Matrox® **Mura DVW**



Seamless, scalable, synchronized video walls.

Matrox® Mura DVW is a high-performance, IP-based 4K distributed video wall appliance that lets you combine multiple units to easily create a fully synchronized video wall of any size and rectangular layout. Mura DVW integrates advanced computing, networking, video decoding, graphics processing to deliver seamless visual experiences with maximum security. Each Mura DVW appliance also includes integrated video wall management applications, simplifying deployment and operation. Mura DVW supports high-density, flexible decoding of H.265 (HEVC) and H.264 (AVC) video streams, as well as web applications, dashboards, images, and branding assets. It is also fully TAA compliant.

Key features and benefits.

Perfect video synchronization
Drive up to 64 4K synchronized displays, or 256 full HD when combined with Matrox QuadHead2Go, from a range of sources and eliminate tearing by synchronizing DVW appliances together using IP-based PTP framelocking. With Mura DVW's built-in Best Master Clock Algorithm (BMCA), facility-wide synchronization across Mura DVW appliances can be achieved when a PTP Grandmaster is present.

High performance video wall
Each Mura DVW appliance supports high-density IP stream decoding—handling up to one 8K60, six 4K60, twelve 4K30, eighteen 1080p60, forty 1080p30 and seventy-two 720p30 H.264/H.265 4:2:0 streams simultaneously. Output is supported across up to four 4K60 HDMI displays per device, ensuring smooth, ultra-high-resolution playback.

High quality desktop content
Leverage the HEVC 4:4:4 codec to deliver full-color depth for maximum image quality and system compatibility. This advanced compression enables low-bitrate transmission of visually rich content over IP—ideal for applications demanding color accuracy, compression efficiency, and high performance. Mura DVW also supports widely used codecs like H.264 and H.265 in 4:2:0 format, ensuring seamless integration with most modern COTS equipment.

Simple and serverless
Lower deployment costs by reducing additional hardware, dedicated server, and cabling requirements. Mura DVW streamlines video wall deployment by eliminating the need for a separate server and the additional complexity and cost of running a server. By integrating video wall management applications directly into the appliance, Mura DVW simplifies installation and operation. MuraConfig and MuraControl provide administrators and operators with a complete environment to configure, deploy, monitor, and control video walls from virtually any modern web browser.

Global EDID management
Maintain reliable display operation with global EDID management. Pin an EDID profile to a video wall to preserve display parameters even if an output is temporarily disconnected or a display is not physically present, helping ensure consistent wall behavior and faster recovery from connectivity interruptions.

Control with confidence
MuraControl enhances day-to-day operations with Live Preview capabilities, allowing operators to remotely preview active IP video and web sources directly from the control interface.

Integrated web source browser
Display live web content directly on the video wall—including dashboards, maps, Office 365 applications, and YouTube streams—without requiring an external server. The enhanced integrated web source browser simplifies deployment while expanding the range of dynamic web-based content that can be securely displayed and managed. Operators can also seamlessly browse, control, and interact with web-based content on the video wall using keyboard and mouse functionality for a more responsive and intuitive user experience.

Robust, built-in security
All communication is encrypted and uses secure protocols like HTTPS, authenticated RTSP, and SRT. User authentication is required for all access and control, while hardware-level encryption ensures no data can be extracted from the device. Powered by a custom-built, locked-down Matrox OS, the system minimizes attack surfaces by tightly controlling software components. Regular vulnerability scans and updates ensure resilience against evolving threats.

Long product lifecycle and dedicated support
Benefit from a product longevity of ten years and dedicated customer support. Your product carries a two-year warranty and has an available extended three-year warranty to ensure maximum protection.



