



EL-8400VA

6 x 2 Presentation Seamless Matrix with USB



The EL-8400VA Presentation Matrix is a multi-format switching matrix with integrated scaling featuring HDMI, DisplayPort, USB Type-C, and HDBaseT I/O. The selected source (video & audio) can be transmitted with HDMI or HDBaseT2 technology over Cat.6A cable up to 100 meters along with bi-directional Ethernet, RS-232, USB, and IR as well as providing 48V PoH power to compatible HDBaseT2 transmitter (PUV-2606TX) and receiver (PUV-2010RX).

The HDMI, DisplayPort and USB-C ports support resolutions up to 4K@60 (4:4:4, 8-bit) while the HDBaseT output supports automatic down-conversion of 4K60(4:4:4) sources to 4K60(4:2:0).

The EL-8400VA also includes multiple analogue stereo audio inputs and two microphone inputs, a stereo 20W per channel amplifier and balanced stereo audio output complete the audio I/O. The built-in DSP audio mixer function allows the user to mix audio from any analogue input with the microphone input for presentation or lecture usage. The ability to switch back and forth between mixed and non-mixed audio greatly simplifies the presentation experience. Standard control is available via front panel buttons with selectable volume control knob. Standard On-Screen Display(OSD), RS-232, Telnet, and WebGUI control is available making it exceptionally versatile.

PANELS



Front View

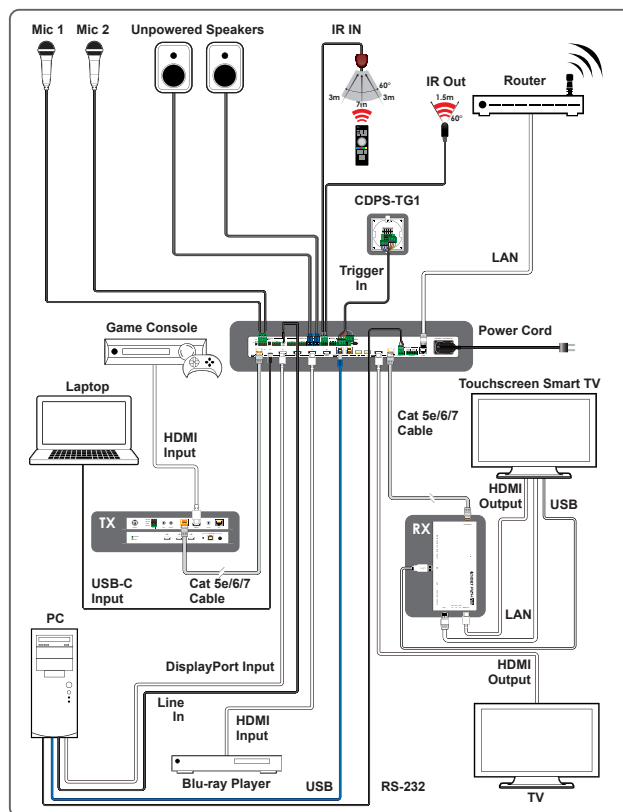


Rear View

FEATURES

- Supports standard PoH (PSE) from both HDBaseT input and output to the connected HDBaseT (PD) transmitter and receiver (compatible transmitter/ receiver only)
- HDBaseT output transmits video and audio over a single Cat.5e cable of 1080p up to 90m/295ft for input and 70m/230ft for output, Cat.6a cable 100m/328ft at 4K@30
- Supports HDBaseT feature set: HD Video & Audio, 100BaseT Ethernet, 48V PoH, and Control(Bidirection IR/RS-232/USB pass through)
- Controllable via front panel controls with OSD, RS-232, Telnet, WebGUI, and triggers
- USB Type-C port provides up to 60W of power to connected device
- High performance and efficient Class-D amplifier (20W per channel)
- Microphone input supports optional 48V or 5V phantom power
- 6 video inputs (1xUSB-C, 1xHDBaseT, 3xHDMI, 1xDisplayPort) and 2 video outputs(HDMI & HDBaseT)
- 15 audio sources(10 audio inputs and 5 mixers) can be routed independently to any of the 5 audio outputs
- Audio mixer function allows the mixing of audio from any 4 LPCM 2.0 audio sources, including the microphone inputs with auto-gain functionality
- Adjustable gain control for individual audio sources and volume control for any outputs
- Multiple USB hosts may be connected at once (up to 4 total, between the unit and compatible Tx/Rx) with a single selected host active at a time
- Supports manual input selection or automatic input selection for video and USB, with hot plug detection and "Last Memory" feature
- Seamless switching (no loss of sync to display)
- Comprehensive EDID and HDCP management
- Trigger Control Keypad support for easy, single-button and function activation (Optional)
- HDBaseT output supports resolutions up to 4K@60Hz (4:2:0, 8-bit) or 4K@30Hz (4:4:4, 8-bit). 4K@50/60Hz (4:4:4, 8-bit) or 4K@any (10/12-bit) sources will be automatically colour space converted to fit within the available bandwidth
- Supports up to 4K UHD (18Gbps, 4K@50/60Hz 4:4:4, 8-bit) digital video input (HDMI, USB-C, DP) and output (HDMI)
- HDBaseT 2.0 compatible
- HDMI 2.0, DisplayPort 1.4 compliant
- HDCP 1.x and 2.2 compliant

