



# MatrixOne-88 Elite

## 4K HDR Matrix Switcher



### DESCRIPTION

MatrixOne-88 Elite (Model: MX1-88E) is Aniston's flagship 8x8 HDMI 2.0 matrix switcher designed for mission-critical AV environments that demand uncompromised performance, ultra-fast switching, and full control flexibility. With support for resolutions up to 4K@60Hz (4:4:4) and full compliance with HDCP 2.2, HDR10, HDR10+, Dolby Vision, and HLG, it ensures pristine image quality for modern AV deployments.

This advanced matrix allows seamless routing of 8 HDMI input sources to 8 independent HDMI outputs, with optional resolution downscaling and mirror modes per output. Be extracted and routed independently — with support for Bind to Input, Bind to Output, Integrated audio matrixing enables analog and digital audio to or Matrix Mode via intuitive Web GUI or RS-232 commands.

Equipped with re-clocking circuitry for backward compatibility with legacy HDMI devices, the MatrixOne-88 Elite also features powerful EDID management (fixed, user defined, and copy modes) and a complete control suite via front panel, IR (built-in & external), RS-232, and Ethernet.

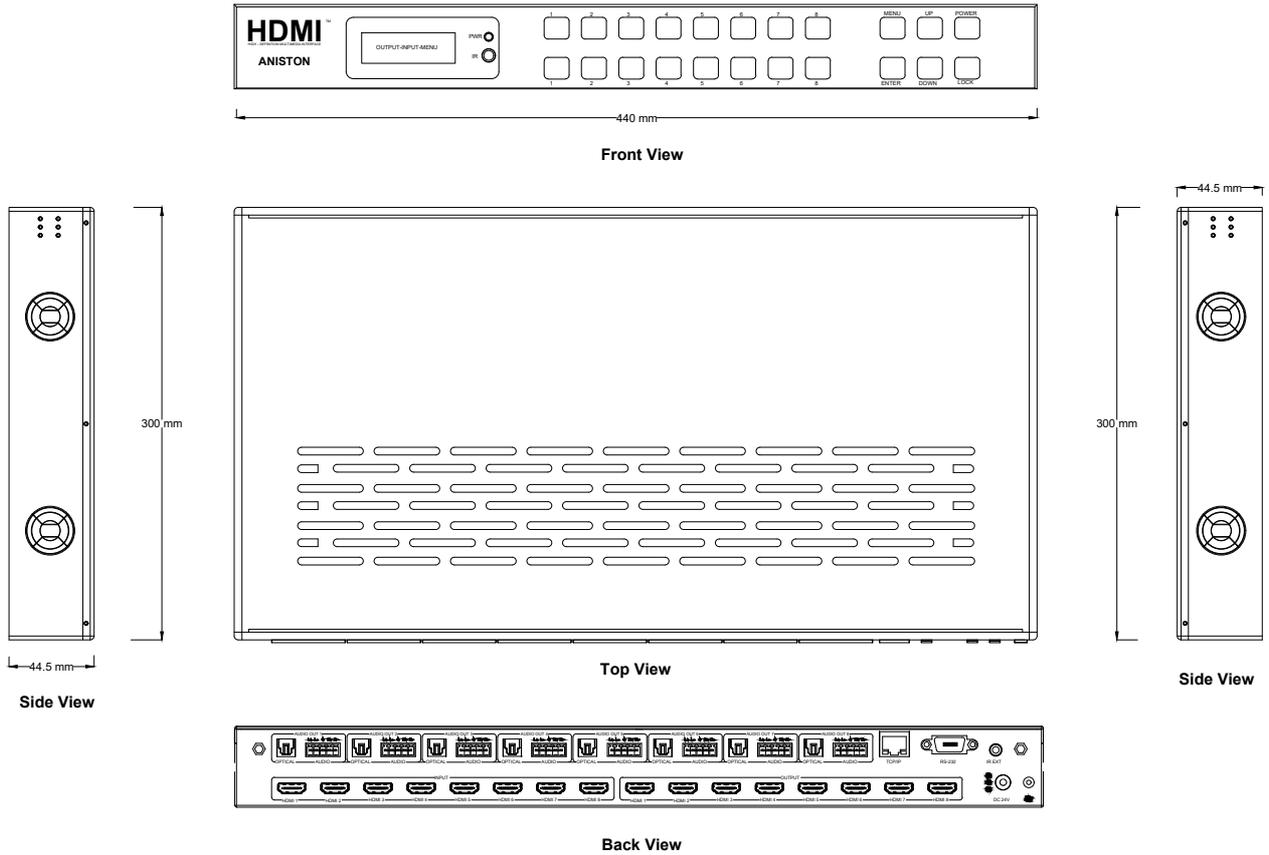
### FEATURES

- 8x8 HDMI 2.0 Matrix Switching**  
 Routes any of 8 HDMI input sources to any of 8 HDMI outputs with full crosspoint flexibility and independent control.
- 4K@60Hz (4:4:4) Video Support**  
 Handles uncompressed Ultra HD resolutions up to 3840x2160p @ 60Hz with 18Gbps bandwidth and full color fidelity.
- HDR10, HDR10+, Dolby Vision, HLG**  
 Supports the latest High Dynamic Range formats for enhanced contrast, brightness, and color performance.
- Seamless Switching Technology**  
 Enables fast, glitch-free transitions between inputs with no black screen or image loss—ideal for live applications.
- Advanced EDID Management**  
 Includes 12 pre-configured EDID modes, 2 userdefined profiles, and 8 EDID copy options for optimal source compatibility. Create 1x8, 2x2, 2x3, 4x2 layouts with bezel correction; save/recall 8 presets (Web GUI/RS-232).
- Audio Matrix Routing with Extraction**  
 Extracts audio independently via 8x L/R balanced analog and 8x optical SPDIF outputs. Supports Audio Bind to Input, Bind to Output, or full Matrix Mode.
- Individual Output Scaling & Control**  
 Set resolution, color space (RGB/YUV), HDCP version, and horizontal/vertical mirror mode per output.
- Multi-Format Audio Support**  
 Supports LPCM, Dolby Digital/Plus, Dolby True HD, DTS/HD Master Audio, and more for professional-grade AV integration.
- Control via Multiple Interfaces**  
