DataMAP

THE NEXT GENERATION OF WAYSIDE INSPECTION INTELLIGENCE

INFRAVIS



THE NEXT GENERATION OF WAYSIDE INSPECTION INTELLIGENCE

with SystemPULSE

DETECT. ALERT. PREVENT.

OPEN BY DESIGN
INGESTS DATA FROM ANY DETECTOR VENDOR

ON-PREM OR CLOUD
DEPLOYED YOUR WAY

ONE PLATFORM
EVERY DETECTOR, EVERY USER

FULL FLEET SCALE
FROM ONE WHEEL MEASUREMENT TO NETWORK-WIDE

ONE PLATFORM, EVERY WAYSIDE SYSTEM

DataMAP consolidates measurement and alarm data from every connected wayside system into a single platform — with built-in analytics, so there's no need to export to external tools just to get a usable view across your fleet.

Built by engineers with 30+ years of combined wayside inspection experience — in partnership with the rail operators who run this industry, not just for them — DataMAP eliminates the gaps and blind spots that come from managing disconnected systems. Paired with SystemPULSE, that same platform extends to real-time detector health monitoring, giving you one place to see, understand, and act on everything happening across your network.

DataMAP is open by design: architected to ingest data from any detector vendor or outside data source, so railroads are never locked to one hardware line. Deploy it fully on-premises, within your own infrastructure and on your terms, or run it in the cloud.

From a single wheel measurement to network-wide data ingestion, DataMAP scales with your fleet — giving every user, from day-to-day inspectors to data-focused analysts, the tools they need in one place.

PLATFORM CAPABILITIES



- Train Browser — Site/Date Browsing & Full Car Drill-Down
- Alarm Management — Edge-Side Browser, Acknowledge & Escalate
- Quick Reporting — One-Click Report Export on Any Page
- User & Role Management — Control Who Sees and Does What Across Your Team
- SystemPULSE — Fleet-Wide Detector Health & Unified Dashboard
- Analytics Hub — Trends, Comparisons & Export
- Advanced Alarm Management — Cross-Site Alarm Handling, Escalation & Composite Alarm Generation
- Connected Systems — API, SAP, Webhook & Third-Party Integrations

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OUR FLAGSHIP CAPABILITY

WE'RE NOT JUST SCANNING TRAINS. WE'RE DEFINING THE FUTURE OF WAYSIDE DETECTOR HEALTH.

SystemPULSE brings live and historical status for every detector in your network into one view — environmental metrics like temperature and vibration monitored continuously, uptime and communication status tracked over time, and health signals tied to every train pass, not just a fixed schedule. The result: time-saving fault finding and actionable intelligence across your entire fleet.

DETECTOR HEALTH

ENVIRONMENTAL METRICS

TIME-BASED MONITORING



BUILT TO GET SMARTER OVER TIME

SEE WHAT YOU'VE NEVER SEEN BEFORE

Insight Engine applies AI-driven analysis across your fleet's full dataset — surfacing anomalies that wouldn't trigger a standard alert, identifying relationships between data from different detector types, and delivering precise insight into remaining equipment life before failure occurs. It's the platform working for you around the clock, turning accumulated data into foresight.

PLATFORM HIGHLIGHTS

- Open by design — built to ingest data from any detector vendor or outside data source
- Consolidates health, measurement, and alarm data into a single platform
- Full on-premises hosting available — run the entire platform within your own infrastructure
- Enterprise-ready from the start — designed around the operational and compliance standards railroads already run on
- Scales from a single wheel measurement to network-wide data ingestion
- Built in partnership with rail operators and industry leaders

DataMAP

BUILT FOR THE FULL INFRAVIS DETECTION FAMILY — AND BEYOND

DataMAP is the unifying platform behind every INFRAVIS wayside detection system — including WheelMAP, BearingMAP, BrakeMAP, TruckMAP, TrainMAP-Undercarriage, and TrainMAP-DED. Open by design, it's built to bring in outside detector data too, so your platform grows with your fleet, not around it.

BUILDING WHAT'S NEXT IN WAYSIDE INSPECTION

Three decades of wayside expertise, built in partnership with the operators who run this industry. Let's talk about what's next for your fleet.

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