Matrox® Release Notes

Matrox® QuadHead2Go™ Series & PowerWall Software

Version 2.00.00

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Overview

This document describes the current release of the Matrox QuadHead2Go firmware (v. 2.00.00) and the PowerWall software (v 2.00.00). Matrox provides these notes to describe new features, improvements, known issues, and limitations with this firmware and software package.

This QuadHead2Go 2.00.00 firmware is compatible with all QuadHead2Go products: the standalone appliances (Q2G-DP4K, and Q2G-H4K) and the PCIe® cards (Q2G-DP4K-C, and Q2G-H4K-C).

The Matrox PowerWall 2.00.00 software is compatible with Microsoft® Windows® 10 64-bit operating system.

What's new

- HDCP 2.2 support on QuadHead2Go Q155 input has been added.

- A new feature allows monitors connected to the QuadHead2Go outputs to go to sleep if no input signal is detected after 30 seconds.

- PowerWall 2.0 **Global view** feature has been implemented which allows multiple QuadHead2Go devices to be viewed on a single canvas.

  - This feature facilitates the creation of artistic video walls using more than one QuadHead2Go device.

    - o The **Source view** describes each device configuration (individual input/outputs).

    - o The **Physical view** describes the position of each QuadHead2Go as a part of the entire video wall.

  - In a configuration with multiple QuadHead2Go units, it is possible to assign a different input image to each QuadHead2Go. This helps differentiate the various inputs to the video wall when in **Global view**.

  - Allows for bezel management pattern to be displayed across multiple QuadHead2Go devices.

- Ability to view configurations in various units of measurement (inches, centimeters, or millimeters) in PowerWall.

- Ability to set the PowerWall software defaults, including but not limited to:

  - Unit of measurement

  - Default wall size

  - Default monitor

- Default name prefix for new devices

- Default name prefix for new designs

■ Ability to collapse the left or the right menus to have a larger view of the working canvas in PowerWall.

■ Ability to select from popular displays which include information on size, resolution, and bezel, and apply to outputs in PowerWall.

- This reduces the time required to set up individual bezels, resolution, and size for predefined displays.

■ Ability to easily choose which default layouts will be available for each virtual unit in PowerWall.

■ Addition of the 1400 x 1050 resolution option in the default drop-down list in PowerWall.

■ Ability to upload a single configuration to multiple QuadHead2Go units simultaneously in PowerWall.

■ User interface (UI) optimizations have been made in PowerWall following customer feedback from a Beta release.

■ General bug fixes have been made.

Supported features

■ HDCP support.

■ Out-of-the-box support for the following configurations (all outputs 1920 x 1080 @ 60 Hz):

- 2x2 Landscape (3840 x 2160 @ 60 Hz input)

- 2x2 Portrait (2160 x 3840 @ 60 Hz input)

- 1x2 Landscape (1920 x 2160 @ 60 Hz input)

- 1x2 Portrait (1080 x 3840 @ 60 Hz input)

- 1x3 Landscape (1920 x 3240 @ 60 Hz input)

- 1x3 Portrait (1080 x 5760 @ 60 Hz input)

- 1x4 Landscape (1920 x 4320 @ 60 Hz input)

- 1x4 Portrait (1080 x 7680 @ 60 Hz input)

- 4x1 Landscape (7680 x 1080 @ 60 Hz input)

- 4x1 Portrait (4320 x 1920 @ 60 Hz input)

- 3x1 Landscape (5760 x 1080 @ 60 Hz input)

- 3x1 Portrait (3240 x 1920 @ 60 Hz input)

- 2x1 Landscape (3840 x 1080 @ 60 Hz input)

- 2x1 Portrait (2160 x 1920 @ 60 Hz input)

- Clone (all outputs will display a downscaled incoming signal)

■ Ability to use PowerWall in offline mode. This allows you to set up the configuration without having a physical QuadHead2Go device.

■ Ability to adjust the output resolution and detailed timings based on the attached monitor's EDID when the **Force output mode** option is disabled.

■ The following features are supported through Matrox PowerWall™ or the Matrox QuadHead2Go API:

- Clone mode

- Rotation

- Edge overlap

- Video scaling and cropping

- Bezel management (supported on every edge for each output)

Notes and limitations

■ When updating the firmware from QuadHead2Go 1.01 to 2.00, the firmware update may lose connection to the QuadHead2Go device. To recover, reboot your QuadHead2Go device.

■ The installation of PowerWall 2.00.00 software will overwrite any configurations that were saved in previous PowerWall releases.

■ Configurations saved on a QuadHead2Go device will be preserved when performing a firmware update from QuadHead2Go 1.00 or later. In order to preserve these configurations in PowerWall, do the following:

1. Update the firmware on the QuadHead2Go device to 2.00.

2. Perform a download from the updated device to the PowerWall 2.00 software.

Please contact Matrox if you have any questions.

■ To facilitate bezel management, you can choose the bezel management grid from the QuadHead2Go button 1, and use the **Source adjustments** feature in the PowerWall software. For more information, see the **Help** section in your Matrox PowerWall software.

- Scaling is supported on the QuadHead2Go with a maximum upscale of 8x and a maximum downscale of 4x, except in the following situations:

  - When rotated to 90 or 270 degrees, AND attempting to upscale vertically, AND attempting to downscale horizontally.

  - When rotated to 90 or 270 degrees, AND attempting to upscale horizontally, AND attempting to downscale vertically.

- Display drivers for your graphics hardware must be installed before you connect to your QuadHead2Go device.

- Currently, the display resolution of your input source must match that of the selected layout for the pre-set configurations.

- When connected to the output of a graphics card, to view your system BIOS information, we recommend using the **Clone** layout. You can select a layout by pressing button 2 on your QuadHead2Go device.

- If you are capturing HDCP content, make sure all monitors and cables connected to your QuadHead2Go device are HDCP compliant.

- Ensure your graphics driver is up-to-date prior to using with the QuadHead2Go.

- When creating designs or configurations in the PowerWall software, use only English alphanumeric characters.

- When creating a multi-device 1xN landscape configuration in the PowerWall software, it is possible that the bezel grid lines display different colors.

- Due to variances in source behavior, it is possible that the source device is not capable of disabling the input to QuadHead2Go and is therefore not triggering the monitors to turn off at the outputs of the QuadHead2Go.

- HDCP may not work with all adapters.

- Audio is currently not supported.

- IPv6 is currently not supported.

Matrox QuadHead2Go REST API and PowerWall

To configure your QuadHead2Go devices, you can use the Matrox QuadHead2Go REST API (available upon request) or the Matrox PowerWall software. For more information, contact your Matrox sales representative.

Contact us

The Matrox web site has product literature, press releases, technical material, a sales office list, trade show information, and other relevant material. Visit us at https://www.matrox.com/video/.

If you have any questions or comments about our products or solutions, contact us at https://www.matrox.com/en/video/contact.

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