

# MATROX® VIDEO VIDEO WALL PRODUCTS



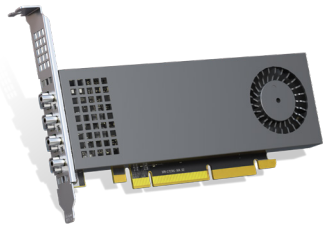
## Matrox® LUMA Pro Series Drive Multi-Display 8K HDR Desktop Applications

Drive two 8K displays—or two 5Kp120 displays—or up to four synchronized high-resolution displays or projectors from a single Matrox® LUMA Pro Series graphics cards. Designed and built for reliability, stability, and ease of deployment, these PCI Express® 4.0 x8 boards are ideal to power demanding IP-based video wall systems and digital signage applications in commercial and critical environments. OEMs, system integrators, AV installers, and developers can also benefit from a complete range of software, APIs, SDKs, and libraries to create custom control functions and applications for any multi-display installation. TAA-compliant SKUs are available. Matrox LUMA Pro Series is powered by Intel® Arc™ graphics.

# Key features and benefits

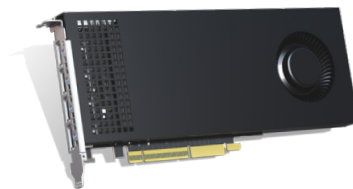
<b>8Kp60 HDR support</b>	Be 8K HDR ready and power up to two synchronized high-resolution displays from a single LUMA Pro Series card.
<b>5K resolution support</b>	Power up to two 5Kp120 or four 5Kp60 displays from a single LUMA Pro Series board.
<b>DisplayPort™ 2.1</b>	Deliver the best display density, resolution, and performance for demanding multi-monitor applications with PCIe® 4.0 x8 cards featuring four Mini DisplayPort dual-mode (DP++) connectors and supporting DVI/HDMI passive adapters*.
<b>Synchronized video outputs</b>	Drive up to sixteen synchronized 5k displays and reduce tearing by framelocking up to four LUMA Pro Series cards with the included board-to-board framelock cables—and save slot space as a separate card isn't needed for the synchronization. Drive up to 64 Full HD displays by pairing LUMA Pro Series with multiple Matrox QuadHead2Go multi-monitor controllers.
<b>HDCP compliant</b>	Display protected content, or capture and display protected content, when paired with Matrox Mura IPX Series capture cards.
<b>Low-profile form factor</b>	Install low-profile LUMA Pro Series cards in a wide range of small form factor and full-height systems, and use only a single slot—thanks to their low-profile design.
<b>Long product lifecycle and Dedicated support</b>	Benefit from a product longevity of five years and dedicated customer support. Your product carries a three-year warranty and has an available extended warranty to ensure maximum protection.
<b>Custom control</b>	Manage your video walls with the intuitive Matrox MuraControl™ software or develop custom functions and applications for any video wall installation using the complete range of APIs, SDKs, and libraries.
<b>TAA compliant SKU available</b>	Integrated design, engineering, and manufacturing based in a TAA-designated country for guaranteed quality and reliability.

## DisplayPort boards to drive powerful IP-based video walls



**LUMA A310FP**







Low-profile PCIe Gen4 x16 (x8 electrical) quad-output graphics card delivers increased performance for small form factor systems.



**LUMA A380P**

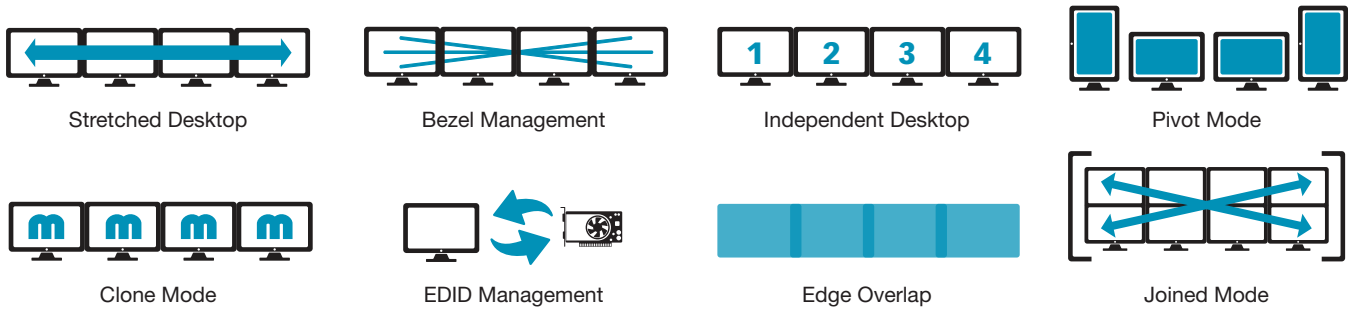
Standard height single slot PCIe Gen4x 16 (x8 electrical) quad-output graphics card delivers the best display density, resolution, and performance for demanding multi-monitor applications.

