

FREEWAYCAM

DIGITAL(IP) ANPR/LPR CAMERA
DESIGNED FOR NUMBER PLATE RECOGNITION



• NUMBER PLATE: ARH 001



MODULAR ANPR/LPR CAMERA MAKES THE MOST OUT OF EVERY ANPR SYSTEM

FreewayCAM is ARH's workhorse camera, purpose-built for ANPR. The camera has been designed to capture images of vehicles – even if they travel at high speed (up to 255 km/h or 158.5 mph) – with the purpose of recognizing the vehicle's license plate. FreewayCAM is optimized for the CARMEN® ANPR engine, the World's No. 1 plate recognition engine, also developed by ARH. The dual lens dual sensor design of FreewayCAM serves as part of an Advanced Vision technology, which, together with an image-based Vehicle Detection (VehDet) and the camera's built in parity flashing smart illumination, mean unparalleled plate recognition rates and exceptionally fast operation for any ANPR solution. The camera is encased in an IK10 & IP 67 vandal proof housing. Optional plug and play components such as FreewayCAM RAD-AR and illuminator are available to build your own system. We believe in what we create, that's why FreewayCAM is covered by an extended 3-year warranty.



TOLL
COLLECTION



CONGESTION
CHARGING



ACCESS
CONTROL



TRAFFIC
MONITORING



BORDER
CONTROL



PARKING
SYSTEMS

MAIN BENEFITS

- Unparalleled image capturing performance for LPR
- Glare-free / shadow-free image
- No lost events – thanks to the camera's integrated, image-based Vehicle Detection (VehDet) technology
- Auto-setup function
- IK-10 & IP 67

TOWARD THE FUTURE IN SAFETY – SINCE 1991

SPECIFICATIONS

FreewayCAM

- purpose-built LPR camera
- glare-free/shadow-free imaging
- image-based vehicle detection (VehDet)
- no lost event
- auto-setup

Production Code: **FREewayCAM FHD DUAL**

FreewayCAM-03-4362 (IR850)
FreewayCAM-03-436A (IR760)

DISTANCE RANGE

Optimal ANPR range at ambient light	10 m – 20 m / 33 ft – 65 ft
Maximum ANPR range at optimal conditions	40 m / 130 ft

IMAGING

Resolution (H x V pixels): framerate	Sensor1: 2048 x 1536: 20 fps, 1920 x 1080: 30 fps Sensor2: 1280 x 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

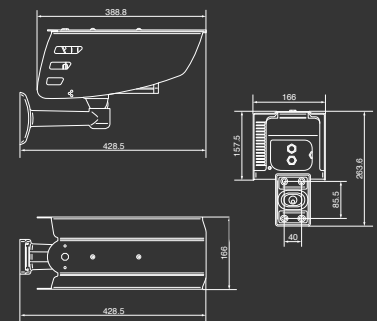
Wavelength	760 nm or 850 nm (Infrared)
Illumination modes	Synchronized flash or continuous

PROCESSING & I/O

CPU for ANPR	–
Communication protocols	ARP, ICMP, TCP/IP, DHCP, NTP, FTP, HTTP, SMTP, RTP
4G / GPS	Optional

ELECTRICAL DATA

Power requirement	24-28 V AC
Power consumption typical	17 W
Connectivity	Binder M12 circular: Ethernet (8 pin), Power (4 pin), User (8 pin), User (12 pin)



ON-BOARD INTELLIGENCE

CARMEN® ANPR	–
Video Analytics (Vehicle Detection, Motion Detection, Private Zones)	Included
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) length x width x height	390 mm x 167 mm x 155 mm (15.4" x 6.6" x 6.1")
Weight (without bracket)	4.6 kg / 10.1 lbs
In the box	Camera with data cable, power cable, bracket, shield (equipped).



RADAR (OPTIONAL)

Measurement Principle	Doppler-Radar
Measurement Frequency	24.165 GHz



OPTIONAL ACCESSORIES

IO cables, FreewayCAM RAD-AR Trigger, FreewayCAM IR-LIGHT 3, Junction box



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

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