

PRISM

SDI/IP Waveform Monitor



Introducing PRISM

In the competitive media and entertainment industry, success relies on superior content and quality delivery. The PRISM family helps ensure both, through tools that meet the required diagnostic and analysis needs. Whether you need an instrument for engineering, the creative team, or both, PRISM delivers:

- SD, HD, 1080P, 2K, 4K, 8K resolutions/formats.
- Four (4) SDI inputs, up to 12G
- Two (2) IP video ports up to 25G supporting ST 2110, ST 2110-22, ST 2022-7, ST 2022-6 and PTP
- Multi input monitoring supports a mix of up to four SDI or IP inputs. With the ability to support even four 2110-22 streams.
- Audio Metering up to 32 channels/program
- Dolby ED2/E/D/D+ audio via SDI and ST 2110-30/31
- Objective HDR and Wide Color Gamut Measurements, Tools and Error detection
- User Configurable 3D LUT for four UHD inputs

All in a compact package with no compromise on flexibility or performance.

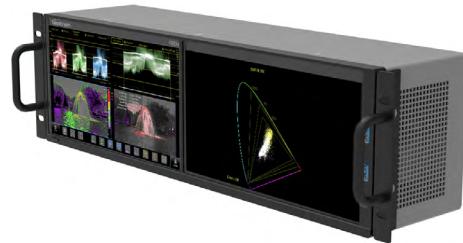
Which Form Factor Fits Your Application?

Simply select the form factor and connectivity you need.
The PRISM software does the rest.



PRISM MPS Series

- Integrated Touchscreen
- 3RU height, Half Rack width, 5" depth
- MPS-100 SDI connectivity
- MPS-200 SDI and IP connectivity
- MPS-300 SDI, IP connectivity with SDI Eye/Jitter measurements



PRISM MPD Series

- Dual Integrated Touchscreen
- 3RU height, Full Rack width, 5" depth
- MPD-100 SDI connectivity
- MPD-200 SDI and IP connectivity
- MPD-300 SDI, IP connectivity with SDI Eye/Jitter measurements

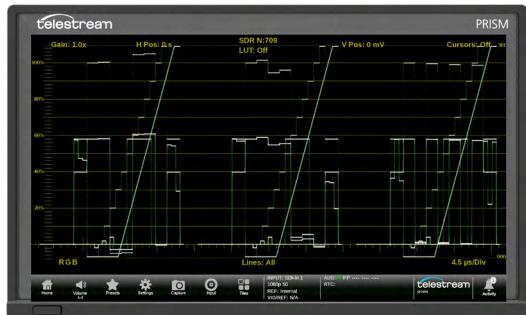


PRISM MPP Series

- Purposefully built for quiet workspace
- SDI inputs with loop through
- Two Display Ports are available to drive external PC displays
- 1RU Full Rack width with 11" depth
- MPP-100 SDI connectivity
- MPP-200 SDI / IP connectivity, 8ch Analog Audio output
- MPP-300 SDI / IP connectivity with SDI EYE/Jitter measurement, 8ch Analog Audio output

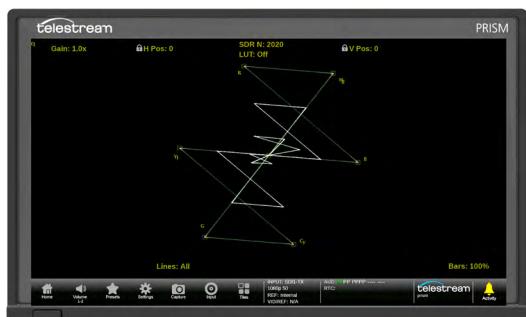
Standard Apps

The base model is equipped with a rich set of standard applications



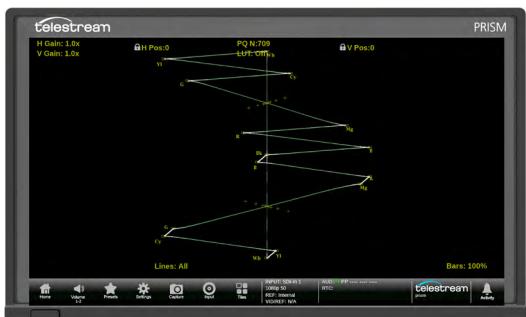
Waveform Display

Provides an array of configurations for various display of YPbPr, YRGB or RGB with a variety of Gain, Sweep, Mag and Line Select functions and the ability to add cursors for precise measurement within the trace.



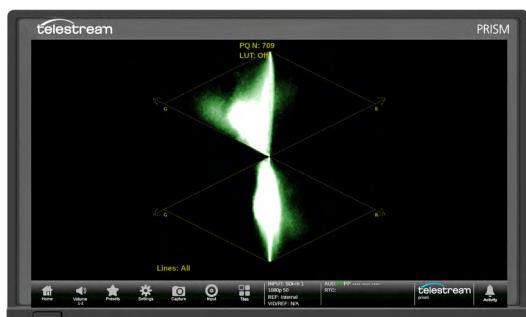
Vector Display

Allows the user to adjust the Saturation and Hue of the color components with adjustment of Gain, Line Select or bar format (100% / 75%).



Lightning Display

An X-Y plot of Luma versus Pb in the upper trace and negative Luma versus Pr in the lower trace for easy identification of the component. Provides inter-channel timing of the YPbPr components and simple adjustment of the black level using Gain and MAG.



Diamond Display

Provides an X-Y Plot of G versus B in upper trace and G versus R in lower trace for easy identification of RGB components. Used by Camera Shaders and Colorist for simple adjustment of the RGB signal.



Picture Display

Shows a decoded image of the currently selected input. For visual identification of the image and to aid in troubleshooting issues.



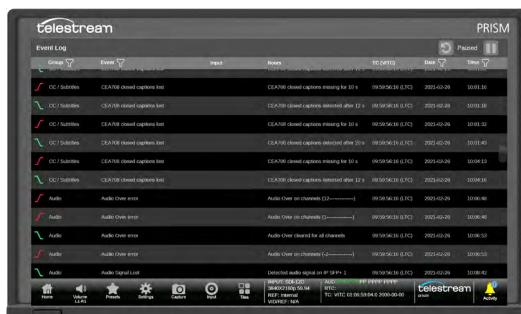
Video Session

Provides a summary of the SDI Format with SDI VPID SMPTE ST352, Bit Level and CRC Status. For IP streams provides summary of Format with VPID SMPTE ST352, Bit Level and ST 2110-22 JPEG XS when decoded with option JPXS.



Audio Display

For the selected input audio levels can be shown for each audio channel with in-bar indication for such events as over, clip, mute and silence. With configurable ballistics for True Peak, PPM1 and PPM2.



Event Log

Shows a list of alarm events related to Source and Time the event occurred relative to internal time or derived from the input Timecode or PTP Time.



Timing Display

Show the input timing relative to the reference of Black Burst, Tri-Level or PTP (Requires option IP-MEAS) and allows the user to make simple timing adjustments to ensure synchronization within the facility.



External Reference Display

When an analog reference is connected to the rear of the instrument this display will show the waveform trace of NTSC, PAL or Tri-Level Sync signal with a variety of Gain Sweep and Mag controls.

IP Status						
	Port	STRM	PROTOCOL	BITRATE	PAYLOAD	DEST IP
✓	Port 1: OK	-	S2110.20	10.42 Gbps	96	229.20.10.1.50000
	Total: 10.47 Gbps					192.168.100.200.50000
✓	Port 2: OK	-	S2110.20	10.42 Gbps	96	229.20.10.1.50000
	Total: 10.47 Gbps					192.168.100.200.50000
✓	11	1	S2110.20	10.42 Gbps	96	229.20.10.1.50000
✓	14	2	-	S2110.20	10.42 Gbps	96
✓	10	3	S2110.30	6.016 Mbps	97	229.30.16.1.50000
✓	6	1	S2110.30	6.016 Mbps	97	229.30.17.1.50000
✓	8	2	S2110.30	6.016 Mbps	97	229.30.18.1.50000
✓	6	3	S2110.30	6.016 Mbps	97	229.30.19.1.50000
✓	7	4	S2110.30	6.016 Mbps	97	229.30.10.1.50000
✓	8	5	S2110.30	6.016 Mbps	97	229.30.11.1.50000
✓	6	6	S2110.30	6.016 Mbps	97	229.30.11.1.50000
✓	4	7	S2110.30	6.016 Mbps	97	229.30.11.1.50000
✓	3	8	S2110.30	6.016 Mbps	97	229.30.11.1.50000
✓	10	9	S2110.30	6.016 Mbps	97	229.30.16.1.50000
✓	6	10	S2110.30	6.016 Mbps	97	229.30.17.1.50000
✓	11	11	S2110.30	6.016 Mbps	97	229.30.18.1.50000
✓	12	12	S2110.30	6.016 Mbps	97	229.30.19.1.50000
✓	13	13	S2110.30	6.016 Mbps	97	229.30.10.1.50000
✓	14	14	S2110.30	6.016 Mbps	97	229.30.11.1.50000
✓	15	15	S2110.30	6.016 Mbps	97	229.30.12.1.50000
✓	16	16	S2110.30	6.016 Mbps	97	229.30.13.1.50000
✓	17	17	S2110.30	6.016 Mbps	97	229.30.14.1.50000
✓	18	18	S2110.30	6.016 Mbps	97	229.30.15.1.50000
✓	19	19	S2110.30	6.016 Mbps	97	229.30.16.1.50000
✓	20	20	S2110.30	6.016 Mbps	97	229.30.17.1.50000
✓	21	21	S2110.30	6.016 Mbps	97	229.30.18.1.50000
✓	22	22	S2110.30	6.016 Mbps	97	229.30.19.1.50000
✓	23	23	S2110.30	6.016 Mbps	97	229.30.10.1.50000
✓	24	24	S2110.30	6.016 Mbps	97	229.30.11.1.50000
✓	25	25	S2110.30	6.016 Mbps	97	229.30.12.1.50000
✓	26	26	S2110.30	6.016 Mbps	97	229.30.13.1.50000
✓	27	27	S2110.30	6.016 Mbps	97	229.30.14.1.50000
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✓	84	84	S2110.30	6.016 Mbps	97	229.30.11.1.50000
✓	85	85	S2110.30	6.016 Mbps	97	229.30.12.1.50000
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✓	107	107	S2110.30	6.016 Mbps	97	229.30.14.1.50000
✓	108	108	S2110.30	6.016 Mbps	97	229.30.15.1.50000
✓	109	109	S2110.30	6.016 Mbps	97	229.30.16.1.50000
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✓	119	119	S2110.30	6.016 Mbps	97	229.30.16.1.50000
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✓	130	130	S2110.30	6.016 Mbps	97	229.30.17.1.50000
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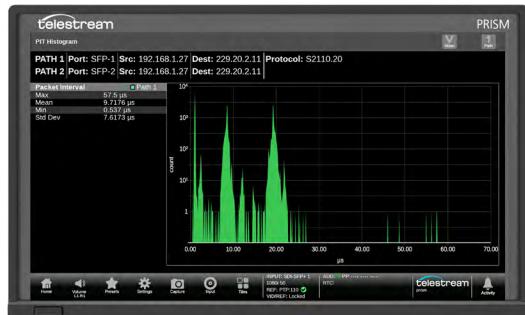
Optional Apps

