

FreewayCAMRT

HARDWARE-TRIGGERED ANPR/LPR IP CAMERA DESIGNED FOR NUMBER PLATE RECOGNITION AND TRAFFIC MANAGEMENT



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ANPR/LPR CAMERA AND RADAR COMBO DEVELOPED FOR TRAFFIC SOLUTION

The radar-equipped FreewayCAMRT, as a hardware-triggered IP camera, is ideal for zone-targeted traffic surveillance and automatic number plate recognition (ANPR). It is uniquely designed and built for motion-activated identification and superbly functions under various environmental conditions where other cameras fail to provide similarly positive results.

The attached Doppler radar, which can be configured through the camera's IP connection, is able to measure not just the target vehicle's speed but also its moving direction, dimensions, and works specifically as a trigger toward the camera and its built-in processing unit (PU).





ENFORCEMENT MEASUREMENT





AND RED LIGHT

MAIN BENEFITS

- Onboard hardware trigger eliminates need for road-based infrastructure
- Optimized data processing greatly reduces resource demands
- Color or B&W image capturing of vehicles traveling up to 250 km/h (155 mph) in all environmental conditions
- Easy remote access and adjustment through IP connection
- Quick and easy installation, IP-based remote control
- Adjustable image compression to decrease network loads

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SPECIFICATIONS

FreewayCAM^{RT}

FreewayCAM^{RT} uses a Doppler radar trigger and IR illumination to achieve 24/7 accurate detection and precise ANPR/LPR. The built-in communication allows remote setting, but the device is also capable of automatically adjusting brightness control and time synchronization (NTP). The ONVIF compliant camera is IP67 rated for reliable operation. The captured images are internally buffered and processed for output as JPEG stills or MPEG/H.264 stream.

IMAGING

Resolution (H × V pixels)	1280 × 720
Sensor	Color, Progressive scan CCD 1/3"
Max Frame Rate (at all resolution)	30 frames/sec
Output Format	JPEG, MJPEG stream, H.264
Exposure Control	Global shutter, software adjustable 1/100 s – 1/30000 s
JPEG Quality	Adjustable between 40 % – 90 %
Day/Night Mode	Configurable day/night mode switching

 Operating Memory
 64 MB + 128MB

 Storage Memory
 256 MB

 Operating System
 ucLinux

Communication Interface RJ45, 100 Mbit/sec, Ethernet

CPU 500MHz DSP with image processing chip (X25)

Communication Protocol ARP, ICMP, TCP/IP, DHCP, NTP, FTP, HTTP, SMTP, RTP

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: None / IR cut above 850nm
Recommended ANPR Range	3 m – 20 m (10 feet – 65 feet)

ELECTRICAL DATA

Input Voltage	24 V – 28 V AC
Basic Power Consumption	22 W
Power Consumption With Heating	59 W
Conformity	CE, RoHS, FCC
I/O ports	Opto Out and serial RS232 reserved for radar
Junction Box	Optional

MECHANICAL DATA

Operating Temperature	-40 °C to 55 °C (-40 °F to 131 °F)
Additional Heating	Optional
Startup Temperature	Over -20 °C (-4 °F)
IP rating	IP67
Dimensions (L × W × H)	150 mm × 350 mm × 412 mm (5.91" × 13.79" × 16.22")
Weight (without bracket)	6.1 kg (13,5 lbs)
Weight (bracket)	0.6 kg (1.32 lbs)
Housing Material	Aluminum
Housing Color	RAL 9007 / Optional Custom
Shield Color	RAL 9007 / Optional Custom

ILLUMINATION

High power IR LED (optional white LED), regulated
850 nm (white LED: 435–750 nm)
8
3 preconfigured modes (low, medium, high)
Software adjustable, up to 950 µs
Optional

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	10° – 25° for official speed measurement
Operating mode	Counting (signed) speed









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