Pulse: Software Monitoring Built for IP Production

See Every Signal. From Any Seat.

What is Pulse?

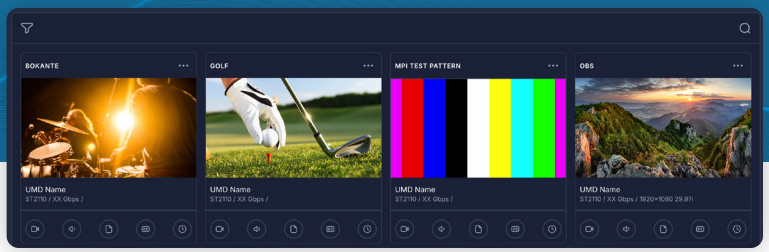
Pulse is a next-generation, software-defined waveform monitoring and timing analysis platform designed specifically for modern ST 2110 IP-based broadcast environments. Built on Telestream's decades of expertise in broadcast test and measurement, Pulse transitions trusted monitoring capabilities from dedicated hardware appliances into a flexible, centralized software platform.

The Challenge

As broadcast facilities transition to IP-based infrastructures and distributed production models, traditional hardware-centric monitoring approaches are no longer sufficient. Historically, broadcast tools like waveform monitors were designed as single-user hardware appliances tied to specific physical locations. This legacy model creates several major challenges:

- **High Costs and Poor Scalability:** Expanding monitoring coverage requires purchasing additional dedicated devices, which consumes rack space and drives up capital costs.
- **Fragmented Workflows:** Engineers are often forced to use separate tools for waveform analysis, network monitoring, and PTP timing diagnostics, making it difficult to quickly identify the root cause of issues during live productions.
- **Growing Operational Complexity:** Operators must now manage massive volumes of signals, complex network transport behaviors, and precision timing synchronization simultaneously.

Pulse: Software Monitoring Built for IP Production



Why Pulse is Important

The architecture of modern broadcast facilities has evolved significantly, demanding multi-user collaboration and support for remote production workflows. Troubleshooting is no longer done by a single engineer at a single station; it requires engineers, video shaders, operators, and technical directors to access diagnostic data simultaneously. **Pulse is essential because it addresses this industry shift,** evolving monitoring from isolated units into a unified platform that supports distributed teams and scales effortlessly across modern production architectures.

Main Benefits

Accelerate Troubleshooting

By consolidating media signals, network transport, and timing synchronization into a single platform, broadcast teams can diagnose issues faster without jumping between multiple fragmented systems.

Enable Multi-User Collaboration

Pulse allows multiple operational roles to access the same monitoring environment simultaneously, breaking down the physical barriers of legacy hardware.

Scale Cost-Effectively

The transition to a software-defined platform allows facilities to scale their monitoring capabilities across multiple users and signals without the high infrastructure costs of adding dedicated hardware.

Future-Proof Operations

Pulse prepares facilities for future broadcast architectures, seamlessly supporting the rising demand for remote production and distributed operations.

Core Features

Containerized Architecture
A modular platform built specifically to support evolving infrastructures & deployment models.

Multi-User Customizable Dashboards
A highly flexible drag-and-drop interface allows a variety of users to build personalized monitoring layouts.

ST 2110 Signal & PTP Timing Monitoring
Provides real-time analysis alongside deep visualization.

Integrated Waveform & Vector Scopes
Incorporates familiar, industry-standard broadcast scope tools directly into the software interface.

GPU-Accelarated Performance
Leverages GPU acceleration to offload processing, ensuring responsiveness & enabling seamless access.

Alarm Management and Event Logging
Features real-time alerting with historical event tracking.

Role-Based Access Control
Securely manages different access levels for administrators, engineers, & operators to protect system configurations while enabling safe workflows.

Learn more about Pulse:
telestream.com/pulse

Ready to modernized your monitoring infrastructure?
Contact us at telestream.com/contact-us

Telestream® and Pulse™ are trademarks of Telestream 2 LLC. All other trademarks mentioned or used are the property of their respective owners. Copyright 2026 Telestream 2 LLC. All rights reserved.