Expands the standard capabilities to unlock a wide range of measurement to address your specific application.



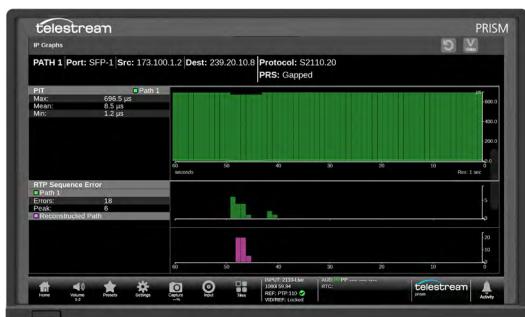
IP Session

IP Session provides a summary of information for the decoded stream. With information on Layer 1 and 2. Along with syntax information on the video, audio and data streams. Summary information is provided on PTP and NMOS applications to assist the user in diagnosing problems. Requires option IP-MEAS to be installed in the instrument.



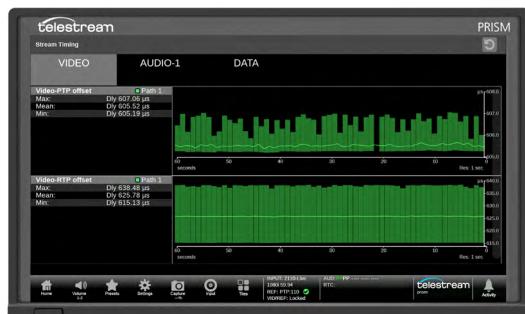
PIT Histogram

PIT Histogram provides a graphical plot of the packet arrival times of the signal being decoded for video, audio and data. The characteristic signature of the Histogram can be used to diagnose the type of Sender and help determine issues with network congestion. Requires option IP-MEAS to be installed in the instrument.



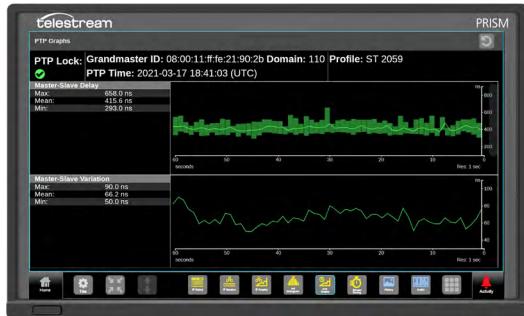
IP Graphs

IP graphs provides graphical plots of parameter such as Total Bit Rate, Session Bit Rate, PIT arrival time and RTP Sequence Errors. These graphs can be plotted from the last 60 seconds to twenty-four hours. Allow users to see trending information of their decoded streams over time. Requires option IP-MEAS to be installed in the instrument.



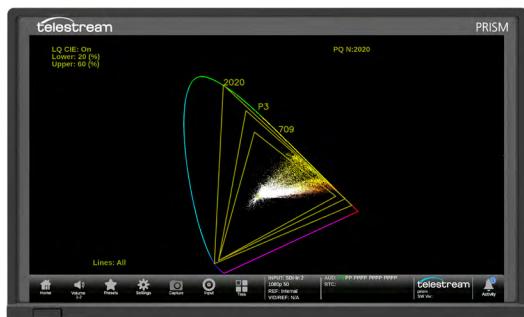
Stream Timing

Provides graphical plots of the timing for ST 2110 video, audio and data. Comparing the data as it was received by PRISM relative to the embedded RTP time stamps and PTP. Stream Timing can be used to check the synchronization of each sender to PTP for the various flows. Requires option IP-MEAS to be installed in the instrument.



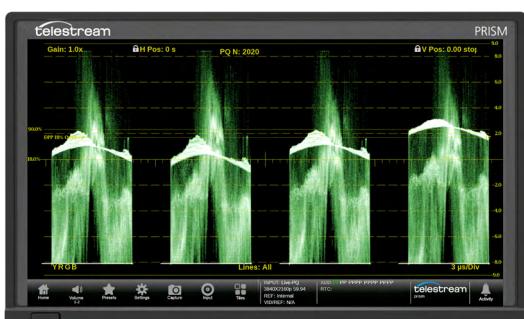
PTP Graphs

Trending graphs of various performance parameters of the PTP signal can be plotted from 60 seconds to 24 hours. Allowing users to track the stability of PTP within the network. Requires option IP-MEAS to be installed in the instrument.



CIE Display

Video data is plotted as either a 1931 or 1976 CIE diagram. This display can be used to check the chromaticity of the video signal and determine compliance to specific gamut limits such as BT.2020, DCI-P3 or Rec 709. With Luma Qualified CIE the user can define a luma range that constrains the display. Requires option PROD to be installed in the instrument.



Stop Display

The Telestream Stop Display provides a tool to monitor the video signal with a variety of transfer functions in a consistent manner. This simplifies monitor of camera raw and High Dynamic Range (HDR) content to provide a consistent look. Requires option PROD to be installed in the instrument.



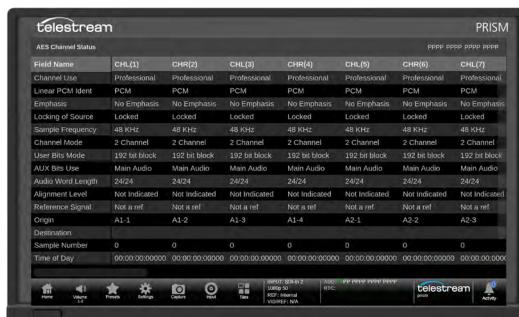
CAM

Camera Alignment Monitoring allows the user to monitor up to four SDI waveform inputs simultaneously. This is ideal for camera balance and shading applications allowing the user to compare levels across the various inputs in YRGB parade. A thumbnail and input identification are also available in this mode. Requires option MULTI to be installed.



Dolby Status

This display shows the Dolby Metadata present within the Dolby signal or present within an ANC Packet as standardized in SMPTE ST 2020. The AUD option is required and if the user want to decode the Dolby signal option DLBY is required.



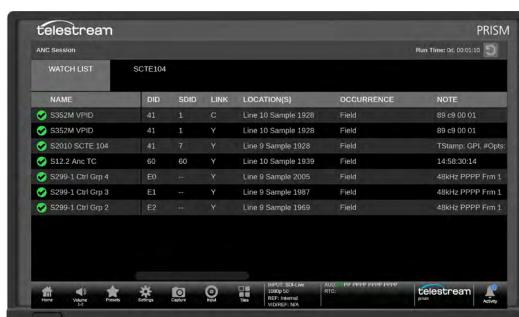
AES Channel Status

AES Channel Status display provides information on the audio signals Channel Status bits. When the Channel Use mode is shown as Profession the syntax can be automatically decoded. The AUD option is required for this application.



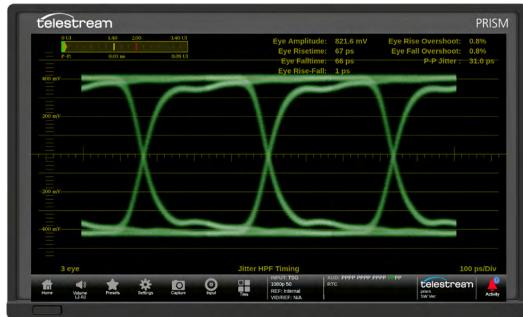
Datalist

Datalist display can be used to view the samples of the SDI signals. The user can search through the data for Start of Active Video (SAV) or End of Active Video (EAV) or the next ANC Data packet. Option ENG-QC is required for this application.



ANC Session

ANC Session provides a watchlist of the available Ancillary Data types present within the signal and provides information on DID, SDID, Link, location and occurrence of the packets. With decode of SCTE 104 messaging. Option ENG-QC is required for this application.



