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, and graphics processing to deliver seamless visual experiences with maximum security. Mura DVW supports high-density, flexible decoding of H.265 (HEVC) and H.264 (AVC) video streams, as well as HTML5 web pages and dashboards. It is also fully TAA compliant.

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Key features and benefits

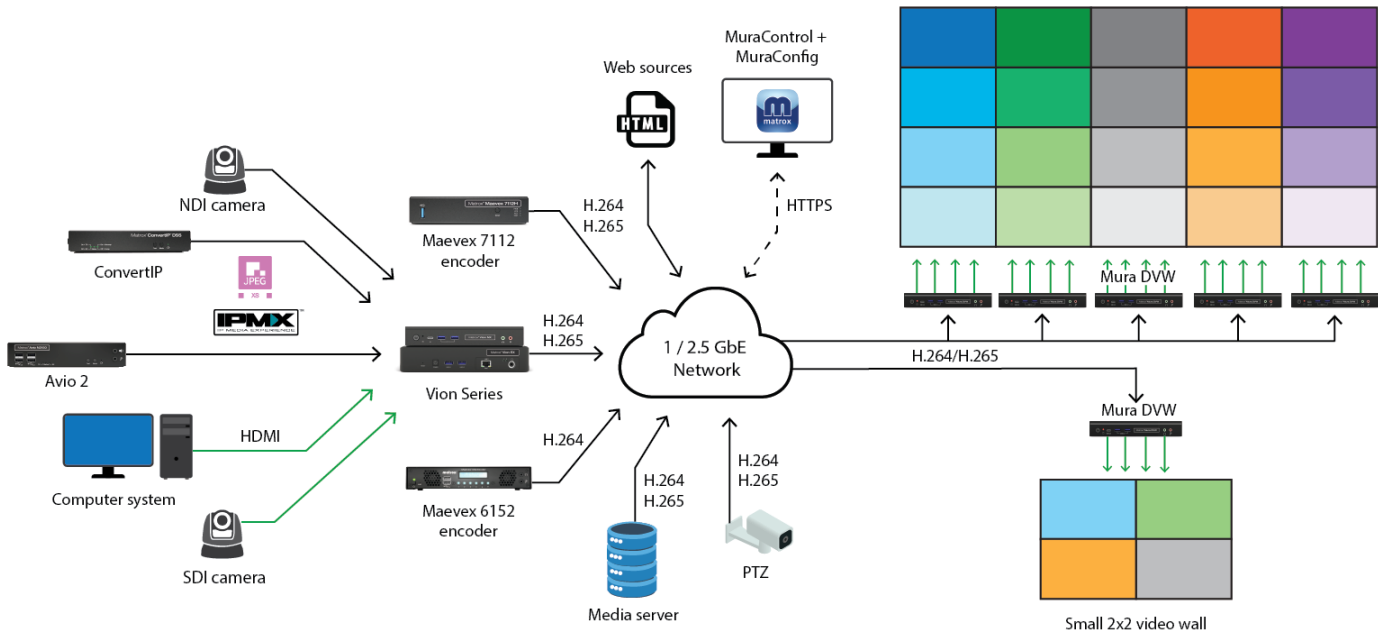|	
Perfect video synchronization	Drive up to 64 4K synchronized displays, or 256 full HD when combined with Matrox QuadHead2Go, from a range of sources and eliminate tearing by synchronizing DVW appliances together using IP-based PTP framelocking. With Mura DVW's built-in Best Master Clock Algorithm (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, thirty-four 1080p30 or 720p60 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 further simplifies your video wall deployment by eliminating the need for a separate server and the additional complexity and cost of running a server.
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.
Control with confidence	Get up and running quickly using software you're familiar with. The Matrox Network API (NetAPI) simplifies development by providing you with a single development for both traditional Matrox-based video walls and the new distributed video walls. Quickly install and configure your video wall on any device from any location with the MuraConfig complimentary web-based installation and configuration application.
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.

Appliance overview

Matrox Mura DVW (front view)

Matrox Mura DVW (back view)
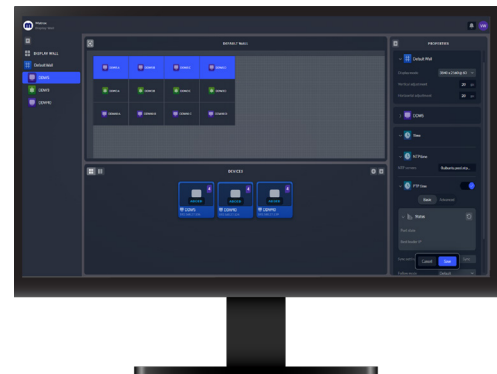
Perfectly seamless, scalable video walls

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.

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:

- Automatically discover devices
- Set device-specific settings
- Configure your wall and bezels
- Check PTP status and configuration

Matrox MuraControl

Matrox MuraControl provides an intuitive, browser-based interface that makes it easy to create, manage, and operate video wall layouts. Users can take full control of their video wall with features such as:

- Effortless AV stream management with drag-and-drop window control
- Flexible layout design to arrange, resize, and reorder content windows on the canvas
- Custom text overlays to label or annotate any window with relevant information
- Integrated system control to streamline deployment and simplify daily operations
- Centralized access from a familiar, browser-based environment—no software installation required environment

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
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, 34x 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	Vesamount 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]

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.

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