A 360° Revolution in Video Walls

World-Class Portfolio of Hardware, Software, and Developer Tools for Any Video Wall Requirement

Highest Density with the Smallest Footprint • Dynamic System Scalability
Market-Leading Image Quality • Customizable Software Solutions • Powerful Video Processing

The revolution in video walls starts here: Matrox video wall products deliver industry-leading density and the highest image quality on the market. Building on 40 years of technological innovation and industry-specific expertise, we supply dynamic system scalability capabilities, powerful video processing, intuitive software applications, and a variety of API and SDK tools for personalized deployments. Future-proof and backwards compatible, our 360-degree solutions evolve with your changing needs.

matrox.com/graphics
A 360° Revolution in Video Walls
World-Class Hardware, Software, and Developer Tools for Any Video Wall Requirement

Video wall deployments pose different challenges depending on dimension, resolution, connectivity, and application requirements. Matrox offers a 360° approach, delivering a comprehensive range of hardware and software products designed to meet any video wall project requirement. Ideal for AV and system integrators and OEMs looking to create small-scale systems for digital signage, conference or classroom presentations, or medium-sized and large multi-board configurations for security, traffic management, or control rooms, Matrox video wall products offer the most reliable, scalable, industry-tested architecture available.

Highest Density with the Smallest Footprint

Matrox provides a wide range of single-slot multi-functional input and/or output boards and multi-monitor controllers that give you the high-density connections you need with the smallest footprint—streamline your integration process using less hardware components and reduce cost and maintenance.

Dynamic System Scalability

Fully compatible Matrox products allow mixing and matching to build video walls to the scale required; it’s simple to add more components to a system as capture, encoding, streaming, decoding, and display demands evolve. Matrox AV-over-IP products are based on open-standard H.264 codec technology for complete interoperability with not only Matrox products—IP-based or not—but virtually all browsers, devices, computers, tablets, and networks to create even larger, collaborative ecosystems.

We create products with end-to-end perspective in mind—all pieces are backwards compatible, thus protecting your investments, and built on the universal codec to future proof your system as your needs change.

Baseband Video Walls
Integrate multiple Mura MPX cards and get universal input support on up to 56 synchronized outputs.

Networked Video Walls
Combine Mura IPX with C-Series or Mura MPX cards to gain network connectivity and build small- and large-scale video walls.

Scalable Video Walls
Combine C-680 or third party graphics with multiple QuadHead2Go multi-monitor controllers to build large-scale video walls.
Market-Leading Image Quality

Our hardware and software portfolio delivers the best streaming image quality on the market today. Matrox excellence is integrated in our products down to their very algorithms; you can see the difference with higher-quality images available at lower bitrates, whether it’s fast-moving video content or the smallest copy details on a Microsoft® Excel® chart.

10 bit YUV 4:4:4

Highest Image Quality

RGB 10-bit and YUV 4:4:4 offerings are unmatched by any competitor.

Color Depth Options

Class-leading color details ensure only the highest quality output for your video walls; we can deliver deep 32-bit color, as well as 24-bit true color based on your needs.

Customizable Software Solutions

Matrox offers a complete range of video wall software, SDKs, and libraries that allow OEMs and developers to deploy intuitive, ready-to-use software or build custom interfaces and applications. Whatever the installation requirement, Matrox provides the necessary toolkit to create end-to-end solutions and continues to support existing APIs with new releases to protect your investments in the long term.

Matrox PowerWall™ & MuraControl™ Software

are designed to make video wall management easier. Offering an intuitive way to manage your video walls remotely; the Matrox PowerWall™ and MuralControl™ software are customizable with the white-labeling option for a personalized user interface.

Network API

grants users command-level access to build custom capture, streaming, and display video wall applications using Telnet, RS-232, and/or HTTP/HTTPS.

Matrox VWLib API & DWC API

provides C/C++ code for building custom capture, display, and stream video wall applications. The VWLib API makes use of DirectX® under Windows and OpenGL® under Linux®.

