



PRISM
Media Analysis Platform
Release Notes

This document supports firmware version 1.0.

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Release notes

This document describes new features and limitations of firmware version 1.0 for the PRISM Media Analysis Platform.

New features

The PRISM Media Analysis Platform provides flexible options and field-installable upgrades to monitor a diverse variety of IP statistics as well as video and audio content. The comprehensive feature set, along with an intuitive and simplified graphical presentation of IP statistics, including video quality and diagnostic information, enables engineers to ensure the delivery of superior Quality of Service (QoS) levels in an increasingly complex broadcast environment involving compressed / uncompressed video transmission through SDI/IP signal paths.

PRISM is an ideal solution for monitoring SDI/IP hybrid environments including master control rooms, production studios, OB vans, and signal contribution/distribution centers.

Features and benefits

- A comprehensive analysis and monitoring tool for a hybrid SDI/IP broadcast systems that provides system evaluation for long term system quality monitoring and reporting
- Real time SDI/IP analysis and monitoring to quickly identify the issue to determine the root cause
- Graphical displays that show the traffic present in the 10G Ethernet link, allowing engineers to understand what is on their network and to easily select the stream of interest
- Select and view the desired content in the stream with picture, waveform and audio bar displays allowing visual confirmation of your content
- Detect IP packet errors, monitor the Packet Interval Time (PIT) and time stamped delay factor (TS-DF) to allow engineers to observe issues that may cause intermittent loss of Video, Audio or Data
- Analysis tools coupled with historical data give engineers the ability to understand and resolve complex and intermittent problems quickly
- Ensure proper PTP message timing and metadata setup to let the instruments accurately synchronize in the system
- Multipoint or remote site monitoring allowing one engineer to quickly respond to issues from multiple points in the system
- Build an extensive monitoring solution with the SDI signal decoded from the SMPTE 2022-6 stream

- The Picture application provides a full HD, 9-inch screen that can be used for confidence monitoring
- All-in-one instrument within 3RU half rack platform that can be used for either portable application or rack mount application

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.

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.
Picture application	The Picture application may display a glitch every 20 to 120 seconds. The glitch is limited to the Picture application and does not result in false errors being reported.
IP Graphs application (Option MPI-IP-MEAS only)	<ul style="list-style-type: none">■ 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.■ When the IP stream being monitored is changed, the graphs in the IP Graphs application may not immediately update to indicate the status of the new stream.
SDI signal lock	Occasionally, the instrument does not lock to the SDI signal input and the Status Bar does not display the detected video format. The workaround for this issue is to reboot the instrument.
SDI (AUX) output	When a decapsulated ST2022-6 IP stream is being output from the SDI (AUX) connector and the IP stream input is disconnected or the stream being monitored is changed, the output stream may experience interruption in the signal that could affect the operation of instruments receiving the signal.
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.
Time zone changes	When you make a change to the time zone offset in the Settings > Utilities > Time and Date submenu, the changes may not appear in the Status Bar or the Event Log.