



For Safer Roads

One System, a Multitude of Applications

With the POLISCAN FM1 measurement technology, you can monitor traffic even more flexibly and efficiently, thus ensuring greater safety on the roads. The measurement system can be used in stationary, semi-stationary, and mobile applications. It detects traffic offenses without the need for manual operation during ongoing measurement.

The scanning LiDAR measurement technology accurately detects the speed of the vehicle as well as the number plate and vehicle class. The vehicle's direction of travel and lane are also recorded. Thus, the system can be used for speed and red light enforcement as well as for number plate recognition.

POLISCAN FM1

General

Operating Mode	Fully automated unattended traffic enforcement
Operational Range	15 m to 75 m (49 ft to 246 ft)
Measurement Range	10 – 320 km/h (6 mph to 199 mph)
Speed Enforcement	Multiple vehicles simultaneously
Coverage	• 4 lanes for front enforcement with driver picture • Up to 6 lanes for front enforcement without driver picture (owner responsibility) • Up to 6 lanes for rear enforcement (owner responsibility)
License plate reading (ALPR/ANPR)	Integrated option for license plate reading „ANPR-Ready“

Sensor Systems

Cameras	2 high-resolution matrix cameras, standard resolution up to 16 Megapixels each, color. Options: B/W available. Higher resolutions available
Illumination	Red light flash (650 nm), optional: non visible infrared or visible white flash (more colors available)
Measurement Device	scanning LiDAR sensor, eye-safe, laser class 1
Connection	Encrypted communication to user interface on external operating unit
Calibrated Display	3.2" TFT color display with touch functionality

Documentation

Evidence Photography	• Digital photography of vehicle and license plate, 1 or 2 high resolution 12-bit photos per case, lossless storage • Typical case size: 3 to 6 MBytes
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Mechanical Data

Dimensions of the Measurement Unit	230 × 263 × 263 mm (9.1 x 10.4 x 10.4 in) (L*W*H)
Dimensions of Flash Unit	238 × 173 × 173 mm (9.4 x 6.8 x 6.8 in) (L*W*H)
Weight of Measurement Unit	9.6 kg (21.2 lb)
Weight of Flash Unit	4.8 kg (10.6 lb)
Configuration	For fixed, mobile and semi-stationary operations

Environmental Conditions

Recommended Environmental Temperature Range	Operating: -40°C to +60°C (-40°F to 140°F) Startup: -25°C (-13°F) Extended high temperature with fan attachment
Storage Temperatures	-60°C to +70°C (-76°F to +158°F)
Humidity	5 – 90%, non-condensing
Protection Class	IP65

Electrical Data

Supply Voltage	12 V DC
Power Consumption	Maximum 48 W (4 A / 12 V), average 40 W or less