

SPEED & TRAFFIC ENFORCEMENT
CAMERAS AND SOFTWARE



S1

THE PORTABLE TRAFFIC ENFORCEMENT SOLUTION

A Complex Traffic Control Device (CTCD) - much more than a mobile speed camera



Adaptive Recognition S1 is a mobile no-staff speed and traffic enforcement device with onboard ANPR. It is capable of detecting traffic violations like the abuse of bus lanes and measuring speed from a whopping distance of 1,200 meters (4,000 feet).

The unique high-precision built-in laser technology reaches further than any other speed monitoring camera on the market.

The S1 is extremely portable: the setup takes less than two minutes. During measurements, no human interaction is required: the camera operates on its own and uploads every passing vehicle's data – or, depending on user-defined settings, only the violators – to a server via a secured and encrypted channel. We also provide a state-of-the-art SQL database and a corresponding database management software (Event Monitor) for your system. The uploaded results include license plate data, the vehicle's speed, exact location (via GPS) and timestamp as well as other parameters. The result files are encrypted and cannot be altered.



SPEED
ENFORCEMENT



TOLL
COLLECTION



TRAFFIC
MONITORING



LAW
ENFORCEMENT



TRAFFIC
SECURITY



VIDEO
ANALYTICS

Main benefits

- No-staff traffic monitoring and enforcement
- Certified speed measurement even from > 1,200 meters (> 4000 feet) away
- Quick setup: less than two minutes from box to measure
- All-in-one design: IR illumination, ANPR engine, laser beam
- Wide range of communication channels: Gbit ethernet, GPS, 4G/LTE and WiFi
- Tamper-free event registration and communication

Specifications

• onboard CARMEN® ANPR engine • super long-range speed measurement • GPS • 4G/LTE • Wi-Fi • encrypted data storage and communication • customizable result output • works on its own • all-in-one solution • Plug'n'Play • easy to use

Distance Range

Optimal ANPR range at ambient light	20 m – 150 m (65 feet – 500 feet)
Maximal ANPR range at optimal conditions	220 m (720 feet) with Sensor 2
Measuring distance	up to 1200 m (4000 feet)

Imaging

Resolution (H x V pixels: frame rate)	Sensor1: 1280 x 720: 30 fps Sensor2: 2048 x 1536: 25 fps
Function of the second sensor	Enhanced ANPR and enforcement, overview
Lens	30x variable zoom, motorized, programmable presets

Illumination

Wavelength	760 & 850 nm
Illumination mode	Synchronized flash

Processing & I/O

CPU for ANPR	Intel Atom Quad Core 4x1.9 GHz
Communication protocols	ARP, ICMP, TCP/IP, DHCP, NTP
4G / GPS	Included
Onboard mass storage	128 GB SSD
Connectivity	1 Gbps Ethernet, push-pull USB connector, external push-pull power connector

Electrical Data

Power requirement	12 – 17 V DC
Power consumption (typical)	25 W
Internal battery capacity	36 Wh
External battery capacity (optional)	260 – 520 Wh (6 – 12 hours typ. operating time)

Mechanical Data

Operating temperature*	45°C – +70°C (-49°F – +158°F)
IP rating	IP54
Dimensions l x w x h	361 mm x 371 mm x 224 mm (14.2" x 14.6" x 8.8")
Weight	10.2 kg (22.44 lbs.)

*internal

Laser

Measurable speed range	10 – 300 km/h (6 – 186 mph)
Eye safety class	Class 1 / Class 1m (EN60825-1)

In the box

S1, military grade carrying case, power cable with 12V plug (car cigarette lighter), ethernet cable, external GPS adapter, lifetime Carmen® license, user guide

Optional Accessories

tripod with carrying case and mounting kit, external battery with power cable, external battery charger, car seat adapter, soft carrying case



Speed measurement up to 1200 m / 4000 ft,
ANPR/LPR up to 220 m / 720 ft (up to 100 m / 330 ft at night in complete darkness - 0 lux)

Technical specifications are subject to change without prior notice. This document does not constitute an offer.