Eye Display

The Eye Display provides a measurement of the SDI physical layer for Timing and Alignment with automated measurements. The Eye Display feature is available in MPS300, MPD300, and MPP300 as standard. Option FMT-4K to enable the support for 6G and 12G SDI.



Jitter Display

The Jitter Display can be used in conjunction with the Eye display to measure the physical layer of the SDI signal. The Jitter Display feature is available in MPS300, MPD300, and MPP300 as standard. Option FMT-4K to enable the support for 6G and 12G SDI.

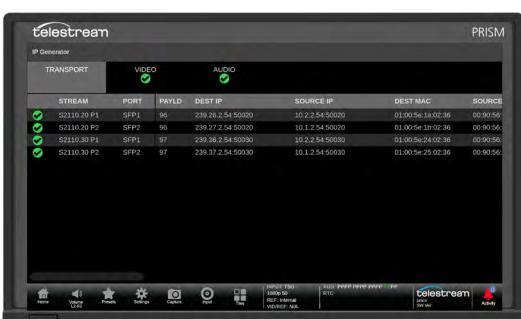


AV Delay

The Audio to Video Delay measurement measures the presentation time difference of Audio and Video using the AV Timing mode test signal (Flash & Pop) generated by the Telestream Sync Pulse Generator products. The user can measure lip sync timing of PCM / Dolby over SDI, ST 2110 and ST 2022-6 signals. Option ENG-QC is required for this application.

IP Display & Generator

IP Generator provides a simple test pattern generator for ST 2110 for color bars and audio tones. Requires GEN option. IP Display outputs ST2110-20 stream of PRISM UI image. PRISM MPD models and units in EXTNDSP mode output two ST 2110-20 streams to transmit both left and right display images.



SDI Generator

SDI Generator provides a simple test pattern generator with color bar test signal. Requires GEN option.



Customization and Personalization

PRISM is designed to be used in multiple applications from HD-SDI Live Acquisition to 25G ST 2110 IP Engineering and diagnostics. Software modules Options can be added any time to customize the instrument to meet the needs of job at hand.

The software based UI can then be personalized to meet the needs of the individuals on the team and how they like to work. These configurations can be stored as presets for quick instrument setup when needed.

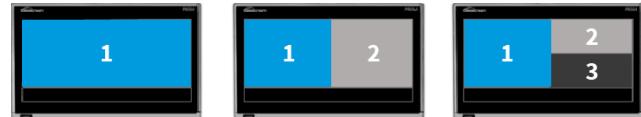


With multiple ways to mount and install the instrument and multiple ways to interact with, and control the instrument, PRISM fits comfortably into any environment.

Flexible Display Configurations

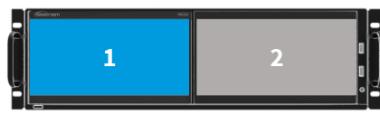
Single Display

Flexible tile configurations provide full screen, two, three and four tile layouts giving flexibility in selecting a variety of software apps for your specific application while still allow easy viewing of each display. Each layout can be customized for each user and assigned as a preset.



Dual Display

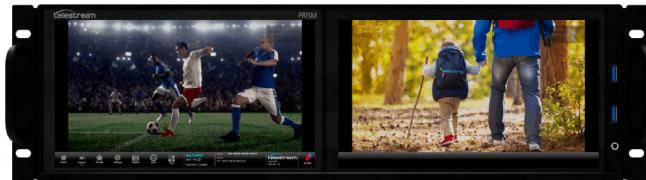
With Dual screen displays each display can be configured the same way you can configure a single screen instrument providing an abundance of ways to personalize the user experience. Your layout can go from two full tiles to a total of eight quarter tile display applications and anything in between.



Multi-Input Monitoring for SDI, ST2110 and ST2110-22 (JPEG XS)

With the MULTI option operators can easily compare different input channels using various formats SDI, IP ST2110 and ST 2110-22 (JPEG-XS). Using the wide variety of Apps within PRISM that can be tailored to meet your applications. With the JPEG XS license, PRISM supports up to four simultaneous ST2110-22 streams that can be decoded, ideal for remote production where compressed UHD camera feeds are monitored at the facility. These various configurations can be saved as presets for easy recall and gives

operators and engineers the ability to customize multiple inputs and applications to suit their needs from camera shading to color correcting with HDR and SDR content.



Remote Connectivity

Engineering and production staff increasingly need to work remotely, and PRISM can be controlled via webRTC or noVNC using the same UI that can be accessed from the front panel. Providing the user with fully featured access to the monitoring and measurement applications available within PRISM.

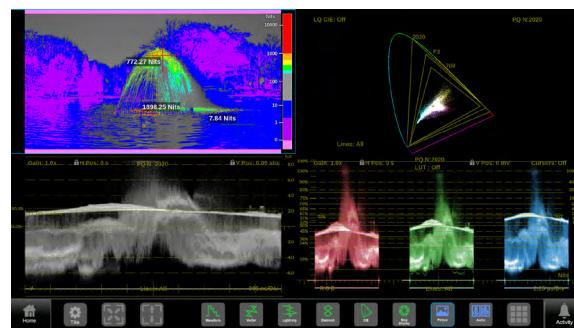
WebRTC offers the ability to stream the display via a Chrome web browser for real-time update of the displays and ability to listen to audio of the selected channels. Recordings can be made from the browser and saved to your local PC for

help review or troubleshooting issues. Remotely configure and export presets, download the event log and use Syslog for remote analysis of events and alarms.



High Dynamic Range Exposure Measurement

Managing exposure is key to the creation of great content. PRISM provides a mix of traditional and new tools such as False Color Displays, ST0P waveform, Lightmeter and User configurable 3D LUTs for managing S-Log 2, S-Log 3, Log-C, HLG and PQ gamma curves to enable objective level and luminance area measurements to ensure consistency.

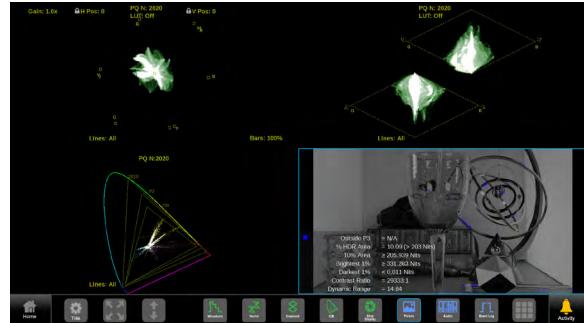


Wide Color Gamut and Color Management

The combination of high resolution, wide color gamut and high dynamic range can bring the image to life.

PRISM provides all the tools needed to balance your camera, check color consistency and master in multiple color spaces. The Vector and Luma Qualified CIE chart displays provide adjustment of color for Rec. 709 and 2020 color spaces. The Telestream Diamond display simplifies adjustment of the R/G/B components.

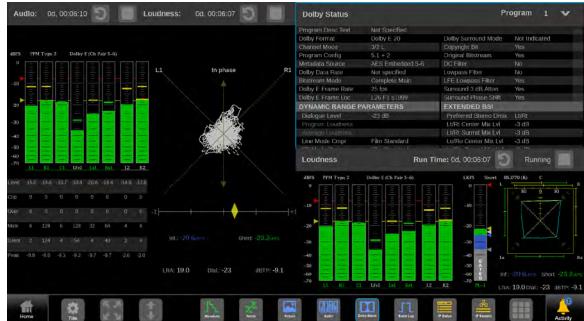
The Luma Qualified CIE charts ensure compliance for Rec. 709, 2020 and DCI P3 with Banded False Color Gamut overlays in the picture display make it easy to identify colors that are outside the DCI-P3 or Rec.709 color space.



Audio Monitoring

PRISM provides a set of audio monitoring tools for embedded audio and ST 2110-30 or -31. Including configurable audio bars, Loudness measurement, Surround Sound, Lissajous phase, and Audio Session displays, for monitoring multi-channel 5.1, 7.1 and 7.1.4 mixes with Dolby Digital and E decoding. Dolby ED2 is supported for Metadata display in Dolby Status. Display up to 32 Channels of audio for 4K/8K productions.

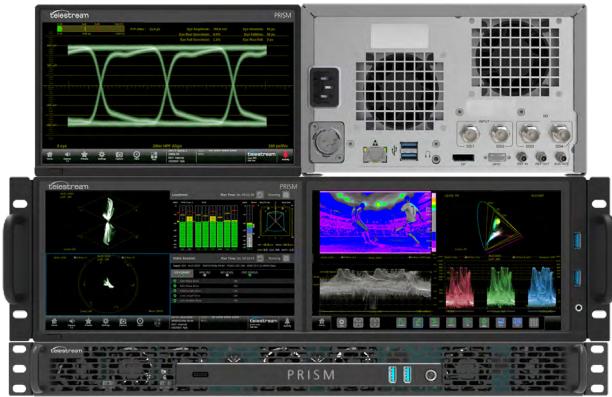
Listen to the selected audio channels or downmixed stereo channels via headphones. For post-production applications the MPP200/300 offer eight channel analog audio outputs for de-embedding audio from SDI and IP streams or by decoding Dolby D/E to 5.1 or 7.1 outputs.



MPP300 front and rear panels

SDI Monitoring

The MPS, MPD and MPP 100 series offer SDI only configurations of the PRISM family of waveform monitors. Offering a range of tools to suite a variety of monitoring applications with four SDI inputs that support from SD-SDI to 8K. With the ability to monitor HDR and SDR using waveform and STROB displays. Supporting 709 and 2020 color spaces with traditional vector and CIE displays. For monitoring of SDI embedded audio. The 100 series offers audio levels, Lissajous, loudness monitoring and RTW surround display. The variety of software applications can be tailored to suit your application from camera balance to post-productions or network operations.



