AV Pro edge audio

AC-AVDM-X

48 Gbps (8K60 4:4:4 & HDR) Audio Down-mixer with Video Downscaling

User Manual

Dolby Atmos

dts X

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

Contents

Contents 2
Important Safety Instructions 3
Safety Classifications in this Document 3
Electrical Shock Prevention 3
Weight Injury Prevention 3
Introduction 4
Key Benefits 4
Features 5
Product Overview 5
Box Contents 5
Technical Specifications 6
Front and Rear Panels 7
Installation 8
Connecting Devices 8
Front Panel 9
Serial Communication 10
Serial Commands 11
Troubleshooting 12
Maintenance 12
Damage Requiring Service 12
Support 12
Warranty 13
The Basics 13
Coverage Details 13
Red Tape 13
Obtaining an RMA 14
Shipping 14
Limitation on Liability 14
Exclusive Remedy 14
Trademark Acknowledgements and License Notices 14

Important Safety Instructions

Before installing, configuring, and operating this device and other vendor equipment, AVPro Edge strongly recommends that each dealer, integrator, installer, and all other necessary personnel access and read all the required technical documentation, which can be located by visiting AVProEdge.com.

Read and understand all safety instructions, cautions, and warnings in this document and the labels on the equipment.

Safety Classifications in this Document

Note:	Provides special information to correctly install, configure, and operate the devices or associated equipment.
Tip:	Provides suggestions and considerations to correctly install, configure, and operate the devices or associated equipment.
Important:	Provides special information that is critical to correctly install, configure, and operate the devices or associated equipment.
Caution:	Provides special information to avoid situations that may cause damage to the devices or associated equipment.
Warning:	Provides special information to avoid situations that may cause physical danger to installers or end-users.

Electrical Shock Prevention

Electric Shock:	Provides special information that is critical to correctly install, configure, and operate the devices or associated equipment.
Electrical Disconnect:	Provides special information to avoid situations that may cause damage to the devices or associated equipment.

