

# Matrox® Release Notes

## Matrox® Maevex™ 6020 Remote Recorder

Software version 2.02.00

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# Overview

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

## What's new in this release

- Added audio gain control from the Configuration and Firmware Utility for HDMI Inputs, Line Inputs and Headphone Output
- Added basic recording control and device reboot capabilities through the REST API
- Improved audio histogram data reporting through the REST API
- Increased resiliency to input signal interruptions due to source disconnects and reconnects, as well as when connecting and uploading to the Panopto cloud server.

## 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 recording 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 Maevox device.
- Audio volume control is not applicable to the HDMI Outputs, which represent a direct pass-through of the HDMI Input signals from the source.

- The audio volume control for the HDMI and Line Inputs supported by the hardware is -60dB to +6dB. For the headphone output the supported range is -74dB to 0dB. Setting values from the configuration utility that are outside of these ranges are not recommended and will not result in any further signal amplification or attenuation. The minimum and maximum volume settings currently exposed through the user interface of the configuration utility will be updated in a future software release.

## Recording

Table 1 lists the maximum bit rates for upload when recording or live streaming for given Panopto quality settings. Your Maevox 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 <sup>1</sup>	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.

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<sup>1</sup> Includes multiple downscaled recordings.

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