

MESTA 1000

MOBILE, AUTOMATED SPEED
MEASUREMENT EQUIPMENT

Multi-target bi-Doppler Radar technology

Automatic spot speed enforcement

Vehicle classification

Multiple lane monitoring

WiFi connection

Modular and scalable architecture

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MOBILE, AUTOMATED SPEED

MEASUREMENT EQUIPMENT



Technical characteristics

- Certified speed range: 25 to 300kmph (15 to 186mph)
- Certified measurement accuracy:
 - ± 3 kmph up to 100kmph (± 1.85 mph up to 62mph)
 - $\pm 3\%$ beyond 100kmph ($\pm 3\%$ beyond 62mph)
- Number of lanes monitored: 1 to 4
- Data interfaces:
 - High bandwidth serial USB 2.0
 - WiFi or Ethernet connection
 - IP technology, RJ 45 connector
- Operating temperatures: from -20 to $+60^{\circ}\text{C}$ (from -4 to $+140^{\circ}\text{F}$)
- Power supply: 12 V DC
- Complies with EU regulations for electrical equipment, meaning it carries the "CE" logo for the tripod application and "E" logo for use onboard a vehicle

Fosters Patrol Mobility

The Mesta 1000 is a mobile device designed for instant speed control. This high-performance equipment is fully automated in its main functions: speed measurement, violation detection, image acquisition, storage and transmission of the violation data to the processing centre. Designed to foster patrol mobility, it is offered in two configurations: onboard the patrol car, or tripod mounted for easy and rapid deployment in urban and rural areas.

When high-performance serves road safety

• **Reliability:** based on bi-Doppler Radar technology, the Mesta 1000 carries out the direct measurement of the vehicle speed and distance, with high precision and reliability. Furthermore, it is operational day and night, in all weather conditions, thus offering a very high availability rate.

• **Multiple lane monitoring:** equipped with a high definition digital camera, the Mesta 1000 monitors up to 4 lanes and delivers two colour photos of each violation. The multi-target bi-Doppler radar identifies the lane on which each offending vehicle is travelling, thus reducing the violation messages rejection rate.

• **Vehicle classification:** the Mesta 1000 automatically classifies vehicles, for a more accurate enforcement of the speed limits authorised for each type of vehicle.

• **Remote parameter setting:** using a simple and intuitive interface, the operator configures and controls the various modules composing the equipment (via a secure WiFi or Ethernet link)

• **Real time violation processing:** the violation messages generated by the Mesta 1000 can be processed and printed locally –allowing on the spot interception of violators by the patrol– or stored for later batch processing by the processing centre (VPC).

• **A tropicalised version:** the Mesta 1000 is available in "hot climate" version, capable of operating at high temperature levels.

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