



Violet Edge 800

Advanced IoT Platform

Integrate Data From All Available Sources

The Violet Edge 800 integrates the functionality of several devices into a single, sustainable IoT Platform for rail. This Locomotive Data Acquisition Recording System (LDARS), includes Event Recorder (ER), Digital Video Recorder (DVR), Crash Hardened Memory Module, along with a Remote Monitoring Device.

Access to comprehensive time-synchronized data, coupled with sophisticated edge computing, artificial intelligence, and cloud-based SaaS solutions, gives you the ability to take prompt, effective action on critical issues. The Violet Edge 800 provides accident investigators with insight into the sequence of events leading up to a rail accident (e.g. crew communications and train handling incidents).

Freight, passenger, and transit systems utilize Wi-Tronix to meet today's rail challenges, enhance service delivery and reduce operating expenses.

State-of-the-art Edge Processing & Cloud-Based Solutions

The Violet Edge 800 connects you to multiple onboard systems utilizing edge applications and multi-mode wireless communications. As your IEEE1482-compliant Event Recorder, it becomes a fast, simplistic way to view locomotive performance and investigate incidents. With a digital video recorder (DVR) that supports multiple HD IP cameras, microphones, our growing array of artificial intelligence tools enable compliance to LVVR and FAST Act regulations.

Prevent Unauthorized Access to Data. Secure communications management with individual user activity reports.

Make LVVR Regulation Compliance Easy. Random automated downloads, and threat/trend detection find critical or undesired events.

Eliminate the need for 3rd party Proprietary Software. A unique web-based player, Violet View™, a unique web-based player, offers video, voice, signal data displays, and timeline map views anytime, anywhere, with any device.

Assure Data Security and Integrity. Secure communications management prevents unauthorized access with individual user activity reports help assure employee privacy.

Minimize Operational Constraints. Alerts for in-cab camera obstruction and cross border support.



Why Wi-Tronix?

The Wi-Tronix Ecosystem will improve safety, efficiency, and reliability of your operations.

The Violet Edge 800, AAR S-9401 and EN 50155 compliant, seamlessly integrates into a locomotive's systems. The multipurpose device allows for less inventory and greater reliability with:

- Reduced onboard devices
- Fewer potential points of failure
- Less troubleshooting

Data coming from a locomotive system is integrated with railroad business data to create actionable information and alerts. The advanced IoT platform enables use of deep learning to autonomously analyze video and audio data to "see and hear" for configurable events. These analytics also monitor cab security.

Wi-Tronix Violet Edge 800
Wi-Tronix.com

Questions? Contact us at
sales@wi-tronix.com.

Advanced Onboard Technology

Through the consolidation of hardware into a single, highly available solution, customers are reducing their technology footprint and the overall cost and maintenance.

Key Functionality

Platform

- Remote over the air software releases to evolve to meet future needs
- Remote health monitoring
- Secure Access to Video/Audio and Locomotive data

Fuel Management and Reporting

DVR and ER

- FRA-compliant IEEE1482 connected event recorder
- LVVR, FAST ACT compliant Connected Digital Video Recorder
- 49 CFR 229 and IEEE compliant CHM (optional)
- Unlimited Licenses to Web Viewer (Violet View)
- Ondemand access to live data and video thumbnails
- Industry 1st web-based data sharing

'Big Data' Collection Through RESTful Web API's

In-Cab Audible Alerting Capability

Mobile Phone Detection System



Hardware Packages	Subscription Packages	System Setup Packages	Installation Kits	Solution Packages
FOUNDATION				ADVANCED
<p>Choose Your Location</p> <ul style="list-style-type: none"> · Violet Edge Foundation Hardware (North American Cell) · Violet Edge Foundation Hardware (International Cell) 	<p>Choose Your Location</p> <ul style="list-style-type: none"> · Violet Edge Foundation Subscription (USA) · Violet Edge Foundation Subscription (Canada or Mexico) · Violet Edge Foundation Subscription (Australia) 	<p>Get Set Up</p> <ul style="list-style-type: none"> · Existing Customer Foundation System Setup · New Customer Foundation System Setup 	<p>Choose Your Installation Kit</p> <ul style="list-style-type: none"> · Violet Edge Installation Kit (Generic Install) · Violet Edge Upgrade Installation Kit (Wi-PU to Violet Edge Upgrade) 	<ul style="list-style-type: none"> · Digital Video Recorder (DVR) · Connected Event Recorder · IoT for Rail · Energy Management · Transportation Operation Support · Safety, Risk Management & Compliance · Mechanical Maintenance Support and MoW

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