

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

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 configurations¹—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

¹ Pre-set configurations can be customized.

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.

- 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

Product	QuadHead2Go Q185 appliance	QuadHead2Go Q185 card	QuadHead2Go Q155 appliance	QuadHead2Go Q155 card
Part number	• Q2G-DP4K	• Q2G-DP4K-C	• Q2G-H4K2	• Q2G-H4K-C
Form factor	• Appliance	• PCIe® x16 mechanical, x1 electrical (power only)	• Appliance	• PCIe® x16 mechanical, x1 electrical (power only)
Connectivity				
Video input	• 1x DisplayPort 1.2	• 1x Mini DisplayPort 1.2	• 1x HDMI	• 1x Mini HDMI
Video output	• 4x HDMI	• 4x Mini HDMI	• 4x HDMI	• 4x Mini HDMI
Network connector	• 1x RJ45			
Multi-unit support	• Yes			
Performance				
Maximum video resolutions	• Support for custom resolutions; contact Matrox for details.			
Memory	• 1 GB			
Video 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.			
Video output resolutions	• 1920x1080@60Hz, 1920x1080@30Hz, 1920x1200@60Hz, 1920x1200@30Hz Other output resolutions are supported. Contact Matrox for more details.			
Color space and chroma sub-sampling	• Input: RGB: 8:8:8 (24 bits per pixel), YUV: 4:4:4, 4:2:2 (8 bits per component) • Output: RGB: 8:8:8 (24 bits per pixel)		• Input: RGB: 8:8:8 (24 bits per pixel), YUV: 4:4:4, 4:2:2, 4:2:0 (8 bits per component) • Output: RGB: 8:8:8 (24 bits per pixel)	
Video & audio processing				
Supported configurations	• 2x2 (default), 4x1, 3x1, 2x1, 1x2, 1x3, 1x4 in both landscape and portrait modes and other non-rectangular/artistic configurations			
Non-rectangular/artistic video walls	• Yes			
Clone mode	• Yes			
Rotation (output)	• Yes. Support for 90, 180, 270 degrees			
Bezel management	• Yes			
Video scaling	• Yes			
Video cropping	• Yes			
Stretched desktop support	• Yes			
HDCP support	• Yes			
Audio output format	• PCM, Stereo, and Mono			
Audio sampling frequency	• 44.1 KHz and 48 KHz, 16-bit stereo			
Network				
IP addressing	• IPv4, IPv6*, DHCP (default) and static IP *IPv version 6 support coming soon. Please view Release Notes for latest updates or contact Matrox for more details			
Physical				
Product dimensions	• 5.50 (W) x 1.25 (H) x 7.13 (D) in 13.97 (W) x 3.18 (H) x 18.11 (D) cm	• 0.85 (W) x 5.00 (H) x 6.21 (D) in 2.16 (W) x 12.70 (H) x 15.77 (D) cm	• 5.50 (W) x 1.25 (H) x 7.13 (D) in 13.97 (W) x 3.18 (H) x 18.11 (D) cm	• 0.85 (W) x 5.00 (H) x 6.21 (D) in 2.16 (W) x 12.70 (H) x 15.77 (D) cm
Unit weight	• 1.089 lbs / 494 g	• 0.375 lbs / 170 g	• 1.089 lbs / 494 g	• 0.375 lbs / 170 g
Cooling	• Fanless			
Power supply unit	• 100-240 V a.c. in, 12 V d.c. out, 42 W • DIN4 locking power connector	—	• 100-240 V a.c. in, 12 V d.c. out, 42 W • DIN4 locking power connector	—
Hardware & software				
Hardware included	• 4 x 6 feet power cables for US, EU, UK, Aus/Nz • 1x 12 V, 3.5 A, 42 W external power supply with DIN 4 connector	—	• 4 x 6 feet power cables for US, EU, UK, Aus/Nz • 1x 12 V, 3.5 A, 42 W external power supply with DIN 4 connector	—
Accessories (sold separately)	• Secure Cable Solution (SK-Q2G-A) • VESA bracket (RMK-6BRKT-A) • Rack Mount Kit (RMK-19TR-A)	• Secure Cable Solution (SK-SNLB-6)	• Secure Cable Solution (SK-Q2G-A) • Secure Cable Solution (SK-SLND-4) • VESA bracket (RMK-6BRKT-A) • Rack Mount Kit (RMK-19TR-A)	• Secure Cable Solution (SK-SNLB-6)
Software	• Matrox PowerWall (free download). See Matrox PowerWall datasheet for more details.			
Environmental				
Operating conditions	• Temperature: 0 to 45 degrees Celsius. Humidity: 20% to 80% non-condensing			
Storage conditions	• Temperature: -40 to 70 degrees Celsius. Humidity: 5% to 95% non-condensing			
Power consumption	• 15W			
General				
EMC/EMI device class	• Class A			
EMC/EMI compliance	• CE (EU), FCC (US), ICES-3 (Canada), KC (Korea)			
Environmental compliance	• China RoHS, EU RoHS, REACH			
Warranty	• Three-year limited warranty with free telephone support			



Contact Matrox Video

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