## Applications

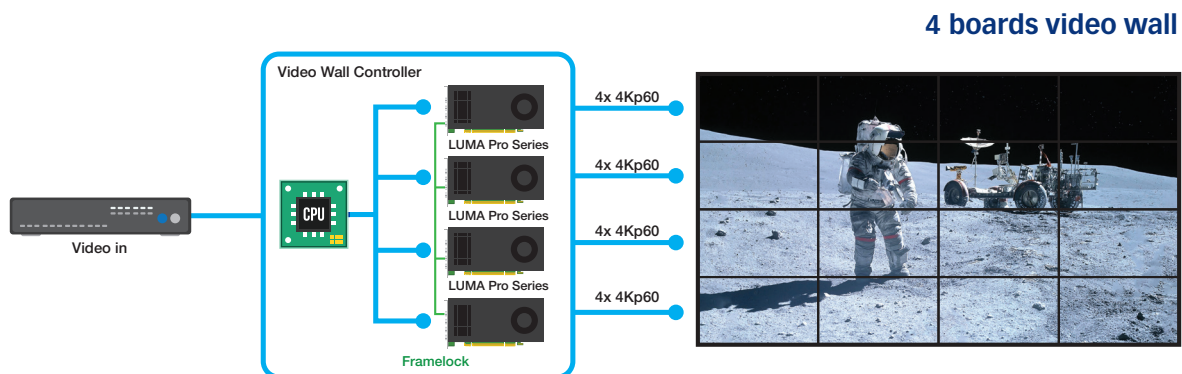
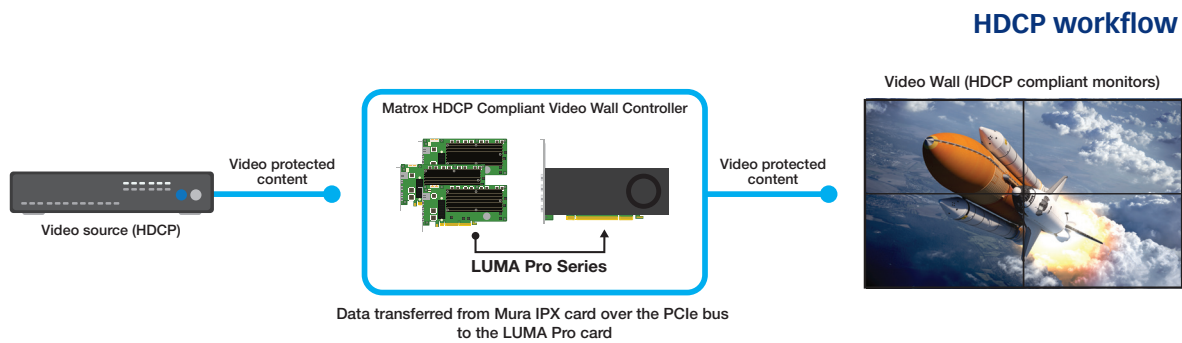
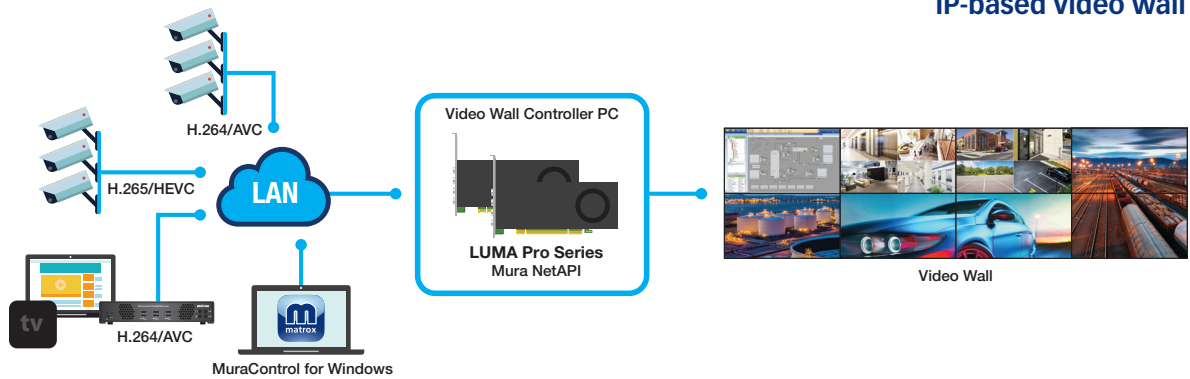
 Retail	 Education	 Industrial
 Commercial Gaming	 Healthcare	 Transportation

