

MATROX® VIDEO VIDEO WALL PRODUCTS



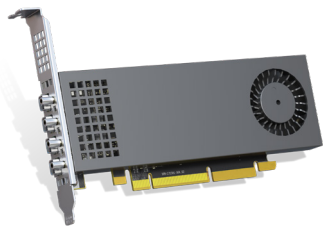
Matrox® LUMA Pro Series Drive Multi-Display 8K HDR Desktop Applications

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

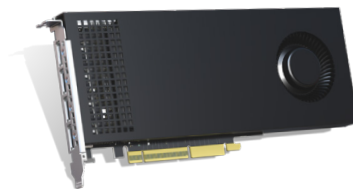
8Kp60 HDR support	Be 8K HDR ready and power up to two synchronized high-resolution displays from a single LUMA Pro Series card.
5K resolution support	Power up to two 5Kp120 or four 5Kp60 displays from a single LUMA Pro Series board.
DisplayPort™ 2.1	Deliver the best display density, resolution, and performance 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.*
Synchronized video outputs	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.
HDCP compliant	Display protected content, or capture and display protected content, when paired with Matrox Mura IPX Series capture cards.
Low-profile form factor	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.
Long product lifecycle and dedicated support	Benefit from a product longevity of seven years and dedicated customer support. Your product carries a three-year warranty and has an available extended warranty to ensure maximum protection.
Custom control	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.
TAA compliant SKU available	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

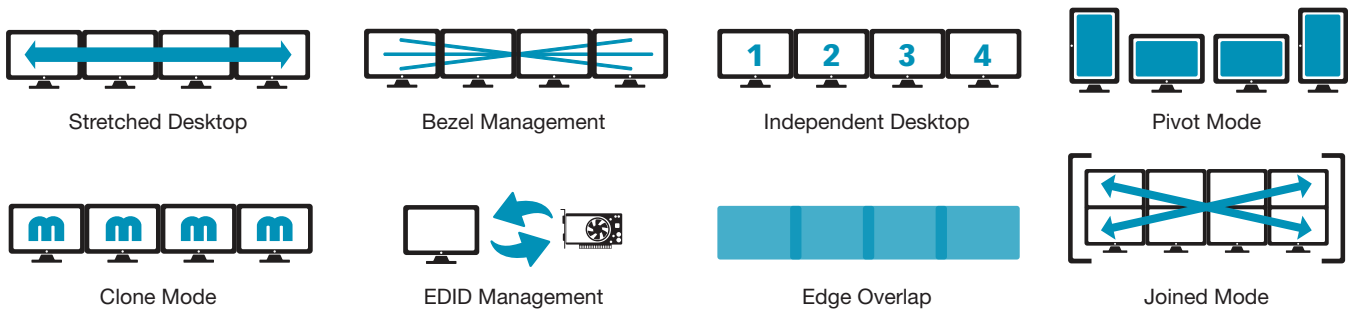
Standard height single slot PCIe® Gen4x 16 (x8 electrical) quad-output graphics card delivers the best display density, resolution, and performance for demanding multi-monitor applications.

Applications

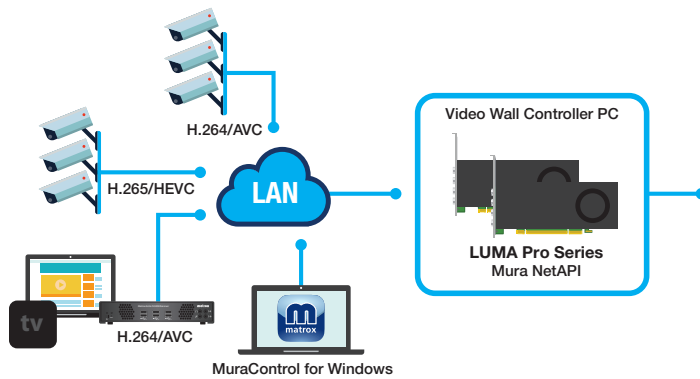
 Retail	 Education	 Industrial
 Commercial Gaming	 Healthcare	 Transportation

