

Connected Intelligence

Smart Solutions for Transit



Track Intrusion Event Capture

Overview

Connected Intelligence solutions from **duostech** increase operational efficiency, heighten situational awareness and address your safety and security needs. Our solutions deliver the platforms you need to streamline workflows, improve processes and save money while providing optimum results.

How It Works

- Our intelligent technology solutions are based on **praesidium**[®], our proprietary object detection and behavioral analysis software. Our **duostech** systems are managed by our centralized command-and-control platform, **centraco**[®]. These two powerful systems work together as a force multiplier to fulfill your safety and security commitments to your customers.
- Our advanced systems provide real-time views of railcars, monitor trains to detect illegal riders, identify missing hatches and open boxcar doors, and detect unwanted intrusions on platforms, tracks and railyards.
- Additional systems are available for remote drawbridge operation and automatic inspections of pantographs or undercarriage structural components.
- **duostech** has a range of intelligent solutions which provide rapid Return On Investment (ROI) for the rail industry; enabling rail operators to increase safety, reduce liability, improve on-time performance and boost productivity.
- Transit applications include:
 - Platform Safety and Security
 - Power Substation Safety and Security
 - Station Monitoring
 - Third-Rail Monitoring
 - Storage and Maintenance Facilities
 - Pantograph Inspection
 - Railcar Inspection
 - Monitoring for Mechanical and FRA Safety Criteria
 - Security - Foreign Object Detection
 - Asset Tracking



Track Intrusion Detection



Platform Intrusion Detection



Tunnel Intrusion Detection

duostech

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Duos Technologies provides a broad range of sophisticated intelligent technology solutions with an emphasis on mission critical applications.

We combine an innovative business philosophy with a focus on customer service.

Our specialty is the development and delivery of turnkey solutions for rail-centric critical infrastructure systems.

All products, systems and solutions are backed by a 24 x 7 x 365 global training, maintenance and service program.



Centraco Graphical User Interface

Technologies for the Transit Industry

Rail Inspection Portal (**rip**®)

- Rail security and inspection portal for border crossings, railyards and other inspection areas

Track Intrusion Detection System (**tids**™)

- Utilizes advanced A.I. to monitor, detect and characterize the presence of people and objects on and around the track bed

Vehicle Undercarriage Examiner (**vue**®)

- Provides high-resolution imagery of the undercarriages of railcars and other vehicles

Automated Pantograph Inspection System (**apis**®)

- Captures high-definition images of pantographs and performs intelligent analysis to detect defects such as bends, chips and cracks

Virtual Fence

- Intelligent digital video surveillance system (**vss**®) that establishes a secure virtual boundary along the perimeter of any designated area