

# **Matrox® Release Notes**

**Matrox® Maevox™ 6020 Remote Recorder**

**Software version 3.00.01**

20270-401-0301  
November 4, 2021

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# Overview

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

## What's new in this release

- The audio level histograms have been adjusted to always represent the audio input selected for recording.
- RTSP proxy streams are supported for remote monitoring of primary and secondary video streams as well as of the primary audio stream. The lowest recording resolution is used for the video proxy stream.
- Option to link two Matrox Maevox 6020 devices from the Panopto cloud server for quad recordings within one scheduled recording session.
- Possibility to disable the asynchronous uploads of the recorded content to the Panopto server while the proxy stream is in use.
- A recording timer displays for the current recording session on the local output.
- The audio histogram is now shown separately for the left and right audio channels.
- Device identification using the Panopto friendly name when the device is connected to the Panopto cloud.

## Notes and limitations

- This release was tested with Windows<sup>®</sup> 7, Windows<sup>®</sup> 10, Windows<sup>®</sup> Server<sup>®</sup> 2008 R2, and Windows<sup>®</sup> Server<sup>®</sup> 2016, and Windows<sup>®</sup> Server 2019<sup>®</sup> (all 64-bit versions).
- Prefixes of host names longer than 18 characters are truncated in the corresponding device tile shown in the Configuration and Firmware Utility. The device tile will show the device's serial number by default for identification (if the Panopto friendly name is not modified).
- Device is somewhat resilient to source signal interruptions or mode changes during recording and RTMP live streaming (for more information, see the Matrox<sup>®</sup> Maevox<sup>™</sup> 6020 Remote Recorder User Guide)
- 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.

- It is not recommended to feed the Maevox 6020 Remote Recorder device with source resolutions higher than 1920x1080p60. Higher HDMI input resolutions require more processing power for downscaling and could limit the number of lower resolution recordings that the device can generate.
- 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. The headphone output 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.
- Only NTFS-formatted external USB storage devices are supported.
- In the Linked Remote Recorder mode, the local manual push-button controls of the recorder are currently not supported.

## 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 is used as a local buffer for recording.

- **Recordings *without* live RTMP 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 RTMP 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.

<b>Panopto Quality Level<sup>1</sup></b>	<b>Recording Bit Rate<sup>2</sup></b>	<b>Optional RTMP Live Streaming Bit Rate</b>
<b>1080p</b>	13 Mb/s	6.7 Mb/s
<b>Ultra</b>	6.4 Mb/s	3.2 Mb/s
<b>High</b>	4.5 Mb/s	2.1 Mb/s
<b>Standard</b>	2.6 Mb/s	1.2 Mb/s
<b>Basic</b>	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.

If RTMP live streaming is enabled, it is recommended to make sure the required network bandwidth is available at all times, and to configure the network for priority RTMP packet transmission.

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<sup>1</sup> Quality levels and bit rates are defined by the Panopto server settings and are subject to change.

<sup>2</sup> Includes multiple downscaled recordings.

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