SDI Engineering and Maintenance

Ensuring continued operation of equipment within the facility or network is critical to maintaining a high quality. The Telestream PRISM provides an extensive set of tools to aid in troubleshooting problems and diagnosing issues. For SDI a 12G Eye display can be used to check on the health of transmission of the signal.

With the Datalist and ANC Session allowing investigation of metadata issues to ensure SCTE104, Closed Captions and AFD are present within the signal and being decoded correctly.

For validation of Lip Sync issues AV Delay measures the timing difference between audio to video using a simple flash pop sequence generated by the Telestream SPG and provides a measurement of advance or delay for up to 16 channels.



IP Facility Design, Commissioning and Maintenance

The transition to IP needs a comprehensive tool set to provide visibility of your Audio, Video and Data streams throughout the network.

PRISM provides 10GE support for ST 2022-6, ST 2022-7 and ST 2110 as standard with simple software upgrade to 25GE connectivity. Straightforward monitoring of IP streams with measurement applications to help characterize network performance and troubleshoot issues. With MULTI input support the user can compare the IP and SDI formats across the facility. With support of ST2110-22 (JPEG XS) user can send low latency compressed streams, saving bandwidth within the IP Media infrastructure.



Broadcast Monitoring across the network

See the bigger picture of what is happening across the whole of the network 24/7 and respond to issues quickly and decisively. PRISM and the Telestream INSPECT work in conjunction to provide large scale monitoring by exception, network visibility and deep content and stream diagnostics at the click of a button. The complete Engineering and Operations solution all from one company that can grow as your network grows.



Live Production

Live production is a high-pressure environment for Video Shaders and the Engineer in Charge. They need the right tools to help them setup the OB Truck quickly and reliably. Once the event starts the Shaders need easy to use instruments and easy to understand displays to allow them to make camera adjustment decisions quickly and accurately regardless of whether it is an HDR or an SDR production.

Customizable UI's, managed presets and specialist tools for exposure and color makes PRISM the ideal tool for this environment. Manage exposure multiple ways using the waveform, false color picture display, Stop display and Lightmeters. Manage color using the vector display, diamond display, CIE chart, and false color picture display for gamut. With MULTI options users can monitor up to four SDI or IP inputs simultaneously to make



comparisons of multiple cameras or compare SDR to HDR content. Additionally Tally/UMD (Under Monitor Displays) support on PRISM allows source label information and channel indication to be shown in picture.

PRISM provides all the tools that the Shading team would expect and more.

Post Production

Quickly delivering high-quality content is critical to success as a Post Production professional. Editors and colorists need trusted, easy-to-use, tools to help accurately adjust exposure levels, manage looks, match color and exposure between scenes, and much more.

PRISM provides an array of both unique and traditional tools to manage exposure and color. These include Stop displays for easily measuring signal levels on the same scale you manage light levels; Luma Qualified CIE charts allowing colorist to check the color within the specified luminance level to create scene director intended; customizable false color image overlays to easily identify exposure and color gamut anomalies; and colored RGB Parade display, and traditional waveform and vector displays. These tools are wrapped in a proven UI, with usability features like a large floating timecode display and easy-to-read AFD / safe area / center graticules, that can be personalized to let you work the way you

team and workflows need it to work. For applications beyond the needs of broadcast television, PRISM supports DCI 2048x1080, 4096x2160 4K sources. The growing list of formats includes 10 or 12bit RGB via SDI at frame rates of 23, 24, 25, 29, and 30p; and 10bit YCbCr via ST 2110-20 at 23, 24, 25, 29, 30, 50, 59, and 60p, among others.

The PRISM preset system; event log; and audio, video, and data toolsets make technical QC and mastering a structured and repeatable process. Get it done right, first time, every time.



Camera Shading

In the fast-paced production of live sports and events, operators need to make quick adjustment of camera controls. This is done to produce a consistent look across the multiple cameras at the event. Changing lighting conditions and various camera angles within a live production can make it challenging.

The PRISM CAM app allows for operators to monitor up to four SDI inputs simultaneously and view waveforms in Y or RGB or YRGB across all the selected inputs, with the ability to show thumbnail pictures and format labels to help identify each signal. By parading the multiple inputs in one display, the operator can easily compare the video levels of each camera and make adjustment to ensure each camera is matched.



The CAM display is available as part of the MULTI option within PRISM. That also allows support for up to four input that can be a mix of SDI and IP formats. Tally/UMD support provides information to the operator with source labels and current state of the input in Red, Amber or Green.

Regulatory Compliance

Broadcasters are responsible for ensuring that their content meets regulatory compliance requirements. PRISM provides a complete toolset for Technical QC and compliance checking.

Closed Captions support for CEA-608/708 ARIB STD-B37, World Standard Teletext (WST) and TTML over ST2110-43 with decode of subtitle pages using OP47/ST2031 Ancillary data SCTE104 data can be monitored in ANC Session and logged in Event Log. Adjust Test level and Program peak level in Audio bar display to monitor audio level with facility standard.

Loudness monitoring that supports EBU R128:2014, ATSC A/85:2013 and BS.1770-2. Gamut monitoring that supports EBU R103-3 (2020).



PRISM

Tech Specs



The PRISM Family

MPS Model



MPD Model



MPP Model



Model	Form Factor	Depth	Interface	SDI Inputs Capability (4 x 12G SDI)*	IP Inputs Capability (2 x 10G/25G)*	Eye Measurement capability (12G SDI)*	Format Support (SD,HD,3G,4K,8K)*	Power Input
MPS-100	3RU, Half-rack	5"	1920 x 1080 9" Touchscreen x 1	Standard	X	X	Standard	AC/DC
MPS-200	3RU, Half-rack	5"	1920 x 1080 9" Touchscreen x 1	Standard	Standard	X	Standard	AC/DC
MPS-300	3RU, Half-rack	5"	1920 x 1080 9" Touchscreen x 1	Standard	Standard	Standard	Standard	AC/DC
MPD-100	3RU, Full-rack	5"	1920 x 1080 9" Touchscreen x 2	Standard	X	X	Standard	AC
MPD-200	3RU, Full-rack	5"	1920 x 1080 9" Touchscreen x 2	Standard	Standard	X	Standard	AC
MPD-300	3RU, Full-rack	5"	1920 x 1080 9" Touchscreen x 1	Standard	Standard	Standard	Standard	AC
MPP-100	1RU, Full-rack	11"	External Monitor	Standard	X	X	Standard	AC
MPP-200	1RU, Full-rack	11"	External Monitor	Standard	Standard	X	Standard	AC
MPP-300	1RU, Full-rack	11"	External Monitor	Standard	Standard	Standard	Standard	AC

Video Format Support

Supported SDI video formats

Link	Format	Sample Structure	Bits	Frame/field rate	Audio	Option
SD-SDI	525i	4:2:2 YCbCr	10b	59.94i	16ch	Standard
	625i	4:2:2 YCbCr	10b	50i	16ch	Standard
HD-SDI	1280x720	4:2:2 YCbCr	10b	23.98/24/25/29.97/30/50/59.94/60p	16ch	Standard
	1920x1080	4:2:2 YCbCr	10b	50/59.94/60i, 23.98/24/25/29.97/30p, and psF	16ch	Standard
3G SDI Level A	2048x1080	4:2:2 YCbCr	10b	29.97/30p, and psF	8ch	Standard
	2048x1080	4:2:2 YCbCr	10b	23.98/24/25p, and psF	16ch	Standard
3G SDI Level B	1920x1080	4:2:2 YCbCr	10b	50/59.94/60p	16ch	Standard
	2048x1080	4:2:2 YCbCr	10b	47.95/48/50/59.94/60p	16ch	Standard
	1920x1080	4:4:4 RGB	10b/12b	23.98/24/25/29.97/30p	16ch	PROD*
	2048x1080	4:4:4 RGB	10b/12b	23.98/24/25/29.97/30p	16ch	PROD*
3G SDI Level B	1920x1080	4:2:2 YCbCr	10b	50/59.94/60p	16ch	Standard
	2048x1080	4:2:2 YCbCr	10b	59.94/60p	8ch	Standard
	2048x1080	4:2:2 YCbCr	10b	47.95/48/50p	16ch	Standard
	1920x1080	4:2:2 YCbCr	10b/12b	23.98/24/25/29.97/30p	16ch	PROD*
	2048x1080	4:4:4 RGB	10b/12b	29.97/30p	8ch	PROD*
	2048x1080	4:4:4 RGB	10b/12b	23.98/24/25p	16ch	PROD*