Matrox PowerDesk software and API

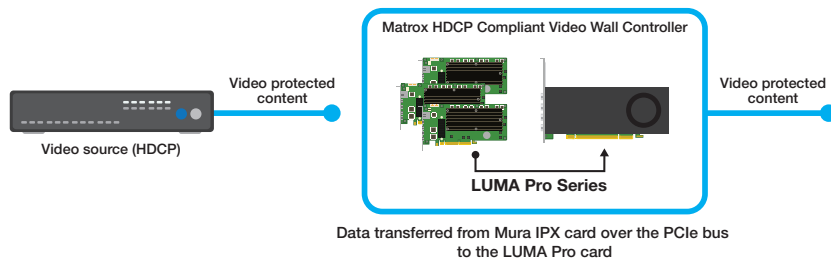
Leverage the stability of PowerDesk software to quickly configure enterprise-wide multi-monitor deployments. PowerDesk offers a comprehensive set of tools to easily deploy and control a variety of display configurations. Create your custom multi-monitor desktop/output management software with the PowerDesk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



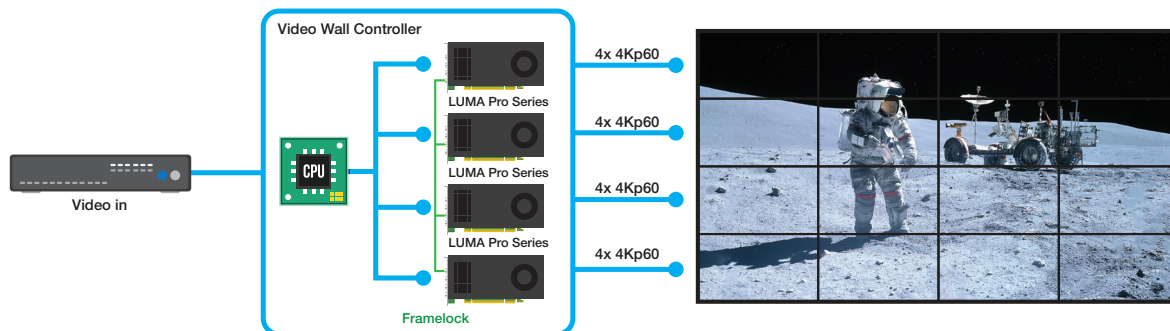
Workflows



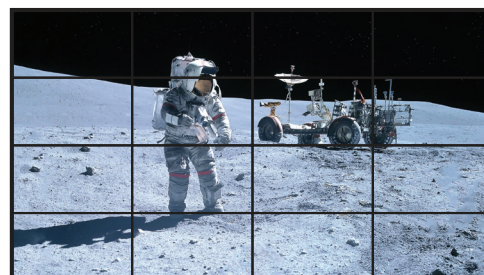
IP-based video wall



HDCP workflow



4 board video wall



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
Performance		
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"> Up to 36 bpp (Bits per Pixel) <ul style="list-style-type: none"> YCbCR 4:4:4 YCbCR 4:2:0 RGB 	<ul style="list-style-type: none"> Up to 36 bpp (Bits per Pixel) <ul style="list-style-type: none"> YCbCR 4:4:4 YCbCR 4:2:0 RGB
Memory	4GB GDDR6	6GB GDDR6
GPU	Intel® Arc™ A310	Intel® Arc™ A380
Multi-stream audio	High-definition audio streams on four digital ports simultaneously	
Additional features		
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	
Environmental & Power consumption		
Cooling	Active	
Power consumption	50W	75W
Operating temperature	0 to 45 °C (32 to 113°F)	0 to 45 °C (32 to 113°F)
Hardware		
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
Environmental & Power consumption		
Regulatory compliance	FCC (US) Class A, CE (European Union) Class A, RCM (Australia/New Zealand) Class A, KC (Korea) Class A, ICES-3 (Canada) Class A, UKCA (United Kingdom) Class A	
Environmental compliance	EU RoHS, China RoHS, REACH	
Warranty**	3 years	3 years
Software & API		
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)	
Accessories (sold separately)		
Mini DisplayPort to DisplayPort adapter	CAB-MDP-DPF	—
Secure cable solution	SK-SLNB-4F	—

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

** Extended two-year warranty available.

Contact Matrox Video

Montreal Headquarters: 1-800-361-4903 (North America), 514-822-6364 (Worldwide) | video@matrox.com

London Office: +44 (1895) 827300

Munich Office: +49 89 62170-444



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