# Matrox PowerDesk software and API

Leverage the stability of PowerDesk software to quickly configure enterprise-wide multi-monitor deployments. PowerDesk offers a comprehensive set of tools to easily deploy and control a variety of display configurations. Create your custom multi-monitor desktop/output management software with the PowerDesk API.



## Workflows



# Technical specifications

Product	LUMA A310FP	LUMA A380P
Part number	LUMA-A310FP	LUMA-A380P
Bus type	PCIe 4.0 x16 (x8 electrical)	PCIe 4.0 x16 (x8 electrical)
Number of video outputs	4	4
Video output connectors	4x Mini DisplayPort (secure)	4x DisplayPort
DisplayPort specification	2.1 UHBR10	2.1 UHBR10
Maximum number of cards in a system	4	4
<b>Performance</b>		
Maximum resolution	2x 8K60/5K120 or 4x 5K60 HDR 12b	2x 8K60/5K120 or 4x 5K60 HDR 12b
Bit depth and color space	<ul style="list-style-type: none"> <li>Up to 36 bpp (Bits per Pixel)               <ul style="list-style-type: none"> <li>YCbCR 4:4:4</li> <li>YCbCR 4:2:0</li> <li>RGB</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Up to 36 bpp (Bits per Pixel)               <ul style="list-style-type: none"> <li>YCbCR 4:4:4</li> <li>YCbCR 4:2:0</li> <li>RGB</li> </ul> </li> </ul>
Memory	4GB GDDR6	6GB GDDR6
GPU	Intel® Arc™ A310	Intel® Arc™ A380
Multi-stream audio	High-Definition audio streams on four digital ports simultaneously	
<b>Additional features</b>		
DisplayPort features	VESA DSC 1.1, and Adaptive Sync	
HDCP compliance	2.3	2.3
Board-to-board framelock	✓	✓
Supported graphics API	DirectX 12 Ultimate, OpenGL 4.6, OpenCL 3.0, Vulkan 1.3, oneAPI, OpenVINO™	
Hardware video encode/decode	H264/H265/AV1/VP9	
<b>Environmental &amp; Power consumption</b>		
Cooling	Active	
Power consumption	50W	75W
Operating temperature	0 to 45 °C (32 to 113°F)	
<b>Hardware</b>		
Form factor	Low Profile Single Slot	Standard Height Single Slot
Dimensions	Length: 16.76 cm (6.6") Height: 6.86 cm (2.7")	Length: 25.38 cm (9.99") Height: 12.68 cm (4.99")
Bracket	Standard Height (Mounted) Low Profile (in the box)	Standard Height
<b>Environmental &amp; Power consumption</b>		
Regulatory compliance	FCC (US) Class B, CE (European Union) Class B, RCM (Australia/New Zealand) Class B, KC (Korea) Class B, ICES-3 (Canada) Class B, UKCA (United Kingdom) Class B	
Environmental compliance	EU RoHS, China RoHS, REACH	
Warranty	3 years	3 years
<b>Software &amp; API</b>		
Matrox PowerDesk for Windows	✓	✓
Mura Developer tools	✓	✓
Operating systems	Windows 10/11	
System requirements	Single available PCIe 3.0 (or newer) x8 slot, Resizable BAR (reBAR) or Smart Access Memory (SAM)	
<b>Accessories (sold separately)</b>		
Mini DisplayPort to DisplayPort adapter	CAB-MDP-DPF	—
Secure cable solution	SK-SLNB-4	—

\* Restriction may apply. Contact your Matrox Video representative for more information.

## Contact Matrox Video

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