Link	Format	Sample Structure	Bits	Frame/field rate	Audio	Option
Quad Link HD-SDI Square Division	3840x2160	4:2:2 YCbCr	10b	23.98/24/25/29.97/30p, and psF	16ch from Link A	FMT-4K*
	4096x2160	4:2:2 YCbCr	10b	23.98/24/25p, and psF	16ch from Link A	FMT-4K*
	4096x2160	4:2:2 YCbCr	10b	29.97/30p, and psF	8ch from Link A	FMT-4K*
Quad Link 3G-SDI Level A, Square Division	3840x2160	4:2:2 YCbCr	10b	50/59.94/60p	16ch from Link A	FMT-4K*
	4096x2160	4:2:2 YCbCr	10b	47.95/48/50/59.94/60p	8ch from Link A	FMT-4K*
	3840x2160	4:4:4 RGB	10b/12b	23.98/24/25/29.97/30p	16ch from Link A	FMT-4K* and PROD*
	4096x2160	4:4:4 RGB	10b/12b	23.98/24/25/29.97/30p	16ch from Link A	FMT-4K* and PROD*
Quad Link 3G-SDI Level B, Square Division	3840x2160	4:2:2 YCbCr	10b	50/59.94/60p	16ch from Link A	FMT-4K*
	4096x2160	4:2:2 YCbCr	10b	47.95/48/50/59.94/60p	8ch from Link A	FMT-4K*
	3840x2160	4:4:4 RGB	10b/12b	23.98/24/25/29.97/30p	16ch from Link A	FMT-4K* and PROD*
	4096x2160	4:4:4 RGB	10b/12b	23.98/24/25/29.97/30p	16ch from Link A	FMT-4K* and PROD*
Quad Link 3G-SDI Level A, Two Sample Interleave	3840x2160	4:2:2 YCbCr	10b	50/59.94/60p	16ch from Link A	FMT-4K*
	4096x2160	4:2:2 YCbCr	10b	47.95/48/50/59.94/60p	8ch from Link A	FMT-4K*
	3840x2160	4:4:4 RGB	10b/12b	23.98/24/25/29.97/30p	16ch from Link A	FMT-4K* and PROD*
	4096x2160	4:4:4 RGB	10b/12b	23.98/24/25/29.97/30p	16ch from Link A	FMT-4K* and PROD*
Quad Link 3G-SDI Level B, Two Sample Interleave	3840x2160	4:2:2 YCbCr	10b	50/59.94/60p	16ch from Link A	FMT-4K*
	4096x2160	4:2:2 YCbCr	10b	47.95/48/50/59.94/60p	8ch from Link A	FMT-4K*
	3840x2160	4:4:4 RGB	10b/12b	23.98/24/25/29.97/30p	16ch from Link A	FMT-4K* and PROD*
	4096x2160	4:4:4 RGB	10b/12b	23.98/24/25/29.97/30p	16ch from Link A	FMT-4K* and PROD*
6G-SDI	3840x2160	4:2:2 YCbCr	10b	23.98/24/25/29.97/30p	16ch	FMT-4K*
	4096x2160	4:2:2 YCbCr	10b	23.98/24/25p	16ch	FMT-4K*
	3840x2160	4:2:2 YCbCr	10b	29.97/30p	8ch	FMT-4K*
12G-SDI	3840x2160	4:2:2 YCbCr	10b	50/59.94/60p	16ch	FMT-4K*
	4096x2160	4:2:2 YCbCr	10b	47.95/48/50/59.94/60p	16ch	FMT-4K*
	3840x2160	4:4:4 RGB	10b/12b	23.98/24/25/29.97/30p	16ch	FMT-4K* and PROD*
	4096x2160	4:4:4 RGB	10b/12b	23.98/24/25p	16ch	FMT-4K* and PROD*
	4096x2160	4:4:4 RGB	10b/12b	29.97/30p	8ch	FMT-4K* and PROD*
Quad Link 12G-SDI, Two Sample Interleave	7680x4320	4:2:2 YCbCr	10b	50/59.94/60p	32ch from Link A/B	FMT-8K*

*When ordering MPS, MPD or MPP series add a prefix MPSDP- for the specific option for example FMT-4K would be MPSDP-FMT-4K
 Note: MPSDP-FMT-8K license includes the formats supported by MPSDP-FMT-4K license.

Supported video formats in SMPTE 2022-6 Streams

Link	Format	Sample Structure	Bits	Frame/field rate	Option
SD-SDI	525i	4:2:2 YCbCr	10b	59.94i	Standard
	625i	4:2:2 YCbCr	10b	50i	Standard
HD-SDI	1920x1080	4:2:2 YCbCr	10b	50/59.94/60i, 23.98/24/25/29.97/30p, and psF	Standard
	1280x720	4:2:2 YCbCr	10b	23.98/24/25/29.97/30/50/59.94/60p	Standard
3G SDI Level A	1920x1080	4:2:2 YCbCr	10b	50/59.94/60p	Standard
3G SDI Level B	1920x1080	4:2:2 YCbCr	10b	50/59.94/60p	Standard

Not available for MPS-100, MPD-100, and MPP-100 (SDI only)

Supported ST 2110-20 video formats

Link	Format	Sample Structure	Bits	Frame/field rate	Option
ST 2110-20	525i	4:2:2 YCbCr	10b	59.94i	Standard
	625i	4:2:2 YCbCr	10b	50i	Standard
	1280x720	4:2:2 YCbCr	10b	23.98/24/25/29.97/30p	Standard
	1280x720	4:2:2 YCbCr	10b	50/59.94/60p	Standard
	1920x1080	4:2:2 YCbCr	10b	23.98/24/25/29.97/30p, 50/59.94/60i, 50/59.94/60p	Standard
	1920x1080	4:4:4 RGB	12b	23.98/24/25/29.97/30/50/59.94/60p	Standard
	2048x1080	4:2:2 YCbCr	10b	23.98/24/25/29.97/30/50/59.94/60p	Standard
	2048x1080	4:4:4 RGB	12b	23.98/24/25/29.97/30/50/59.94/60p	Standard
	3840x2160	4:2:2 YCbCr	10b	23.98/24/25/29.97/30/50p	Standard
	3840x2160	4:2:2 YCbCr	10b	59.94/60p	Standard
	3840x2160	4:4:4 RGB	12b	23.98/24/25/29.97/30	Standard
	4096x2160	4:2:2 YCbCr	10b	23.98/24/25/29.97/30/50p	Standard
	4096x2160	4:2:2 YCbCr	10b	59.94/60p	Standard
	4096x2160	4:4:4 RGB	12b	23.98/24/25	Standard
	4096x2160	4:4:4 RGB	12b	29.97/30	Standard

Not available for MPS-100, MPD-100, and MPP-100 (SDI only)

*When ordering MPS, MPD or MPP series add a prefix MPSDP- for the specific option for example FMT-4K would be MPSDP-FMT-4K
Note: MPSDP-FMT-8K license includes the formats supported by MPSDP-FMT-4K license.

Supported ST 2110-22 video formats

Link	Format	Sample Structure	Bits	Frame/field rate	Option*
ST 2110-20	1280x720	4:2:2 YCbCr	10b	23.98/24/25/29.97/30p/50/59.94/60p	JPXS
	1920x1080	4:2:2 YCbCr	10b	23.98/24/25/29.97/30p, 50/59.94/60i, 50/59.94/60p	JPXS
	2048x1080	4:2:2 YCbCr	10b	23.98/24/25/29.97/30/50/59.94/60p	JPXS
	3840x2160	4:2:2 YCbCr	10b	23.98/24/25/29.97/30/50p/59.94/60p	JPXS and FMT-4K
	4096x2160	4:2:2 YCbCr	10b	23.98/24/25/29.97/30/50p/59.94/60p	JPXS and FMT-4K

SMPTE 2110-30/31 Streams

Conformance level	Description
Conformance level A	Reception of 48 kHz streams with from 1 to 8 channels at packet times of 1 ms
Conformance level B	Reception of 48kHz streams with 1 to 8 channels at packet times of 1 ms or 1 to 8 channels at packet times of 125 µs

Reception of 48kHz streams with 16 channels at packet times of 125 µs

Not available for MPS-100, MPD-100, and MPP-100 (SDI only)

PRISM instruments with 25GE module have up to eight ST 2110 30 streams of reception with up to 16 audio channels total. One of the streams can be replaced with ST 2110-31.

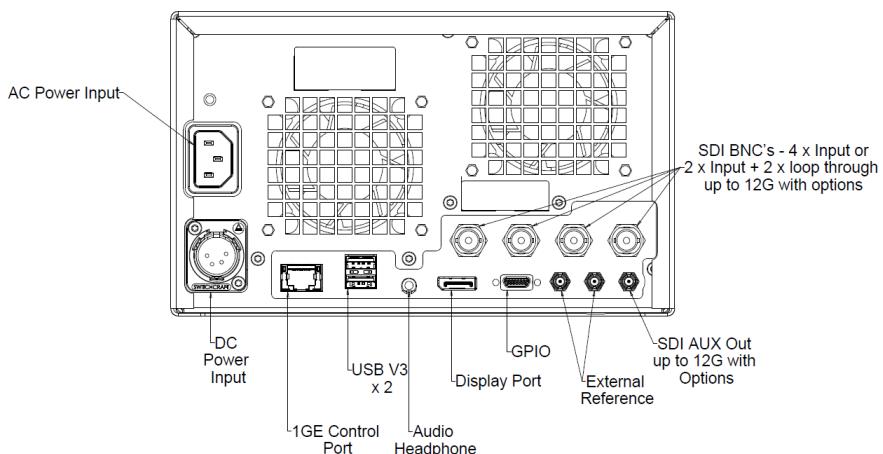
SMPTE 2110-30/31 Streams

PRISM supports four ST 2110-40 streams with multiple ANC packets. One of four streams can be ST2110-43 stream with TTML

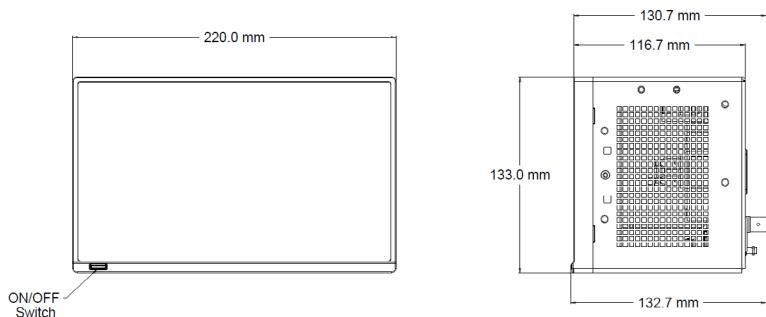
Not available for MPS-100, MPD-100, and MPP-100 (SDI only)