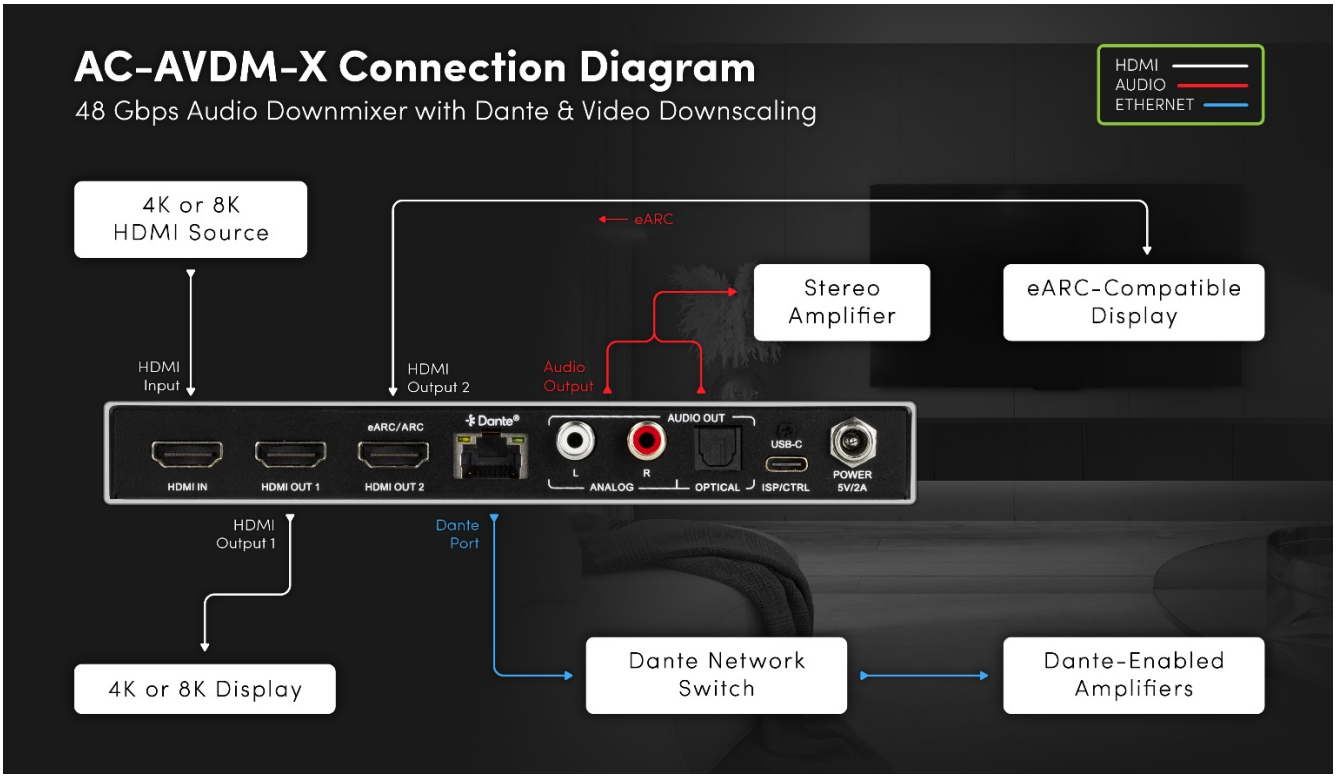
Weight Injury Prevention

Weight Injury:	Installing some devices or associated equipment requires two installers to ensure safe handling during installation. Failure to use two installers may result in injury.

Introduction

The AVPro Edge AC-AVDM-X is a 48Gbps HDMI 2.1 audio down-mixer and video downscaler built for professional AV integration. It accepts multichannel audio bitstreams — including Dolby Atmos® and DTS:X® — embedded in HDMI 2.1 sources up to 8K/60Hz, then decodes and downmixes them to two-channel audio delivered simultaneously over analog L/R (RCA), S/PDIF optical (TOSLINK), and Dante®/AES67 IP audio via a 100/1000Mbps RJ45 port with PoE/PoE+ support.

The AC-AVDM-X is the direct evolution of the AC-AVDM-V3, replacing the coaxial S/PDIF output with a Dante network audio port and increasing HDMI bandwidth from 18Gbps to 48Gbps. A front-panel display with four navigation buttons (Up, Down, Select, Back) takes the place of the V3's rear-panel dip switches, giving installers on-unit control of EDID management, audio routing, downmix modes, and video scaling without a laptop or external control system. A USB Type-C port provides firmware updates and Telnet/SSH API control. The AC-AVDM-X is well suited to secondary-zone audio in home theaters, commercial distributed audio systems, and any application requiring high-quality stereo extraction from immersive audio sources.



Key Benefits

- **Downscaling & Dual Output:** The AC-AVDM-X built-in scaler can input 8K signals including HDR, then downscale the output into 4K or 1080p, enabling retained use of legacy HDMI AVRs incapable of supporting higher bandwidth video while passing the full video signal to the display from the HDMI 2 output.
- **Dante / AES67 Network Audio Output:** Audio is distributed over standard Ethernet with no dedicated audio cable runs, and any Dante device on the network receives the downmix instantly.
- **Audio Downmixing:** The AC-AVDM-X is perfect for downmixing/extracting audio from formats such as LPCM 7.1CH, DTS®, DTS® ES, DTS:X®, AC3, Dolby Digital™, Dolby Digital Plus™, Dolby® TrueHD, and Dolby Atmos®.
- **EDID Management:** Use the on-board 8K EDID or use EDID READ to copy a downstream EDID.
- **eARC/ARC Management:** With eARC/ARC (Audio Return Channel) management, audio returning on the ARC Channel may be downmixed for use by a legacy AVR, a 2-channel system, or for distribution.
- **Detection Indicators:** Front panel LEDs illuminate to indicate signal type.

Features

- 48 Gbps 8K HDMI 2.1 support with HDR technology
- Variable Refresh Rate (VRR) and High Frame Rate (HFR) support is compatible with next-gen game consoles and gaming PCs
- Dolby Vision™ Support
- Downscale 8K sources to 4K & 1080p legacy displays
- Supports PCM 2-Channel, LPCM 5.1 & 7.1, AC3, Dolby Digital™, Dolby Digital Plus™, Dolby® TrueHD, Dolby Atmos®, DTS®, DTS-ES®, DTS:X®
- Downmix available from analog RCA outputs, S/PDIF (coaxial and TOSLINK), Dante, or HDMI.
- EDID Management and EDID Copy
- CEC, eARC/ARC Support
- HDCP 2.2 (all earlier versions supported)
- Front panel buttons for simple EDID Management, Downmixing, and Scaling.
- USB Type-C ISP for field firmware updates

