



NOMAD

Stationary System for Automated Enforcement of Multiple Road Traffic Offences



- ▶ Stationary system for simultaneous and automated enforcement of speeding and red-light running
- ▶ Ergonomic, easy to use, type-approved equipment for simultaneous control of approaching and receding vehicles on 4 lanes, at speeds from 30 to 250 km/h and at traffic lights
- ▶ Housing designed to withstand the elements and vandalism, fixed to a pole or street furniture and equipped with a decoy function
- ▶ Detection of traffic light state by camera (system installed without major civil engineering work)
- ▶ Possibility of embedding a wide range of additional functionalities for optimum productivity according to customer requirements, thanks to the additional computing power provided by the processing unit

KEY FEATURES & BENEFITS

High-performance enforcement of road traffic offences

- Ticketing of up to 5 vehicles/s per lane
- Simultaneous enforcement of different offences

Built-in additional functionalities

- Automatic number plate recognition (ANPR)
- Offence and traffic statistics
- Speed limits by vehicle class and lane
- Simultaneous enforcement in both directions of traffic

Easy-to-install and use equipment

- High positioning tolerance
- Non-intrusive system (no induction loops needed in the roadway)
- Fast (< 5 min) and fully automatic calibration
- Ergonomic and intuitive multilingual interface

Multi-function cabinet

- Decoy function
- Vandal-resistant and weatherproof
- Customisable external design

APPROVED FEATURES

| | |
|--------------------------------|---|
| Offence Detection | Speeding per vehicle class and per lane, speeding on green light, red light running |
| Type of Use | Stationary installation on streets, roads and motorways |
| Operating Mode | Fully automated, unattended traffic enforcement |
| Installation Mode | On a pole or street furniture |
| Installation Height | 2.5 m to 5.0 m (8.2 ft to 16.4 ft) |
| Detection Range | 0 m to 45 m (0 ft to 148 ft) |
| Speed Measurement Range | 30 km/h to 250 km/h (19 mph to 156 mph) |
| Speed Enforcement Capabilities | Approaching and/or receding traffic monitoring (up to 5 vehicles/s per lane) |
| Lane Coverage | Approaching traffic: 4 lanes (speeding) Receding traffic: 4 lanes (speeding and red light running) Identification of the offending vehicle on the picture |
| Equipment Positioning | Roadside, opposite roadside, central reservation |
| Calibration | Fully automatic (calibration < 5 min) |

ADDITIONAL FUNCTIONALITIES

| | |
|---|----------|
| Automatic License Plate Reading (ALPR/ANPR) | Built-in |
| Vehicle Classification | Built-in |
| Offence and Traffic Statistics | Built-in |
| Make & Model Recognition (MMR/BMR) | Optional |
| Vehicle Color Recognition | Optional |

COMPONENTS

| | |
|-----------------------|---|
| Sensor Device | Scanning 3D LiDAR sensor (64 channels, 865 nm, 20 Hz) Class 1 eye-safe per IEC/EN 60825-1:2014 |
| Shooting Device | High-resolution colour matrix camera (9 Mpx) Options: B/W and higher resolutions available |
| Night Lighting Device | Non-visible IR light projector (850 nm) Options: visible red light (650 nm) or visible white projector |
| Storage Disc Capacity | 64 GB (sensor unit) + 512 GB (processing unit) |
| Connectivity | Encrypted communication to user interface via Ethernet Options: WLAN, 3G/4G |

TECHNICAL DATA

| | |
|-----------------------|---|
| Operating Temperature | -20 °C to +55 °C (-4 °F to 131 °F) Extended high/low temperature range with appropriate cooling/heating system |
| Storage Temperature | -20 °C to +60 °C (-4 °F to +140 °F) at least |
| Humidity | 5 – 95 %, non-condensing |
| Protection Class | IP45 Vandal resistant |
| Dimensions (L*W*H) | 454 x 427 x 687 mm (17.9 x 16.8 x 27.0 in) |
| Weight | Approx. 59 kg (130 lb) |
| Supply Voltage | 230 V AC, 50 Hz |
| Power Consumption | Maximum 120 W, average 80 W or less |
| Battery Type | Optional |
| Battery Autonomy | Optional |