



The Industry-Leading All-In-One Solution Ready to Streamline Regulatory Compliance

Comply with CFR § 229.136 – Locomotive Image and Audio Recording Devices for Passenger Trains (FAST Act)

Ensure regulatory adherence and prioritize passenger safety with Wi-Tronix's industry-leading Locomotive Image and Audio Recording Devices-compliant solution. The Federal Railroad Administration's (FRA) CFR § 229.136 regulation, mandated by America's FAST Act, requires inward-facing and outward-facing cameras on all lead locomotives in passenger trains. Unlock valuable data for improved operations while streamlining compliance:

§ 229.136(d): Secure chain of custody and user activity reports

Our cloud-based solution prioritizes data security by enabling granular control over user access. Authorized users can establish strict rules and assign user roles based on specific needs, ensuring that only authorized personnel have access to sensitive data.

§ 229.136(b)(2)(ii-v), § 229.136(c)(1)(i-iv): Camera requirements

Eliminate compliance concerns surrounding in-cab camera systems. Our solution leverages cutting-edge technology, including 360-degree cameras, to deliver a compliant solution. Authorized users can seamlessly access synchronized camera footage alongside other pertinent vehicle data through the web-based portal.

§ 229.136(f)(1): Safeguarding your data

Our team understands the sensitivity of locomotive and image data. That's why Wi-Tronix prioritizes the strongest security measures to safeguard your information. We utilize a combination of dedicated VPN tunnels and private wireless gateways to ensure data encryption at all times. Rest assured, your critical data remains completely private and never accessible to the public.

Visit www.wi-tronix.com or contact us at sales@wi-tronix.com for more information.



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§ 217.9(b)(3): Automate random sampling through the Wi-Randomizer

The Wi-Tronix system offers a comprehensive solution for rail operators and provides an efficient, automated tool for random sample testing. Additionally, an audit worksheet is provided for remote operational testing and event logging. Data, including video, audio, and FRA signals, can be easily shared with employees for educational or disciplinary purposes. The solution also allows for locking data for extended periods of time. Workflows are being deployed to promptly delete data if a random sample isn't acted upon within 72 hours.

§ 229.136(e): Event Recorder Testing page

Stay informed through Wi-Tronix's self-monitoring Event Recorder Testing page, which delivers real-time status updates. This page also collects data on fleet performance, with a particular focus on DVR and camera functionality. Additionally, the system implements alerting mechanisms for lead locomotive failures and provides daily visible locomotive departure warnings for originating trains.

Locomotive Image and Audio Recording Devices		
Locomotive Image and Audio Recording Devices regulation	Wi-Tronix solution	
[§ 229.136 (a)(4)] Image recording system memory module to store a minimum of most recent 12 hours of operational data	12+ hours of continuous monitoring*	✓
[§ 229.136 (b)(2)(II-v)] Outward-facing camera system aimed at the track's centerline, can distinguish signal aspects displayed by wayside signals, record at minimum 15 frames per second, can record the position of switch points 50 feet in front of the locomotive, capture images in day or nighttime illumination, and include time and date stamps	30 fps at 1920x1080 resolution	✓
[§ 229.136 (c)(1)(I-IV)] Inward-facing image recording system must be positioned to provide complete coverage of the controlling locomotive cab including the instruments and controls, have sufficient resolution to record crew actions, record at a minimum 5 frames per second, can use ambient light in the cab to record clearly, and include time and date stamps	8-12 fps 360-degree fisheye cameras with VR viewing capability	✓
[§ 229.136 (e)] Image recording system shall have self-monitoring features to assess if the system is properly operating (including whether the system is powered on)	Wi-Tronix automated Event Recorder Testing page to include video	✓
[§ 229.136 (f)(1)] Adopt, maintain, and comply with a secure chain of custody procedure	User Activity Logs with built-in Chain of Custody for 10+ years with SSO and User Activity Roles	✓

*Minimum 12 hours: Wi-Tronix currently stores 48 hours of inward- and outward-image recording systems for Transport Canada's LVVR regulation

A history of assisting rail regulatory compliance

Rail agencies can rely on Wi-Tronix for proven support in navigating intricate regulatory requirements. Our commitment to compliance is exemplified by our success in Canada, where Wi-Tronix became the preferred onboard supplier for SOR/2020-178: Transport Canada's Locomotive Voice and Video Recorder regulation.

Visit www.wi-tronix.com or contact us at sales@wi-tronix.com for more information.

