



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

This document supports firmware version 1.4.2.  
[www.tek.com](http://www.tek.com)



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# Release notes

This document describes new features, improvements, and limitations of firmware version 1.4.2 for the PRISM Media Analysis Platform. The release is recommended for all PRISM products.

## New features

The following new features were introduced with firmware version 1.4.2:

- ST2022-7 seamless switching operation and monitoring.
- Headphone output is now active with volume, mute, and left/right audio pair selection.
- Standard Definition (SD) support for 525i and 625i on SDI and IP transports.
- New PTP Graphs application added. Includes Master-to-Slave delay and variance and Slave-to-Master delay and variance graphs.
- IP Graphs application: Path1-Path2 Differential graph added.
- New Timing application added, which shows video offsets from PTP timing.
- Stream capture of all data on a 10 Gbps input to a PCAP file (requires Option MP-IP-CAP).
- IGMPv3 support.
- API additions, including both out-of-band (through the control Ethernet port) and in-band (through the 10 Gbps port).
- ST2110-20 Preview: Early release of ST2110 video decode functionality.
- New MPX 1RU version of PRISM product.
- Added various performance enhancements and bug fixes.

## 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.

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| <b>Audio application</b>                                  | <ul style="list-style-type: none"><li>■ When Dolby audio is included in SDI signals or ST2022-6 streams, the bar display in the Audio application may indicate CRC errors.</li><li>■ When Dolby audio is included in SDI signals or ST2022-6 streams, undecoded Dolby data is sent out of the headphone port.</li></ul>   |
| <b>IP Graphs application<br/>(Option MP-IP-MEAS only)</b> | <ul style="list-style-type: none"><li>■ 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.</li><li>■ The TS-DF graph gets invalid data when PTP is locking and accuracy is improved when locked to PTP.</li><li>■ The PIT graph may see a large value when changing inputs.</li></ul> |
| <b>Video Session application</b>                          | <ul style="list-style-type: none"><li>■ The Video Session application is not applicable for ASPEN and ST2110-20 preview.</li></ul>  |
| <b>PTP Graphs application</b>                             | <ul style="list-style-type: none"><li>■ The PTP Graphs application shows incorrect data when no PTP Master is present.</li></ul>  |
| <b>PTP message rate reporting</b>                         | <ul style="list-style-type: none"><li>■ When no PTP Master is present, the PTP message rates will be erroneously reported as infinite (INF).</li></ul>  |
| <b>IP Status application</b>                              | <ul style="list-style-type: none"><li>■ The traffic table always shows data on both SFP ports, regardless of the IP Status setting (Port 1, Port 2, Both).</li></ul>  |
| <b>Control IP Port address assignment in DHCP mode</b>    | <p>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 &gt; 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.</p>                   |

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- 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.
  - If the ST2022-7 path differential becomes greater than 2.5 ms, decoded content such as picture and waveform and the SDI Out signal may become unstable. There will not be a problem if one of the paths completely goes away. Normal operation can be recovered by reducing the path differential to less than 2.5 ms and switching inputs.
- 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
  - IP Session application, HBRMT parameters only
  - The following audio functions are not available by definition (ST2110-20 is video only):
    - Audio application
    - Headphone output connector
    - Volume control
  - SDI Out connector is not active
- 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.
  - The SDI Out signal may exhibit intermittent CRC errors with 525i or 625i Standard Definition (SD) signals when the input selected is on the SDI IN 1 or 2 connectors. No issues have been identified when the input selected is on the SDI IN 3 or 4 connectors.