



EL-8300VA

Advanced Multi-format 4K Presentation Switch



The EL-8300VA is an advanced multi-format presentation switch with integrated scaling across the HDMI, USB-C, DisplayPort and VGA inputs, plus HDMI and HDBaseT outputs. The EL-8300VA features HDBaseT extension for video up to 4K/60 (4:2:0), plus embedded audio, control and Ethernet over distances of up to 100m. The HDMI, USB-C and DisplayPort inputs support video up to 4K/60 (4:4:4, 8-bit) while the VGA input supports resolutions up to WUXGA. The EL-8300VA is HDCP 2.2 compliant and features 4K/60 4:4:4 upscaling and downscaling across all the inputs.

The EL-8300VA includes multiple analogue stereo audio inputs and microphone input, along with amplified and balanced line-level analogue stereo outputs, providing a range of audio routing and mixing functionality. The built-in audio mixer function allows the user to mix audio from any LPCM 2.0 source with the microphone input for presentation or lecture usage. The ability to switch back and forth between mixed and non-mixed audio provides additional flexibility to the presentation experience.

Trigger inputs allow the easy addition of a third party voltage trigger remote control keypad, which can be installed within a podium or table in a conference room or classroom. This interface enables the user to activate functions with the simple press of a button. Comprehensive control options are provided via the front panel buttons (various button locking features available), On-Screen Display (OSD), Web GUI, IP Telnet, Voltage Trigger, and RS-232.