Product Overview

Box Contents

(1x) AC-AVDM-X (Unit)
(1x) 5V/2A Locking Barrel Power Supply
(1x) Type A Plug-in Outlet Attachment
(2x) Mounting Brackets
(4x) Mounting Screws
(4x) Rubber Feet



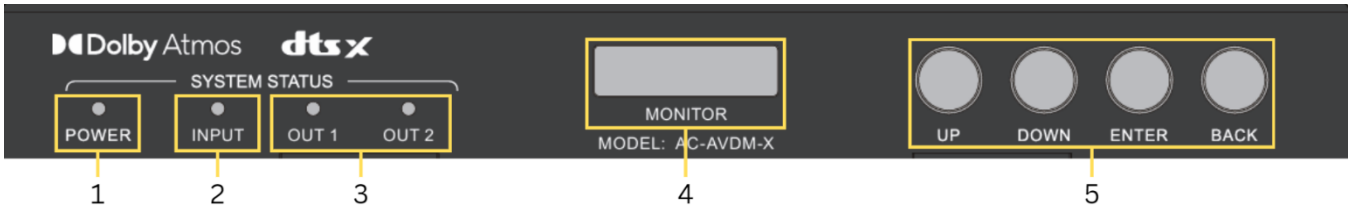


Technical Specifications

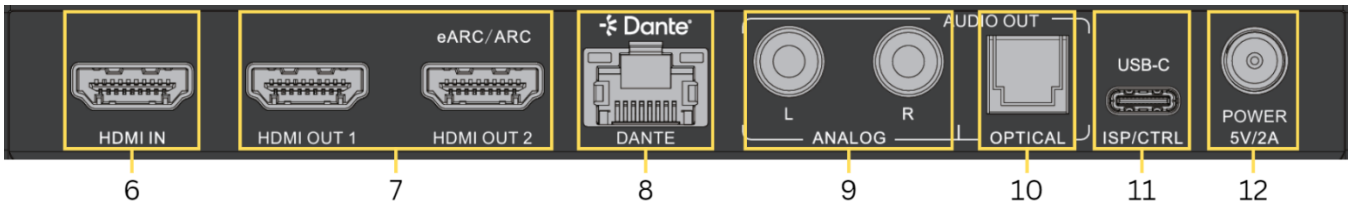
Video	
Video Resolutions	Up to 8K 60Hz 4:4:4/8K 30Hz 4:4:4/4K 120Hz
HDR Formats/Resolutions	HDR10, HDR10+, HLG, Dolby Vision™
Color Space	YUV (Component), RGB (CSC: Rec. 601, Rec. 709, BT2020, DCI, P3 D6500)
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0 Supported
Deep Color	Up to 16 bit
Down Scaling (Output 1 Only)	4K to 1080p
Bandwidth	48 Gbps (FRL 6)
HDCP	HDCP 2.3 and earlier
Audio	
Supported Audio Formats (HDMI Pass-through)	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®
Supported Downmixed Audio Formats (2-Ch, TOSLINK, S/PDIF, HDMI)	LPCM up to 2.0, 96 kHz 24-bit, Dolby Digital 5.1, Dolby Digital Plus, DTS-HD High Resolution Audio, DTS-Digital Surround, DTS-ES Discrete
Audio Formats Supported Extracted (Dante)	PCM 2 CH
Distance	
HDMI In/Out (4K60 4:4:4)	UP TO 50 FEET (USING BULLET TRAIN HDMI)
HDMI In/Out (W/ AOC Cable) (4k60 Hz 4:4:4)	UP TO 130 FEET (USING BULLET TRAIN AOC)
Ports	
HDMI (Tx & Rx)	Type A (1 input and 2 outputs)
Audio (Extracted Analog)	L/R Stereo Phono (single-ended)
Audio (Extracted TOSLINK)	Optical TOSLINK
Dante	Dante Network Ethernet
ISP/CTL	USB Type-C
Power	Locking Barrel Type Connector
Environmental	
Operating Temperature	23°F (-5°C) to 125°F (51°C)
Storage Temperature	-4°F (-20°C) to 140°F (60°C)
Humidity Range	5% to 90% RH (no condensation)
Power	
Power Consumption (Total)	6 W Maximum
Power Supply	Input: AC 100-240V ~ 50/60Hz Output: DC 5V/2A
Dimensions	
Length x Width x Height (Single Unit)	mm: 150.88 X 75.44 X 20.6375 in. 5.94 X 3.375 X .81
Length x Width x Height (Packaged Unit)	mm: 203 x 165 x 91 in. 8 x 6.5 x 3.6
Weight (Single Unit)	0.68 lb. (0.31 Kg)
Weight (Packaged Unit)	1.01 lb. (0.46 kg)
Regulatory	CE/FCC
Product Warranty	10 Years
*Specifications are subject to change without notice. Mass and dimensions are approximate.	

