



**PRISM**  
**Media Analysis Platform**  
**Release Notes**

This document supports firmware version 1.9.

**[www.tek.com](http://www.tek.com)**



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# Release notes

This document describes new features, improvements, and limitations of firmware version 1.9 for the PRISM Media Analysis Platform.

## New features and improvements

- Integrated 2.1 speakers on MPX2-10 for listening to audio in SDI and IP streams (requires option SPKR)
- A Lissajous phase plot is integrated into the Audio application on all PRISM platforms (requires option MP-AUD-UP on MPI/MPX and MP2-AUD on MPI2-10/MPX2-10)
- Decode of SMPTE 352M VPID bytes is shown in the Video Session application
- A low-pass filter can be applied in the Waveform application
- SDI Output supports loop-through of ST2110-20, ST2022-6, and SDI streams

## General limitations

This firmware release has the following general limitations. Please check the Tektronix Web site ([www.tek.com/downloads](http://www.tek.com/downloads)) for any firmware updates to the PRISM monitor.

- ST2022-6 streams**
  - All ST2022-6 streams are required to have RTP Payload Type of 98.
- ST2110 streams**
  - The sequence error detection includes the extended sequence number available in ST2110 streams. The error counter is based on the combined sequence numbers.
  - ST2110 streams with SD format will not be decoded unless SDI Out loop-through is disabled. To disable loop-through, go to **Settings > Output** and select **Generator** as the SDI Output.

- ST2022-7 seamless switching**
  - Seamless switching will not work when selecting an ST2110 input with Path 1 missing.
  
- Power-on error message**
  - When your PRISM is powering on, a error message may be displayed. The following error message is harmless and will not affect the operation of the instrument.  
Ignoring BGRT: failed to map image header memory
  
- IP Generator application**
  - When configuring the IP Generator for Seamless Switching with the ip\_gen\_config API, setting both paths is required using the scope operators IP1 and IP2.
  - SD 525 signal generation in ST2110-20 has a skewed color bar alignment when motion is enabled. It is recommended to only use this signal for IP layer testing.
  
- Trace applications**
  - If Convert to Rec. 709 mode is enabled and the gamut exceeds the 709 gamut, traces may have distortions in the Waveform, Vector, and Diamond applications.
  
- Audio application**
  - When Dolby audio is included in SDI signals or ST2022-6 streams, the bar display in the Audio application may indicate CRC errors.
  - When Dolby audio is included in SDI signals or ST2022-6 streams, undecoded Dolby data is sent out of the headphone port.
  - Selection of an audio channel pair (after pressing the Volume button in the Status Bar) is not saved as a preset.
  - Video must be present to monitor audio in ST2110 streams.
  
- IP Graphs application**
  - When the instrument is powered on with no IP input stream connected, the graphs in the IP Graphs application may show a false-event spike.
  - The TS-DF graph gets invalid data when PTP is locking.
  - The PIT graph may see a large value when changing inputs.
  
- PTP Graphs application**
  - The PTP Graphs application shows incorrect data when no PTP Master is present.
  - When the instrument does not lock to PTP, the measurements using PTP timing information can be corrupted. Set the PTP domain to a number that is not in use to avoid this issue.

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- PTP**
- When no PTP Master is present, the PTP message rates will be erroneously reported as infinite (INF).
- Control IP Port address assignment in DHCP mode**
- When you have the instrument configured so that the Control IP Port address is assigned using DHCP and a DHCP failure occurs, the Control IP Port address display in the Settings > Network submenu does not indicate that a DHCP failure has occurred. If you notice this issue, you may have to manually configure the Control IP Port address.
- SDI Out**
- If the PIT jitter is greater than 125  $\mu$ s, decoded content such as picture and waveform and the SDI Out signal may become unstable.
  - When the input signal is switched externally, the SDI output may take time to lock to the new signal.
  - ST2110 video is required on SFP+ Port 1 for loop-through on the SDI Out connector to work.
  - The SDI Out connector will not output a valid signal when the following ST2022-6 input signal formats are present:
    - 1080P 23.98, 24, 29.97
    - 1080sF 23.98, 25, 30
  - Loop-through of ST2110 SD input signals on the SDI Out connector is not supported.
  - Loop-through of 6G input signals on the SDI Out connector is not supported.
- SDI In**
- The instrument will not lock to a 12G-SDI signal without sync byte insertion. Sync byte insertion is required in the SMPTE ST 2082 standard.
- SFP+ ports**
- SDI SFP+ loop-throughs are not supported for SD formats.
  - Optical SFP+ modules, Active Direct Attach Cables (DACs), and Active Optical Cables (AOCs) are supported on the 10 GbE SFP+ ports. Passive DACs are not supported.

- Picture application**
- False color is only supported for HD and UHD formats.

- External displays**
- The MPI2 can drive a maximum of 1 external display. The MPX2 can drive a maximum of 2 external displays.

- SDI Generator application**
- The SDI generator will generate 3G Level A and 12G test patterns, but there is an inter-channel timing issue for these formats.
  - The color bar signal from generator application has an inter-channel timing issue, it should be used only for confidence monitoring.

- Version downgrading**
- Please note the following items before downgrading your software:
- It is strongly recommended not to downgrade to a version earlier than 1.7.1.
  - If you are downgrading to a software version earlier than 1.6, you will need to recreate or resave your presets after you downgrade.
  - If you are downgrading to a software version earlier than 1.6, Event Log and graph data will be deleted.