

IDENTIFICATION

MESTA 2000-2200

FIXED, AUTOMATIC SPEED

MEASUREMENT EQUIPMENT

Multi-target bi-Doppler radar technology

Vehicle classification

Multiple-lane monitoring

Remote maintenance and parameter setting

Hot climate version

Vandal proof



MESTA 2000-2002

FIXED, AUTOMATED SPEED

MEASUREMENT EQUIPMENT



Technical characteristics

- **Certified** device from 25 to 300 km/h (15 to 186 mph)
- Certified measurement accuracy:
 - ± 3 kmph up to 100 kmph (± 1.86 mph up to 62 mph)
 - $\pm 3\%$ above 100 kmph ($\pm 3\%$ beyond 62 mph)
- Multiple lane monitoring : up to 5 lanes.
- Two way vehicle detection
- Vehicle classification: LV/HV.
- Removable rack: measurement and image acquisition modules.
- Data interface: IP technology, RJ 45 connector.
- Connection: wired (ADSL, fiber optic) and wireless (GSM, 3G, 3G+).
- Certified operating temperatures: from -20°C to $+60^{\circ}\text{C}$.
- Power supply: 220 V AC 50 Hz or solar energy.
- Conforms to EU regulations for electrical equipment, meaning it carries the CE logo.

Adapted to the needs of governments

The MESTA 2000-2200 range has been designed to measure the spot speed of all types of vehicles, from cars to trucks and motorcycles. It is a stationary speed camera, with its main functions entirely automated: speed measurement, violation detection, image acquisition, violation message creation and real-time, secured data transmission to the processing centre. Offered in various configurations, mounted on masts, gantries or set-up on the roadside, it covers all constraints of installation.

MESTA 2000-2200 has a significant impact on the behaviour of road users' observance of speed limits.

A solution designed by a road safety expert

- **Reliability and high performance:** based on bi-Doppler radar technology, the MESTA 2000-2200 guarantees a precise and reliable measurement of both speed and distance of the vehicle. With its remote maintenance and parameter setting features, and anti-vandalism protections, the MESTA 2000-2200 offers a high operational availability rate.
- **Multiple lane monitoring:** the MESTA 2000-2200 monitors up to 5 traffic lanes, depending on the width of the lane, and delivers two high definition photos of each offending vehicle. The designation by the radar of the targeted lane allows processing violation messages displaying several

vehicles on the same photo. This contributes to the effectiveness of our automated speed limit enforcement solution.

- **Automatic vehicle classification:** this feature allows the MESTA 2000-2200 to enforce different speed limits for each class of vehicle (light or heavy vehicles).
- **Removable rack:** The camera and speed measurement hardware is a single rack-mounted module with a standard calibration so that it can be easily removed for maintenance, and can be replaced by another module, without re-calibration.
- **Two way vehicle detection:** the MESTA 2000-2200 detects vehicles in receding or approaching mode. Optionally, it monitors vehicles in both directions of traffic simultaneously.
- **High quality image:** this feature is required to automate recognition of the number plates of offending vehicles.
- **Hot climate version:** with its careful design and the integration of cooling modules, this version of MESTA 2000-2200 can operate in high temperature environments.
- **Renewable energy:** attentive to the issues of sustainable development, Morpho offers a version of the MESTA 2000-2200 powered by solar energy.
- **Protection against vandalism:** in its bulletproof, anti break-in housing, the MESTA 2000-2200 is also protected by a high security lock (secure key with remote control, optional) and alarm system.

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