Front and Rear Panels

Front Panel



Rear Panel



1	Power Light	• Blue LED status indicator light
2	HDMI Input Light	• Blue LED status indicator light • Solid blue indicates an active signal is present on the HDMI In port
3	HDMI Output Light	• Blue LED status indicator lights • Solid blue indicates an active signal is present on the HDMI In port
4	Front Panel Display	• Front panel display for settings and status
5	4-Button Control	• Up, Down, Menu, and Back buttons for navigation • IP settings and EDID can be changed from the front panel
6	HDMI Input	• (1x) 19-pin HDMI Type A female connector port • Source device input for HDMI connection
7	HDMI Outputs	• (2X) 19-pin HDMI Type A female connector ports • Output device ports for HDMI connections: HDMI 1: Selectable downscaling from 4K to 1080p output (no ARC) HDMI 2: Selectable audio extraction via ARC (no downscaling)
8	Dante Output	• 8-pin RJ-45 female connector port • Encoded Dante™ digital audio output port • Connects to the network switch with CAT5e (or better) cable
9	Analog Audio Output	• Left/Right Stereo extracted audio outputs (single-ended 2-channel) • Output always mirrored with Dante and Digital Audio Outputs
10	Digital Audio Output	• (1X) TOSLINK Optical extracted audio port • Always mirrored with Analog and Dante Audio Outputs
11	ISP/CTL	• USB Type-C connector port for servicing and serial communication
12	Dc/5V Power	• DC 5V/2A locking barrel power port

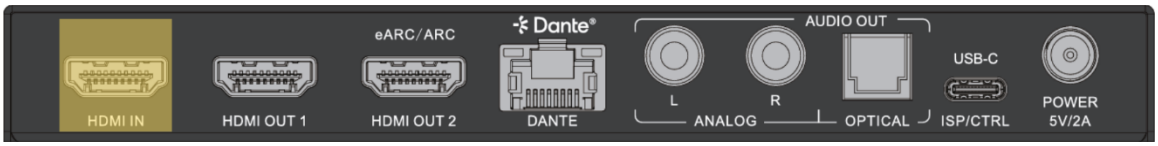
Installation

Connecting Devices

1 Connect the provided 5V/2A power supply to the **DC/5V POWER port** on the AC-AVDM-X. All front panel LED indicators will flash once, indicating the AC-AVDM-X has powered on.



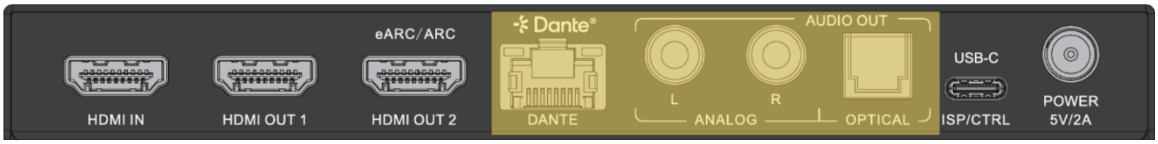
2 Power on the source device. Connect an HDMI cable to the **HDMI INPUT port** on the AC-AVDM-X. The front panel SYSTEM STATUS IN LED will illuminate solid blue, indicating an active source is connected.



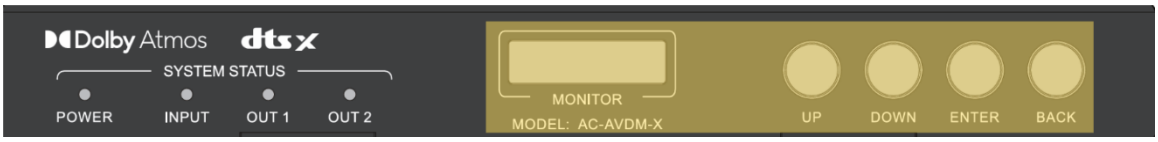
3 Connect the HDMI output device(s) to the **HDMI OUTPUT port(s)** with an HDMI cable.



