

FreewayCAM

ANPR/LPR camera designed for high-speed traffic applications



KEY FEATURES AND MAIN BENEFITS

- ✓ Hardware accelerated, built-in motion detection
- ✓ Auto day & night switch
- ✓ Automatic time synchronization (NTP)
- ✓ Adjustable image compression leads to low network load
- ✓ Still images and compressed live video streams (MJPEG)
- ✓ Powerful IR illumination with low power consumption
- ✓ Suitable for extreme operation environments: IP67 rating
- ✓ Options: megapixel resolution, color imaging and external illuminators

APPLICATION AREAS

- ✓ Tolling systems
- ✓ City congestion charging
- ✓ Journey time measurement
- ✓ All kinds of law enforcement applications
- ✓ Highway traffic surveillance

FREEWAY



Tolling Systems



Journey Time Measurement



Congestion charging



Access control



Airport and harbor logistics



Traffic security monitoring



Bus lane - and red light enforcement



Border Control

FreewayCAM datasheet

Digital camera for ITS traffic and access control systems

CAMERA

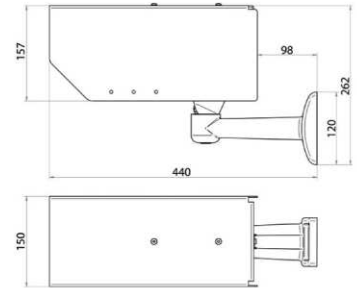
Resolution (H x V pixels)	WVGA 752 x 480	1.3 MP 1280 x 960	2 MP 1600 x 1200
Sensor	B&W or color, Progressive scan CMOS 1/3"	Color, Progressive scan CCD 1/3"	Color, Progressive scan CCD 1/2.7"
Max Frame Rate (at full resolution)	60 frames/sec	22.5 frames/sec	8 frames/sec
Filter	IR pass (from 720 nm)	IR cut/all pass	IR cut/all pass
Video output format	JPEG, MJPEG stream		
Exposure Control	Global shutter, software adjustable 1 / 25 - 1 / 40 000s		
Communication interface	100 Mbit/sec ethernet		
Communication protocol	TCP/IP, HTTP, FTP, NTP, ICMP, SMTP, DHCP, ARP		
JPEG quality	adjustable between 10-100%		
Light sensor	Included, configurable for switching day/night mode		
Internal Processor	Min. 400MHz DSP and image processing chip		
Internal memory	Min. 64MB DDR + 256 MB flash storage		

LENS

Lens type	6-36 mm position sensitive motorized optics
Iris, Focus, Zoom	Automatic motorized focus, iris, zoom
Effective range for ANPR	3 - 25 m / 10 - 82 feet

ILLUMINATION

Type	8 pieces of high quality SMD IR LEDs (white optional), controlled and synchronized flash
Wavelength	850 nm
Intensity	2 preconfigured modes (normal, high)
Flash time	Software adjustable, up to 950 µs



MECHANICAL/ELECTRONICAL

Input voltage	24 - 28 VAC or 30 - 36 VDC
Power consumption	Avg. 10 W, max. 15 W
Dimensions (L x W x H)	without sunshield : 185 mm x 125 mm x 145 mm including sunshield : 342 mm x 149 mm x 157 mm
Conformity	CE, RoHS
IP rating	IP 67
Housing Color	RAL 9007
Shield Color	RAL 9007
Startup temperature	Over -20 °C / -4 °F
Operating temperature	Starting from -25 °C / -13 °F
Maximum operating temperature	+55 °C / 130 °F
I/O ports	Opto in: isolated trigger in: 5 - 12 VDC Opto out: isolated open drain 5 - 24VDC, 20mA max Serial RS232/S
Weight	4.7 kg / 10.4 lbs (camera 3.1 kg / 6.8 lbs, sunshield 1 kg / 2.2lbs, bracket 0.6 kg / 1.3 lbs)
Power supply	Optional



SOFTWARE

Supported platform	Linux and Windows
Communication protocols	HTTP, FTP, SMTP
SDK	C, C++
Add-on features	Full remote control via web browser Configuration tool Auto brightness control designed for license plate recognition, Automatic day-night mode switch, Autofocus

BRACKET

Dimensions (L x W x H)	204 mm x 80 mm x 120 mm
Weight	0.6 kg / 1.3 lbs

* Technical specifications are subject to change without prior notice