

# Unrivaled Precision and Excellence in Testing, Monitoring, and Quality Control

Backed by more than 75 years of experience in testing, monitoring, and quality control, Telestream's Test and Measurement solutions offer a precise balance of design, innovation, and proven reliability for ensuring superior, high-quality content delivery without compromise.



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## SDI/IP Waveform Monitors

### PRISM

- Supports hybrid SDI and IP workflows
- Supports up to 8K video resolution/formats including UHD, HDR, and WCG
- Available with integrated displays in the MPS and MPD models and using an external display in the MPP model
- Whisper quiet operation (MPP)
- Compact shallow depth design for tight spaces
- Extensive tools for managing WCG and HDR content
- Low-latency remote access via browser-based WebRTC
- Customizable to fit any budget with an extensive library of software application options

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## IP Video Monitoring

### INSPECT 2110

- Comprehensive control and oversight on production including audio levels, picture display, ANC data monitoring, and more
- Fast and efficient troubleshooting process
- Remote access for monitoring and control from anywhere
- Automated detection of PTP problems
- Configurable alarms to meet specific needs
- One-click integration with PRISM for additional, in-depth signal diagnostics

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## Timing, Reference, & Synchronization

### SPG9000

- Seamlessly adapts to a multitude of timing sources including GNSS, PTP, black burst, 10MHz, and NTP
- Versatile reference distribution options such as PTP, NTP, black burst, and DARS
- Fast setup as Grandmaster or Follower using PTP
- Produces SDI and IP known-good references for precise timing and seamless connectivity
- User-friendly web interface
- Supports multiple post-production signal formats: SD, HD, 3G, 4K, and UHD
- Efficient, space-saving design



Our latest ST 2110 products give broadcast, mobile live, and post-production support for SDI and the flexibility to cost-effectively and efficiently scale and transition their workflows to IP at any time.



## PRISM

PRISM is a versatile Test and Measurement solution designed to be used in hybrid applications from SD to 8K SDI or IP media networks using ST 2110. It offers a robust set of standard applications, and the ability for users to choose from an extensive list of additional software options for a solution tailored to engineering or monitoring applications.

PRISM's UI can be configured to individual team member work preferences and saved as presets for fast instrument setup when needed.

PRISM offers multiple mounting and installation options with various methods of interaction and control for seamless integration into any environment.



*Nearly 30 standard and add-on options available for PRISM*

### PRISM without Integrated Monitoring Screen

#### MPP

- Provides the flexibility of being used with an external monitor
- Offers remote access monitoring and updating from any location including at home
- Operates with low noise — perfect for setups requiring the monitor to be near the user
- Compact with short depth — 1 RU form factor

### PRISM with Integrated Monitoring Screens

#### MPS and MPD Series

- MPS: Available with an integrated touchscreen monitor ready for rack mounting or in a battery powered 3RU half rack cabinet
- MPD: Provides integrated dual touchscreen monitors in a full rack size, allowing up to eight tiles to be displayed for monitoring applications
- Space saving short depth footprint
- Choose from SDI only, hybrid SDI and IP, or hybrid SDI and IP with SDI Eye/Jitter measurements





## PRISM | USE CASES



**Broadcast** PRISM offers all of the tools needed in an SDI, IP, or hybrid SDI/IP environment. For broadcasters making the transition from SDI to IP, PRISM bridges the gap between the two workflows making navigation easier and smoother. In addition, PRISM fully supports UHD 4K/8K, HDR, and wide color gamut production, allowing broadcasters to deliver high-quality content efficiently.



**Mobile Live Production** PRISM delivers a comprehensive measurement set. From SDI to IP, up to 8K, PRISM offers a unique combination of SDI tools and cutting-edge IP analysis, including Eye Patterns and Composite References, PTP, Packet Jitter, SDP analysis, and more. In addition, PRISM has a short depth and shallow footprint for optimal space utilization without sacrificing functionality, as well as options for single and dual-integrated touchscreens.

PRISM is designed to meet the unique challenges of UHD and HDR content. It provides precision tools for objective picture quality measurement that have been extended to meet the challenges of an expanded color space. With PRISM, UHD content quality reaches new heights, ensuring that every pixel and frame meets the highest standards of excellence.

PRISM also fully supports remote usage of its comprehensive monitoring tools. It includes a WebRTC interface with low latency, ensuring users can access and control PRISM remotely to facilitate efficient real-time monitoring and adjustments from anywhere.

