Matrox® **Mura DVW**
Seamless, Scalable, Synchronized Video Walls

Matrox® Mura DVW is a high-performance IP-based 4K distributed video wall appliance that enables you to combine multiple units to easily create a fully synchronized video wall of any size and rectangular arrangement. Mura DVW integrates advanced computing, networking, video decoding, and graphical processing capabilities to deliver seamless visual experiences with maximum security. Mura DVW video walls are flexible and scalable, enabling you to build fully distributed video walls with performance that improves as you add more appliances. Each Mura DVW appliance supports incredibly high-density and flexible decoding—up to one 8K60, four 4K60, eight 4K30, sixteen 1080p60 streams—all in H.265 (HEVC) or H.264 (AVC). Mura DVW is fully TAA compliant.

matrox video—

Key features and benefits

Perfect video synchronization	Drive up to 64 4K synchronized displays and eliminate tearing by synchronizing DVW appliances together using IP-based PTP framelocking.
HEVC 4:4:4 codec	Get the full color (4:4:4) depth needed for maximum image quality, along with maximum equipment compatibility, and ensure low-bitrate transmission of high-quality content over IP.
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.
Effortless installation	Quickly install and configure your video wall on any device from any location with the MuraConfig complimentary web-based installation and configuration application.
Advanced performance	Transport high-quality content with minimal bandwidth and achieve video-over-IP interoperability with a wide range of H.264- and H.265-compatible devices. The more Mura DVW appliances you add, the more performance scales.
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. Also, easily create and manage your distributed video wall layouts offline or in real time using Matrox MuraControl™ software for Windows®.
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.

Simple installation

With the 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
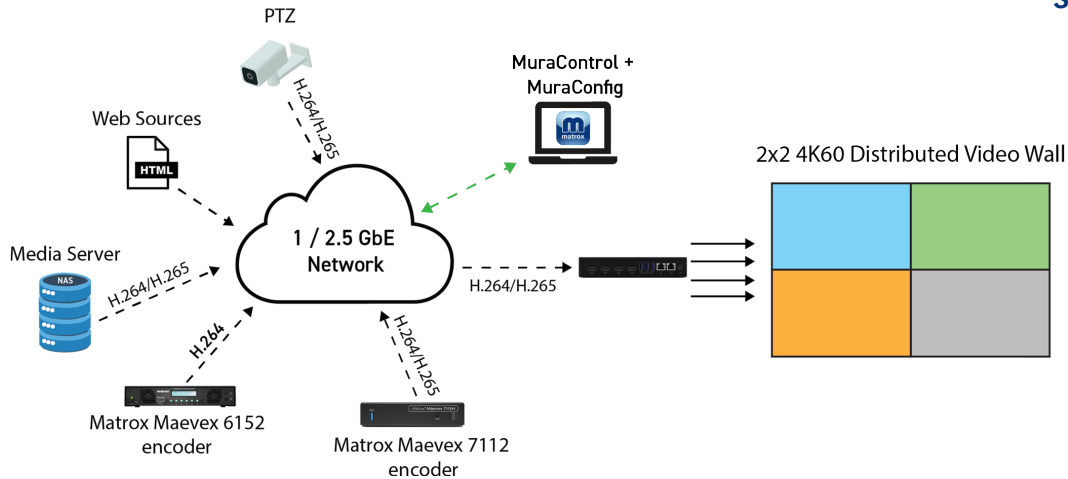- Customize the application
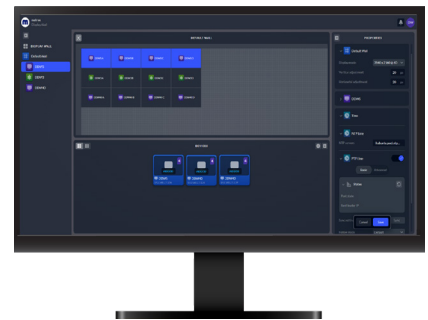
High-quality desktop content with H.265 4:4:4 codec

