TRAFFIC MONITORING CAMERAS



## SMARTCAM anpr camera

## The smartest one amongst ANPR cameras.



What differentiates SmartCAM from other ANPR cameras is how it connects all ANPR-related functions – that are often missing in traffic cameras or have to be sourced by different vendors. Unlike those, this traffic monitoring camera offers an all-in-one solution for 3 functions: triggering, imaging and ANPR – all these in perfect collaboration, so system integrators get a complete ANPR solution that lets them build traffic systems in a straightforward way.

SmartCAM runs an integrated AI feature for detecting all approaching vehicles: as a result, there is no need for external triggers and the system has no missed events. The soul of this traffic camera is the Carmen recognition engine, the industry-praised ANPR solution – that is now part of the device.

Its smartness appears in the dual lens system as well, a clever imaging feature for enhancing ANPR results and providing a secondary overview footage too.



ACCESS

CONTROL

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Main benefits

- SmartCAM is a standalone traffic solution: ANPR running inside the camera
- Region specific engines to cover license plates worldwide
- Powerful processor and image preselection that guarantee fast operation
  Direct export of ANPR results to database
- Wide range of models from cost-efficient version to cutting-edge technology
- Modular design for optional radar and illumination add-ons
- Trouble-free remote access
- Vehicle make, model and color recognition more information helps better decisions

Adaptive Recognition America
 Adaptive Recognition Hungary

A A

Adaptive Recognition **Nordic** Adaptive Recognition **Singapore**  SENDINFO@ADAPTIVERECOGNITION.COM WWW.ADAPTIVERECOGNITION.COM

## SmartCam

## **Specifications**

• 2+4 core processor • on-board ANPR • reads reflective/non-reflective plates • overview lens • advanced vision lens • video-based vehicle detection trigger • checkpoint for average speed measurement systems • optional vehicle make, model and color recognition (MMR) • region-specific CARMEN ANPR engines

Production Code	SmartCAM HDx	SmartCAM HDx	SmartCAM HDx	SmartCAM FHD
		DUAL	DUAL PLUS	DUAL PLUS
	SmartCAM-03-6450	SmartCAM-03-6452	SmartCAM-03-6552 (850nm) SmartCAM-03-655A (760nm)	SmartCAM-03-4562
Distance range		1		
Optimal ANPR range at ambient light	4 m – 20 m / 13 ft – 65 ft			10 m – 20 m / 33 ft – 65 ft
Maximum ANPR range at optimal conditions	50 m / 164 ft			40 m / 130 ft
Imaging				
Resolution (H $\times$ V pixels): framerate	1440 × 1080: 30FPS 1280 × 720: 60FPS	Main sensor: 1440 × 1080: 30FPS 1280 × 720: 60FPS Second sensor: 1920 × 1080: 30FPS		Sensor1: 2048 × 1536: 20 fps 1920 × 1080: 30 fps Sensor2: 1280 × 960: 54 fps
Function of the second sensor	-	Overview		Advanced Vision
Day mode / night mode	Light se	ensor configurable auto-switching day/night mode, automatic brightnes		s control
High Dynamic Range mode (HDR)	-	Included (Sensor2)		-
Lens	11×, automatic, motorized lens	Main lens: 11×, automatic, motorized lens		Main lens: 3.3×, automatic, motorized lens
Illumination				
Wavelength	850 nm	(infrared)	760 nm or 850 nm (Infrared)	850 nm (Infrared)
Illumination modes		Synchronized flash or continuous		:
Processing & I/O CPU for ANPR	ARM Quad Core 4 × 1GHz Intel Atom Quad Core 4 × 1.9GHz			
Communication protocols	ARP, ICMP, TCP/IP, DHCP, NTP, FTP, HTTP, SMTP, RTP, SFTP, HTTPS			
4G / GPS	optional			
Electrical data				
Power requirement	24-28 V AC			
Power consumption typical	11 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) / MotDet / VehDet			
Mechanical data				
Operating temperature	-40 °C – 70 °C / -40 °F – 158 °F*			
IP & IK rating	IP67 & IK10			
Dimensions (without bracket) length × width × height	390 mm × 167 mm × 155 mm (15.4" × 6.6" × 6.1")			
Weight (without bracket)	4.6 kg / 10.1 lbs			
In the box		Camera with data cable, j	power cable, bracket, shield.	
Radar (Optional)		D1	or Dodor	
Measurement Principle Measurement Frequency	Doppler-Radar 24.165 GHz			
	<u>l</u>	24.1	0.0012	
Optional accessories				
I/O cables, FreewayCAM RAD-AR Trigger, F	reewayCAM IR-LIGHT 3, Junction be	ox		

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

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

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Adaptive Recognition **Nordic** Adaptive Recognition **Singapore**  SENDINFO@ADAPTIVERECOGNITION.COM WWW.ADAPTIVERECOGNITION.COM