

Technical Information

TRAFFIC TECHNOLOGY

**PoliScan<sup>speed</sup>**  
Automatic Speed Enforcement with  
Digital Documentation





**VITRONIC**  
machine vision people

## **VITRONIC worldwide**

We are here for you today, on four different continents.  
Please contact us: we have solutions to your challenges.  
A list of all contacts at [www.vitronic.com](http://www.vitronic.com).

VITRONIC Dr.-Ing. Stein  
Bildverarbeitungssysteme GmbH  
Hasengartenstr. 14  
D-65189 Wiesbaden  
Fon +49 (0) 611-7152-0  
Fax +49 (0) 611-7152-133  
[www.vitronic.de](http://www.vitronic.de)  
[sales@vitronic.de](mailto:sales@vitronic.de)

VITRONIC Machine Vision Ltd.  
11900 Plantside Drive, Suite G  
Louisville, Kentucky 40299  
USA  
Fon +1 (502) 266 2699  
Fax +1 (502) 266 2695  
[www.vitronic.com](http://www.vitronic.com)  
[sales\\_usa@vitronic.com](mailto:sales_usa@vitronic.com)

VITRONIC Machine Vision Australia Pty Ltd  
10/27-33 Thornton Cres.  
Mitcham VIC 3132  
PO Box 3161  
Nunawading VIC 3131  
Australia

## Automatically captures offences and generates digital case files PoliScan<sup>speed</sup> – is the solution for law enforcement, for both mobile and stationary traffic monitoring

Speed enforcement, red light and vehicle separation offences: an unbroken case file chain of evidence is now possible. PoliScan<sup>speed</sup> measures and documents traffic offences digitally and fully automatically. Manual intervention is not required, operating errors are prevented by design. The enforcement system can transfer the case files to infringement processing systems.

### Outstanding data quality

PoliScan<sup>speed</sup> ensures that the traffic offence documentation is complete and provides an unbroken case file chain of evidence:

- PoliScan<sup>speed</sup> operates fully automatically, operating errors are prevented by design
- outstanding image quality, both at day and by night, in all weather conditions, even with high density traffic
- certified digital data signatures prevent manipulation
- optional automatic location documentation
- the data from each case is integrated into a single evidence file
- PoliScan<sup>speed</sup> automatically monitors its calibration period

### Multilane monitoring

Whether PoliScan<sup>speed</sup> is used at changing sites, stationary or installed in vehicles: the enforcement system measures reliably, even in curves and at other challenging sites. The system, can concurrently enforce multiple lanes and simultaneously monitor multiple vehicles in those lanes.

### Simple and quick

PoliScan<sup>speed</sup> is easy to use. The vehicle detection and measurement uses the latest laser technology. It requires no on-site infrastructure, such as radar, light barriers or piezo sensors. PoliScan<sup>speed</sup> is operational within minutes at a new measurement site and need not be specifically calibrated for each site.





## Unbroken chain of evidence

Each evidence file contains all case relevant data: Both the driver area (where required) as well as the highly legible license plate are included in a single file for rapid evaluation. The speed measurement zone optically integrated into the image enables accurate attribution of the measured speed to a single vehicle. The lane number, calibration state, operator and witness data, together with the incident time are an integral part of the digital document.

Technical Data	
<b>Operation mode</b>	
Fully automatic	Unattended measurement
Operational range	49 ft–246 ft / 15 m–75 m
Measurement range	6 mph–155 mph / 10 km/h–250 km/h
Speed enforcement	>1 vehicle/s
Operational range	multilane
<b>Sensor systems</b>	
Camera	2 high-resolution matrix cameras, 4 million pixels each, b/w
Illumination	Red light flash (650 nm), optional: non visible Infra-Red
Measurement device	LIDAR sensor, eye-safe, laser class 1
User interface	Notebook computer – full operation and data transmission, PDA – on site operation only, JAVA based GUI software
Connection	Connection to user interface via LAN, encrypted communication
Calibrated display	2 x 16 characters, 0.36 inch / 9 mm, the character size showing measured speed and the lane number
<b>Documentation</b>	
Evidence photography	Digital photography of vehicle and license plate, 1 high resolution photo per lane/case, max. 8 Mbytes per case
<b>Electrical data</b>	
Power supply	12 VDC
Power consumption	max. 50 W
<b>Mechanical data</b>	
Dimensions: measurement device	15 inch x 12 inch x 11 inch / 380 mm x 300 mm x 280 mm (l x w x h)
Dimensions: red-light flash	14 inch x 10 inch x 9 inch / 360 mm x 250 mm x 230 mm (l x w x h)
Dimensions: IR flash	14 inch x 9 inch x 9 inch / 358 mm x 218 mm x 228 mm (l x w x h)
Weight: measurement device	39 lbs. / 17.5 kg
Weight: red-light flash	23 lbs. / 10.5 kg
Weight: IR flash	16 lbs. / 7.0 kg
Configuration	Mobile: Vehicle or tripod mounted Stationary: integrated into a column
<b>Environmental conditions</b>	
Recommended environmental temperature range*	+5 °F to +113 °F / -15 °C to +45 °C
Storage temperatures	-22 °F to +167 °F / -30 °C to +75 °C
Humidity	5–90%, non-condensing
Protection class	IP65

These specifications are subject to change without notice. Rev. 1.3/September 2006

\* PollScan<sup>speed</sup> monitors the internal temperature of the system, and stops operation when the permissible range is abandoned.