

TRACK VIEW



CAB VIEW



KNUCKLE VIEW



CONTINUOUS VISIBILITY

Maintain continuous visibility across critical onboard and external locomotive views.



FLEXIBLE & SCALABLE

Custom camera layouts for any locomotive type.



WAVESTORE POWERED

Custom camera layouts for any locomotive type.



BUILT FOR RAIL

Engineered for the harshest environments across North America.

BUILT ON EXPERIENCE. FOCUSED ON EXCELLENCE.

ImpactEye™ brings together proven hardware and a powerful video platform into a single, cohesive system. Designed for rail, it delivers dependable performance, clear visibility, and the confidence that every event is captured and accessible.



SHEL-BAR
ELECTRONIC INDUSTRIES



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Onboard Event Capture Ecosystem.

ENGINEERED FOR RAIL.

ImpactEye™ onboard event capture platform synchronizes video, operational events, and onboard system data to deliver continuous visibility across rail operations.



CREW
ACCOUNTABILITY



INCIDENT
REVIEW



YARD
VISIBILITY



MECHANICAL
OBSERVATION



SAFETY &
COMPLIANCE

Product of



SHEL-BAR
ELECTRONIC INDUSTRIES

Powered By



wavestore
Innovation with integrity

THE POWER OF WAVESTORE.

Integrated directly into ImpactEye™, Wavestore synchronizes onboard video with locomotive operational metadata, enabling operators to review speed, location, event triggers, and system activity in parallel with recorded footage for streamlined operational analysis and incident review.



INTUITIVE PLAYBACK & SEARCH

Quickly search and review synchronized video, event triggers, telemetry, and operational metadata.



RELIABLE RECORDING

Built for continuous operation in demanding rail environments.



EFFICIENT DATA MANAGEMENT

Optimized storage and retrieval for fast, dependable access when it matters most.



SYNCHRONIZE & METADATA

Unified synchronization of video, telemetry, operational metadata, and locomotive system activity for streamlined incident review and operational analysis.



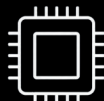
A COMPLETE ONBOARD VISIBILITY SOLUTION.

ImpactEye™ is a fully integrated onboard event capture system that delivers real-time visibility inside and outside the cab. Recording, synchronizing, storing, and managing critical operational events as they occur.



CAPTURE

High-definition video from inside and outside the cab.



PROCESS

Correlates video with synchronized operational metadata, event timing, and onboard system activity.



STORE

Secure, reliable storage for video events and metadata.



MANAGE

Centralized platform for synchronized playback, operational review, and rapid incident investigation.

Flexible By Design. Built For Rail Operations.

A scalable operational platform built to support communication, visibility, analytics, and centralized rail operations.



CENTRALIZED OPERATOR COMMUNICATION

Integrated intercom and communication capabilities allow centralized operators to communicate directly with locomotive crews in real time.



REAL-TIME OPERATIONAL VISIBILITY

Monitor synchronized onboard video, locomotive activity, and operational events from centralized operation centers for enhanced situational awareness.



SCALABLE SYSTEM INTEGRATION

Designed to integrate with existing rail infrastructure, monitoring systems, analytics platforms, and operational workflows.



AUTONOMOUS LOCOMOTIVE OVERSIGHT

Provides remote visual awareness and operational visibility for autonomous or reduced-crew locomotive environments.



INCIDENT REVIEW & EVENT CAPTURE

Synchronized video and operational metadata support post-incident review, operational analysis, and event verification.



FUTURE-READY ARCHITECTURE

Built to evolve alongside modern rail technologies, supporting expanding operational requirements and emerging automation initiatives.



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WHERE ENGINEERING MEETS OPERATION.



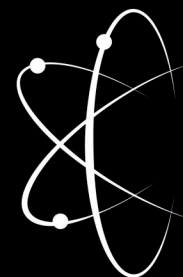
Shel-Bar has built its reputation in the rail industry by delivering reliable, real-world solutions – from rail yard surveillance to large-scale operational systems.



That same expertise now extends onboard the locomotive with field tested ImpactEye™.



Working alongside trusted technology partners like Wavestore, Shel-Bar has developed a robust, integrated video monitoring system designed specifically for the demands of rail operations.



At Shel-Bar, every project is approached with the same standard: the right solution, installed the right way, no shortcuts. We combine industry-leading technology with decades of hands on experience to deliver reliable, scalable, operationally-focused onboard event capture systems built for the realities of today's rail industry.