

Matrox® **Display Driver Release Notes**

For Matrox® Mura™ MPX Series driver version 2.01.00

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Overview

This document describes the current release of the Matrox Mura MPX Series driver (v. 2.01.00) for Microsoft® Windows® operating systems. Matrox provides these notes to describe bug fixes and improvements to PowerDesk software and to the display driver.

What's new in this release

New hardware support

- New Matrox Mura MPX-V16 and Mura MPX-V8 analog capture cards
- New Matrox Mura MPX-SDI card
- Matrox SMD-2
- Matrox DualHead2Go Digital Edition and TripleHead2Go Digital Edition products on the output connector of your Mura product (digital (DVI) monitors only)
- Matrox DualHead2Go DP Edition product on the input connector of your Mura input

New hardware and software features

- Up to 56 DVI-SL or RGB inputs and outputs
- HDCP support (Beta)
- Hardware board ordering
- Improved layout switching time
- Analog capture 2048 × 1536 @ 47 Hz
- Improved detection of input signal types
- Ability to turn auto-detection on or off on each input
- Ability to identify the input connection type using the API
- Improved video rendering performance
- Ability to turn color space decimation on or off (16-bit color)

New Network API features

- Source cropping and rotation
- Interlace options

- Z buffer window overlap
- Color adjustment (including brightness, contrast, and hue)
- Access to Edge overlap and Bezel management settings
- Improved the communication response time between a Network API remote application and the Mura controller

Driver changes in version 2.01.00

Fixed issues

- Fixed interlaced output system hang. [25325]
- Improved the performance of adaptive de-interlacing. [25852]
- Improved detection of input signal changes (hot disconnect/reconnect or change of input signal types and resolution).
- Fixed a compatibility issue with Microsoft Viewer 2010. [26078]
- Implemented the *SetStreamCaptureStartOffset* Display Wall API function to improve the detection of analog RGB input signals. [26274, 26275]
- Added more sample applications in the SDK.
- Fixed streaming performance issues when using clone mode in PowerDesk. [25980]
- Improved stability and robustness of the Display Wall library and Network API layer.
- Improved loading and unloading time of the Display Wall library.

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.

Display Wall library and rendering engine

- All Display Wall API functions will return a failure if another application in the system is using overlay.
- Mura cards don't support sleep or hibernate mode.
- The render rate may drop if your outputs don't all use the same refresh rate.
- A Display Wall application may become unresponsive or take long to launch if an unstable video signal is connected to the inputs of one or more Mura cards. [26409]

Network API interface

- To use the NetSetup command, IPv6 needs to be turned off. To do this, from the properties of the network adapters, disable Internet Protocol Version 6 (TCP/IPV6) for each network adapter listed. Failure to do so will return an InvalidIP failure for the NetSetup command.
- 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. [25954]

PowerDesk software

- For an edge overlap, you can adjust the position of your display up to 40% of your display resolution (not 95% of the display resolution, as specified in the PowerDesk help file).

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]
- When rotating a 1080p IP stream, a black line may appear. [27104]

HDCP support

- HDCP is supported on a maximum of 6 cards.
- Problems streaming copy protected HD content may occur with certain monitors, even if these monitors are HDCP compliant. [27097]
- 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.

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.
- Make sure you have administrator rights on your system. You need administrator rights to install certain software and change certain settings. You also need administrator rights to run any Display Wall applications.
- 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). If UAC isn't automatically disabled, you'll need to disable it manually. For information on disabling Windows UAC, see your Windows documentation.

- 3 Run PowerDesk to configure your desktop layout (multi-display setup). You must use stretched mode for your desktop layout.

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

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