Thanks to the H.265 4:4:4 codec, Mura DVW allows you to get the full color depth needed for maximum image quality and maximum equipment compatibility. H.265 4:4:4 ensures low-bitrate transmission of high-quality content over IP critical for applications that require color accuracy, compression efficiency, and high performance.
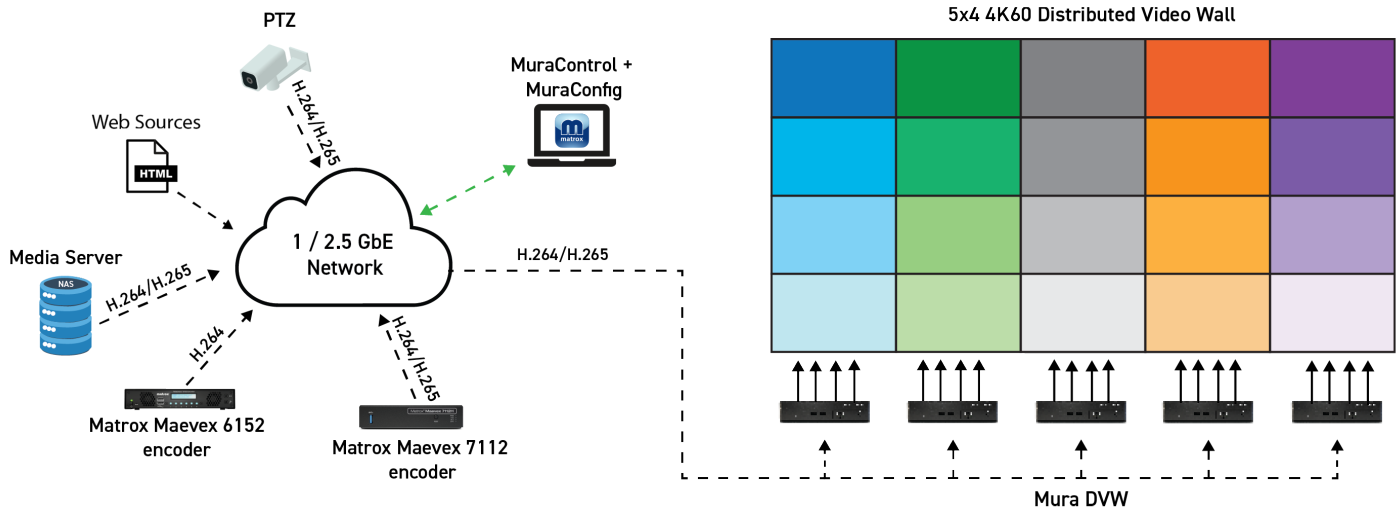
Perfectly seamless, scalable video walls

Display perfectly synchronized streams from a range of sources, including PTZ cameras, encoders, media servers, and web. Mura distributed video walls are flexible and scalable, enabling you to build the video wall you need with up to 64 4K outputs.
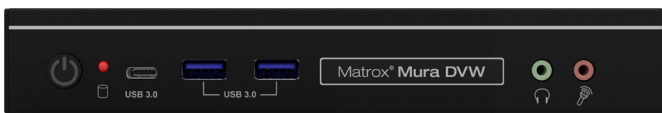
Small video wall

PTZ

Web Sources

HTML

Media Server

NAS

H.264/H.265

H.264

H.264/H.265

H.264/H.265

MuraControl +
MuraConfig

1 / 2.5 GbE
Network

H.264/H.265

2x2 4K60 Distributed Video Wall

Matrox Maevex 6152
encoder

Matrox Maevex 7112
encoder

Large video wall

PTZ

Web Sources

HTML

Media Server

NAS

H.264/H.265

H.264

H.264/H.265

H.264/H.265

MuraControl +
MuraConfig

1 / 2.5 GbE
Network

H.264/H.265

5x4 4K60 Distributed Video Wall

Matrox Maevex 6152
encoder

Matrox Maevex 7112
encoder

Mura DVW

Appliance overview

USB 3.0   USB 3.0   Matrox® Mura DVW

Matrox Mura DVW (front view)

HDMI™ OUT 1   HDMI™ OUT 2   HDMI™ OUT 3   HDMI™ OUT 4   USB 3.0   LAN 2   LAN 1   19V === 4.74A

Matrox Mura DVW (back view)

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 cords)
Cooling	Low-noise dual ball bearing fan
Connectors	Four HDMI outputs with locking mechanism, 2.5 and 1GbE 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
HDCP compliance	Yes[1]

Video Decoding

Codec engine	H.264/MPEG-4 Part 10 (AVC), up to level 5.2 H.265 (HEVC), up to level 6.2
H.264 and H.265 decode	For both H.264 and H.265: 1x 8K60, 2x 8K30, 4x 4K60, 8x 4K30, 16x 1080p60
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
Environment compliance	EU RoHS
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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