# TRUCK ROLLOVER DETECTION SYSTEM

TAPCO's Truck Rollover Detection System helps prevent truck and other high speed vehicle rollovers on the curves of major highways. The detection system provides advanced warning to each vehicle on the highway, per individual lane. Triple beam, non-intrusive technology allows eight different types of vehicles to be detected based on the curve's geometry. When a vehicle's speed is detected and deemed too fast for a curve, drivers are given a warning enhancement via Message Board, Blankout Sign or BlinkerSign®.

Using a triple beam detector and controller, TAPCO's Truck Rollover Detection System is more accurate than single-detection technology. TDC3 triple beam technology is accurate up to 99.5% of all vehicle classes. Further, this single detector is able to utilize ultrasonic (Height), radar (Speed) and infrared (Proximity) technology.

- Single Controller for up to 8 detectors

- Classification for 8 types of vehicles

- 99.5% accuracy

- Auto-calibration

- Remote configuring and set up
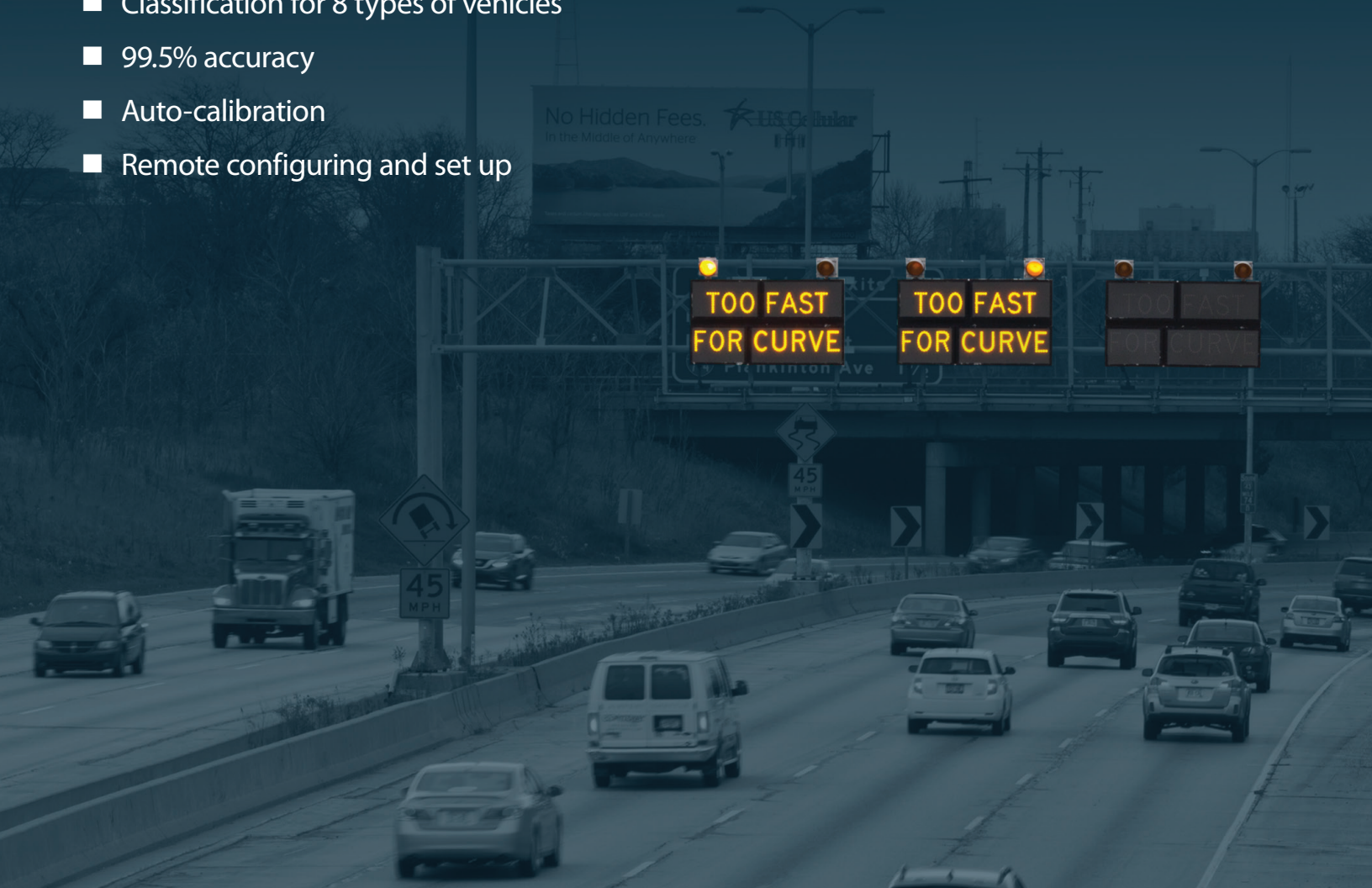
WARNING ALERTS

**DYNAMIC MESSAGE BOARD**

BLANK OUT SIGN

BLINKERBEACON™

The controller is connected to up to 8 multiple overhead sensors and can monitor the speed of each detector simultanious to detemine if an overspeed pccurs. The controller outputs to activate the warning device.

TRIPLE BEAM TECHNOLOGY

Using three different types of detection methods in one to classify most vehicle types and determine which vehicles need a warning alert.
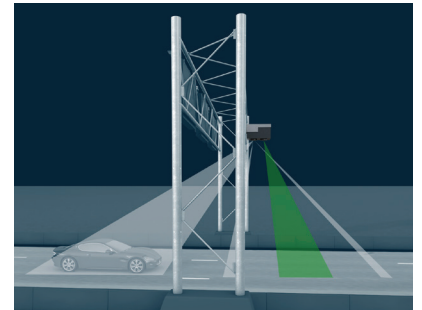
RADAR

Using Doppler shift, a change in frequency of a wave is detected compared to the oncoming vehicle, where speed is then determined.
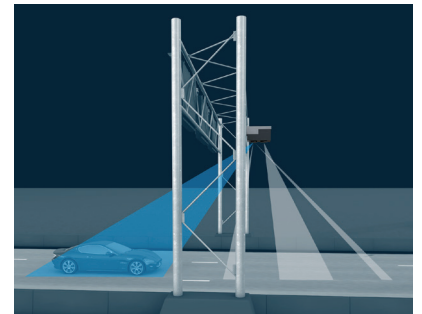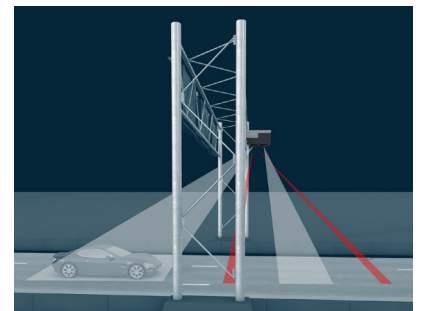

ULTRASONIC

The ultrasonic sensor system scans the height profile of the passing vehicle, where most non-intrusive detection systems only rely on vehicle length to calculate a warning alert.

INFRARED

The infrared sensor system detects vehicle width and lane position. The system then uses all three detections to calculate if a warning alert is needed for the passing vehicle.

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