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.

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

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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 to 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.

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.

MuraControl™ Software deploys right out of the box, providing intuitive management of all baseband and network-connected AV sources, sources, cards, and local applications. White-labelling options offer re-branding opportunities for personalized user interfaces.

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®.

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.

<table>
<thead>
<tr>
<th>Hardware</th>
<th>DirectShow Support</th>
<th>Matrox Tablet SDK (Android/iOS)</th>
<th>Matrox Network API</th>
<th>Matrox VWLib API</th>
<th>Matrox DWC API</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matrox Mura IPX Capture Series + Mura MPX</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Matrox Mura IPX Capture Series + C-Series¹</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Matrox Mura IPX Capture Series + Third-party²</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Mura IPX Decode &amp; Display Card³</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</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 CPU host system to function.

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.

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.

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.

1 Non-Windows® operating systems coming soon
## Compatibility Within the Same System

<table>
<thead>
<tr>
<th>Mura IPX 4K Capture Cards</th>
<th>Mura MPX Series</th>
<th>Matrox C-Series</th>
<th>Third-Party Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Mura MPX Series</td>
<td>✓</td>
<td>✓</td>
<td>×</td>
</tr>
<tr>
<td>Matrox C-Series</td>
<td>✓</td>
<td>×</td>
<td>✓</td>
</tr>
<tr>
<td>Third-Party Graphics</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>Windows</th>
<th>Mura IPX 4K Capture Cards</th>
<th>Mura IPX 4K Capture Cards</th>
<th>Mura IPX Decode &amp; Display Card</th>
<th>Mura IPX 4K Capture Cards + Third-Party Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>C-Series Graphic Cards</td>
<td>Mura MPX Series</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>✓</td>
<td>✓</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>
</tr>
<tr>
<td></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 for Embedded Systems (64-bit), Windows Server 2008 R2 (64-bit)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linux</td>
<td>✓</td>
<td>X</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, and C-Series.

## The Matrox Advantage

Matrox has earned its reputation as an industry leader through 40 years of continuous innovation. Our in-house design expertise, top-to-bottom manufacturing, and dedicated customer support make our solutions the premier choice in industries that require high-reliability products. We build true partnerships with our customers by meeting your evolving needs over multiple product generations.

### Enhanced Value

Ensure low cost of implementation by building a video wall from compatible, reliable components. Your investments are protected by long product life cycles and world-class support.

### Universal Interoperability

We deliver comprehensive interoperability with Matrox and third-party H.264 products, providing freedom and flexibility to expand your systems as needs evolve. Compatibility with third-party graphics providers AMD, Intel, and NVIDIA means you benefit from interoperable components validated in Matrox systems. Our products also work on Windows- and Linux-based operating systems.

### Trusted Matrox Quality

Engineered, built, and supported by Matrox—consistently meeting demands for industry-leading technology and the highest manufacturing standards.

### Direct Customer Support

Our dedicated technical support team of highly skilled engineers help you solve problems quickly, with pre- and post-sale support, developer support, and integration assistance.

### Strong Partner Relationships

We pride ourselves on fostering solid relationships with our hardware, software, services, and commercial partners. Have a specific idea in mind? Contact our sales team and let’s work together to build a solution.