Connectivity and Instrument Dimensions

MPS-100 Connectivity



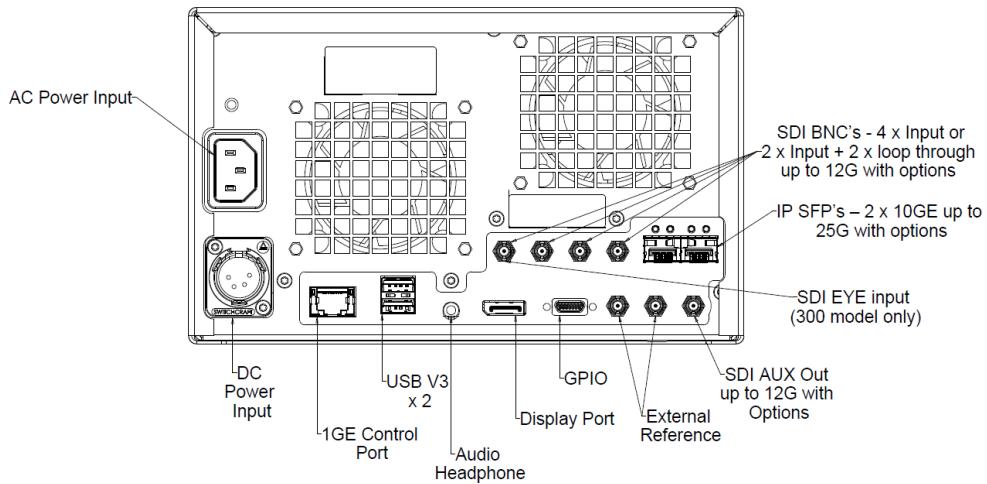
MPS-100 Physical Data



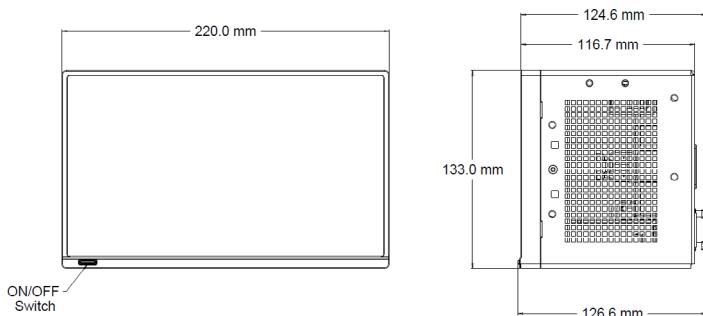
Dimensions

Height	13.30 cm (5.24 in.)
Width	22.00 cm (8.66 in.)
Depth	13.07 cm (5.15 in.)
Weight	2.77 Kg (6.1 lbs.)

MPS-200/300 Connectivity



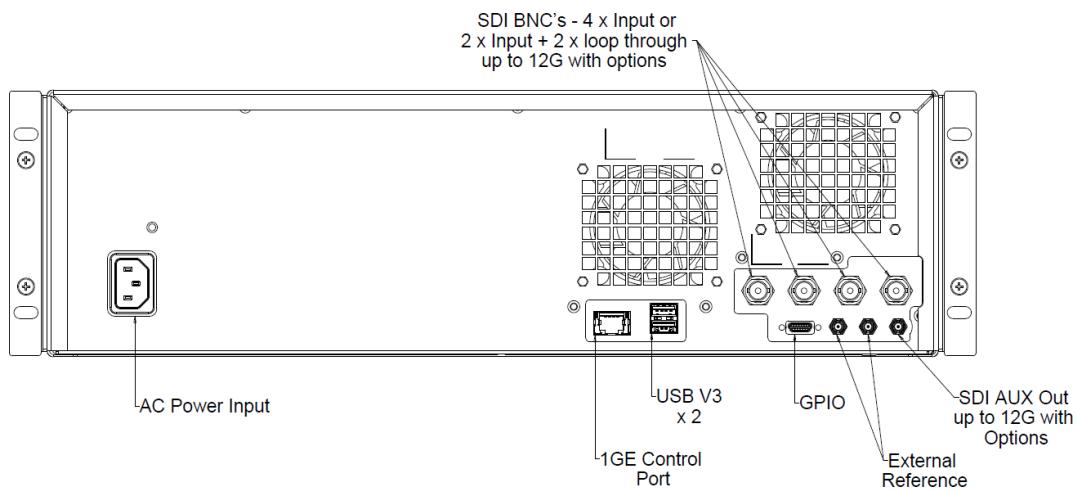
MPS-200/300 Physical Data



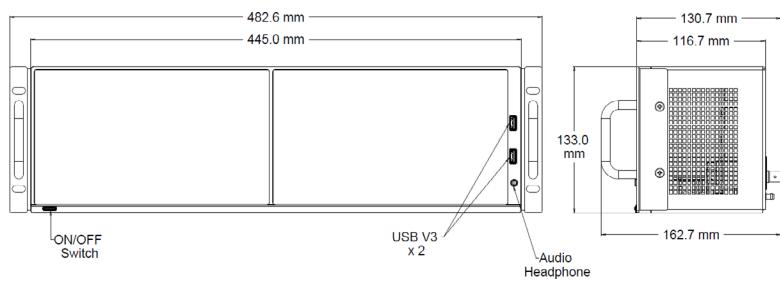
Dimensions

Height	13.30 cm (5.24 in.)
Width	22.00 cm (8.66 in.)
Depth	12.46 cm (4.91 in.)
Weight	2.77 Kg (6.1 lbs.)

MPD-100 Connectivity



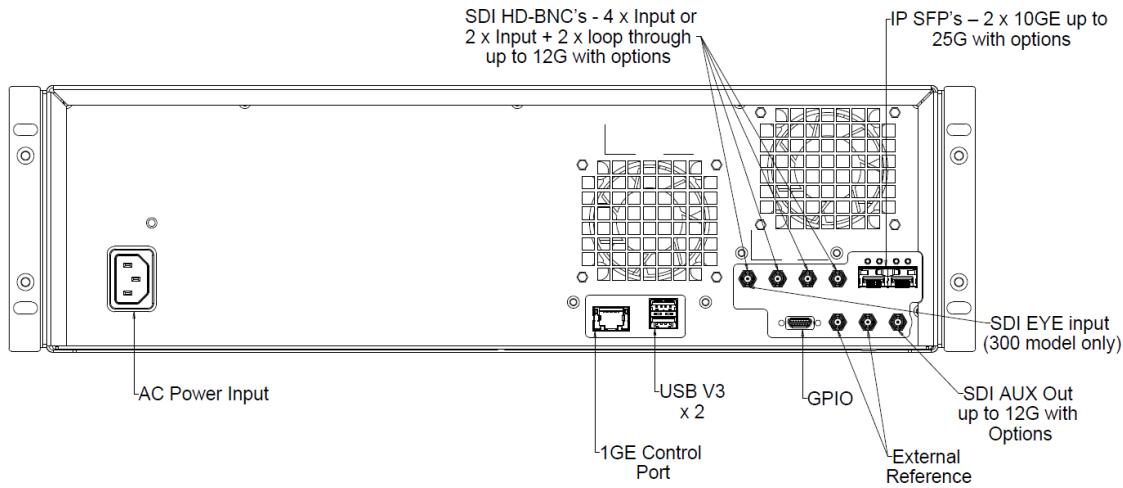
MPD-100 Physical Data



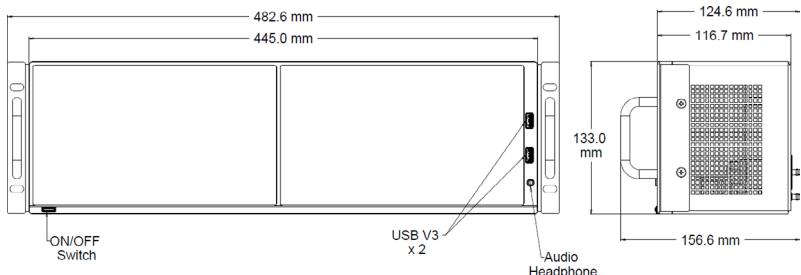
Dimensions

Height	13.30 cm (5.24 in.)
Width	44.50 cm (17.52 in.)
Depth	13.07cm (5.15 in.)
Weight	3.95 Kg (8.7 lbs.)