Software Development Kits

<table>
<thead>
<tr>
<th>Hardware</th>
<th>DirectShow Support</th>
<th>Matrox Network API</th>
<th>Matrox VWLib API</th>
<th>Matrox DWC API</th>
<th>Matrox QuadHead2Go REST API</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mura IPX Capture Series + Mura MPX</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Mura IPX Capture Series + C-Series1</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Mura IPX Capture Series + Third-party2</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Mura IPX Decode &amp; Display Card3</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>QuadHead2Go Series</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

1. C420 not supported. 2. See release notes for details on which brands, models, and configurations are supported. 3. Currently, this card works as a standalone multi-viewer, not requiring any operating system on the GPU host system to function.

Matrox software also provides the flexibility to incorporate other products into your video wall installation. We give you room to tailor a solution to your exact specifications, using the components you know and trust.

DirectShow-Supported Software

enables your pre-existing DirectShow applications to function with Matrox hardware.

Third-Party Interoperability

with AMD®, Intel®, and NVIDIA® means you benefit from flexible hardware integration.

Operating System Options

allow for working in Windows- or Linux-based platforms, whichever your preference.

1 Non-Windows® operating systems coming soon
Powerful Video Processing

From huge installations to smaller-scale set-ups, striking video walls demand attention. Execute your vision with our advanced multi-functional processing capabilities, giving you the power and flexibility to incorporate smooth, high-fidelity post-production effects in your video wall designs and layouts.

Personalized Compositing
Create alpha blending, color key, crop, rotation, mirror, and flip effects to ensure all visuals are of the highest standard.

Customized Animations & Transitions
Apply eye-catching animations and transitions, including movement and compositing, on windows showing local and external content. Multiple transitions can be combined to create an endless variety of complex, striking effects.

Compatibility Within the Same System

<table>
<thead>
<tr>
<th></th>
<th>Mura IPX 4K Capture Cards</th>
<th>Mura MPX Series</th>
<th>Matrox C-Series¹</th>
<th>QuadHead2Go</th>
<th>Third-Party Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mura IPX 4K Capture Cards</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Mura MPX Series</td>
<td>✔</td>
<td>✔</td>
<td>X</td>
<td>✔</td>
<td>X</td>
</tr>
<tr>
<td>C-Series¹</td>
<td>✔</td>
<td>X</td>
<td>✔</td>
<td>✔</td>
<td>●</td>
</tr>
<tr>
<td>Third-Party Graphics</td>
<td>✔</td>
<td>X</td>
<td>●</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>QuadHead2Go Series</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

✓ Currently compatible. X Not compatible. ● Third-party graphics can only be used as console display in C-Series-based systems. ¹ C420 not supported.

<table>
<thead>
<tr>
<th></th>
<th>Mura IPX 4K Capture Cards + C-Series Graphic Cards¹</th>
<th>Mura IPX 4K Capture Cards + Mura MPX Series</th>
<th>Mura IPX Decode &amp; Display Card</th>
<th>Mura IPX 4K Capture Cards + Third-Party Graphics</th>
<th>QuadHead2Go Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows</td>
<td>All 64-bit Professional®, Standard®, Embedded®, and Server® versions of Microsoft Windows 7, and Windows 10</td>
<td>Windows Embedded Standard 7 (64-bit), Windows 7 Professional (64-bit), Windows 7 Professional for Embedded Systems (64-bit), Windows Server 2008 R2 (64-bit)</td>
<td>Currently, this card works as a standalone multi-viewer, not requiring any operating system on the CPU host system to function</td>
<td>All 64-bit Professional, Standard, Embedded, and Server versions of Microsoft Windows 7 and Windows 10</td>
<td>This product works independently of the source’s operating system</td>
</tr>
<tr>
<td>Linux</td>
<td>✔</td>
<td>X</td>
<td></td>
<td>✔</td>
<td></td>
</tr>
</tbody>
</table>

✓ Currently compatible. X Not compatible. ¹ C420 not supported.

For comprehensive details on all our product lines, please visit matrox.com/graphics to view datasheets for Mura IPX Series, Mura MPX Series, C-Series and QuadHead2Go Series.