PANELS



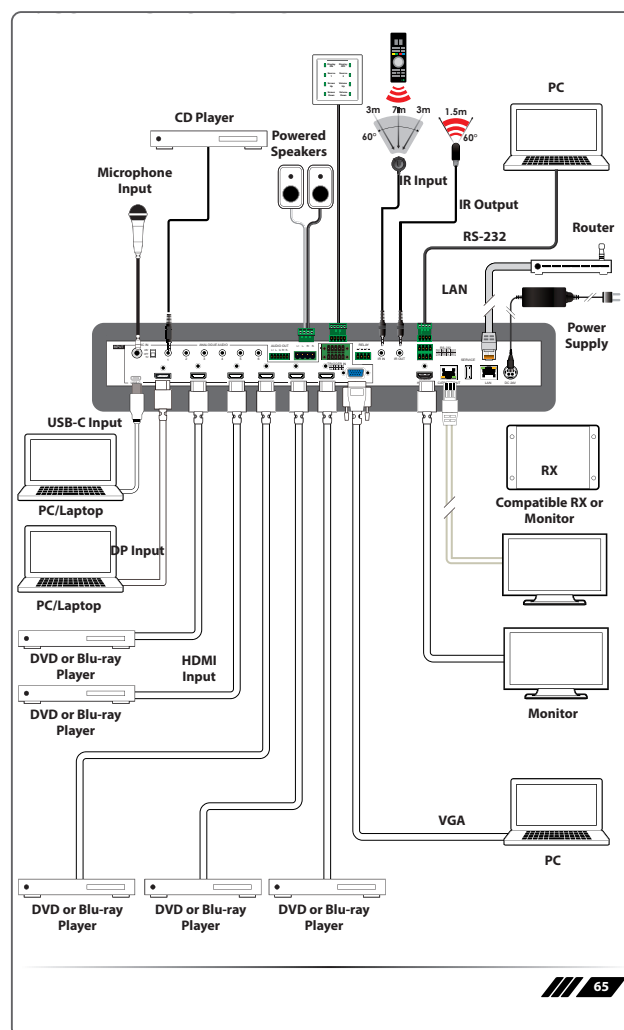
Front View



Rear View

- 8x2 Presentation switcher with HDMI, DisplayPort, VGA and USB-C inputs
- HDMI 2.0, DVI 1.0 and HDCP 2.2 compliant
- HDBaseT and HDMI mirrored outputs with scaling functionality
- Supports up to 4K UHD (18Gbps, 4K@50/60Hz 4:4:4, 8-bit) video input and output (HDMI)
- HDBaseT output transmits video and audio over a single Cat.5e/6/7 cable up to 100m/328ft at 1080p and 70m/230ft at 4K; Auto conversion of 6G signals for HDBaseT output compatibility
- Audio DSP function allows the mixing of audio from different audio input types plus microphone input balancing
- Built in 2 x 20 watts audio amplifier
- Trigger Control Keypad support for easy single-button control, function activation (Optional)
- Control is via OSD, RS-232, Telnet, Web GUI and triggers
- Comprehensive EDID and HDCP management
- Supports standard PoH from the unit to connected HDBaseT Receivers (compatible receivers only)
- USB Type-C port provides up to 60W of power to connected devices

DIAGRAM





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SPECIFICATIONS

Interfaces

Input Port	1x USB-C [1x USB-C / Thunderbolt] 1x Display Port [1x Display Port Uncompressed AV] 5x HDMI [5x HDMI Uncompressed AV and Data] 1x 15pin Dsub [1x VGA RGBHV] 6x 3.5mm Stereo mini-jack [6x Analogue Stereo(L/R)] 1x 6.35mm Stereo Jack [1x Microphone]
Output Port	1x HDMI [1x HDMI Uncompressed AV and Data] 1x RJ45 [1x HDBaseT HDMI & Propriety Data] 1x Phoenix (5 pin) [1x Analogue Stereo (Balanced or Unbalanced)] 2x Phoenix (2 pin) [1x Speaker Level Stereo Output]
Pass-through Port	1x 3.5mm Stereo mini-jack [1x Infra Red Receiver] 1x IR Blaster (3.5mm) 1x Phoenix (4 pin) [1x RS-232 HDBaseT pathway] 2x Phoenix (2 pin) [2x Contact Closure Relay Outputs]
Pass-through/Control Port	1x LAN (RJ-45)
Control I/O	1x Phoenix (4 pin) [1x RS-232 local control] 1x Trigger (10-pin Terminal Block)
Service Port	1x USB 2.0 (Type-A)

Video

HDMI Compliance	HDMI 2.0 (DVI 1.0)
HDCP Compliance	2.2
Input Signal Types	4K@60 8bit YUV 4:4:4, HDR10
Output Signal Types	4K@60 8bit YUV 4:4:4, HDR10

Resolutions

Maximum Input	HDMI	4096×2160p@60 2560×1600p@60RB
	VGA	1920×1200p@60RB
	USB-C	4096×2160p@60 2560×1600p@60RB
	DP	4096×2160p@60 2560×1600p@60RB
Maximum Output	HDBaseT	4096×2160p@30 2560×1600p@60RB
	HDMI	4096×2160p@60 2560×1600p@60RB

Audio

Digital Formats	HDMI	8CH LPCM, Bitstream, HD Bitstream
Analog Formats	Unbalanced 2 Channel	
Line Level	Frequency Response: < ±0.5dB (20Hz to 20kHz) THD: < 0.02% (20Hz to 20kHz) S/N Ratio: > 80dB (1kHz with 0dBFS) Crosstalk: < -80dB (10kHz, Vin=0dBFS)	

Power

Power Supply	24V/6.25A (Locking)
Power Consumption	143w

Enclosure

Chassis Material	Metal (Steel)
Chassis Colour	Black
Dimensions (W×H×D)	432mm×43mm×164mm [Case Only] 432mm×43mm×174mm [All Inclusive]
Weight	2560g

Field Firmware Update

USB Field upgrade, WebGUI

ORDERING INFORMATION

Model No.	Product Description
EL-8300VA	UHD+ 8x2 Multi-Format to HDMI/HDBT Switcher with Scaler
PUV-1510RX	HDMI over HDBaseT Receiver with LAN, PoH, IR, RS-232