Matrox Monarch EDGE Series

Release Notes

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Table of contents

About these release notes 1
Visit our website for the latest downloads 1
What's new in this release? 1
Known issues 2

About these release notes

These release notes provide a list of new features, known issues, and bug fixes applicable to Matrox Monarch EDGE Series version 2.06.

The information in these release notes supplements the *Matrox Monarch EDGE Series Installation and User Guide*, which is provided in PDF format from the Matrox website at *https://video.matrox.com/en/apps/drivers/home*.

Visit our website for the latest downloads

To ensure that you have the latest documentation available for Matrox Monarch EDGE Series, check the Matrox *website*, where you can also get the latest firmware and more information about all Matrox products.

What's new in this release?

This release includes the following new features and improvements:

- **SCTE-35 signals for ancillary data** - Monarch EDGE now converts SCTE-104 messaging signals into SCTE-35 messages. These messages are embedded in the transport stream.
- **Hybrid Log Gamma (HLG) HDR** - Monarch EDGE now supports HLG (Hybrid Log Gamma), an open-source standard HDR (High Dynamic Range) video format.
- **Perceptual Quantizer (PQ)** - Monarch EDGE now supports the PQ (SMPTE ST 2084) transfer function for HDR formats.
- **BT.709 and BT.2020 standards** - Monarch EDGE now supports the BT.709 and BT.2020 specifications for ultra-high-definition television, including color range. While HDR formats also use the BT.2020 specifications for color range, they additionally include specifications for color contrast.
- **MPEG2-TS to SRT with VANC** - Monarch EDGE encoders (E4 and S1 models) can now use MPEG-2 TS streams with VANC ancillary data as an input, and transmit those streams as SRT to a specified destination.
- **Caching** - Monarch EDGE now supports caching of incoming streams, useful for decoding irregular third-party streams and preventing output issues like stuttering.
- **Stream ID** - Added support for using Stream ID in SRT caller mode to identify users, connection purposes, resource names, and expected connection modes.

As with all Monarch EDGE releases, this release also resolves specific customer issues, provides compatibility with the latest supported applications, and improves on overall product stability.

Known issues

Please note the following known issues in this release:

- You may encounter issues when streaming in RTMP on both LAN1 and LAN2 ports. Problems with RTMP/RTMPS streaming may occur after rebooting Monarch EDGE. (MN-2171)
- The Monarch EDGE Decoder does not decode streams that include B frames for content that is native 1080i @ 29.97 fps or 1080i @ 25 fps. Progressive streaming formats that include B frames are supported. (MN-918)
- CBR (constant bit rate) streaming may not work when the stream is video only. (MN-1882)
- When the SDI input of an RTMP stream is disabled and re-enabled, the **Audio source** will revert to **None** and the stream will not return. For the RTMP stream to return, you must set the **Audio source** to the original setting. (MN-1906)

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