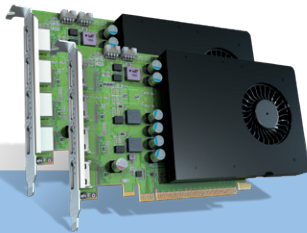


# Video Walls that are Worth the View



## Matrox® D-Series Graphics Cards

- Advanced capabilities
- HDCP compliant
- Proven video wall ecosystem
- Custom control

# Matrox D-Series Graphics Cards

## Video walls that are worth the view.

Purpose-built to drive next-generation video walls, Matrox® D-Series graphics cards power up to four synchronized 4Kp60 displays from a single graphics board. Designed to ensure excellent reliability, stability, and ease of deployment, the D-Series quad-monitor PCI Express® x16 boards are ideal to power video walls for a wide range of commercial and critical 24/7 video wall applications, including control rooms, enterprises, industries, government, military, pro AV, digital signage, security, and more. As part of the Matrox video wall portfolio, D1480 also offers a complete range of video wall software, APIs, SDKs, and libraries, allowing OEMs, system integrators, AV installers, and developers to create custom control functions and applications for any video wall installation.

### Matrox D-Series HDMI & DisplayPort cards

Full-height, Gen 3 PCIe® x16 four-output graphics cards with four native HDMI® or DisplayPort™ connectors deliver the best display density, resolution, and performance for demanding multi-monitor applications.



*D-Series D1450 - Quad HDMI graphics card*



*D-Series D1480 - Quad DisplayPort graphics card*



### Advanced capabilities

- Drive up to four high resolution displays (HDMI or DisplayPort).
- Experience smooth video playback and graphics performance with up to 4 GB of graphics memory.
- Drive up to 16 synchronized displays and reduce tearing by framelocking up to four D-Series cards together using board-to-board framelock cables—also save slot space as a separate card is not needed for the synchronization.
- Run the latest professional applications with its support for Microsoft® DirectX® 12, OpenGL® 4.5, and OpenCL™ 1.2.
- Prevent loose cabling with secure connectors.



### HDCP compliant

- Display HDCP-protected content with D-Series graphics cards.
- Capture and display of HDCP-protected content on video walls by coupling D-Series with Matrox Mura IPX capture cards.



### Proven video wall ecosystem

- Add best-in-class, multi-channel 4K capture, encode, decode, and display capabilities by combining D-Series with Matrox Mura IPX capture cards.
- Drive up to 64 1920x1080p60 displays by pairing D-Series with multiple Matrox QuadHead2Go™ multi-monitor controllers.
- Create artistic video walls by pairing D-Series with multiple QuadHead2Go multi-monitor controllers.



### Custom control

- Customize your setup with the easy-to-use Matrox PowerDesk™ desktop management software.
- Deploy tailor-made display configurations including stretched or independent desktops, clone mode, pivot, bezel management, edge overlap, and more.
- Easily manage your video walls with the intuitive Matrox MuraControl™ software.
- Develop custom functions and/or personalized applications using the Matrox video wall APIs, SDKs, and libraries.

# Matrox PowerDesk software

The robust, field-proven Matrox PowerDesk desktop management software for Windows lets you easily configure and manage multi-display setups. It offers professional clients a comprehensive set of tools to deploy and control a variety of display configurations.



### Stretched Desktop

Create an ultra-large desktop to expand a single application across all screens.



### Independent Desktop

Set displays independently from one another to open different applications within each screen.



### Clone Mode

Duplicate content to show the same information on all displays.



### Edge Overlap

Adjust the number of overlapping pixels between edge-blending projectors to build a seamless, unified image.



### Bezel Management

Compensate for the physical space created by monitor bezels to output a continuous image across multiple displays.



### Pivot Mode

Select any combination of portrait or landscape and set the orientation that works best for you.



### EDID Management

Provide consistent EDID signal to the graphics card to ensure video is displayed correctly.

## Diverse video wall configurations

Matrox D-Series supports numerous types of video walls and helps you create the optimal setup for every need. With a single card you can power four-monitor video walls to deliver high-impact configurations. By combining four cards, you can build larger 16-monitor video walls, or create even larger scale video walls by pairing the D-Series cards with the Matrox QuadHead2Go multi-monitor controller cards or appliances.



View critical information across an expansive configuration

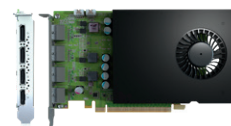


Combine with Matrox QuadHead2Go to build large-scale video walls

# Technical specifications



D-Series 1450 -  
Quad HDMI graphics card



D-Series D1480 -  
Quad DisplayPort graphics card

Product		
Part number	D1450-E4GB	D1480-E4GB
Bus type	PCIe 3.0 x16	
Video output connectors	4x HDMI	4x DisplayPort 1.4
Number of video outputs	4 per card	
Maximum number of cards in a system	4	
Performance		
Maximum resolution	4x 4096x2160 @ 60Hz	4x 5120x3200 @ 60Hz
Memory	4 GB GDDR5	
GPU	NVIDIA®	
Additional features		
HDCP compliance	Yes	
Board-to-board framelock	Yes	
Supported graphics standards	DirectX® 12.0, OpenGL® 4.5, OpenCL™ 1.2	
Multi-stream audio	4 audio streams (through HDMI)	4 audio streams (through DisplayPort)
Independent desktop mode	Yes	
Stretched desktop mode	Yes	
Clone mode	Yes	
Pivot mode	Yes	
EDID management	Yes	
Bezel management	Yes	
Edge overlap	Yes	
Environmental & power consumption		
Cooling	Active	
Power consumption	50 W	
Operating Temperature	5 to 55°C (41 to 131°F) near board ambient	
Hardware		
Dimensions	With bracket, fansink, and secure cable solution: Length: 7.928" (20.137cm), Height: 4.999" (12.697cm) PCB only: Length: 6.600" (16.764cm), Height: 4.376" (11.115cm)	
Regulatory compliance class	Class A	Class B
Regulatory compliance	FCC (US), CE (European Union), RCM (Australia/New Zealand), KC (Korea), ICES-3 (Canada)	
Environmental compliance	EU RoHS, China RoHS, REACH	
Warranty	3 years	
Software & APIs		
Matrox PowerDesk for Windows	Yes	
Operating systems	Microsoft® Windows® 10 (64-bit), Microsoft Server 2016, and Windows Server 2019	
System requirements	Single available PCIe x16 slot, 4 GB of system memory	
Accessories (sold separately)		
Board-to-board framelock cable	Yes (p/n: CAB-FL-F)	
Secure cable solution	Yes (p/n: SK-SLNC-4)	N/A (built-in DisplayPort connector)

## Contact Matrox

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