MPD-200/300 Connectivity



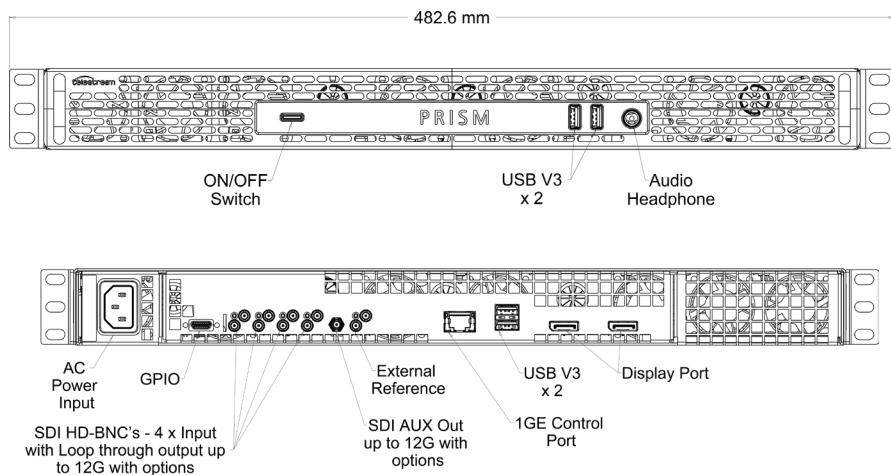
MPD-200/300 Physical Data



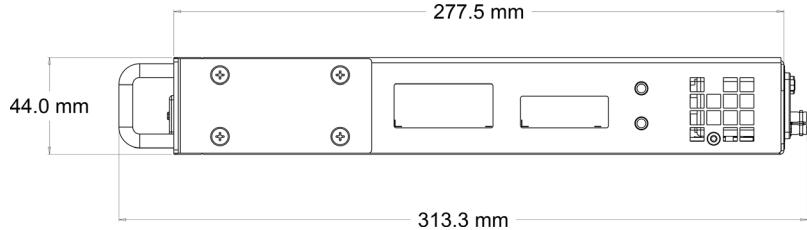
Dimensions

Height	13.30 cm (5.24 in.)
Width	44.50 cm (17.52 in.)
Depth	12.46cm (4.91 in.)
Weight	3.95 Kg (8.7 lbs.)

MPP-100 Connectivity



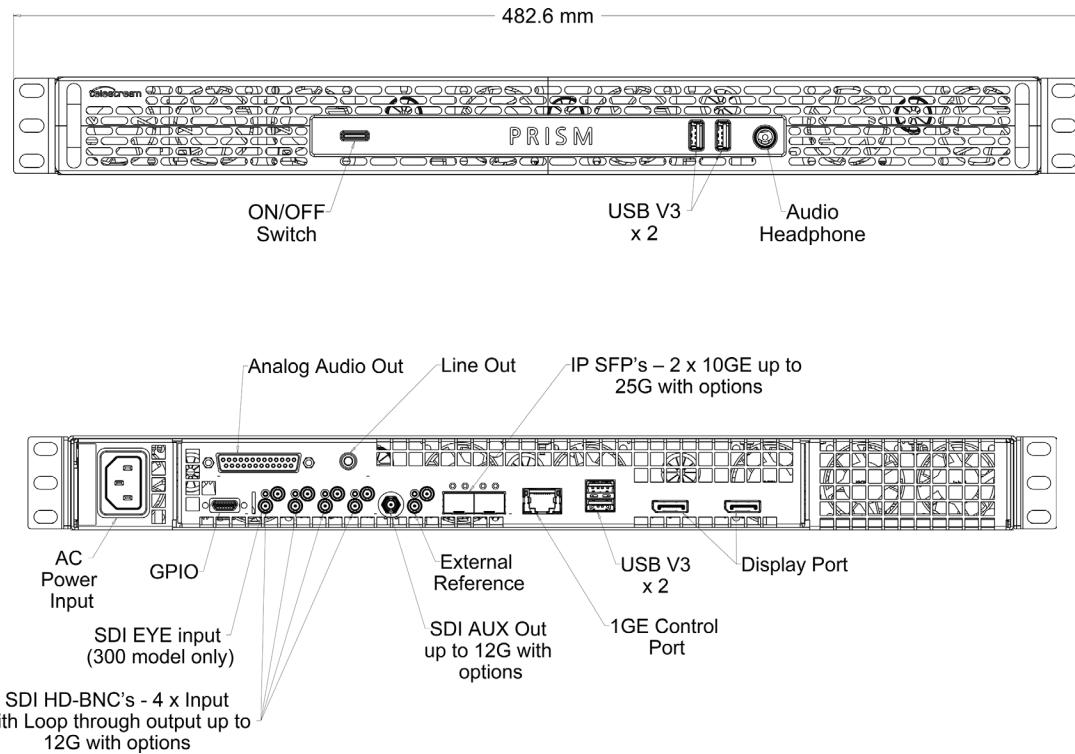
MPP-100 Physical Data



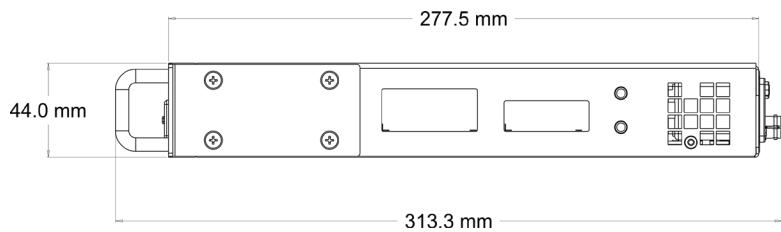
Dimensions

Height	4.4cm (1.73in.)
Width	48.3cm (19.01in.)
Depth	31.3cm (12.32in.)
Weight	3.5Kg (7.72lbs.)

MPD-200/300 Connectivity



MPD-200/300 Physical Data



Dimensions	
Height	4.4cm (1.73in.)
Width	48.3cm (19.01in.)
Depth	31.3cm (12.32in.)
Weight	3.6Kg (7.94lbs.)

Power Characteristics

MPS-100/200/300

Power Consumption	
Typical	95 W/100 W/105 W
Maximum	160 W
Voltage Range	100 to 240 VAC +/- 10%, 50/60 Hz

MPD-100/200/300

Power Consumption	
Typical	105 W/110 W/115 W
Maximum	160 W
Voltage Range	100 to 240 VAC +/- 10%, 50/60 Hz

MPP-100/200/300

Power Consumption	
Typical	95 W/95 W/100 W
Maximum	160 W
Voltage Range	100 to 240 VAC +/- 10%, 50/60 Hz

AUX SDI Output Characteristics

Output level*

800 mV +/- 10% into 75 Ω Load

* AUX SDI output can be used as SDI Loop through and ST2110-20/22/30/31 IP gateway

Weight and Packaging Dimensions

MPS-100/200/300 Packaging Data

Dimensions	
Height	30.5 cm (12.0 in.)
Width	38.1 cm (15.0 in.)
Depth	27.9 cm (11.0 in.)
Weight	4.2 Kg (9.2 lbs)

MPD-100/200/300 Packaging Data

Dimensions	
Height	30.5 cm (12.0 in.)
Width	61.0 cm (24.0 in.)
Depth	27.9 cm (11.0 in.)
Weight	6.0 Kg (13.2 lbs)

MPP-100/200/300 Packaging Data

Dimensions	
Height	20cm (11.81in.)
Width	63.8cm (25.12in.)
Depth	47.2cm (18.58in.)
Weight	8.0Kg (17.64lbs.)

Ordering Information - Options and Applications

Base Model Selection

Model	Notes
MPS-100	PRISM, MPS-100; 3RU half rack, short depth, SDI Waveform Monitor base unit with integrated touchscreen
MPS-200	PRISM, MPS-200; 3RU half rack, short depth, SDI and IP Waveform Monitor base unit with integrated touchscreen
MPS-300	PRISM, MPS-300; 3RU half rack, short depth, SDI and IP Waveform Monitor with SDI EYE base unit with integrated touchscreen
MPD-100	PRISM, MPD-100; 3RU full rack, short depth, SDI Waveform Monitor base unit with dual integrated touchscreens
MPD-200	PRISM, MPD-200; 3RU full rack, short depth, SDI and IP Waveform Monitor base unit with dual integrated touchscreens
MPD-300	PRISM, MPD-300; 3RU full rack, short depth, SDI and IP Waveform Monitor with SDI EYE base unit with dual integrated touchscreens
MPP-100	PRISM, 1RU full rack; 4 SDI Inputs, SDI Waveform Monitor with SDI loop through outputs. External display required.
MPP-200	1RU full rack; 4 SDI inputs; 2 SFP+ for 10GE. 25GE support requires MP2 25GE license. SDI and IP Waveform Monitor with SDI loop through outputs and eight channel analog output. External display required.
MPP-300	1RU full rack; 4 SDI Inputs; 2 SFP+ for 10GE. 25GE support requires MP2 25GE license. SDI and IP Waveform Monitor with SDI EYE base unit. With SDI loop through outputs and eight channel analog output. External display required.

Application Summary

Notes	Applications
Standard Applications (All Models)	          
Optional Applications (All Models)	        
Optional Applications for MPS200/300, MPD200/300, MPP200/300	     
Physical Layer Applications. Standard on-MPS/MPD/ MPP 300.	 

Software Options

PRISM Options	Description	Applications Enabled
AUD*	License; PRISM, MPS, MPD and MPP Models, Add Software license for enhanced Audio feature sets: includes Phase, Session, Correlation, Loudness Monitoring, AES Channel Status, and Dolby E or D metadata display	  
SRND*	License; PRISM, MPS, MPD and MPP Models, Add software license for Audio Surround Sound Displays (Must have Option AUD installed)	
DLBY*	License; PRISM, MPS, MPD and MPP Models, Add Software license for Dolby E and Dolby D decoding.	
ENG-QC**	License; For PRISM, MPS, MPD and MPP Models add this software license to enable the Engineering and QC feature sets. These include: Datalist, Closed Captions (ARIB B-37, CEA608/CEA708) / Teletext decode (OP47/ST2031), ANC Session, AV Delay and EBU R103 Gamut monitoring.	  
GEN*	License; PRISM, MPS, MPD and MPP Models, Add Software license for SDI/IP signal generator; includes IP/SDI Generator application.	 
PROD*	License; PRISM, MPS, MPD and MPP Models, Add Software license for Production feature sets: includes Stop display, Light meter, HDR/WCG Conversion, and Luma Qualified CIE Chart.	 
MULTI*	License; PRISM, MPS, MPD and MPP Models, Add software license for multi-channel IP / SDI input and Camera Alignment Monitoring.	
EXTNDSP*	License; PRISM, MPS and MPP Models, Add software license for enabling extended desktop.	

