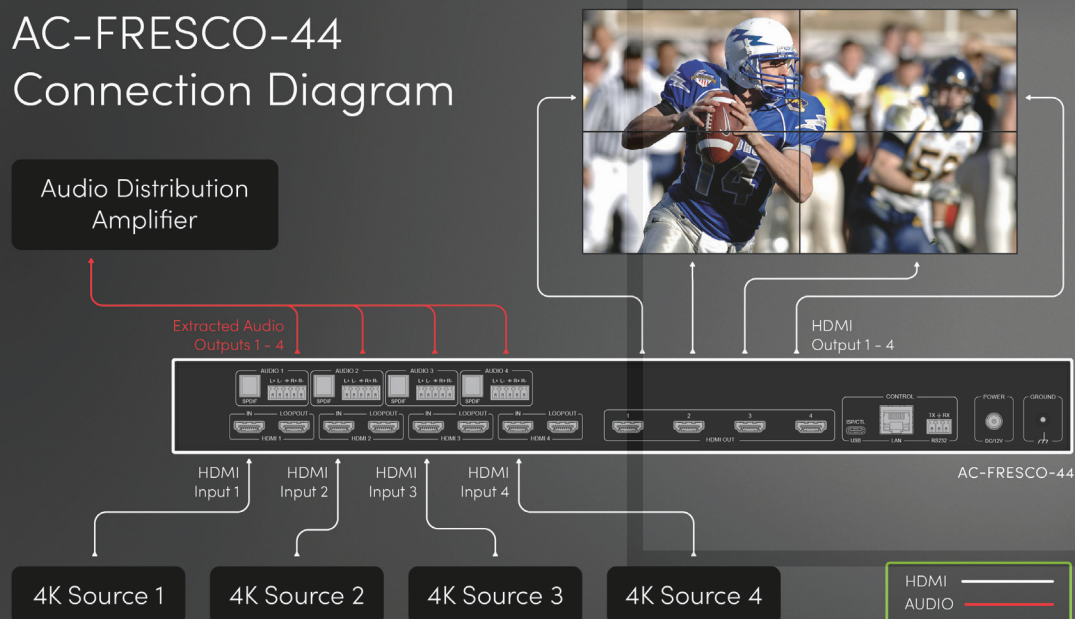**FRESCO**
VIDEO SYSTEMS

18 Gbps 4K 4x4 HDMI Matrix & Video Wall Processor AC-FRESCO-44

The AC-FRESCO-44 is another powerful, innovative AVPro Edge commercial integration tool destined to become an instant classic. Designed to provide instant, imperceptibly fast HDMI switching, this dual-mode hybrid HDMI matrix switcher with 2x2 video wall processing is perfect for new installations and especially for upgrading traditional 2x2 video walls with dynamic new capabilities. Retrofit traditional 2x2 single image configurations into offering four independent programs, with instant recall returning to a unified image at the press of a button. 4K to 1080p downscaling provides compatibility with legacy displays.

Source loop-outs enable multiple units to be cascaded to create larger arrays, synchronized easily for seamless processing, and simplified interconnectivity. EDID management ensures display compatibility while delaying the extracted audio up to 630 ms maintains lip-sync in any installation scenario.

The versatile AC-FRESCO-44 from AVPro Edge is perfect for video wall applications that require creative flexibility in markets such as hospitality, retail, education, government, command and control, and even houses of worship.

