

Scalable. Flexible. Easy-to-Deploy Video Walls.



Matrox® QuadHead2Go™ Series Multi-Monitor Controllers

- Complete flexibility
- HDCP compliant
- Ease of deployment
- Custom control

QuadHead2Go Series

Scalable. Flexible. Easy-to-Deploy Video Walls.

Matrox® QuadHead2Go™ multi-monitor controllers make building dynamic, next-generation video walls of any type and size simple. Available in both appliance and single-slot PCIe® card forms, each QuadHead2Go unit can drive a single DisplayPort™ or HDMI® video source across up to four displays, in classic rectangular or artistic configurations. Multiple QuadHead2Go appliances or cards can be used together to easily scale up to a video wall of any possible dimension and complexity.

The included Matrox PowerWall™ software meanwhile offers an intuitive and feature-rich interface to effortlessly customize configurations and control the display outputs independently, in either offline or online mode. The Matrox QuadHead2Go REST API is also available for integrators and developers looking to create custom functions and applications.



Complete flexibility

- Drive up to four pristine quality Full HD displays from a single video signal—of up to 4Kp60 and 8Kx8K—at full RGB 8:8:8 and YUV 4:4:4 color support.
- Create a video wall from any content source, including professional graphics cards and integrated GPUs, video wall controllers, digital signage players, media players, decoders, laptops, NUCs, set-top boxes, gaming consoles, and more.
- Design modern and artistic video wall layouts with free rein—each output can have its own resolution, be independently rotated (90, 180, and 270 degrees), cropped, upscaled, downscaled, and positioned anywhere.
- Fashion countless forms of setups—arrange displays in 4x1, 1x4, 2x2, 3x1, 1x3, 2x1, or 1x2 rectangular configurations, in portrait or landscape, or other non-rectangular/artistic configurations—and combine/scale them to create large-scale video walls.



HDCP compliant

- Capture and display HDCP-protected content with QuadHead2Go multi-monitor controllers.



Proven video wall ecosystem

- Drive up to 64 1920x1080p60 displays by pairing multiple QuadHead2Go controllers with Matrox D-Series graphics cards.
- Create artistic video walls by pairing QuadHead2Go controllers with D-Series graphics cards.



Ease of deployment

- Simplify installation with guaranteed out-of-the-box plug and play when using the default configuration of 2x2 in landscape—set up without installing software or even connecting a video source.
- Design any custom configuration/array with the intuitive Matrox PowerWall software.
- Ensure compatibility with professional-grade graphics cards and media players with native DisplayPort™ 1.2 or HDMI® support.
- Eliminate physical handling by controlling and updating the units remotely from anywhere on the network (LAN).
- Use the on-device buttons to select and set the display layout by cycling through pre-set configurations*—there is no need to install software when using a pre-set configuration.
- Set up display positions, fine-tune bezels, and troubleshoot with ease, by accessing the built-in or pre-saved images directly from the appliance, together with display identification information that includes the ID number and the resolution of each output.

As easy as 1-2-3



Connect using DP 1.2 or HDMI input and 4 HDMI outputs



Configure using on-device buttons or the Matrox PowerWall software



Deploy

Software and API/SDK

Matrox PowerWall

Matrox PowerWall video wall design software takes the guesswork out of creating and deploying large-scale video wall installations. Included with Matrox QuadHead2Go multi-monitor controllers, PowerWall enables you to set up your devices in three quick steps—create, discover, and deploy.



Control of your video wall is at your fingertips

Key features

- Set up all your QuadHead2Go devices at the same time
- Create a printable schematic of your configuration
- Position, upscale, downscale, rotate, clone, crop outputs as desired
- Create, edit, save, or delete configurations and/or images at will
- Work online or in offline mode
- Control and fine-tune bezels using the pre-set images available on the products
- Locate devices effortlessly over the network using DHCP or Static IP address
- Operate on Microsoft® Windows® 10

Customize applications

- Develop custom functions and applications using the QuadHead2Go REST API.
- Rebrand the Matrox PowerWall software for quick and complete integration by OEMs using the white-label solutions.

