

ViewMatrix

Model: CLA-VM42U



SUMMARY

Seamless Matrix Switcher redefines professional AV performance with stunning 4K@60Hz 4:4:4 resolution and full HDR support, including Dolby Vision, HDR10+, and HLG. Designed for versatility, it features four HDMI inputs with loop outputs, two HDMI outputs, and a USB 3.2 Gen 1 capture port for effortless streaming and recording. Its advanced multi-view modes—from PIP and PBP to Quad and customizable layouts—make dynamic presentations simple and impactful. With seamless switching technology that eliminates black screens and tearing, plus audio de-embedding and HDR-to-SDR conversion, it ensures flawless delivery across any setup. Control is intuitive and flexible via front panel, IR remote, RS-232, TCP/IP, or the built-in Web GUI with EDID management. Compact yet powerful, this switcher is the ultimate solution for broadcasting, conferencing, live events, and high-end AV installations where reliability and brilliance matter most.

FEATURES

- ❖ **Ultra-HD Video Quality**
Supports resolutions up to 4K@60Hz 4:4:4, 8-bit deep color, compliant with HDMI 2.0b, HDCP 2.2, and HDCP 1.x standards.
Full HDR compatibility including HDR10, HDR10+, HLG, and Dolby Vision pass-through.
- ❖ **Seamless Switching Technology**
Provides instant source transitions without black screens or tearing in matrix mode. Fast switching with multi-view functionality for dynamic display management.
- ❖ **Multi-View Display Modes**
Flexible layouts including Auto, Single, PIP, PBP, Triple, Quad, and customizable configurations for professional presentations.
- ❖ **Comprehensive Connectivity**
Inputs: 4× HDMI, 1× USB 3.2 Gen 1 host; **Outputs:** 2× HDMI, 4× HDMI loop, 1× Optical audio, 1× Analog audio; **USB 3.2 Capture:** Up to 5Gbps with UVC/UAC protocol for streaming and recording.
- ❖ **Advanced Audio Management**
Built-in audio de-embedding with optical and analogue outputs. Supports HDR-to-SDR conversion for compatibility across diverse display systems

❖ **Flexible Control Options**

Operable via front panel buttons, IR remote, RS-232, TCP/IP API commands, or the integrated Web GUI Includes EDID management with auto or manual switching modes.

❖ **Professional Applications**

Ideal for broadcasting, conferencing, live events, control rooms, and high-end AV installations requiring reliability, flexibility, and uncompromising performance.

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SPECIFICATIONS

Model No.	CLA-VM42U
HDMI / HDCP Compliance	HDM 2.0b / HDCP 2.2 and 1.x
Video / USB Bandwidth	18Gbps HDMI / USB 3.2 Gen 1 up to 5Gbps
Input Video Resolution	All Supported Full HD and 4k Resolutions
Output Video Resolution	HDR Bypass Mode: Video passthrough from input HDR to SDR Mode: All Supported Full HD and 4k Resolutions
IR Level	12Vp-p
IR Frequency	Wideband 20K-60KHz
Color Depth	8/10/12-bit
Color Space	RGB, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Audio Formats	HDMI Passthrough: LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atoms, DTS, DTS-HD, DTS-HD Master Audio, DTS 96/24, DTS High Res Audio Breakout: Optical Out: Up to LPCM/Dolby/DTS 5.1CH Line Out: Only LPCM 2CH (sample rate 32~192kHz)
Transmission Distance	HDMI passive cable: 9.8ft/3m USB 3.2 Gen 1 5Gbps passive cable: 4.9ft/1.5m
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) , ±4kV (Contact discharge)
Input ports	4x IN [HDMI Type A, 19-pin female] °
Output ports	1x OUT 1 [HDMI Type A, 19-pin female, single / multiview output] 1x OUT 2 [HDMI Type A, 19-pin female], 1x LINE AUDIO OUT [5pin-3.5mm phoenix connector] 1x OPTICAL AUDIO OUT [S/PDIF], 1x UVC/4K [9-pin USB Host Type B, USB 3.2 Gen 1 5Gbps, supporting UVC/UAC]

Control ports	1x RS-232 [3pin-3.5mm phoenix connector, RS-232 API control] 1x LAN [RJ45 connector, TCP/IP and Web GUI] 1x SERVICE [USB-C with USB 2.0 only, FW upgrade] 1x IR EXT [3.5mm audio jack, IR IN 12V level]
Housing	Metal and Aluminum
Dimensions (mm)	440 (W) X 200 (D) X 44 (H)
Weight (KG)	2.65
Power Supply	AC100 - 240V 50/60Hz
Power Consumption	61.6W (Max)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Operating Humidity	20%~80% (relative humidity, non-condensing)
Storage Humidity	10%~90% (relative humidity, non-condensing)