*Requires prefix of MPSDP- for ordering

IP Measurement Options

Option	Description	Applications Enabled
IP-MEAS*	Add Software license for IP Measurement feature sets: includes IP/PTP Graph, IP/PTP Session, PIT Histogram, Timing, Stream Timing and Stream capture applications.	    
JPX*	Add Software License for ST2110-22 (JPEG XS) support on PRISM, MPS, MPD and MPP Models.	

* Requires prefix of MPSDP- for ordering

MPS/MPD/MPP-300 Physical Layer Measurements

Option	Description	Applications Enabled
Standard	SDI Physical Layer Measurement Package (incl. automated measurement of 12G/6G/3G/HD/SDI Eye pattern parameters and jitter parameters; jitter waveform display). FMT-4K license required for 12G/6G-SDI support.	 Eye  Jitter

Format Support Options

Option	Description
FMT-4K*	License; PRISM, MPS, MPD and MPP Models, Add Software license for 4K formats and enable 6G/12G SDI.
FMT-8K*	License; PRISM, MPS, MPD and MPP Models, Add Software license for 8K formats in Quad 12G-SDI, including MPSDP-FMT-4K License
25GE*	License; PRISM, MPS, MPD and MPP Models, Add Software license for 25GE support

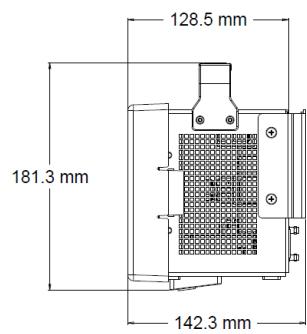
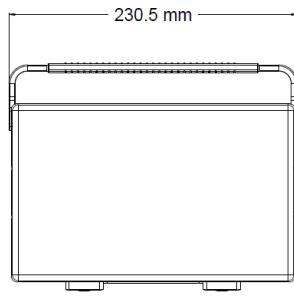
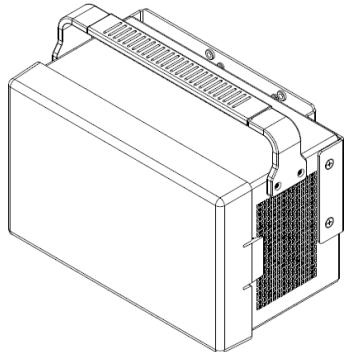
* Requires prefix of MPSDP- for ordering

Racks Mount Kits and Accessories

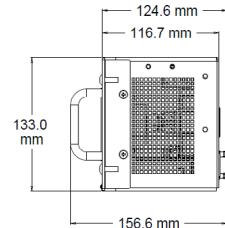
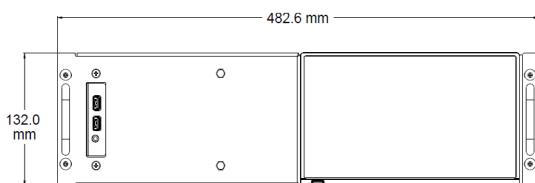
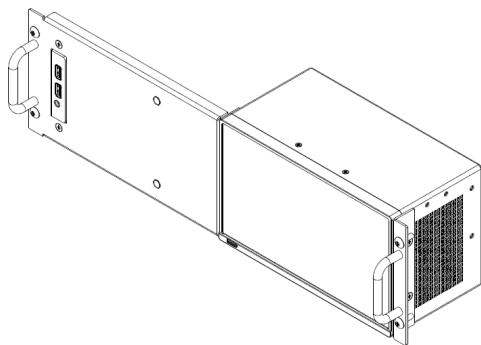
MPS-100/200/300 Options

Option	Description
MPS-PTBL	PRISM MPS model, Portable Accessory kit includes handle, feet, protective front cover, tripod mount bracket and bracket for battery mount plate (battery, battery mount plate and tripod not included)
MPS-RACK	PRISM MPS model, Rack mounting kit with USB cables (not for use with MPD Models)

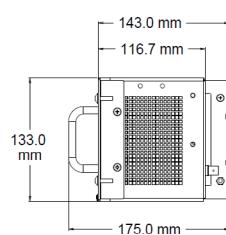
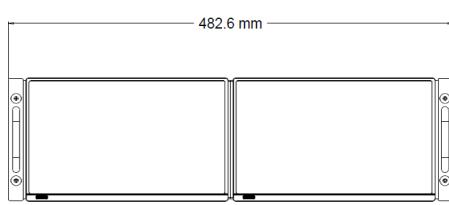
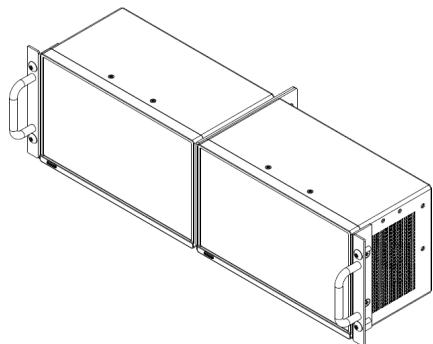
MPS-PTBL - Portable Accessory Kit (Instrument not incl.)



MPS-RACK - Accessories for mounting a single MPS (Instrument not incl.)



MPS-RACK - Accessories for mounting two MPS units (Instrument not incl.)



MPD-100/200/300 Rack Options

Option	Description
Standard	PRISM MPD model, Rack Mounting ears provided as standard with the instrument.

MPP-100/200/300 Rack Options

Option	Description
Standard	PRISM MPP model, Rack Mounting ears provided as standard with the instrument.

Cable Options

Cable Options

Option	Description
MP-CBL DUALDSP	PRISM A cable kit for MPX2 DUALDSP, Two sets of 2 M DisplayPort male to DisplayPort male cable and 2 M USB 3.0 A male to B male cable
MP-CBL HDBNC-BNC	PRISM Coaxial adapter cables from high density male BNC connector to standard female BNC connector (a set of 3 cables, 75 Ω, 0.5 M long)

Power Cord for MPS/MPD/MPP models

Model	Description
PWR CORD NA S15	North America Power Cord, Straight 15A
PWR CORD NA R15	North America Power Cord, Right Angle 15A
PWR CORD NA S20	North America Power Cord, Straight 20A
PWR CORD EURO	Universal EURO Power Cord
PWR CORD CHN	China Power Cord
PWR CORD IN	India Power Cord
PWR CORD UK	United Kingdom Power Cord
PWR CORD BRZ	Brazil Power Cord
PWR CORD AUS	Australia Power Cord
PWR CORD CHE	Switzerland Power Cord
PWR CORD JPN	Japan Power Cord
PWR CORD NONE	No Power Cord or AC Adapter

SFP Modules for IP Instruments

MPS/MPD/MPP 200/300

Option	Description
MP-SFP 10GELR	A 10G Ethernet long range 1310 nm transceiver module for SFP+ C/D socket (MPI IP STD is required)
MP-SFP 10GESR	A 10G Ethernet short range 850 nm transceiver module for SFP+ C/D socket (MPI IP STD is required)
MP-SFP 25GELR	PRISM A 25G Ethernet long range 1310 nm transceiver module.
MP-SFP 25GESR	PRISM A 25G Ethernet short range 850 nm transceiver module.

Service, Support

MPS Model Service Options

Option	Description
MPS RI-MS01	Annual Warranty Extension. Covers parts, labor and 2-day shipping within country. Guarantees faster repair time than without coverage. All repairs include any required software updates. Hassle free with a single call that starts the process
MPS R3	Standard Warranty Extended to 3 Years. Covers parts, labor and 2-day shipping within country. Guarantees faster repair time than without coverage. All repairs include any required software updates. Hassle free with a single call that starts the process. Can only be purchased at time of product purchase.
MPS R5	Standard Warranty Extended to 5 Years. Covers parts, labor and 2-day shipping within country. Guarantees faster repair time than without coverage. All repairs include any required software updates. Hassle free with a single call that starts the process. Can only be purchased at time of product purchase.

MPD Model Service Options

Option	Description
MPD RI-MS01	Annual Warranty Extension. Covers parts, labor and 2-day shipping within country. Guarantees faster repair time than without coverage. All repairs include any required software updates. Hassle free with a single call that starts the process.
MPD R3	Standard Warranty Extended to 3 Years. Covers parts, labor and 2-day shipping within country. Guarantees faster repair time than without coverage. All repairs include any required software updates. Hassle free with a single call that starts the process. Can only be purchased at time of product purchase.
MPD R5	Standard Warranty Extended to 5 Years. Covers parts, labor and 2-day shipping within country. Guarantees faster repair time than without coverage. All repairs include any required software updates. Hassle free with a single call that starts the process. Can only be purchased at time of product purchase.

MPP Model Service Options

Option	Description
MPP R1-MS01	Annual Warranty Extension. Covers parts, labor and 2-day shipping within country. Guarantees faster repair time than without coverage. All repairs include any required software updates. Hassle free with a single call that starts the process.
MPP R3	Standard Warranty Extended to 3 Years. Covers parts, labor and 2-day shipping within country. Guarantees faster repair time than without coverage. All repairs include any required software updates. Hassle free with a single call that starts the process. Can only be purchased at time of product purchase.
MPP R5	Standard Warranty Extended to 5 Years. Covers parts, labor and 2-day shipping within country. Guarantees faster repair time than without coverage. All repairs include any required software updates. Hassle free with a single call that starts the process. Can only be purchased at time of product purchase.

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