TRAFFICSPOT®
ROADSIDE TRAFFIC MONITORING AND DATA PROCESSING

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 component 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

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® ANFR/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.
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

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended installation height:</td>
<td>6 m; max. 10 m (20'; max. 32&quot;)</td>
<td></td>
</tr>
<tr>
<td>Typical lane width:</td>
<td>4 m (13')</td>
<td></td>
</tr>
<tr>
<td>Operating temperature:</td>
<td>-30 °C to +65 °C (-22 °F to +149 °F); from -50 °C (-58 °F) with auxiliary heating</td>
<td></td>
</tr>
<tr>
<td>IP rating:</td>
<td>IP65</td>
<td></td>
</tr>
<tr>
<td>Speed limit:</td>
<td>up to 250 km/h (155 mph)</td>
<td></td>
</tr>
</tbody>
</table>

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. 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 GLOBESEY® DATA SERVER – ROADSIDE ENDPOINTS AND INTEGRATED MIDDLEWARE

ADDRESS: ALKÓTAS UTCA 41, H–1123 BUDAPEST, HUNGARY, EU
PHONE: +36 1 201 9650 • FAX: +36 1 201 9651
WWW.ARH.HU • EMAIL: SENDINFO@ARH.HU