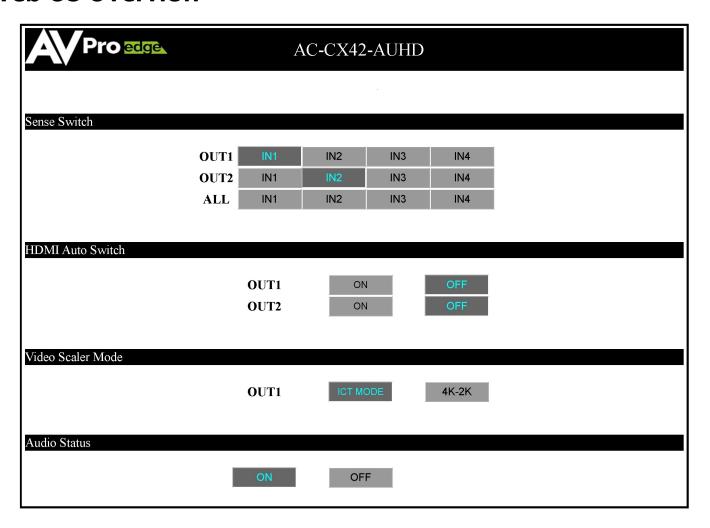




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## **Web OS Overview**



### **Sense Switch**

Use this to switch between inputs and outputs from the web interface.

### **HDMI Auto Switch**

Use this to turn HDMI Auto Sense Switching ON/OFF per output.

### **Video Scaler Mode**

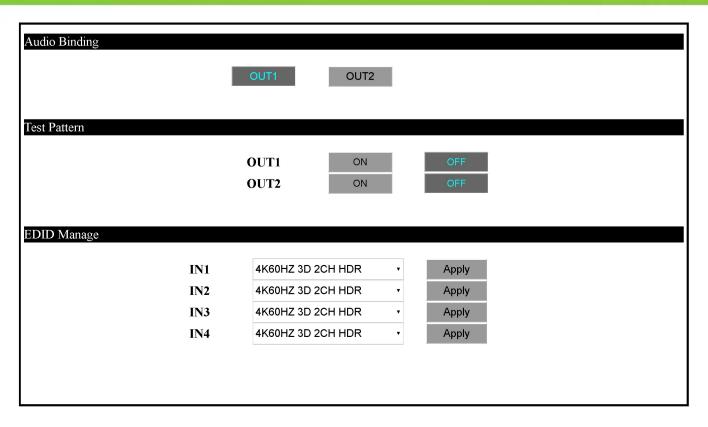
With the video scaler mode, you can scale the HDBaseT output (OUT1)

- o **4K-2K** If incoming signal is 4K, it will be downscaled to 1080P or 1900x1200 depending on the input format.
- o ICT MODE = ICT Mode (Enables ICT (18G) Compression mode on HDBT Port) DEFAULT.

### **Audio Status**

Use this to turn the extracted audio ports ON/OFF.





## **Audio Binding**

Use this to select what Output the Audio Follows.

### **Test Pattern**

Use this to turn the built in Test Pattern Generator ON/OFF for each output.

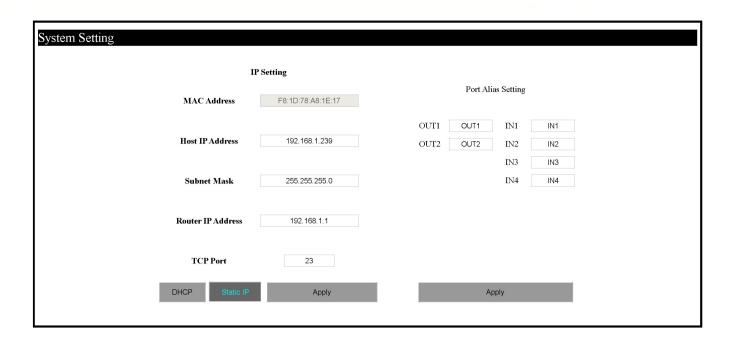
# **EDID Manage**

Use this to select the EDID for each INPUT (default is 1080p 2ch)

o Select from the Drop-down list, then click "Apply".