Dynamic and scalable configurations



Fine-tune bezels for seamless image displays

Rotate and position outputs independently from one another



Use multiple QuadHead2Go units (appliances or cards) to easily create and/or expand large-scale video wall solutions

Technical specifications - QuadHead2Go

	QuadHead2Go Q185 appliance	QuadHead2Go Q185 card	QuadHead2Go Q155 appliance	QuadHead2Go Q155 card
Product				
Part number	Q2G-DP4K	Q2G-DP4K-C	Q2G-H4K	Q2G-H4K-C
Product type	1 input and 4 outputs			
Form factor	Appliance	PCIe® x16 mechanical, 1x electrical (power only)	Appliance	PCIe® x16 mechanical, 1x electrical (power only)
Input connector (video & audio support)	1x DisplayPort 1.2	1x Mini DisplayPort 1.2	1x HDMI	1x Mini HDMI
Max input resolutions	3840x2160 @60Hz, 3840x2160 @30Hz, 7680x1080 @60Hz, 7680x1080 @30Hz, 1920x4320 @60Hz, 1920x4320 @30Hz Other input resolutions including 8Kx8K are supported. Contact Matrox for more details.			
Output connectors (video & audio support)	4x HDMI	4x Mini HDMI	4x HDMI	4x Mini HDMI
Max output resolutions	1920x1080 @60Hz, 1920x1080 @30Hz, 1920x1200 @60Hz, 1920x1200 @30Hz Other output resolutions are supported. Contact Matrox for more details			
Configurations				
Out-of-box supported configurations	2x2 (default), 4x1, 3x1, 2x1, 1x2, 1x3, 1x4, Clone in both landscape and portrait modes and other non-rectangular/artistic configurations			
Rotation	Yes			
Multi-unit support	Yes			
Bezel management	Yes			
Clone mode	Yes			
HDCP support	Yes			
Video & audio processing				
Video scaling	Matrox's advanced multi-channel Video Scaling Engine			
Video cropping	Yes			
Audio format	AAC, PCM, Stereo, and Mono			
Audio sampling rate	44.1 KHz and 48 KHz, 16-bit stereo			
Control & update protocols				
Control interface	1 x 10/100/1000 Base-T RJ45 Ethernet port			
IP version / IP addressing	Version: IPv4/IPv6*, Addressing: DHCP (default) and Static IP			
Command & control protocols	HTTP/HTTPS			
Firmware update	Via network interface			
Color space				
Input color space	RGB: 8:8:8 (24 bits per pixel) YUV: 4:4:4, 4:2:2 (8-bits per component)		RGB: 8:8:8 (24 bits per pixel) YUV: 4:4:4, 4:2:2, 4:2:0 (8-bits per component)	
Output color space	RGB: 8:8:8 (24 bits per pixel)			
Environmental & power consumption				
Operating conditions	Temperature: 0 to 45°C/ 32 to 113°F, Humidity: 20% to 80% (non-condensing)			
Power supply	100-240 VAC in, 12 VDC out, 42 W DIN4 locking power connector	None (power from the system)	100-240 VAC in, 12 VDC out, 42 W DIN4 locking power connector	None (power from the system)
Maximum power consumption	15 W			
Hardware				
Dimensions (WxHxD)/weight	5.50 x 1.25 x 7.21 in (13.97 x 3.18 x 18.31 cm) / 494 g	0.85 x 5.00 x 6.21 in (2.16 x 12.70 x 15.77 cm) / 170 g	5.50 x 1.25 x 7.21 in (13.97 x 3.18 x 18.31 cm) / 494 g	0.85 x 5.00 x 6.21 in (2.16 x 12.70 x 15.77 cm) / 170 g
Regulatory / environmental compliance	Regulatory: EMC Class A: FCC (US), ICES-3 (Canada), CE (European Union), KC (Korea), RCM (Australia/New Zealand) Environmental: EU RoHS, China RoHS, REACH			
Warranty	3 years			
Accessories	Rackmount Kit (RMK-19TR-A) VESA bracket (RMK-6BRKT-A) Secure Cable Solution (SK-Q2G-A)	Secure Cable Solution (SK-SLNB-6)	Rackmount Kit (RMK-19TR-A) VESA bracket (RMK-6BRKT-A) Secure Cable Solution (SK-Q2G-A) Secure Cable Solution (SK-SLND-4)	Secure Cable Solution (SK-SLNB-6)
Software				
Matrox PowerWall	Yes. Free software available online. See Matrox PowerWall datasheet for more details.			
Matrox QuadHead2Go REST API	Yes. Available for application development. Contact Matrox for more details.			
Accessories				
NRG Redundant Power Supply	NRG-5-1DB: Rack tray with one NRG RPSU pre-installed			
	NRG-5-2DB: Rack tray with two NRG RPSU pre-installed			

* IP version 6 support coming soon. Please view Release Notes for latest updates or contact Matrox for more details

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