

Matrox® **Display Driver Release Notes**

For Matrox® Mura™ MPX Series driver version 2.04.00

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Graphics for Professionals

Overview

This document describes the current release of the Matrox Mura MPX Series driver (v. 2.04.00) for Microsoft® Windows® operating systems. Matrox provides these notes to describe bug fixes and improvements to PowerDesk software and to the driver.

What's new in this release

This release of the Matrox driver corrects customer reported issues, contains bug fixes and additional driver enhancements and optimizations, and new features and options.

- Display Wall and Network API: New high level transition functions enable you to create multiple window and layout effects.
- Added support for input rotation at arbitrary angles.
- Added support for RGB Color Range for Source Color Key.
- Network API: Added native support for HTML5.
- Network API: Now supports Unicode/UTF8, enabling users to enter text overlays in all languages.
- Network API and Display Wall API: Added the ability to start in *Static Capture* mode, which provides flicker free mode when adding/removing streams.
- Display Wall (*vwSetInactiveStreamAction* and *vwGetInactiveStreamAction*) and Network API (*SetInactiveStreamAction*) functions provide options for streaming window content on lost signals.
- Display Wall (*vwSetStreamDetectionFilters*) and Network API (*DetectionFilter* parameter in *SetSource*) functions enable users to specify an input signal type (VGA, DVI, Component, Composite, or S-Video) for faster signal detection.
- The *AdvancedWindows* API function (*vwUpdateImageRegion*) enables users to update a specific region of the image in video memory with a selected image from system memory.
- Changes to the `VIDEOWALL_STREAM_CONFIG` structure (the addition of `STREAM_RAW_VTOTAL`, `STREAM_RAW_VREFRESH`, `STREAM_RAW_VSYNC`) enables users to get hardware measured values for analog RGB inputs.
- Added support for the 64-bit version of our Display Wall library.
- Network API: Now allows 1080p mode even when monitors don't support 1080p.
- Added an option to support capture of HDCP signal, even when a monitor fails.

- Network API parameters (/PA, /OFF) in the *SetSource* function enable users to set Phase Adjust and X/Y Offset for analog RGB inputs.

Driver changes in version 2.04.00

Fixed issues

- Ability to use telnet clients (such as Tera Term, Putty, and Linux Client) with Network API.
- Improvements to the *AutoStart* function of Network API fix potential issues on systems with Solid State HDD.
- Improved performance when playing multiple video files using the Network API embedded VLC renderer.
- Improved performance when creating multiple input streaming window clones of smaller sizes.
- Improved the overall stability of the Display Wall library and the Network API.

Notes and limitations

- To avoid possible problems with a new installation, you must first uninstall all Matrox software, including **Matrox PowerDesk**, **Matrox Driver**, **Matrox DisplayWall.msi**, and **Matrox Network API**.
- **Matrox SMD-2** – Matrox SMD-2 is an EOL product and is no longer manufactured or sold by Matrox. The 2.04.00 driver doesn't support Matrox SMD-2 products. The latest driver version to support Matrox SMD-2 products is version 2.03.00.
- Depending on where the stream windows are located on the desktop, full frame rates may not be supported for certain stream windows.
- Applying a Geometric Rotation angle to a streaming window may affect rendering performance.
- With the Advanced Windows API, using streaming windows that contain too many layers may affect rendering performance.
- The render rate may be affected if the outputs don't all use the same refresh rate.
- Running two display wall applications simultaneously isn't supported.
- When starting PowerDesk immediately after a system restart, PowerDesk may not start. We recommend waiting a while, and then starting PowerDesk again.
- The horizontal resolution of your stretched mode layout can't be higher than 32768 pixels.

HDCP support¹

- Enabling HDCP capture may affect rendering performance.
- HDCP is supported on a maximum of 10 cards.
- All monitors used in the current output desktop configuration must be HDCP compliant, turned on, and connected using an HDCP compliant cable. If HDCP capture isn't properly enabled, you may experience problems such as corruption on your outputs, monitors blinking periodically, streaming windows turning blue, and systems freezing.
- Using HDCP repeaters on the Mura output connectors isn't supported.
- The *Preview surface* functionality of the Display Wall Library isn't supported on HDCP encrypted streams.
- Each HDCP encrypted stream can only be shown on a maximum of 11 downstream devices. Some source devices support less downstream devices.
- Moving a streaming window from one monitor to another while an HDCP encrypted stream is displayed will cause a monitor revalidation process (required for HDCP) and cause temporary image defects on the stream.
- When an HDCP input streaming window is rotated, the number of HDCP downstream devices required to be authenticated may increase due to the position of the underlying bounding rectangular window. [29070]
- HDCP sources won't stream protected content on a monitor currently on a revocation list.

¹ Certain limitations may apply. Matrox strongly recommends that you review the HDCP website (www.digital-cp.com) and make sure you understand your legal obligations and responsibility.

Driver installation

Before you begin

- Windows 7 Professional Edition 64-bit or Windows Server 2008 R2 64-bit must be installed in your system.
- Remove any existing non-Matrox graphics hardware installed in your system. If graphics hardware is built into the motherboard of your computer, make sure it's disabled.
- Make sure all the latest hot fixes for Windows 7 are installed on your system. For improved stability under Windows 7 and Windows Server 2008 R2 (XDDM mode), you must install the Microsoft KB980731 hot fix. For Windows 7, this hot fix is part of SP1.
- Make sure you have administrator rights on your system. You need administrator rights to install certain software and change certain settings.

Setting up your Mura system

- 1 Install and connect your Mura card(s).
- 2 Install the Matrox drivers provided. This may take several minutes. Don't shut down or turn off your system until the installation is complete.
- 3 Run PowerDesk to configure your desktop layout (multi-display setup).

Contact Us

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

You can get technical assistance by contacting Matrox technical support at dwcsupport@matrox.com.

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