

VIGILANTE TRAFFICSPOT®

ROADSIDE TRAFFIC MONITORING
AND DATA PROCESSING



 VEHICLE FRONT NUMBER PLATE: EU KOD 768	 VEHICLE REAR NUMBER PLATE: 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: 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

SINGLE-GANTRY SOLUTION FOR FREE-FLOWING TRAFFIC MONITORING

Sensing and monitoring device collection installed on a single, fixed detection point (i.e.: traffic gantry or bridge) for surveillance and data gathering:

- radar • laser • overview camera • DSRC antenna • industry-leading Carmen® ANPR/LPR software.

The additional onboard processing unit intelligently computes all measured and detected data; marks each vehicle-related event with a timestamp, location and lane identification; bundles the gathered data in an encrypted package and finally sends it to a pre-designated central location.

KEY FEATURES







- 100% passing vehicle detection; three separate types of detectors (radar trigger, virtual loop, laser trigger)
- 98,5%+ (TÜV-audited) detection accuracy even during heavy traffic, limited visibility and at speeds of up to 250 km/h (155 mph)
- Purpose-built hardware
- Secure data retention; continued functioning offline for at least five days
- IP-based communication
- Efficient data compression and upload
- Each necessary data set bundled in a single "event" package for ARH GLOBESSEY® Data Server
- Modular scalability for individual needs
- Monitoring and management of each components through ARH GLOBESSEY® Data Server

MAIN BENEFITS

- All the necessary traffic information gathered and processed in a single location
- Ideal for toll collection, speed enforcement, journey time measurement
- Quick ROI
- Simple maintenance
- Scalability; cost effective installation and deployment



VIGILANTE

 TOLL TOLL COLLECTION	 TRAFFIC SECURITY MONITORING	 JOURNEY TIME MEASUREMENT	 SPEED ENFORCEMENT	 CONGESTION CHARGING	 BUS LANE AND RED LIGHT ENFORCEMENT
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TECHNICAL DETAILS

TRAFFICSPOT®

AVAILABLE SENSORS:

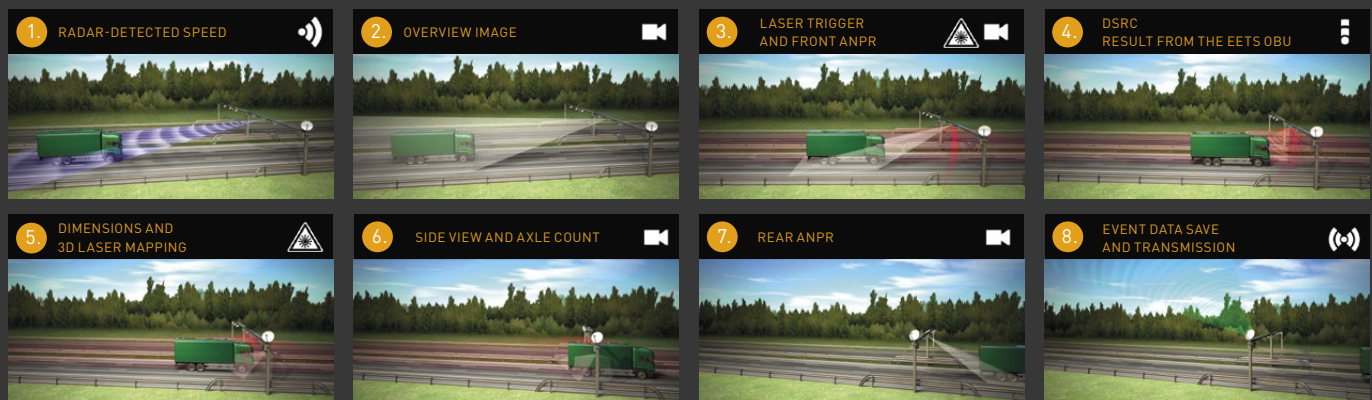
- Doppler-radar (hardware trigger, vehicle-type categorization and certifiable speed detection)
- FreewayCAM front and rear view ANPR/LPR camera
- FreewayCAM overview camera
- 3D laser scanner (triggering, vehicle-type categorization)
- Side view optical scanner (axle count)
- DSRC antenna
- Carmen®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

Recommended installation height:	6 m; max. 10 m (20'; max. 32')
Typical lane width:	4 m (13')
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:



ARH GLOBESSEY® DATA SERVER – ROADSIDE ENDPOINTS AND INTEGRATED MIDDLEWARE

