



PRISM 25GE  
Media Analysis Platform  
Release Notes

This document supports firmware version 2.0.1  
[www.tek.com](http://www.tek.com)



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# Release notes

This document describes new features, improvements, and limitations of firmware version 2.0.1 for the PRISM 25GE Media Analysis Platform.

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*NOTE. This software release only applies to the products*

*MPI2-25 and MPX2-25*

*MPI2-10 and MPX2-10 with 25GE upgrade kit*

*MPI and MPX with 25GE upgrade kit*

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## New features and improvements

- Support for the new MPI2-25 and MPX2-25 PRISM 25GE Media Analysis platforms.
- 10GE IP interfaces use SFP+ modules (10GBASE-SR and 10GBASE-LR).
- 25GE IP interfaces use SFP28 modules with option 25GE (25GBASE-SR and 25GBASE-LR).
- Uncompressed 4K/UHD 50/59.94/60 over ST2110-20 IP with option FMT-4K.
- Four SD/HD/3G SDI inputs are standard. 12G support on all inputs is available with option FMT-4K.
- 25GE upgrade kits are available for MPI, MPX, MPI2-10, and MPX2-10 products.

## Resolved Issues

- SDI 12G audio now works on SDI inputs 2, 3, and 4.
- Fixed reliability issues of NMOS operation in certain network environments.
- AUX Output of ST2110 UHD input signals is now supported.
- IP stream capture at 10/25GE is now supported.
- Aux Out is now stable if one ST2022-7 input is removed in the presence of errors.
- Locking to SDI 6G signals no longer requires first locking to a 12G signal.

## General limitations

- Check the Tektronix Web site ([www.tek.com/downloads](http://www.tek.com/downloads)) for any firmware updates to the PRISM monitor.
  
- SDI SFP Loop-through
  - SDI loop-through to SDI SFP modules is not yet supported.
  
- 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.
  - ST2110-21 VRx and CMAX measurements are not supported in SD and 4K/UHD formats.
  
- 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
  - Audio application may indicate CRC errors for Dolby stream except Dolby E format.
  - When Dolby audio is included in SDI signals or ST2022-6 streams, undecoded Dolby data is sent out of the headphone port.
  - There is no description in `api / help` for Audio Session.
  - SDI 6G audio is not supported.
  
- Preset
  - Presets don't save:
    - HDR measurement thresholds in Picture Settings,
    - Dolby program to decode in Audio application Settings,
    - Audio channel pair that appears after pressing Volume in the Status bar.

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|---|---|
| IP Graphs application                           | <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.</li><li>■ The PIT graph may see a large value when changing inputs.</li></ul>   |
| PTP Graphs application                          | <ul style="list-style-type: none"><li>■ The PTP Graphs application shows incorrect data when no PTP Master is present.</li><li>■ 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.</li></ul>   |
| PTP   | <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><li>■ If PTP in Mixed SMPTE mode will not lock, try setting Communication Mode to Multicast and then back to Mixed SMPTE mode.</li></ul>   |
| Control IP Port address assignment in DHCP mode | <ul style="list-style-type: none"><li>■ 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 this issue occurs, you may have to manually configure the Control IP Port address.</li></ul>  |
| AUX Out   | <ul style="list-style-type: none"><li>■ If the PIT jitter is greater than 125 <math>\mu</math>s, decoded content such as picture and waveform and the AUX Out signal may become unstable.</li><li>■ When the input signal is switched externally, the AUX Output may take time to lock to the new signal.</li><li>■ The AUX Out connector will not output a valid signal when these ST2022-6 input signal formats are present:<ul style="list-style-type: none"><li>- 525i 59.94</li><li>- 1080P 23.98, 24, 29.97</li><li>- 1080sF 23.98, 25, 30</li></ul></li><li>■ AUX Output of ST2110 SD input signals is not supported.</li><li>■ AUX Output of 6G SDI input signals is not supported.</li></ul> |

- SDI Input
  - 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.
  
- IP Input
  - A reboot is recommended after changing Data Rate or FEC settings in Settings > Network > Video IP Port.
  
- Picture application
  - False color is only supported for HD and UHD formats.
  
- 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
  - Downgrading to versions earlier than 2.0 is not allowed for instruments with 25GE hardware.