DIAGRAM





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SPECIFICATIONS

Interfaces

Input Port	3×HDMI (Type-A) 1×DisplayPort 1×USB (Type-C) 1×HDBaseT (RJ-45) 1×Stereo Audio (3.5mm) 1×Stereo Audio (5-pin Terminal Block) 2×Microphone (5-pin Terminal Block)
Output Port	1×HDBaseT (RJ-45) 1×HDMI (Type-A) 1×Stereo Audio Class D amplifier (2x2-pin Terminal Block) 2×Stereo Audio (5-pin Terminal Block)
Pass-through Port	1×IR Extender & Blaster (4-pin Terminal Block) 1×RS-232 (6-pin Terminal Block) 2×Power Relay (2-pin Terminal Block) 2×USB (Type-A) 1×USB (Type-B)
Pass-through/Control Port	1×LAN (RJ-45)
Control Port	1×RS-232 (3-pin Terminal Block) 1×Trigger (10-pin Terminal Block)
Pass-through/Service Port	1×USB (Type-B)

Video

HDMI Compliance	HDMI 2.0 (DVI 1.0)
HDCP Compliance	2.2
Input Signal Type	4K@60 YUV 4:4:4
Output Signal Type	4K@60 YUV 4:4:4

Resolutions

Maximum Input	HDMI	4096×2160p@60 YUV 4:4:4
	USB-C	4096×2160p@60 YUV 4:4:4
	DP	4096×2160p@60 YUV 4:4:4
	HDBaseT	4096×2160p@60 YUV 4:2:0
Maximum Output	HDMI	4096×2160p@60 YUV 4:4:4
	HDBaseT	4096×2160p@60 YUV 4:2:0

Audio

Digital Formats	LPCM (2 Channels, 48kHz)	
Mic Input	50mVrms	
Analogue Input (5-pin Terminal Block)	4Vrms	
Analogue Input (3.5mm)	2Vrms	
Analogue Output (5-pin Terminal Block)	4Vrms	
	THD+N	< -60dB@0dBFS 1kHz (A-wt)
	SNR	> 70dB@0dBFS
	Frequency Response	< ±3dB@20Hz~20kHz
	Crosstalk	< -60dB@10kHz
Analogue Output (Amplified Output)	20W+20W	
	THD+N	< -60dB@0dBFS 1kHz (A-wt)
	SNR	> 70dB@0dBFS
	Frequency Response	< ±3dB@20Hz~20kHz
	Crosstalk	< -60dB@10kHz

Power

Power Supply	100~240V AC
Power Consumption	156W

Enclosure

Chassis Material	Metal (Steel)
Chassis Colour	Black
Dimensions (W×H×D)	438mm×269mm×44mm [Case Only] 482mm×292mm×49mm [All Inclusive]
Weight	4035g

Field Firmware Update

PC, WebGUI

ORDERING INFORMATION

Model No. Product Description

PUV-2606TX	HDBaseT2 Transmitter with USB for the Reverse Power PUV-2600 Series
PUV-2608TX	HDBaseT2 Transmitter & Multi-Format Switch with USB for the Reverse Power PUV-2600 Series
PUV-2200PL-TX	HDBaseT2 LITE Transmitter with USB, PoH & Audio pathway
PUV-2200PL-RX	HDBaseT2 LITE Receiver with USB, PoH & Audio pathway
PUV-2010RX	HDBaseT2 Receiver with USB, LAN, PoH & Audio/ARC pathway