

# trackaware®

*Intelligent Right of Way Safety & Security Solution*

## *Grade Crossing*



**Monitor and  
Protect** Vulnerable  
Areas With Advanced  
Artificial Intelligence

**duostech**  
connected intelligence

## Overview

**trackaware®** utilizes advanced, edge-based Artificial Intelligence A.I.\* and machine learning to monitor the facilities and right-of-way at crossings to detect and classify the presence of vehicles, people, and objects on and around the tracks.

The system can also monitor activation failures including gates, lights, etc. The Federal Railroad Administration (FRA) and US Department of Transportation (USDOT) have prioritized investments in grade crossing safety, (<https://www.transportation.gov/railroads>). Duos Technologies' system can provide the solution to assist in trespass prevention.

## Protect Your Community

using **A.I.\*** to keep every *Right of Way* Safer

\* Powered by **truevue360™** A.I.

## How it Works

01

### A.I. Algorithm Models

**truevue360™** A.I. models are built for every camera view in the defined area using image recognition and classification. Identifies what should and shouldn't be there.

02

### Machine Learning (ML)

Data will be monitored and evaluated by our A.I. engine to create a continuous learning environment.

03

### Layered Technology

Layered technology is used to maximize event detection while minimizing false positives. It can review multiple events simultaneously.

04

### Alarm Management Service (AMS)

The events are embedded into AMS and our **centraco®** user interface which will manage the various reports and alert outputs including audio, SMS, visual, verbal, etc.

## System Benefits



Monitors & Alerts when Track Intrusion Occurs



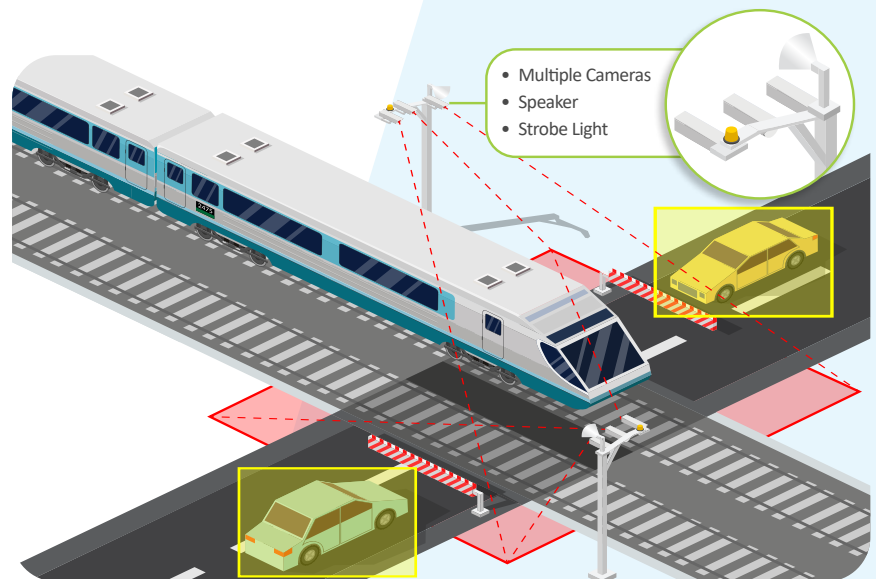
Remote Reset of Alarm



Creates Virtual Boundary with Multiple Zones



Scene Analysis & Reporting through U.I.



- Multiple Cameras
- Speaker
- Strobe Light

Contact Us | All products, systems & solutions are backed by duostech 24 x 7 x 365 global training, maintenance & service program



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