Matrox® Release Notes

Matrox® Maevex™ 6020 Remote Recorder

Software version 2.01.00

www.matrox.com/graphics

matrox®

Graphics for Professionals

Overview

This document describes the current release of the Matrox Maevex 6020 Remote Recorder hardware and Configuration and Firmware Utility.

What's new in this release

- Gain control for the microphone input.

- Configurable Kuando™ Busylight colors and intensity.

- Option to lock the power button.

- Option to reboot a device remotely.

- Device monitoring through the **Device properties** page of the *Maevex 6020 Configuration and Firmware Utility*.

- Device monitoring through a Maevex Remote Recorder REST API. For more information, contact your Matrox representative.

- The Maevex Remote Recorder RS232 API now available to support basic control from an RS232 controller (through a third-party USB to RS232 adapter) using simple RS232 commands (independently for each device). The Maevex Remote Recorder RS232 API is available on the Matrox web site (www.matrox.com/graphics).

- The **Copy last session to USB** feature will start automatically when a USB memory device is connected (pressing control button **3** on the device is no longer necessary).

- Older recorded sessions will be deleted from the local SSD memory buffer only when space is required for a new recording session. The SSD can be formatted using the Configuration and Firmware Utility. For more information, see your Matrox Maevex 6020 Remote Recorder User Guide.

- Removed session segmentation caused by source signal interruptions, as long as there's no video mode or audio sampling rate changes when the signal recovers (during the source signal blackout, the recording session continues with a *No signal* message). Removing the segmentation significantly reduces the processing time needed on the Panopto server, making the recorded session available for playback much sooner.

- Reduced the latency between manual device control (from the control buttons on the device) and device status reporting by the Panopto server.

- Support for Windows Server 2019.

- Security improvements.

Notes and limitations

- This release was tested with Windows® 7, Windows® 10, Windows® Server® 2008 R2, and Windows® Server® 2016, and Windows® Server 2019® (all 64-bit versions).

- Prefixes of host names longer than 18 characters are truncated in the corresponding device tile.

- When live streaming (RTMP webcast), we recommend not changing your source video mode or audio sampling rate during a recording session. In case of a problem (for example, a live RTMP webcast being stopped), stop the current session and start a new one.

- To avoid delays to recorded session availability caused by higher processing latency on the Panopto server, we recommend not changing your primary video mode or audio sampling rate during a session.

- While copying the last recorded session to the USB flash device, the Record/Pause control button LED continues to blink red. **Do not remove the USB flash device while the Record/Pause control button LED is blinking red.** The LED stops blinking when the copy is completed. Disconnecting the USB flash device while the copy is in progress will cause the mount process to remain in an invalid state, and subsequent attempts to copy to USB may not work. If this happens, we recommend rebooting your Maevex device.

Recording

Table 1 lists the maximum bit rates for upload when recording or live streaming for given Panopto quality settings. Your Maevex 6020 device has an internal 128 GB SSD hard drive that's used as a local buffer for recording.

- **Recordings *without* live streams** – The recording is simultaneously uploaded to the Panopto server at the rate possible given the available bandwidth. If full bandwidth is available, the impact on the SSD buffer is negligible. Also, your recordings will be complete and available for VOD or editing within a few minutes from the end of the session.

- **Recordings *with* live streams** – The recording isn't simultaneously uploaded to the Panopto server to minimize the bandwidth needed by the system for upload. In this case, the recording will upload to the Panopto server after the session is complete, unless another recording with live stream starts before the upload of the previous recording is complete.

Panopto Quality Level	Recording Bit Rate[1]	Optional RTMP Live Streaming Bit Rate
1080p	13 Mb/s	6.7 Mb/s
Ultra	6.4 Mb/s	3.2 Mb/s
High	4.5 Mb/s	2.1 Mb/s
Standard	2.6 Mb/s	1.2 Mb/s
Basic	1 Mb/s	0.7 Mb/s

Table 1: Maximum bit rates

Depending on your source resolutions, the maximum bit rate may be less than what's listed in Table 1.

---

[1] Includes multiple downscaled recordings.

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.

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

Matrox values your business and offers professional support for your Matrox product. For more information, contact your Matrox representative or our technical support at maevexsupport@matrox.com.

Disclaimer

Information in this document may contain technical inaccuracies or typographical errors. Information may be changed or updated without notice. Matrox reserves the right to make improvements and/or changes in the products, programs and/or specifications described in this information at any time without notice. All trademarks and trade names, service marks and logos referenced herein belong to their respective owners.

HDMI is a registered trademark of HDMI Licensing, LLC in the United States and/or other countries.

Kuando is a trademark of Plenom A/S.

Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and/or other countries.

Panopto is a trademark of Panopto Inc.

Matrox Graphics Inc.

1055 Saint Regis Boulevard
Dorval, Quebec, Canada
H9P 2T4

graphics@matrox.com
www.matrox.com/graphics

(514) 822-6000