PRISM

SDI / IP Waveform Monitor

Release Notes

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For product information, sales, service, and technical support:
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Release notes

This document describes new features, resolved issues, and improvements of firmware version 3.1.1 for the PRISM family of SDI / IP Waveform Monitors.

Compatible Products

Upgrades   The following 25G products are compatible with this release:

- MPI and MPX that have been upgraded to 25G
- MPI2-10 and MPX2-10 that have been upgraded to 25G
- MPI2-25 and MPX2-25
- MPS-100/200/300
- MPD-100/200/300

NOTE: V3.1.1 is not compatible with:

- MPI and MPX without 25G upgrade
- MPI2-10 and MPX2-10 without 25G upgrade

Downgrades   Downgrading from version 3.x to 2.x is not allowed for the following products due to the hardware configuration:

- MPI2-25 with serial number starting at S010564
- MPX2-25 with serial number starting at S010386
- All MPS/MPD products

New features

The following new features have been added to PRISM since v2.3.1. Unless otherwise noted, new features apply to all products listed in the **Compatible Products** section.

Since V3.0
- Multi SDI Input Mode
  - Up to four 4K 6/12G SDI inputs can be simultaneously monitored with picture and trace applications (waveform, stop, vector, CIE).
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- NMOS IS-04 v1.3
  - IS-04 v1.2 or v1.3 can be selected.
- GPI Preset Recall
  - Up to 6 presets can be recalled through GPIO connector.
- SDI Loop-through
  - SDI 1 and SDI 2 input signal can be looped out to SDI 3 and SDI 4 respectively.
- Headless remote operation using VNC for MPX2 models
  - Remote 8 tile operation using VNC in 8 tile mode is supported without the need for an external monitor or monitor emulator attached.
  - Note: MPI2 and MPS models still require an external monitor or monitor emulator for remote operation using VNC in 8 tile mode.

Since V2.3.1 and V2.4
- MPS/MPD model support
- 8 Trace Tile / Dual Display including eight 4K trace tiles
  - 8 trace tiles display is supported with dual display configuration.
  - Trace applications with 4K signals can be assigned to any tile.
- ARIB Closed Caption decode
  - ARIB TR-B24 standard is supported.
  - HD/SD/Mobile captions can be simultaneously decoded.
- AES Status Display for SDI
  - AES/EBU header information in SDI embedded audio can be displayed.
- YCbCr 4:2:2 1080p 23/24/25/29/30 over 2110-20
  - Slow frame 422 formats over ST2110-20.
- PTP time display on Status Bar
  - User selectable PTP or RTC

Resolved Issues

This firmware release has the following resolved issues. Unless otherwise noted, resolved issues apply to all products listed in the **Compatible Products** section.

- Picture noise on Aux SDI output with four 16 channel ST2110-30 streams.

- Picture issue with SDI TRS data over ST2110-20.

- Closed Captions remained in Picture after being turned off or changing inputs.

- Inter-link Format Mismatch error appears in the Event Log even though a single HD signal was being monitored.

- Video timing measurements were not correct with multi-line time shift on input SDI signal.

- VRX and CMAX IP Graphs were not properly displayed for ST2110 inputs.

- PRISM MPI2/MPX2-25 failed to lock to pathological SDI signals.

Improvements

This firmware release has the following improvements. Unless otherwise noted, improvements apply to all products listed in the **Compatible Products** section.

- Multi-channel audio is now supported in a single audio stream.

- Gamut alarm thresholds were changed to better match the EBU R103 standard.

- Closed Caption decoding is improved with malformed 608 and 708 CDP packets.

- Only DNS-SD or mDNS addresses are now included in the advertised NMOS registry.

- A reset button has been added in the event that NMOS gets corrupted.

- Number of mute alarms is no longer rounded to the nearest thousand.

- PRISM will now decode SCTE104 with valid duplicate packets (payload ID 9).

- Input switching speed is improved while under API or NMOS control.

- Multiple stability and performance improvements.

- Multiple security updates, including:
    - Updated LINUX sudo command version to fix buffer overflow vulnerability (CVE 2021-3156).
    - No longer using default SNMP community name strings.
    - Updated CentOS operating system to v7.9.