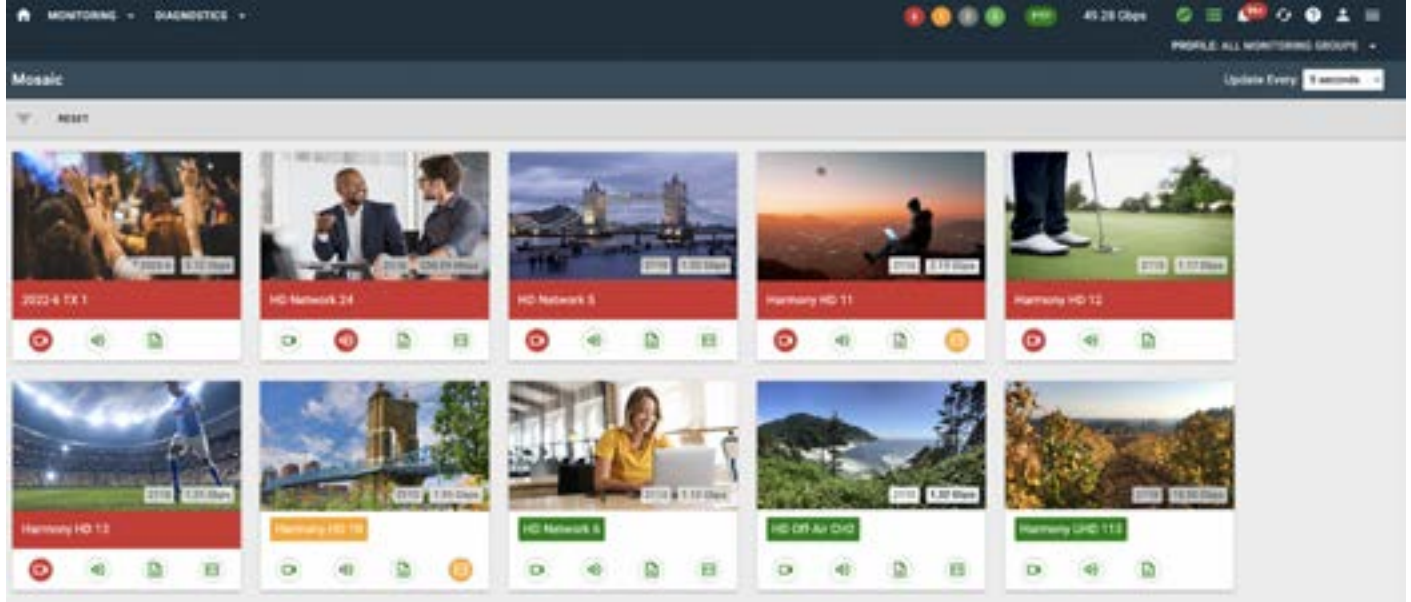
The PRISM form factor is highly compact and supports up to eight tiles and four simultaneous signals. PRISM has Fast Switching to provide seamless switching between SDI and IP quickly and easily. Operators can safely join new IP streams before disconnecting the previous signal.



**Sports** PRISM helps sports venues with the move from SDI to IP broadcasting, facilitating a smooth transition while embracing the complexities of live sports production in 4K and 8K. It offers an intuitive platform that allows users to optimize the viewer experience with HDR visuals and broad color spectrum analysis, ensuring the action on the field is captured with stunning clarity and broadcast with the highest fidelity.



**Post-Production** PRISM is the ultimate solution for navigating the transition from HD to UHD content creation. It provides a comprehensive toolkit for UHD, including 4K/8K, SDR/HDR, and 4:2:2/4:4:4 support, and with extensive signal format compatibility, PRISM can handle a wide variety of formats, accommodating hundreds of different signal types. Additionally, PRISM provides robust support for quality control, enabling compliance checks and meeting the evolving delivery specifications for post operations, encompassing aspects like Atmos, Dolby Vision, loudness, captions, and pixel brightness.



## INSPECT 2110

INSPECT 2110 automatically monitors your IP media networks to ensure all content is being correctly presented. INSPECT 2110 immediately provides an alert when it detects a problem while operating in the background. Monitoring by exception allows users to focus on other operational priorities without needing to babysit the network.

### USE CASES



**Broadcast & Sports** INSPECT 2110 provides a comprehensive solution for addressing the challenges associated with the transition to complex ST 2110 networks and HD video and audio streams. Its ability to supervise, monitor, and diagnose signals within ST 2110 networks ensures seamless operations and efficient troubleshooting, even in remote scenarios.

