Tektronix®

PRISM
Media Analysis Platform

Release Notes

This document supports firmware version 1.5.

www.tek.com

077-1293-05

Contacting Tektronix

Tektronix, Inc.
14150 SW Karl Braun Drive
P.O. Box 500
Beaverton, OR 97077
USA

For product information, sales, service, and technical support:
- In North America, call 1-800-833-9200.
- Worldwide, visit www.tek.com to find contacts in your area.

Table of Contents

Release notes

This document describes new features, improvements, and limitations of firmware version 1.5 for the PRISM Media Analysis Platform.

New features

Version 1.5

The following new features were introduced with firmware version 1.5:

- New comprehensive production tool set supporting 4K / WCG / HDR content creation:
  - Waveform display settings added to support HDR monitoring
  - Stop Display application added for monitoring video signals with a variety of transfer functions in a consistent manner (requires Option MP-PROD)
  - Diamond application added to reliably detect invalid colors. (requires Option MP-PROD)
  - Dynamic range / color space conversion is available in Waveform, Vector and Diamond display applications, allowing operators to match the skin tone and the color in BT. 709 Gamma / Gamut display using the Convert to Rec. 709 setting (requires Option MP-PROD)
- SDI / IP hybrid interface supporting up to 4K resolution, up to 2160p60 format support with 12G-SDI / Quad 3G-SDI interface, and up to 1080p60 format with SMPTE 2022-6/7
- Quad Link input configuration and UHD/4K Mode added (requires MP-FMT-4K)
- Gamma and Color Gamut drop-down menus added to the input settings to define the characteristics of the video signal
- Flexible display configuration with Full / Quad / Vertical extended tile modes
- Eye Display application added to view an eye pattern diagram of the SDI input (requires Option PHY-12G)
- Jitter Display application added to display the wave shape of the jitter and allows for additional time-domain information (requires Option PHY-12G)
- Added the Message Center to view instrument messages and eject mounted devices

General limitations

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

Trace applications

- If Convert to Rec. 709 mode is enabled and the gamut exceeds the 709 gamut, traces may have distortions.
- Convert to Rec. 709 mode is not supported for SD signals.
- When two traces are selected in two tiles, a trace may sometimes flash. You can exchange the applications in those two tiles to stop the flashing.

IP Session application

- RTP Marker error detection does not work when a ST2110 stream is monitored.

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.

IP Graphs application (Option MP-IP-MEAS only)

- 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 and accuracy is improved when locked to PTP.
- The PIT graph may see a large value when changing inputs.
- The menu option for a 7 day trend interval has been removed. This option will be reinstated in a future firmware release. Any presets that have been saved with the 7 day trend interval will be changed to use the 1 day trend interval setting.

Video Session application

- The Video Session application is not applicable for ASPEN and ST2110-20 preview.

PTP Graphs application

- The PTP Graphs application shows incorrect data when no PTP Master is present.
- The menu option for a 7 day trend interval has been removed. This option will be reinstated in a future firmware release. Any presets that have been saved with the 7 day trend interval will be changed to use the 1 day trend interval setting.
- 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.

PTP message rate reporting

- 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.

ST2022-7 seamless switching

- The 10 GbE SFP+ port 2 cannot be used as a general purpose input. The port can be used only as Path 2 in a ST2022-7 system.

ST2110-20 preview

The following applications/features are not functional and should not be used with a ST2110-20 source. ST2110-20 is a preview of a feature to be available in a future software release.

- Timing application
- Video Session application
- HBRMT parameters and L5 RTP Marker bit in the IP Session application
- AUX SDI Output

SDI Out

- If the PIT jitter is greater than 125 µs, decoded content such as picture and waveform and the SDI Out signal may become unstable.
- 12G transport loop-throughs on the SDI SFP+ outputs are not supported (SD/HD/3G are supported). You can use the SDI Out connector for 12G loop-through, however, it must be selected for monitoring to appear at the connector.
- SDI Out nominal amplitude for 12G signals is 915 mV. Nominal amplitude for SD/HD/3G signals remains at 800 mV.