TRAFFICSPOT®

FLEXIBLY CUSTOMIZABLE
TRAFFIC MONITORING SOLUTION

VEHICLE FRONT NUMBER PLATE:	VEHICLE REAR NUMBER PLATE:	
PLATE TYPE: EU **KOD 768**	PLATE TYPE: EU **KOD 768**	LENGTH 2 350 CM · WIDTH 355 CM · HEIGHT 488 CM · NUMBER OF AXLES: **5**
FRONT ANPR CAMERA	REAR ANPR CAMERA	OVERVIEW CAMERA IMAGE · SHAPE CATEGORY: J2, J3, J4
DATA OBTAINED FROM THE INSTALLED OBU OF A VEHICLE		
VEHICLE LICENCE PLATE NUMBER, VEHICLE AXLES, VEHICLE CLASS, VEHICLE WEIGHT LIMITS, EQUIPMENT OBU IDENTIFIER	SIDE SCANNING CAMERA	AUTHENTIC SPEED DATA **82** KM/H

INTELLIGENT
TRAFFIC SYSTEM (ITS) MEASUREMENT POINT

TrafficSpot collects valuable road traffic data – in the city or on the open road. It is an innovative yet field tested complex automatic solution that helps traffic authorities (or highway management organizations) to monitor traffic, optimize traffic control, collect road toll and generally streamline transportation.

TrafficSpot is a single-gantry, multilane site control system. Designed for automatic traffic monitoring with multiple sensors, TrafficSpot automatically recognizes number plates, measures vehicle dimensions, counts the axles and calculates vehicle category. TrafficSpot even has a weigh-in-motion (WIM) option.

In short, TrafficSpot is a flexibly customizable turnkey solution with the benefit of being platform-independent – ready to be integrated to any local or national infrastructure of traffic management or toll collection system.

TOLL
TOLL COLLECTION

TRAFFIC SECURITY MONITORING

JOURNEY TIME MEASUREMENT

SPEED ENFORCEMENT

CONGESTION CHARGING

BUS LANE AND RED LIGHT ENFORCEMENT

MAIN BENEFITS

• Increases security and safety of transportation infrastructure
• Tracks vehicles carrying dangerous goods
• Automating ADR (HIN) code reading that saves time and resources
• High accuracy and recognition rates
• Smooth and problem-free operation 24/7

TOWARD THE FUTURE IN SAFETY – SINCE 1991

SPECIFICATIONS

Complex multi-sensor traffic monitoring • Road toll collection • City/highway use • Border control • Weight measurement (WIM) • Speed enforcement • Road, tunnel and bridge security • Doppler-radar • Front and rear view ANPR/LPR • 3D laser scanner • axle count • vehicle-type categorization • GPS location and timestamp • onboard unit (OBU) data
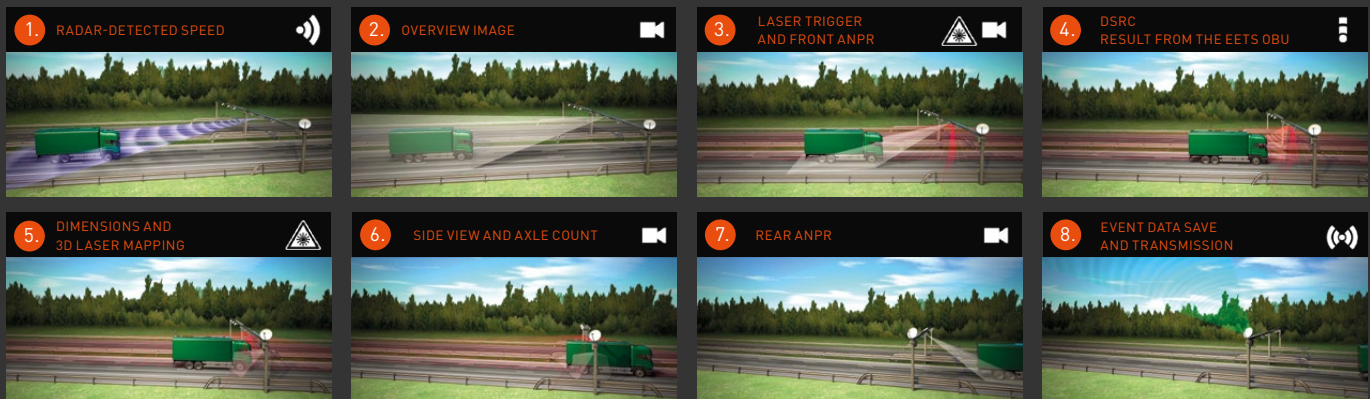
TECHNICAL DETAILS

AVAILABLE SENSORS:

- Doppler-radar (hardware trigger, vehicle-type categorization and certifiable speed detection)
- FreewayCAM front and rear view ANPR/LPR camera
- FreewayCAM overview camera
- 3D laser scanner (triggering, vehicle-type categorization)
- Side view optical scanner (axle count)
- DSRC antenna
- Carmen® FreeFlow ANPR/LPR software (Latin, Arabic, Cyrillic, etc. characters)
- Other sensors available on request

Recommended installation height:	6 m; max. 10 m (20 ft; max. 33 ft)
Typical lane width:	4 m (13 ft)
Operating temperature:	-30 °C to +65 °C (-22 °F to +149 °F); from -50 °C (-58 °F) with auxiliary heating
IP rating:	IP65
Speed limit:	up to 250 km/h (155 mph)

TYPICAL DATA STRUCTURE:

- Text data: location ID, event ID, lane ID, GPS location and timestamp, vehicle plate country code, front and rear number/license plate, vehicle category, axle count, speed, onboard unit (OBU) data, verification
- Optical data: front and rear vehicle plate; front view, rear view and overview
- Data Output: xml, binary

PROCESS EXAMPLE:

1. RADAR-DETECTED SPEED

2. OVERVIEW IMAGE

3. LASER TRIGGER AND FRONT ANPR

4. DSRC RESULT FROM THE EETS OBU

5. DIMENSIONS AND 3D LASER MAPPING

6. SIDE VIEW AND AXLE COUNT

7. REAR ANPR

8. EVENT DATA SAVE AND TRANSMISSION

ARH GLOBESSEY® DATA SERVER – ROADSIDE ENDPOINTS AND INTEGRATED MIDDLEWARE