- Offers a supervisory view that is ideal for feeds or master control operation, providing quick issue identification and alerts.
- Offers configurable alarms for rapid response and issue resolution.
- Integrates seamlessly with PRISM, offering enhanced measurement capabilities and real-time analysis, even in remote settings.
- Uses rack server design, video network connections, and fully remote web interface to simplify system management and monitoring, aligning perfectly with data-center workflows.
- Provides multi-stream analysis capabilities to enable detailed supervision of numerous signals, ensuring the reliability and quality of the broadcast, even in complex data-center setups.



**Mobile Live Production** - INSPECT 2110 provides an all-encompassing view of IP video, audio, and ancillary data streams in real-time. From monitoring audio levels, analyzing waveform views, to ensuring format verification, INSPECT 2110 offers complete monitoring and analysis with a comprehensive toolkit for precise control and oversight. Users can quickly pinpoint and diagnose issues within IP streams, drastically reducing downtime and ensuring uninterrupted delivery of UHD content, even in the most dynamic event environments.

- Allows for simultaneous monitoring of up to 50 camera feeds.
- Offers remote access for users to evaluate system health, including PTP, to ensure events run seamlessly.
- Empowers remote production teams by simultaneously evaluating multiple remote cameras, providing a comprehensive overview of the production environment, and facilitating precise troubleshooting without requiring physical presence.



## SPG9000

The versatile SPG9000 is the only synchronization, timing, and reference test signal generation system you need. The compact device is designed to support video facilities utilizing SDI only, IP only, or hybrid SDI/IP. It easily adapts to your workflow requirements and is ready to transition to IP when you are.



SPG9000

## SPG9000 | USE CASES



**Broadcast** SPG9000 addresses the challenges of transitioning to complex IP-based infrastructures while maintaining the integrity of SDI systems. It offers precise timing synchronization, signal generation for SDI and IP, and flexible timing source options.

SPG9000's signal generation capabilities, supporting both SDI and IP, offer a reliable reference for validating signal paths and setting up equipment. This functionality empowers users to troubleshoot signal paths effectively and allows operations teams to ensure precise timing alignment before events commence, minimizing potential disruptions.

- Provides flexible timing synchronization serving as a Grand Master to lock onto various timing sources, including Satellite, 10MHz Clock, PTP/NTP, and more. This allows users to align timing with precision to ensure a seamless transition to IP-based workflows.
- As a follower, SPG9000 provides black burst or extends PTP within complex network environments, simplifying timing routing for users. It streamlines the synchronization process, reducing configuration complexities.
- Offers a fully remote web interface that easily streamlines configuration and management tasks including troubleshooting and problem resolution.
- Harnesses PTP to ensure accurate synchronization across large distributed networks, empowering users with centralized control.



## SPG9000 | USE CASES



**Mobile Live Production** SPG9000 revolutionizes mobile production setup and efficiency with its unique capability to act as a Grand Master or Follower in multi-truck setups. Powered by Precision Time Protocol (PTP), it drastically reduces setup times by hours, allowing for fast deployment of mobile production units.

- Generates known-good references for timing setup and connection checks to ensure precise timing and seamless connectivity while reducing the risk of setup errors.
- Creates both SDI and IP references for unmatched flexibility while also allowing for efficient setup and synchronization in diverse production scenarios.
- Scales up to support UHD test signals.
- Offers a broader range of timing sources, including robust support for satellite sources.
- Operates via a user-friendly web interface, simplifying and expediting setup processes.
- Supports GNSS and PTP to ensure precise synchronization, bridging the gap between physically separated components.
- Space-saving design simplifies setup and operation in constrained environments.



**Sports** For sports venues facing the high-stakes demands of live sports broadcasting, SPG9000 can maintain precise timing synchronization and support complex IP and SDI infrastructures. Its flexible timing source options are vital for venues where coordination between multiple broadcasts and live feeds is essential.

- Ensures as Grand Master that every live feed is perfectly in sync, crucial for instant replay, slow-motion, and multi-angle reviews.
- Integrates effortlessly with the existing network infrastructure of sports venues as a follower, maintaining black burst or extending PTP. Simplifies the crucial timing aspect for live sports broadcasts, ensuring a smooth and synchronized viewing experience.
- Signal generation and validation tools allow for quick setup and real-time troubleshooting.



**Post-Production** SPG9000 provides robust support for a wide range of signal generation in post-production. It offers unparalleled versatility in signal generation, accommodating an extensive array of post-production applications, including HD, UHD, and Cinema-quality.

## TECH SPECIFICATIONS

Please scan the QR code to view the full technology specifications

### PRISM

scan QR or [click here](#)



[telestream.net/video/prism-tech-spec.htm](https://telestream.net/video/prism-tech-spec.htm)

### INSPECT 2110

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