Matrox Monarch EDGE Series

Release Notes

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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 2.10.

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:

- **SRT connection bonding** - This release introduces Broadcast mode SRT connection bonding, enabling a single SRT stream encoding to be transmitted simultaneously over two network links. This feature improves bandwidth utilization, resilience, and stream stability.
- **Reprogrammable genlock on 10-bit encoders** - On 10-bit encoders, I/O configurations that include outputs now support Genlock In or Genlock Out.
- **Customer Service Packet Identifier** - You can now enter a PID for Service Provider and Service Name.
- **Output previews** - You can now enable the preview for individual SDI outputs.
- **Improved Advanced status** - The Advanced status page now includes expanded color codes to identify stream status at a glance. Filter and sort functions were added. Message logs were improved.
- **Security enhancements** - Enhancements have been made as part of our ongoing and proactive measures to harden the safety aspects of the Monarch EDGE series of devices.

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.

Notes and limitations

The following are notes and known limitations to consider when using Monarch EDGE:

- SRT connection bonding requires the following:
  - The Monarch EDGE Encoder and Monarch EDGE Decoder must have two physical Ethernet connections. Each connection must carry a separate stream of the same encode.
  - The connection must use two different networks, with two distinct IP addresses.
  - The Encoder must be set to *Caller*.
  - The Decoder must be set to *Listener*.
- When SRT connection bonding is enabled, **SRT statistics** can report different *Recommended SRT Latency* values for the two streams because they travel over separate networks. If the *Recommended SRT Latency* values differ, enter the higher value in the Encode SRT stream **Latency** field.

Known issues

Please note the following known issues in this release:

- The following streaming protocols — SRT (Caller, Listener, Rendez-vous, as well as Stream ID modes and Connection Bonding) and MPEG-2 TS over UDP or RTP — are officially supported on both LAN1 and LAN2. Other officially supported streaming protocols such as RTSP, RTP, and RTMP/RTMPS must only be used on LAN1 as problems may arise when used on LAN2. (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)
- When an unstable source is connected to the one of the inputs of the Monarch EDGE, disabling and re-enabling an SRT stream on a Monarch EDGE Encoder may result in an error. (MN-2641)
- For a Monarch EDGE Decoder, a Genlock that is set to **external** may revert to **internal** on reboot. This may happen if the Genlock output of a Monarch EDGE Encoder was disconnected and re-connected to the Genlock input of the Monarch EDGE Decoder. (MN-2586)
- When the audio source for a process changes, stop and then restart the associated streams to apply the change. (MN-2822)

- When SRT connection bonding is enabled, the **Device** tab of the **Advanced status** page on the Monarch EDGE Encoder displays multiple connection and disconnection messages. These messages result from SRT handshakes. The number of messages decreases after the Monarch EDGE Decoder connects. (MN-2958)

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