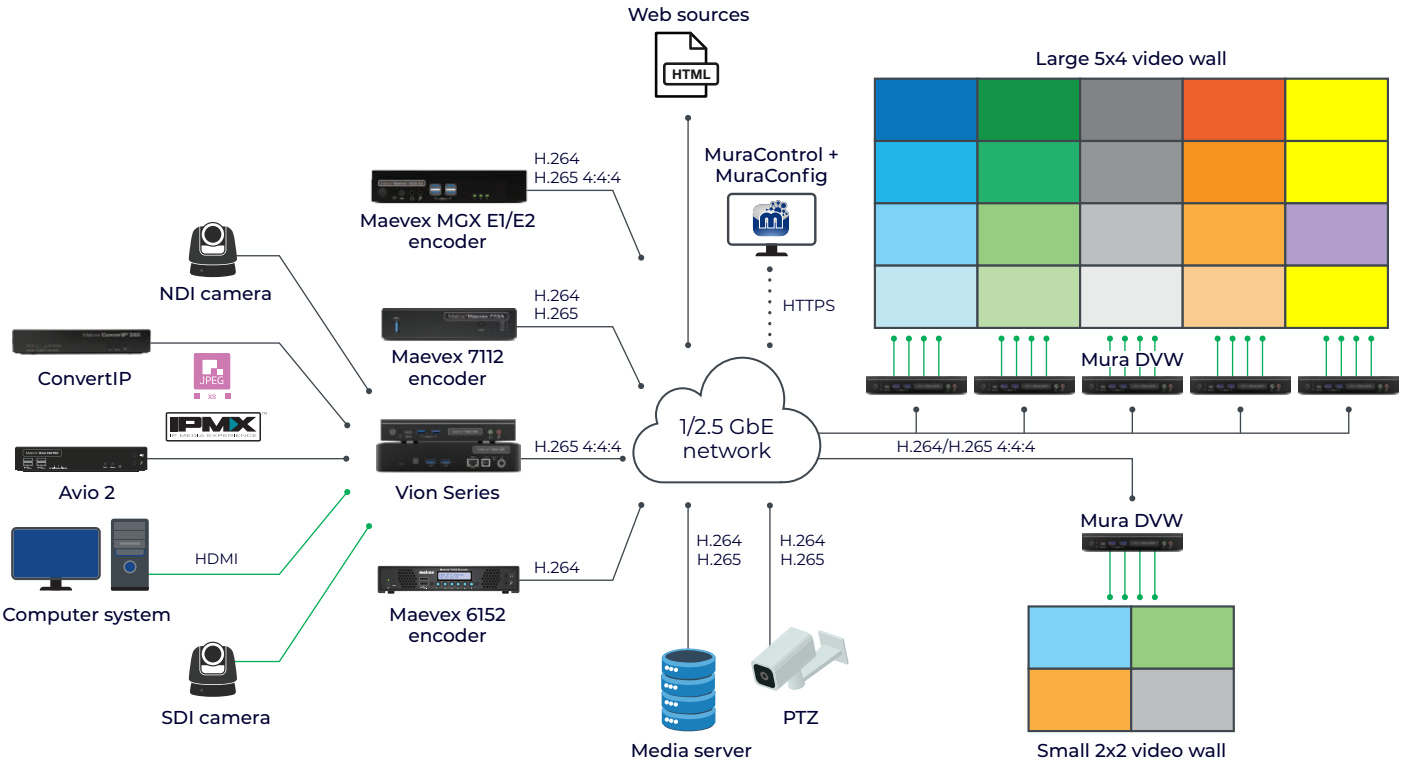
Matrox **MuraConfig**



Matrox **MuraControl**

Perfectly seamless, scalable video walls.

Display perfectly synchronized streams from a range of sources, including PTZ cameras, encoders, media servers, and web. Mura DVW video walls are flexible and scalable, enabling you to build fully distributed video walls of any size with performance that improves as you add more Mura DVW units to your setup.



Appliance overview



Matrox Mura DVW (front view)



Matrox Mura DVW (back view)

Matrox MuraConfig.