4 Connect the distributed audio device(s) to the **DOWNMIXED ANALOG, DIGITAL AUDIO, or DANTE OUTPUT ports** using RCA, optical cables, or category cables (depending on application).



5 Depending on the application, use the Settings Buttons on the front panel to adjust downscaling, downmixing, and audio source modes.



Front Panel

- System Status

  Each blue LED indicates the HDMI source device is connected, and which port/s are active/connected:

  - **Power:** Indicates when power is connected and present.
  - **IN:** Indicates the source device is connected to the HDMI INPUT port
  - **OUT 1:** Indicates HDMI OUTPUT 1 is active/connected
  - **OUT 2:** Indicates HDMI OUTPUT 2 is active/connected

- **Front Screen Display** - Displays the current Resolution/Timing of the HDMI Input. Use in conjunction with the Settings buttons (UP, DOWN, ENTER, and BACK) to navigate the available settings menus and change edid, AudioSRCMode, Scaling, Audio downmixing, Test Pattern and Version.

  - **1-Edid:** This sub-menu displays and switches the active EDID using the UP/DOWN buttons.

  NOTE: USER1-3 slots can be used to copy and store OUTPUT 1's connected sync device's EDID. Select COPY USER1, COPY USER2, or COPY USER3 (depending on the USER EDID you want to copy to) and press the ENTER button to save the EDID of that OUTPUTs connected Sync device to the USER1 EDID slot.

SET INx EDID y	Set Input x EDID{x=[0~1](0=ALL), y=[0~23]}			
0: OUT1 Passthrough	1: 1080P_2CH_SDR	2: 1080P_6CH_SDR	3: 1080P_8CH_SDR	4: 4K60Hz_2CH
5: 4K60Hz_6CH	6: 4K60Hz_8CH	7: FRL3_4K120Hz_Y420_2CH	8: FRL3_4K120Hz_Y420_6CH	9: FRL3_4K120Hz_Y420_8CH
10: FRL3_8K30Hz_Y420_2CH	11: FRL3_8K30Hz_Y420_6CH	12: FRL3_8K30Hz_Y420_8CH	13: FRL5_4K120Hz_10b_2CH	14: FRL5_4K120Hz_10b_6CH
15: FRL5_4K120Hz_10b_8CH	16: FRL5_8k60Hz_Y420_2CH	17: FRL5_8k60Hz_Y420_6CH	18: FRL5_8k60Hz_Y420_8CH	19: FRL6_4k120Hz_12b_2CH
20: FRL6_8k30Hz_12b_2CH	21: FRL6_8k60Hz_Y420_2CH	22: USER1_EDID	23: USER2_EDID	24: USER3_EDID

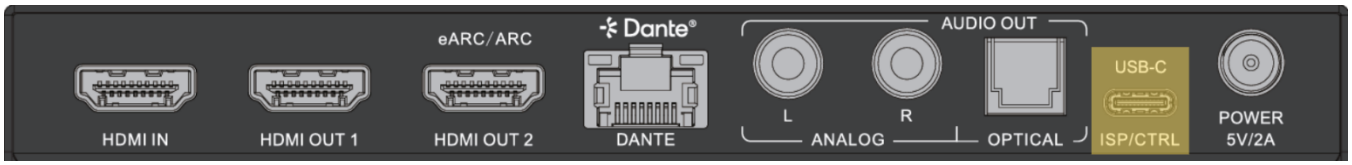
  - **2-Audio Source Mode:** This sub-menu displays and switches the active audio routed to the audio outputs.
    - 0- HDMI1 Source Mode
    - 1- eARC/ARC Source Mode
  - **3-Scaling:** This sub-menu displays and switches Output 1's down scaler setting.
    - Scaler Bypass
    - Scaler 2K(1080p)
    - Scaler 4K
  - **4-Audio downmixing:** This sub-menu displays and enables/disables the audio downmixing.