1080P_2CH(PCM)	4K60HZ_3D_2CH	4K60Hz(Y420)_3D_2CH(PCM)_HDR
1080P_6CH	4K60HZ_3D_6CH	4K60Hz(Y420)_3D_6CH_HDR
1080P_8CH	4K60HZ_3D_8CH	4K60Hz(Y420)_3D_8CH_HDR
1080P_3D_2CH(PCM)	1080P_2CH(PCM)_HDR	4K60Hz_3D_2CH(PCM)_HDR
1080P_3D_6CH	1080P_6CH_HDR	4K60Hz_3D_6CH_HDR
1080P_3D_8CH	1080P_8CH_HDR	4K60Hz_3D_8CH_HDR
4k30Hz_3D_2CH(PCM)	1080P_3D_2CH(PCM)_HDR	USER1_EDID
4k30Hz_3D_6CH	1080P_3D_6CH_HDR	USER2_EDID
4k30Hz_3D_8CH	1080P_3D_8CH_HDR	USER3_EDID
4K60Hz(Y420)_3D_2CH(PCM)	4K30Hz_3D_2CH(PCM)_HDR	Copy From OUT1
4K60Hz(Y420)_3D_6CH	4K30Hz_3D_6CH_HDR	Copy From OUT2
4K60Hz(Y420)_3D_8CH	4K30Hz_3D_6CH_HDR	





## **System Setting**

IP Settings - Default is "Static IP" with the following

Host IP Address 192.168.1.239
 Subnet Mask 255.255.255.0

• Router IP Address 192.168.1.1

• **TCP Port** 23

# **Port Alias Setting**

Here you can re-label the individual Input/Outputs

\*\*Note - There is a 7 Character limit\*\*

Re-label, then click "Apply"



### 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 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.



### Troubleshooting

- Verify Power The HDBT and HDMI INPUT Select blue LEDs on the front will always be on when powered.
- Verify Connections Check that all cables are properly connected
- Issues with one INPUT/OUTPUT Swap ports/cables/etc to help narrow down if the issue stays with the input/output/etc
  - O Follows the device, then it may be an EDID issue. Default out of the box is a 1080p 2ch. Try another canned EDID or use the COPY FROM OUTx command to copy the connected displays EDID Pg.8 and 14
- Issues with 4k but 1080p or less is working
  - Verify all connected devices are capable of the signal you are sending

TYPE	RESOLUTION	FRAME RATE (FPS)	COLOUR COMPRESSION	DEEP COLOUR BIT DEPTH	HDR	WIDE COLOR Gamut (BT2020)	HDMI Version	DATA RATE	AUHO SERJES	444 Series	UHO SERIES
HD	1920x1080	24	4:2:2	8 BIT	NO	NO	1.4	0.75 GBPS	YES	YES	YES
HD	1920×1080	60	4:2:2	8 BIT	NO	NO	1.4	4.45 GBPS	YES	YES	YES
HD	1920x1080	60	4:4:4	16 BIT	NO	NO	1.4	5.91 GBPS	YES	YES	YES
UHD	3840x2160	24	4:2:0	8 BIT	NO	NO	1.4	8.91 GBPS	YES	YES	YES
UHD	3840x2160	24	4:4:4	8 BIT	NO	NO	1.4	8.91 GBPS	YES	YES	YES
4K	4096x2160	24	4:4:4	8 BIT	NO	NO	1.4	8.91 Gaps	YES	YES	YES
UHD OR 4K	3840x2160	60	4:2:0	8 BIT	NO	NO	1.4/2.0	8.91 GBPS	YES	YES	YES
				LINE O	F INNO	VATION					
UHD OR 4K	3840x2160	24	4:2:0	10 BIT	YES	YES	2.0(A/B)	8.91 GBPS	YES	YES	YES
UHD OR 4K	3840x2160	24	4:2:2	12 BIT	YES	YES	2.0(A/B)	11.14 GBPS	YES	YES	NO
UHD OR 4K	3840x2160	24	4:4:4	10 BIT	YES	YES	2.0(A/B)	11.14 GBPS	YES	YES	NO
UHD OR 4K	3840x2160	24	4:4:4	12 BIT	YES	YES	2.0(A/B)	13.37 GBPS	YES	YES	NO
UHD OR 4K	3840x2160	60	4:2:0	10 BIT	YES	YES	2.0(A/B)	11.14 GBPS	YES	YES	NO
UHD OR 4K	3840x2160	60	4:2:0	12 BIT	YES	YES	2.0(A/B)	13.37 GBPS	YES	YES	NO
UHD OR 4K	3840x2160	60	4:2:2	12 BIT	YES	YES	2.0(A/B)	17.82 GBPS	YES	YES	NO
UHD OR 4K	3840x2160	60	4:4:4	8 BIT	YES	YES	2.0(A/B)	17.82 GBPS	YES	YES	NO



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# Thank you for choosing AVProEdge!

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











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