

Matrox® **Display Driver Release Notes**

For Matrox® Mura™ MPX Series driver version 2.03.00

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Overview

This document describes the current release of the Matrox Mura MPX Series driver (v. 2.03.00) 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.

- Added support for system sleep (back from sleep), hibernate, lock/unlock workstation, and fast user switching on the Mura display wall controller.
- Added a new set of Network API commands that let applications create a list of scheduled commands. This is useful for creating Source Touring functionality or to create schedules to switch layouts automatically at predefined times.
- Added new video scaling options to the Display Wall library and the Network API.
- Third party applications installed on the Mura controller can now be launched using our Network API. The application windows can then be positioned and sized also using our Network API.
- Support virtual keyboard and mouse. The keyboard and mouse of a Mura controller can now be controlled remotely using a new set of Network API commands.
- Support VLC sources. Integrated VLC player controls within our Network API module which let client applications play local video files or remote video IP streams on the Mura display wall controller as if they were natively supported by the Mura controller (transparency, move and scale, Z-order, cropping, color adjustments, and so on).
- Added support for more YUV graphic formats in the LoadImage AdvancedWindows API.
- Added support for Matrox P690 graphics hardware to be used as a console on the Mura display wall controller.
- Added transparency, alpha blending, and color keying capabilities in our Network API module.
- With Network API, you can now make use of all fonts (installed on the Mura controller) when creating text overlays.
- Improved performance of input signal detection on Mura MPX-V8 and MPX-V16 cards.
- Improved performance of layout switches on the Mura controller.

- Added an **Image** source type in the Network API.
- When installing the Network API, the Mura controller is now exposed as a uPnP device, making it easy to locate on a subnet.
- Improved our BOB de-interlace filter.
- Improved compatibility with HDCP displays and video sources for more robust HDCP support.
- Network API: The AutoStartWindowsManager registry key now allows parameters to specify *WindowsAlwaysOnTop* and *NoWindowFrame* options.

Driver changes in version 2.03.00

Notes and limitations

- Depending on where the stream windows are located on the desktop, full frame rates may not be reached for certain stream windows.
- To avoid possible problems with a new installation, you must first uninstall all Matrox software, including **Matrox PowerDesk**, **Matrox Driver**, **Matrox DisplayWall.msi**, and **Network API**.

Display Wall library and rendering engine

- Using the Advanced Windows API, if your streaming windows contain too many layers, you may experience dropped frames.
- All Display Wall API functions will return a failure if another application in the system is using overlay.
- The render rate may drop if your outputs don't all use the same refresh rate.

Network API interface

- The *StopSchedule* command should read *StopSchedule*. [28635]
- When the *Netinfo* command is called, only the host network adapter is listed. [26732]
- The Network API can only report modes common to all monitors.

Matrox SMD-2

- The Appliance Configuration Utility (ACU) doesn't always detect all SMD cards on the subnet. Closing and restarting ACU may fix the problem. [26673]
- Hot connecting/disconnecting SMD-2 products to/from the Mura input connectors isn't supported. [26563]

HDCP support¹

- Enabling HDCP capture causes a drop in rendering performance.

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.

- 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 system freezes.
- 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.
- HDCP sources won't stream protected content on a monitor currently on a revocation list.
- *Don't* change the output display while HDCP is enabled, otherwise your display may become unusable.

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.
- If you're running the *Appliance Configuration Utility* (ACU) under Windows Server 2008 R2, make sure you enable the services for *SSDP Discovery* and *UPnP Device Host*.

Windows Server 2008 R2 – To enable services:

- 1 Install the *Appliance Configuration Utility*.
- 2 Once installed, right-click **Computer**, then select **Manage**.
- 3 Under **Configuration**, click **Services**.
- 4 In the list, find *SSDP Discovery*, then right-click it and select **Properties**.
- 5 Next to **Startup type**, choose **Automatic**, then click **Apply**.
- 6 Under **Service status**, the buttons will become enabled. Click **Start** → **OK**.
- 7 Repeat steps 4-6 for *UPnP Device Host*.

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.



Note: The driver installation automatically disables Windows UAC (User Access Control). For information on enabling or disabling Windows UAC, see your Windows documentation.

- 3 Run PowerDesk to configure your desktop layout (multi-display setup).

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

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