    NOTE: Downmix can only be OFF when the audio source mode is "HDMI1 Source Mode".
  - **5-Test Pattern – Output-TPN:** This sub-menu displays and switches Output 1's test pattern settings.
    - 0-TPN OFF
    - 1-1080p 60Hz
    - 2-4K 30Hz
    - 3-4K 60Hz
    - 4-4K 120Hz
    - 5-8K 30Hz
  - **6-Version:** This sub-menu displays the unit's loaded firmware version

- **Settings Buttons** – Use these 4 buttons to navigate the available front screen menus, edid, AudioSRCMode, Scaling, Audio downmixing, Test Pattern and Version. After selecting a menu, the settings buttons can be used to switch between and change the listed settings.

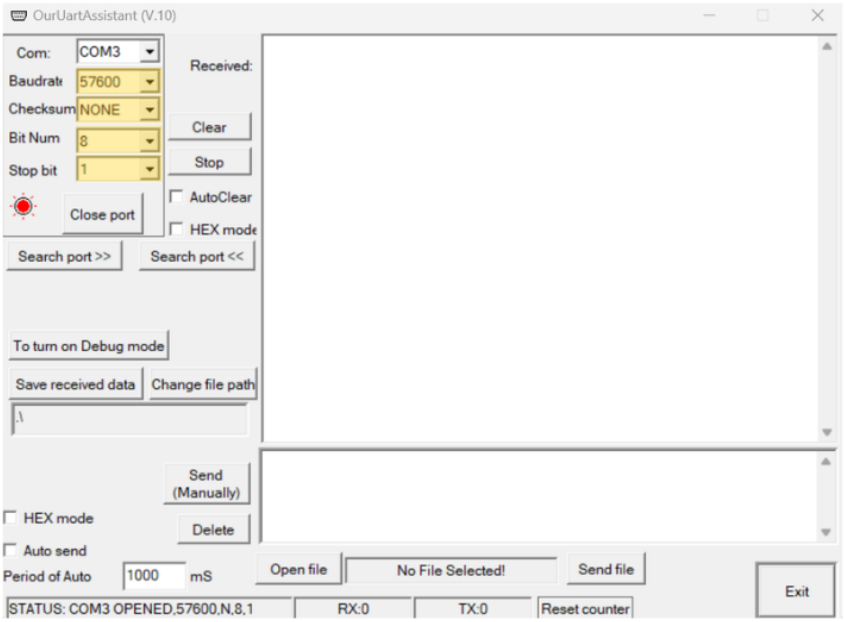
Serial Communication

For communication with the AC-AVDM-X, connect a USB Type-C data cable to the USB ISP port located on the rear panel. The Serial-to-USB is internal, and the required drivers (universal CH340 driver) will automatically install once plugged in.



Set the Serial Communication protocols to:

Baud Rate: 57600
Bit Number: 8
Checksum/Flow Control/Parity: None
Stop Bits: 1





Serial Commands

Command	Action
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 INx RST	Set Input Port Reset {x = [0~1] (0 = ALL)}
SET OUTx RST	Set Output Port Reset {x = [0~1] (0 = ALL)}
SET BAUDR x	Set System BaudRate to x {x = [0~5] (0 = 9600,1 = 14400,2 = 19200,3 = 38400,4 = 57600,5 = 115200)}
SET LCD ON Tx	Set LCD Remain On Time {x = [0~3] (0 = Always ON, 1 = 15, 2 = 30, 3 = 60 Sec)}
SET KEY LOCK ON/OFF	Set Key Lock On/Off
GET ADDR	Get System Address
GET STA	Get System Status
GET BAUDR	Get System BaudRate
GET INx SIG STA	Get Input x Signal Status {x = [0~1] (0 = ALL)}
GET OUTx HPD	Get HDMI Output x HPD Status {x = [0~2] (0 = ALL)}
GET INx VID FMT INF	Get Input x Video Format Info {x = [0~1] (0 = ALL)}
GET LCD ON T	Get LCD Remain On Time
GET KEY LOCK	Get Key Lock Status
Output Setup Commands: (Note: output number(x)=HDMI,x=[1])	
SET OUTx SGMT y	Set Output Signal Generator Timing {x = [01] (0 = ALL), y = [05] (0 = Signal Generator OFF, 1 = 1080p 60Hz, 2 = 4K 30Hz, 3 = 4K 60Hz, 4 = 4K 120Hz, 5 = 8K 30Hz)}
SET OUTx HDCPy	Set Output HDCP Mode {x = [02] (0 = ALL), y = [04] (0 = AUTO, 1 = BYPASS, 2 = Dis, 3 = H14, 4 = H22)}
SET OUTx VIDEO y	Set Output VIDEO Mode {x = [0~1] (0 = ALL), y = [1, 2, 6] (1 = BYPASS, 2 = 8K/4K→2K, 6 = 8K→4K)}
SET AUD SRCMOD x	Set Audio Source Mode x {x = [0~1]}: 0 = HDMI1 Source Mode, 1 = eARC/ARC Source Mode
SET ADMX ON/OFF	Set Audio Downmix ON/OFF. Note: Downmix can only be OFF when the audio source mode is "HDMI1 Source Mode".
SET OUTx STREAM ON/OFF	Set Output x Stream ON/OFF {x = [0~1] (0 = ALL)}
SET OUTx HDMI STREAM MODEy	Set Output x Stream Mode {x = [0~1] (0 = ALL), y = [0–Always On, 1–Follow Input Signal]}
GET OUTx SGMT	Get Output Signal Generator Timing Status {x = [0~1] (0 = ALL)}
GET AUD SRCMOD	Get Audio Source Mode x {x = [0~1]}: 0 = HDMI1 Source Mode,1 = eARC/ARC Source Mode
GET ADMX	Get Audio Downmix ON/OFF Status
GET OUTx STREAM	Get Output x Stream ON/OFF Status {x = [0~1] (0 = ALL)}
GET OUTx HDMI STREAM MODE	Get Output x Stream Mode {x = [0~1] (0 = ALL)}
GET OUTx EDID DATA	Get Output x EDID Data {x = [1]}
Input Setup Commands:(Note:input number(x)=HDMI(x),x=[1])	
SET INx EDID y	Set Input x EDID{x=[0~1](0=ALL), y=[0~23]}
0: OUT1 Passthrough	1:1080P_2CH_SDR
5: 4K60Hz_6CH	6: 4K60Hz_8CH
10: FRL3_8K30Hz_Y420_2CH	11: FRL3_8K30Hz_Y420_6CH
15: FRL5_4K120Hz_10b_8CH	16: FRL5_8k60Hz_Y420_2CH
20: FRL6_8k30Hz_12b_2CH	21: FRL6_8k60Hz_Y420_2CH
SET INx EDID CY OUTy	Copy Output y EDID To Input x(USER1 BUF){x=[0~1](0=ALL), y=[1]}
SET INx Uy EDID CY OUTz	Copy Output z EDID To User y Buff Input x{x=[0~1](0=ALL), y=[1~3],z=[1]}
SET INx EDID Uy DATAz	Write EDID To User y Buffer of Input x{x=[0~1](0=ALL), y=[1],z=[EDID Data]}
SET INx TMDS ON/OFF	Set Input x Port TMDS Status ON/OFF{x=[0~1](0=ALL)}
GET INx EDID	Get Input x EDID Index {x = [0~1] (0 = ALL)}
GET INx EDID y DATA	Get Input x EDID y Data {x = [01], y = [023]}
GET INx TMDS	Get Input x Port TMDS Status {x = [0~1] (0 = ALL)}
GET INx PW	Get Input x Port Power Status {x = [0~1] (0 = ALL)}

2:1080P_6CH_SDR	3:1080P_8CH_SDR	4: 4K60Hz_2CH		
7: FRL3_4K120Hz_Y420_2CH	8: FRL3_4K120Hz_Y420_6CH	9: FRL3_4K120Hz_Y420_8CH		
12: FRL3_8K30Hz_Y420_8CH	13: FRL5_4K120Hz_10b_2CH	14: FRL5_4K120Hz_10b_6CH		
17: FRL5_8k60Hz_Y420_6CH	18: FRL5_8k60Hz_Y420_8CH	19: FRL6_4k120Hz_12b_2CH		
22: USER1_EDID	23: USER2_EDID	24: USER3_EDID		

Troubleshooting

- Verify Power – Confirm the power supply is properly connected and is outputting 5V.
- Verify Connections – Confirm all cables are properly connected and/or terminated where applicable.
- Verify Source Device – Confirm the source device is powered on and all mute settings are disabled.

