

# Matrox® **Display Driver Release Notes**

For Matrox® Mura™ MPX Series driver version 2.05

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[www.matrox.com/graphics](http://www.matrox.com/graphics)

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# Overview

This document describes the current release of the Matrox Mura MPX Series driver (v. 2.05) for Microsoft® Windows® operating systems. Matrox provides these notes to describe bug fixes and improvements to the software, API, and driver.

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## What's new in this release

- This driver version has been validated with Microsoft® Windows® Embedded Standard 7 (64-bit) and Windows® Embedded Enterprise 7 (64-bit) operating systems.
- Video ProcAmp controls can now be set on individual streaming windows in the Mura Library and Network API.
- New *CreateSourcePreviewImage* Network API command to create an input frame preview bitmap file.
- The Network API and Mura Library now provide new functions to enable/disable HDCP support on for each input.
- Added a *Key invert* function for the *Source Color Key Range* feature in the Network API and Mura Library.
- Added a *StartTransition* Network API command that enables client applications to start transitions manually.
- The *Status* Network API command now returns the mode settings of the Mura controller.
- Added the temperature information of the GPUs to the PowerDesk API.
- Added support for customized silent install. For more information, Matrox technical support at [dwcsupport@matrox.com](mailto:dwcsupport@matrox.com).

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# Driver changes in version 2.05

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## Fixed issues

- A *LoadImage* error is returned when more than 13 windows are open. [29326]
- The Z-order isn't respected when the *SetTransition* commands are used. [29356]
- The *AutoStartWindowManager* command is incorrectly identified in the Network API documentation. [29534]
- Stream windows don't recover on partial HDCP failure. [29545]

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## 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 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.

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## Millennium P690 support

- Only Matrox Millennium P690 PCIe and P690 Plus LP PCIe are supported as consoles with your Matrox Mura MPX Series product.

- If you're using a P690 product as a console, make sure you uninstall any Matrox drivers previously installed, and install the latest Mura driver. The latest Mura drivers support P690 products.

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## HDCP support<sup>1</sup>

- 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.

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<sup>1</sup> Certain limitations may apply. Matrox strongly recommends that you review the HDCP website ([www.digital-cp.com](http://www.digital-cp.com)) and make sure you understand your legal obligations and responsibility.

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# Driver installation

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## Before you begin

- 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.

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## Setting up your Mura system

- 1 Install and connect your Mura card or cards.
- 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).

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## 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 [www.matrox.com/graphics](http://www.matrox.com/graphics).

If you have any questions or comments about our products or solutions, contact us at [www.matrox.com/graphics/contact](http://www.matrox.com/graphics/contact).

You can get technical assistance by contacting Matrox technical support at [dwcsupport@matrox.com](mailto:dwcsupport@matrox.com).

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