AC-FRESCO-44 Connection Diagram

Audio Distribution Amplifier

Extracted Audio Outputs 1 - 4

HDMI Output 1 - 4

HDMI Input 1   HDMI Input 2   HDMI Input 3   HDMI Input 4

AC-FRESCO-44

4K Source 1   4K Source 2   4K Source 3   4K Source 4

HDMI
AUDIO

PRODUCT SPECIFICATIONS

VIDEO INPUT	
VIDEO RESOLUTIONS	4K/60 HZ 4:4:4
HDR FORMATS	DOLBY VISION, HDR10, HDR10+, HLG
COLOR SPACE	YUV (COMPONENT), RGB (CSC: ITU-R BT.601, ITU-R BT.709, ITU-R BT.2020, DCI-P3 D65)
CHROMA SAMPLING	4:4:4, 4:2:2, 4:2:0
DEEP COLOR	UP TO 12-BIT
HDCP	HDCP 2.3 AND EARLIER
VIDEO OUTPUT	
VIDEO RESOLUTIONS	4K/60 HZ 4:4:4
HDR FORMATS	DOLBY VISION, HDR10, HDR10+, HLG
COLOR SPACE	YUV (COMPONENT), RGB (CSC: ITU-R BT.601, ITU-R BT.709, ITU-R BT.2020, DCI-P3 D65)
CHROMA SAMPLING	4:4:4, 4:2:2, 4:2:0
DEEP COLOR	UP TO 12-BIT
VIDEO SCALING (OPTIONAL)	4K TO 1080P / 720P, 1080P TO 720P
LOOP OUT	ONE LOOP OUT PER HDMI INPUT
HDCP	HDCP 2.3 AND EARLIER
AUDIO	
AUDIO FORMATS SUPPORTED (HDMI)	LPCM UP TO 7.1, 192 KHZ 24-BIT, DOLBY DIGITAL, DOLBY DIGITAL PLUS, DOLBY TRUEHD, DOLBY ATMOS (ALL FORMATS), DOLBY AC-4, DTS-DIGITAL SURROUND, DTS-ES DISCRETE, DTS-HD HIGH RES AUDIO, DTS-HD MASTER AUDIO, DTS:X
AUDIO FORMATS SUPPORTED (S/PDIF)	LPCM UP TO 5.1, 96 KHZ 24-BIT, DOLBY DIGITAL 5.1, DTS-HD HIGH RESOLUTION AUDIO
AUDIO FORMATS SUPPORTED (2-CH.)	PCM 2-CH.
AUDIO EXTRACTION MODE	BIND TO INPUT, BIND TO OUTPUT, OR MATRIX (INDEPENDENT)
AUDIO DELAY (PER OUTPUT, EXTRACTED)	UP TO 630 MS
DISTANCE	
HDMI IN/OUT	UP TO 50 FT **
HDMI IN/OUT (W/ AOC)	UP TO 130 FT **
CONTROL	
FRONT PANEL	LCD SCREEN WITH 4-BUTTON NAVIGATION
PORTS	LAN, RS-232, USB TYPE-C
WEB INTERFACE	YES
PORTS	
HDMI	TYPE-A
LAN	RJ45 W/ WEB INTERFACE & CONTROL
AUDIO (EXTRACTED DIGITAL)	S/PDIF
AUDIO (EXTRACTED ANALOG)	5-PIN EUROBLOCK (BALANCED)
RS-232	3-PIN EUROBLOCK
ISP / CTL	USB TYPE-C
ENVIRONMENTAL	
OPERATING TEMPERATURE	23° TO 125° F (-5 TO 51° C)
STORAGE TEMPERATURE	-4° TO 140° F (-20 TO 60° C)
HUMIDITY RANGE	5% TO 90% RH (NO CONDENSATION)
POWER	
POWER CONSUMPTION (TOTAL)	33 W MAXIMUM
POWER SUPPLY	INPUT: 100-240 VAC ~ 50/60 HZ OUTPUT: 48 VDC, 0.5 A
PHYSICAL / DIMENSIONS	
MOUNTING	1-RU RACK MOUNTING BRACKETS RUBBER FEET
DIMENSIONS (UNIT LENGTH/WIDTH/HEIGHT)	MM: 225.3 X 440 X 44 IN: 8.87 X 17.32 X 1.73
DIMENSIONS (PACKAGED LENGTH/WIDTH/HEIGHT)	MM: 375.65 X 565.15 X 125.39 IN: 14.75 X 22.25 X 4.93
WEIGHT (UNIT)	6.9 LBS. (3.12 KG)
WEIGHT (PACKAGED)	9.95 LBS. (4.51 KG)
REGULATORY	CE/FCC
PRODUCT WARRANTY	10 YEARS

*SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. MASS & DIMENSIONS ARE APPROXIMATE
**DISTANCES ACHIEVED WITH BULLET TRAIN HDMI AND AOC CABLES

KEY FEATURES

- **Dual Display Modes** – Functions as a video wall processor for a 2x2 native unified single source configuration (cascade-capable for larger arrays) or as an HDMI matrix switcher to display four separate sources.

- **Instant HDMI Source Switching** – Delay-free, imperceptible instant switching, suitable for real-time production environments. In a monitored situation, switch from quad sources to a single source to immediately highlight live action.

- **Web GUI Video Wall Configuration** – Use the built-in browser-based Web GUI to plot default picture mapping coordinates for each display in the video wall.

- **Scalable Configurations** – HDMI source loop outputs with companion extracted analog audio and S/PDIF outputs invite limitless, creative, synchronized, cascading expandability into wall arrays of any size.

- **Supports 4K/60 fps 4:4:4** – Legendary AVPro Edge superior video signal processing delivers images with the highest fidelity.

- **Web Interface and Front Panel Display and Control** – Limited control functionality can be assigned with User-Only credentials, permitting video wall and source assignment, and audio control access only, keeping Admin settings secure.

- **4K Downscaling** – Easily retrofit and refresh legacy installations with downscaling to 1080p. Update traditional single-source video walls with HDMI source matrixing.

- **Audio Delay and Extraction** - Up to 630 ms of audio delay control through extracted audio aligns image and audio to eliminate distracting lip-sync issues.

- **Built-in Troubleshooting** – EDID management and test pattern generation verify signal paths and ensure system compatibility.

- **LAN and RS-232 Control** – Automation friendly with a comprehensive API.

- **AVPro Edge Warranty** – Covered by AVPro's 10-year no-hassle warranty