

SpeedCAM

SPEED ENFORCEMENT CAMERA WITH BUILT-IN ANPR SOFTWARE & SDK



SMART SOLUTION WITH INTEGRATED LPR FOR STATIONARY SPEED ENFORCEMENT

SpeedCAM combines intelligent number plate recognition with speed measurement radar to form a smart traffic sensor in a single-sealed, robust and waterproof camera. The built-in smart camera provides an all-in-one solution for intelligent traffic monitoring and number plate recognition. It includes high quality image capturing in integrated illumination, a processing unit for number plate recognition, automatic self-control and remote access. All processing is done inside the unit: images, number plate texts, time and vehicle speeds are stored in a database within the SpeedCAM's memory with easy access through a web server.

KEY FEATURES

- Built-in Doppler RADAR and LPR processing unit
- Continuous speed measurement and image capturing, max 30 FPS
- Vehicle classification and traffic counting capabilities
- World leading CARMEN® LPR engine included (country-independent)

MAIN BENEFITS

- Appropriate even for low infrastructure systems; no need for lane controller PC for ANPR
- Traffic counting, traffic analysis
- Installing simply: requires standard IP and power connection only
- Offering higher OCR accuracy in number plate recognition based systems



SPEED ENFORCEMENT



TOLL COLLECTION



JOURNEY TIME MEASUREMENT



VIDEO ANALYTICS



TRAFFIC MONITORING



TRAFFIC SECURITY MONITORING



BUS LANE AND RED LIGHT ENFORCEMENT

SPECIFICATIONS

SPEEDCAM

IMAGING

| | |
|------------------------------------|--|
| Resolution (H × V pixels) | 1280 × 720 |
| Sensor | Color, Progressive scan CCD 1/3" |
| Max Frame Rate (at all resolution) | 30 frames/sec |
| Exposure Control | Global shutter, software adjustable 1/30 s – 1/27700 s |
| Output Format | JPEG, MJPEG stream, H.264 |
| JPEG Quality | Adjustable between 10 % – 80 % |
| Day/Night Mode | Configurable day/night mode switching |

LENS

| | |
|------------------------|---|
| Lens Type | 5.2 – 58.8 mm with high precision motorized positioning |
| Iris | Automatic motorized, programmable |
| Focus | Automatic motorized, programmable |
| Zoom | Automatic motorized, programmable |
| Optical Filter | Switchable: All pass / IR cut above 850 nm |
| Recommended ANPR Range | 3 m – 20 m (10 feet – 65 feet) |

ILLUMINATION

| | |
|----------------|---|
| Type | High power IR LED, regulated |
| IR Wavelength | 850 nm |
| Number of LEDs | 8 |
| Intensity | 3 preconfigured modes (low, medium, high) |
| Flash Time | Software adjustable, up to 950 µs |

PROCESSING & I/O

| | |
|-------------------------|--|
| CPU | 1.6 GHz Intel Atom + N2600 |
| Operating Memory | 1GB DDR3 |
| Storage Memory | 32 GB |
| Operating System | Linux 64 bit |
| ANPR | CARMEN® FreeFlow |
| Communication Protocol | ARP, ICMP, TCP/IP, DHCP, NTP, FTP, HTTP, SMTP, RTP |
| Communication Interface | 100Mbit/sec, Ethernet |

RADAR

| | |
|-----------------------|----------------------------------|
| Measurement Principle | Doppler-Radar |
| Measurement Range | 0 – 255 km/h (0 – 158.5 mph) |
| Radar frequency | 24.165 GHz, K-Band |
| Direction | Selectable uni- or bidirectional |
| Installation angle | Recommended 10° – 25° |
| Operating mode | Counting (signed) speed |

ELECTRICAL DATA

| | |
|--------------------------------|------------|
| Input Voltage | 24-28 V AC |
| Basic Power Consumption | 15 W |
| Power Consumption With Heating | 20 W |
| Junction Box | Optional |

MECHANICAL DATA

| | |
|--------------------------|--|
| Operating Temperature | -20 °C to 55 °C (-4 °F to 131 °F) |
| Startup Temperature | Over 0°C (32 °F) |
| IP rating | IP67 |
| Dimensions (L × W × H) | 385 mm × 243 mm × 335 mm (15.16" × 9.57" × 13.19") |
| Weight (without bracket) | 13,5 kg (29 pound) |
| Weight (bracket) | 0,6 kg |
| Housing Material | Aluminum |
| Housing Color | RAL 9007 / Optional Custom |
| Shield Color | RAL 9007 / Optional Custom |

