Number plate recognition and speed detection
with SpeedCAM

Special smart camera with integrated speed measurement system

Quick and easy installation and setup process. SpeedCAM can be used worldwide due to the proven high performance OCR engine. The applied world leader CARMEN® license plate recognition technology covers over 200 countries.

Professional ANPR camera is included with embedded PC (Decatur SC100c) to achieve excellent quality images. Full processing - like time stamp - is done inside the unit. Images, license plate texts, time and vehicle speed are stored in a database within the SpeedCAM memory with easy access through a web-server.

This all in one "smart" device provides optimal images in various operating environments.

The built in software intelligence and hardware modules are based on 20 years of experience in the field of OCR and ANPR camera technology.

The integrated high-power IR illuminator lets the license plates clearly seen without any disturbance of the driver.

Special IR pass filter applied to avoid common problems like sunlight reflections and glare or exposure due to car headlights.

The integrated speed measurement device (Doppler Radar) can detect cars up to 250km/h.

Optimal operation result is achieved up to 20 meters depending on the specific environmental conditions. Heavy duty outdoor construction (IP67), designed for 24/7/365 usage.

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Technical specifications
of SpeedCAM

Specifications of the camera

ANPR camera
• Wide VGA digital infra camera
• Resolution: 752 X 480

Lens
• Varifocal motoric zoom and iris
• Effective range 3-20m
• IR pass filter included

High performing illumination
• High power IR leds - ideal for ANPR
• Strong sunlight/shadow correction
• SW adjustable intensity

Extras
• Auto focus & brightness control

Specifications of the radar

Measurement principle
• Doppler-Radar

Radar frequency
• 24.165 GHz, K-Band

Type of detection
• Movement, selectable uni- or bidirectional
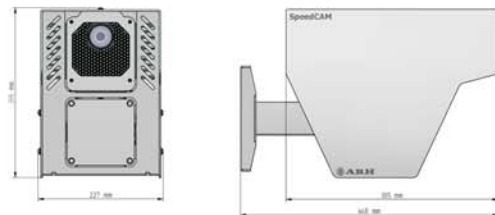
Installation angle
• For counting 45°
• For tracking < 11°

Installation height
• Over head: 5m typ.
• Lateral: 2m typ.

Operating modes
• Counting (signed) speed, profile, gap
• One value per vehicle

Specifications of the PC

CPU
• 1.6 GHz Intel Atom CPU 32 bit

Memory
• 2GB SSD memory
• At least 1GB free memory for user data

Network
• Gigabit ethernet card
• Web-server for smooth communication

Operating system
• Linux, Fedora 11 32 bit

Other specifications
Trigger
• Serial RS232 port, GPI port

Power consumption
• Isolated 24-28V AC
  or 30-36V DC input (50-60Hz)
• 18-48 W (28V AC)
  depending on heating ON/OFF
• Automatic internal heating with thermostat

Operation temperature
• -10°C - +50°C
• Extra heating: optional

IP class
• IP 67

Preliminary specification:
technical specifications are subject to change without prior notice