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

Matrox® **QuadHead2Go™ Series**
Multi-Monitor Controllers

- Complete flexibility
- Ease of deployment
- Custom control

matrox®

QuadHead2Go Series
Scalable. Flexible. Easy-to-Deploy Video Walls.

Leveraging decades of distinctive expertise and innovation in multi-display solutions, Matrox introduces its most recent breakthrough: the Matrox® QuadHead2Go™ Series multi-monitor controllers.

Capable of driving four displays from one signal, the QuadHead2Go multi-monitor controllers are available in both system-independent appliance and single-slot card forms, providing convenient deployment options, and complete video wall scalability and flexibility. QuadHead2Go is designed to power any video wall configuration of any possible dimension, from any video source—reliably delivering flawless image quality across expansive video wall displays. QuadHead2Go's on-device buttons and pre-set configurations ensure an out-of-the-box, trouble-free installation experience.

The included Matrox PowerWall™ software offers an intuitive and feature-rich interface to effortlessly configure the latest emerging, artistic, and innovative video walls, making installations as easy as 1-2-3.

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.
- Expand to a video wall configuration of any size by using multiple QuadHead2Go units.
- 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, captivating video walls.

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).
- Select and set the display layout by cycling through pre-set configurations* using an on-device button—there is no need to install software when using a pre-set configuration.
- Set up display positions, fine-tune bezels, and also 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

* Pre-set configurations can be customized.

Software and API/SDK

Matrox PowerWall

Matrox PowerWall is an advanced yet easy-to-use management software included with Matrox QuadHead2Go that makes video wall deployments simple and efficient.

Control of your video wall is at your fingertips

Key features

- 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

Or

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-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.			

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