



tridsTM

Train Rider Detection System

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trids™

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The Train Rider Detection System (**trids™**) uses high-speed cameras and intelligent video software to search passing freight trains for unauthorized riders, minimizing the need to stop trains for inspection.

As a train approaches a rail side checkpoint, high-definition day/night cameras are activated to capture images of each container car passing through a **trids™** checkpoint at speeds of up to 70 mph. The system uses advanced video analytics to process the video scenes, analyzing each image for predetermined anomalies such as an illegal rider and presenting the results to operators on a Graphical User Interface (GUI). Digital images of suspicious events are transmitted to railroad police for investigation.

- High Speed Image Capture**
 High-definition day/night cameras capture multiple images of each container car as it passes through a **trids™** checkpoint at speeds of up to 70 mph.
- Video Image Analysis**
 Images are processed to detect the edges of a container car from various perspectives, and analyze container car wells for anomalies. A person hiding in the well of a railcar, for example, does not fit the expected geometry, and is flagged as a suspicious object.
- Remote Viewing and Alerts**
trids™ cameras provide a live, digital video feed to remote viewing stations. Remote operators receive immediate alerts when **trids™** detects an anomaly with details about the suspect railcar.
- Linear Panorama Generator**
 Specialized cameras capture a sequence of images of the passing train and stitch them together into a panoramic image format. The **Linear Panorama Generator** provides contextual images of the actual location of a detected anomaly to enable fast apprehension of an illegal rider.



trids™ technologies represent a breakthrough in video analytics and automated identification and offer an optimal solution for illegal rider detection.

Application: Railroads, Homeland Security, Border Security.

With **centraco™** Command and Control

Like all of Duos' intelligent solutions, **trids™** is command and control ready. Duos' state-of-the-art intelligent command and control platform, **centraco™** provides a scalable information delivery and response solution that is designed to address operational and management challenges. Designed with years of "real life" situational input, the **centraco™** platform is designed to perform in the most challenging and dynamic environments.

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