



# SPEEDCAM

## ANPR SPEED CAMERA

Measures speed, takes care of safe traffic. **The guardian angel of any road.**



Statistics show that 30-50% of traffic accidents are caused by speeding – a common traffic violation that can be easily reduced by implementing proper speed measurement systems. SpeedCAM is our way of maintaining safe traffic and ensuring the safety of lives.

This speed camera is truly a smart unit – with integrated processing, onboard ANPR functions, radar-assisted (certified) speed measurement and many built-in smart features, such as the automatic detection of approaching vehicles, clear night vision or the parallel quad-core ANPR processing.

To ensure flawless functioning in 7/24, any time and anywhere, this speed camera got a IK10 and IP67 rated robust housing – taking care of roads from Canada to Saudi Arabia.



SPEED ENFORCEMENT



TOLL COLLECTION



VIDEO ANALYTICS



TRAFFIC MONITORING



TRAFFIC SECURITY MONITORING



BUS LANE AND RED LIGHT ENFORCEMENT

## Main benefits

- All-in-one traffic solution
- On-board ANPR: runs CARMEN® on a quad-core CPU
- Integrated radar: certified speed, classification and hardware trigger
- Secondary sensor and lens: Advanced Vision imaging
- Glare-free and shadow-free imaging
- Vehicle make, model and color recognition - more information helps better decisions

# Specifications

- Certified speed measurement • onboard ANPR • dual lens image capturing • multi-core image processing • smart illumination
- GPS • easy integration • 4G/LTE modem • reading reflective/non-reflective license plates • optional vehicle make, model and color recognition (MMR)

Production Code

## SpeedCAM FHD DUAL PLUS

SpeedCAM-03-4562

### Distance range

|  |                             |
|--|-----------------------------|
| Optimal ANPR range at ambient light      | 10 m – 20 m / 33 ft – 65 ft |
| Maximum ANPR range at optimal conditions | 50 m / 164 ft               |

### Imaging

|                                      |   |
|--------------------------------------|---|
| Resolution (H × V pixels): framerate | Sensor1: 2048 × 1536: 20 fps, 1920 × 1080: 30 fps<br>Sensor2: 1280 × 960: 54 fps      |
| Function of the second sensor        | Advanced Vision   |
| Day mode / night mode                | Light sensor configurable auto-switching day/night mode, automatic brightness control |
| High Dynamic Range mode (HDR)        | –   |
| Lens                                 | Main lens: 3.3x, automatic, motorized lens  |

### Illumination

|                    |                                  |
|--------------------|----------------------------------|
| Wavelength         | 850 nm (Infrared)                |
| Illumination modes | Synchronized flash or continuous |

### Processing & I/O

|                         |   |
|-------------------------|---|
| CPU for ANPR            | Intel Atom Quad Core 1.9GHz                                     |
| Communication protocols | ARP, ICMP, TCP/IP, DHCP, NTP, FTP, HTTP, SMTP, RTP, HTTPS, SFTP |
| 4G / GPS                | Included  |
| Monitoring protocol     | SNMP  |

### Electrical data

|                           |   |
|---------------------------|---|
| Power requirement         | 24-28 V AC  |
| Power consumption typical | 20 W  |
| Connectivity              | Binder M12 circular: Ethernet (8-pin), Power (4-pin), User (8-pin), User (12-pin) |

### On-board intelligence

|                 |  |
|-----------------|--|
| CARMEN® ANPR    | Included   |
| Video Analytics | Vehicle Detection (VehDet), Motion Detection (MotDet), Virtual Loop Trigger, Private Zones, Vehicle Make and Model and Color recognition |
| Trigger sources | GPIO/ UART/ Software trigger (controlled via HTTP request)   |

### Mechanical data

|   |   |
|---|---|
| Operating temperature*                                  | -40 °C – 70 °C / -40 °F – 158 °F *  |
| IP & IK rating  | IP67 & IK10   |
| Dimensions (without bracket)<br>length × width × height | 390 mm × 167 mm × 340 mm (15.4" × 6.6" × 13.4")   |
| Weight (without bracket)                                | 6.4 kg / 14.1 lbs   |
| In the box  | Camera with data cable, power cable, bracket, shield (equipped) and radar with bracket. |

### Radar

|                       |               |
|-----------------------|---------------|
| Measurement Principle | Doppler-Radar |
| Measurement Frequency | 24.165 GHz    |

### Optional accessories

I/O cables, FreewayCAM IR-LIGHT 3, Junction box

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

\*internal temperature / ambient temperature: max. 55 °C (131 °F)