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How VITRONIC solutions make our roads safer

SPEED ENFORCEMENT

Building a better pathway for future mobility
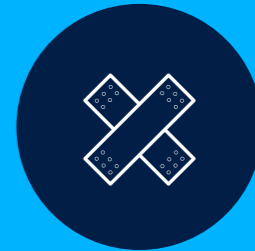
What makes a road dangerous?

At VITRONIC, our speed enforcement systems enable our clients to efficiently detect the most dangerous and common speed violations. Our products use precision scanning LiDAR technology to make our customers' environments safer for every type of road user.

The World Health Organization (WHO) estimates that over 1.3 million people a year die on the road, and tens of millions more are injured. Speed enforcement is the foremost strategy to decrease the risk for every road user. It is essential that we apply our most innovative technology to tackle this issue in a focused effort to improve road safety.

VITRONIC's POLISCAN speed enforcement measurement systems are flexible, highly precise, and consistent. We offer a wide range of housing and other solutions to cover almost any dangerous traffic situation, giving customers exceptional documenting ability to transform the safety of their roads. For pedestrians, to motorcyclists, to heavy goods vehicles.

1.3 million people die on the roads each year worldwide

20-50 million people suffer non-fatal injuries

Pedestrians, motor cyclists and cyclists are most at risk

Can road fatalities ever be **a thing of the past?**

Technology is transforming road safety by redefining what is possible when we monitor speed violations. VITRONIC's innovative POLISCAN systems use state-of-the-art precision technology to offer our clients the highest level of accuracy.

We believe that a world with zero road fatalities is possible—and this is what we work towards with our clients. VITRONIC's POLISCAN systems offer the next generation of speed enforcement using LiDAR (Light Detection and Ranging) measurement technology. Scanning LiDAR can accurately detect multiple vehicles across several lanes, in both directions, and is fully automatic. It allows POLISCAN systems to offer an unmatched level of accuracy and reliability for the evidential documentation of traffic offenses.

POLISCAN SYSTEMS AT A GLANCE

- Measures all vehicles on multiple lanes
- Accurately assigns offenses to vehicles, even in heavy traffic
- Works fully automatically
- Distinguishes between different vehicle classes
- Designed to allow maximum flexibility during use: one system for fixed, semi-stationary and mobile speed enforcement
- Simultaneous enforcement of multiple violation types: speed, lane-related and tailgating violations, and redlight infringements
- Automated Number Plate Recognition (ANPR)
- Detects significantly more infringements than radar-based systems
- Adjust triggering threshold to variable message sign (VMS) based on real-time conditions

One solution to fit **every scenario**

There are countless kinds of roads and infinite potential traffic situations. With VITRONIC as your trusted partner, you can find and create a measurement system optimized for any application scenario worldwide.

Hazardous areas can each look entirely different. The POLISCAN systems product portfolio offers high-quality measurement ability with several types of housing, covering any scenario, situation, or location.

FIXED SPEED ENFORCEMENT

Fixed speed enforcement systems are often placed in permanent roadside housings in areas that are high accident hotspots. POLISCAN systems can be mounted in different design housings for optimum measuring ability.

CITY DESIGN HOUSING
- Rotatable segments for bidirectional enforcement and two measuring systems
- Flexible monitoring from traffic medians and road shoulders

COMPACT CITY TOWER
- Slim design
- Can house a separate classification sensor

COMPACT CITY HOUSING
- Can be installed in tight spaces
- Up to three meters high, protecting against vandalism

City Design Housing

Compact City Tower

Compact City Housing

MOBILE SPEED ENFORCEMENT

Speed enforcement systems must be able to react to acute situations and temporary hotspots dynamically and flexibly. POLISCAN systems for mobile enforcement make that possible.

TRIPOD
- Easy to set up, convenient size
- Fully automated with up to 12-hour battery

IN-CAR INSTALLATION
- Vehicle provides greater protection and comfort for operator
- Option for bidirectional enforcement

ENFORCEMENT TRAILER
- Quick installment in critical situations for longer periods
- Autonomous and unmanned operation up to ten days for particularly dangerous hotspots

Tripod

In-car installation

Enforcement Trailer

AVERAGE SPEED ENFORCEMENT

Long stretches can tempt drivers into speeding, and tunnels are accident hotspots. POLISCAN SECO records a vehicle at two points along a certain length of road, calculating its average speed using distance-time calculation on any stretch the customer deems hazardous, and documents the violation.

POLISCAN SECO systems offer:
- Automatic recognition of international number plates
- Vehicle classification
- Detection of multiple vehicles simultaneously
- Independent of weather conditions or high speed

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Monitoring of vehicles occurs from a gantry or cantilever.

POLISCAN SECO S
Recording of vehicles takes place from the roadside and can be implemented as a fixed or mobile solution.

ADDITIONAL EQUIPMENT FOR MOBILE SPEED ENFORCEMENT: REMOTE CAMERA
- Supplementary camera providing further monitoring such as front and rear image
- Motorbike documentation with rider's photo and registration

Gantry

City Design Housing

> ## How can we be smart about how we monitor our roads?

As traffic volume increases, VITRONIC smart solutions enable a connected traffic-management system. Our state-of-the-art smart devices can oversee and efficiently enforce a multitude of traffic infringements for unparalleled safety.

MONITORING DRIVING BANS

- Simultaneous monitoring of multiple lanes with a single system
- Integrated Automated Number Plate Recognition (ANPR) for vehicle identification
- Lane-based, number-based, time-based or vehicle class-based driving bans
- Automatic detection

TAILGATING

- Precise measurement of the allowed minimum distance between two vehicles
- Complete documentation of the scene with photo and video evidence
- Simultaneous measurement of speed violations

SOFTWARE

Digital connected hardware and software solutions enable end-to-end traffic incident management for roadside traffic enforcement and incident data analysis in back-office environments. POLISCAN systems Office Pro software utilizes browser-based, high-quality incident data validation for efficient traffic adjudication processing.

- End-to-end incident management
- Efficient and secure incident processing
- Import of incident data
- Photos and measurements data validation
- Export of validated case data for infringement notice systems

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For more information,
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