Maintenance

To ensure the reliable operation of this device as well as protect the safety of any person using or handling this device when powered on, observe the following instructions:

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

Damage Requiring Service

This device should be serviced by qualified personnel when:

- The DC power supply cord or AC adapter has been damaged
- Objects or liquids have breached the device's interior
- The device has been exposed to rain or moisture
- The device does not operate normally or exhibits a marked change in performance
- The device has been dropped or the housing is damaged

Support

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

- Product name
- Model number
- Serial number
- Place of purchase
- Details of the issue and any conditions under which the issue is occurring

Warranty

The Basics

AVPro Edge warranties products it manufactures and sells when purchased directly from AVPro Edge or an authorized AVPro Edge reseller. Products are guaranteed to be free from manufacturing defects and in sound physical and electronic condition when shipped by AVPro Edge.

AVPro Edge has developed a warranty everyone can get behind. We wanted to remove all warranty “red tape” to make it simple. Our 10-Year, NO BS Warranty is based on these 3 fundamentals:

- If you are experiencing trouble, please call us. Our Tech Support specialists will make every troubleshooting attempt at a remedy while you are on the phone.
- If it is determined the product has experienced an uncorrectable failure, we will provide an advanced replacement free of shipping charges, including no-charge return shipping for the unit on site.
- We are confident that you know what you are doing and will never make you go through unnecessary troubleshooting steps with one of our products.

Coverage Details

AVPro Edge will replace or repair (at the customer’s choosing) any defective product. If the failed unit is out of stock or on backorder, replacement with a comparable product of equal value or feature set, if available, may be a viable solution. In rare circumstances, it may be determined repair is the only available option.

Warranty starts upon receipt of the product (determined by confirmed delivery via tracking). Should tracking information be unavailable for any reason, the warranty will have a start date coinciding with a thirty-day interval after receipt of the order (ARO).

Red Tape

AVPro Edge is not responsible to provide a warranty for untraceable purchases, or those made outside of authorized distribution channels.

If AVPro Edge determines a product has been modified or internally tampered with (as identified by a warranty seal violation and/or physical examination) or has an altered serial number, the warranty will be declared void. Additionally, physical misuse or damage incurred beyond normal installation standards and practices may violate the warranty. Warranties may also be prorated as a mutual means of reconciliation, after examination by an AVPro Edge representative.

Damage caused by “acts of God” (including, but not limited exclusively to): Natural disasters, power surges, electrical storms, earthquakes, tornadoes, sinkholes, typhoons, tidal waves, hurricanes, or other uncontrolled and unforeseen events related to unnatural weather conditions) are not covered.

Damage caused by incorrect installation will not be covered. Abnormal over- or under-voltage, inadequate cooling, improper cabling, lack of appropriate protection, and static discharge are many examples of improper installation, but warranty exclusions are not solely limited to these examples.

Warranty service for products installed or sold by an authorized AVPro Edge third-party reseller will be provided by that authorized AVPro Edge reseller. Accessories (items included in the original purchase, such as IR cables, RS-232 cables, power supplies, etc.) are not included in the warranty unless identified as the point of failure or the cause of performance that differs from that intended by design.

We will make acceptable efforts to source and supply replacements for defective accessories at a discounted rate as needed.

Obtaining an RMA

Dealers, resellers, and installers can request an RMA (Returned Merchandise Authorization) from an AVPro Edge Technical Support rep or Sales Engineer. Or you may email support@avproedge.com or fill out the general contact form at www.avproedge.com/contact.

End users may not request an RMA directly from AVPro Edge and will be referred back to the dealer, reseller, or installer.

Shipping

For the USA (not including Alaska and Hawaii), shipping is covered for advance replacements using FedEx Ground (some Express exceptions may apply). Defective product return shipping is covered by AVPro Edge, using a return label issued via email. Items must be returned within 30 days from receipt of the replacement product. At 40 days, the customer account will be billed. Other return shipping methods will not be covered.

For international (and Alaska and Hawaii) return shipping costs will be the responsibility of the returnee. Once the unit is scanned for return shipping AVPro Edge will ship the new replacement unit.

Limitation on Liability

The maximum liability of AVPro Global Holdings LLC under this limited warranty shall not exceed the actual purchase price paid for the product. AVPro Global Holdings LLC is not responsible for direct, special, incidental, or consequential damages resulting from any breach of warranty or condition, or under any other legal theory to the maximum extent permitted by law. Taxes, Duties, VAT, and other freight forwarding service charges are not covered or paid for by this warranty.

Obsolescence or incompatibility with newly invented technologies (after the manufacture of the product) is not covered by this warranty. Obsolescence is defined as:

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