 Operate using front panel buttons, built-in IR receiver, external IR, RS-232 commands, or built-in Web GUI over TCP/IP.



**TECHNICAL SPECIFICATIONS**

Product Name	MatrixOne-88 Elite
Model Number	MX1-88E
Matrix Type	8x8 Full Crosspoint HDMI Matrix Switcher
HDMI Version Compliance	HDMI 2.0b
HDCP Version Compliance	HDCP 2.2 / HDCP 1.4
Video Bandwidth	18 Gbps total (pixel clock up to ~600 MHz)
Maximum Supported Resolution	Up to 3840x2160p @ 60Hz, 4:4:4
Color Depth Support	8-bit, 10-bit, 12-bit
Color Space Support	RGB, YC b Cr 4:4:4 / 4:2:2 / 4:2:0
HDR Format Support	HDR10, HDR10+, Dolby Vision, HLG
HDMI Inputs	8 x HDMI Type-A, 19-pin female
HDMI Outputs	8 x HDMI Type-A, 19-pin female
Analog Audio Outputs	8 x Balanced L/R via 5-pin Phoenix connectors
Digital Audio Outputs	8 x Optical S/PDIF ( Toslink )
Audio Matrix Modes	Bind to Input / Bind to Output / Matrix Mode
Supported Audio Formats	LPCM, Dolby Digital/Plus, Dolby True HD, DTS, DTS-HD MA, DSD
Video Switching	Seamless switching without frame loss
Independent Output Scaling	Supported - per-output downscaling (e.g., 4K→1080p)
Output Mirror Modes	H-Mirror / V-Mirror / HV Mirror / Off
HDCP Handling Modes	Follow Source / Follow Sink / Force HDCP 1.4 / Force HDCP 2.2
EDID Modes	12 Preset / 2 User-defined / 8 Copy-from-Output
EDID Configuration	Front Panel / Web GUI / RS-232
Control Interfaces	Front Panel, IR (built-in + external), RS-232, TCP/IP
Web Interface	Embedded Web GUI - Matrix Routing, EDID, Audio, Video Wall, System
RS-232 Port	1 x D-Sub 9-pin female (baud selectable)
LAN Port	1 x RJ45 (Web GUI / Telnet / DHCP / Static IP)
IR Control	Internal Receiver + 3.5mm External IR Port (Wideband 20-60KHz)
CEC Support	Supported on all HDMI inputs and outputs
Preset Memory	8 Presets - Save/Recall via Web GUI or RS-232
Video Wall Support	Custom layouts (1x8, 2x2, 2x3, 4x2, etc.) with bezel correction
Background Output Options	Black / Blue / Color Bars / Crosshatch / Grayscale / Cross (single-line)
LCD Display	OLED Status Display with navigation buttons
Audio Control	Enable/Disable, Routing, Volume Adjust (via Web GUI)
Chassis Type	Metal enclosure, 1U rackmount
Power Supply	Power Input DC 24 V (via external 100-240 V AC adapter)
Firmware upgrade via USB	Yes
Firmware upgrade through Ethernet	Yes
Front to back cooling	Yes
Power Input	100-240V AC, 50/60Hz
Power Consumption	≤ 70W
Dimensions (W x D x H)	440 x 300 x 44.5 mm (1U)
Net Weight	3.95 kg
Operating Temperature	0°C - 40°C (32°F to 104°F)
Storage Temperature	-20°C - 60°C (-4°F to 140°F)
Relative Humidity	20% to 90% RH (non-condensing)
Warranty	3 years (optional extension to 5 years).



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