With the Matrox MuraConfig web-based installation and configuration tools, you can quickly install and configure your video wall on any device from any location. Use MuraConfig to:

- Discover and configure distributed wall devices
- Configure wall topology and display arrangements
- Manage synchronization and display settings
- Monitor system health and device status
- Centralize firmware and system management
- Access multilingual interfaces with support for English, French, German, Italian, and Spanish

Matrox MuraControl.

Matrox MuraControl provides an intuitive, browser-based interface that makes it easy to create, manage, and operate video wall layouts. Use MuraControl to:

- Create and manage video wall layouts
- Compose multi-source content on the canvas
- Preview IP video and web sources in real time
- Interact with web-based content remotely
- Deploy and switch layouts on demand

Technical specifications

Product	Mura DVW
Part number	· **DVW-Q4KY-NA** (Canada/US power cord) · **DVW-Q4KY-EU** (European Union power cord) · **DVW-Q4KY-UA** (UK and Au/Nz power cord)
Cooling	· Dual ball bearing fan
Connectors	· 4x HDMI outputs with locking mechanism · 2.5 and 1GbE[1] RJ45 ethernet
Maximum output resolutions	· Max. 4096x2160@60Hz
Form factor	· Standalone appliance, · 1U, ½ rack (horizontal)
Network interface	
Standard	· Ethernet 10/100/1000/2.5G base-T, auto-detect, half/full-duplex
Connector	· RJ45
IP version	· IPv4/IPv6
Distributed method	· Unicast, multicast and multiple unicast
IP addressing	· DHCP (default) and Static IP
Streaming & control protocols	
Streaming protocols	· RTSP, SRT, MPEG2-TS
Command & control protocols	· Telnet and HTTPS
Color space	
Pixel formats	· RGB: 8:8:8, 10:10:10[1] (24/32 bits per pixel) · YUV: 4:4:4, 4:2:0 (8/10[1] bits per component), color space conversion support
Video & audio processing	
Video compositing	· Multi-channel video composite/key/blend/crop/mirror/flip
Audio	· Future software feature
Video decoding	
Codec engine	· H.264/MPEG-4 Part 10 (AVC), up to level 5.2, 4:2:0 8-bit · H.265 (HEVC), up to level 6.2, 4:2:0 and 4:4:4 8-bit
H.264 and H.265 decode	· For both H.264 and H.265, 4:2:0 8-bit, displayed across four 4K60 monitors: 1x 8K60, 6x 4K60, 12x 4K30, 18x 1080p60, 40x 1080p30, 34x 720p60, 72x 720p30
Rate control	· Constant bitrate (CBR), variable bitrate (VBR), VBR with constraints, configurable GOP (group of pictures) structure
Environmental & power conditions	
Operating conditions	· Temperature: 0 to 40[3] degrees Celsius · Humidity: 10% to 90% non-condensing
Storage conditions	· Temperature: -20 to 70 degrees Celsius · Humidity: 20% to 80% non-condensing
Typical power consumption	· 45W (12-19V)
Power supply	· 19V, 90 Watt PSU with locking mechanism
General specifications	
Dimensions	· L: 19cm (7.48in) x W: 14.8cm (5.83in) x H: 3cm (1.18in)
Rackmount	· VESA mount bracket included, rackmount compatible
Regulatory compliance	· Class A: FCC, CE, RCM, ICES-003, KC, UKCA
Environment compliance	· RoHS, China RoHS, REACH, WEEE
Warranty	· 2 years[2]
Accessories (sold separately)	
RMK-19TRNXDW-A	· Rack-mount shelf kit with pre-attached airflow guide, designed to fit up to two Matrox Vion NX and/or Mura DVW units in a 1RU rack space.

1. *Coming soon.*
2. *Extended warranty available.*
3. *Units mounted side-by-side in a rack require proper ventilation and a maximum ambient temperature of 30°C for optimal performance. We recommend using the "RMK-19TRNXDW-A" for rack installation.*

Contact Matrox Video

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