

FreewayCam 2nd Generation - ANPR/LPR CAMERA

IMAGING	WVGA CAMERA	HD CAMERA	FHD CAMERA
Resolution (H x V pixels)	752 x 480	1280 x 720	1920 x 1080, 1920 x 1440
Sensor	B&W, Progressive scan CMOS 1/3"	Color, CCD 1/3"	Color, CCD 1/1.8"
Max Frame Rate (at all resolution)	60 frames / sec	30 frames / sec	30 frames / sec (1920 x 1080)
Output Format	JPEG, MJPEG stream	JPEG, MJPEG stream, H.264	
Exposure Control	Global shutter, software adjustable 1/100 s – 1/30000 s		
JPEG Quality	Adjustable between 40 % – 90 %	Adjustable between 10 % – 80 %	
Day/Night Mode	Configurable day/night mode switching		

LENS	WVGA CAMERA	HD CAMERA	FHD CAMERA
Lens Type	5.2 – 58.8 mm with high precision motorized positioning		15.0 – 50.0 mm with high precision motorized positioning
Iris; Focus	Automatic motorized, programmable		
Zoom	Automatic motorized, programmable		
Optical Filter	Fixed, IR pass above 720 nm	Switchable: All pass / IR cut above 850 nm	
Recommended ANPR Range	3 m – 20 m (10 ft – 65 ft)		

PROCESSING & I/O	WVGA CAMERA	HD CAMERA	FHD CAMERA
CPU	400 MHz DSP with image processing chip (X9)	500 MHz DSP with image processing chip (X25)	ARM Dual Core 2 x 766 Mhz
Operating Memory	64 MB	64 MB + 128 MB	1 GB + 256 MB
Storage Memory	256 MB		32 GB (SD only)
Operating System	ucLinux		32 bit Linux
Communication Protocol	ARP, ICMP, TCP/IP, DHCP, NTP, FTP, HTTP, SMTP, RTP		
Communication Interface	RJ45, 100 Mbit/sec, Ethernet		1 Gbit/sec, Ethernet

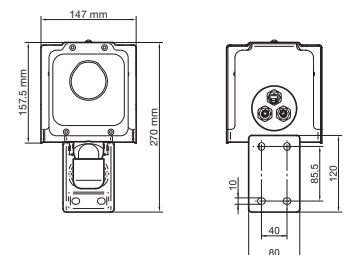
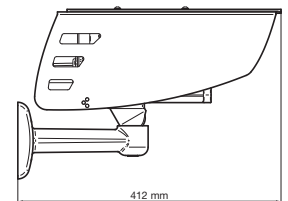
ELECTRICAL DATA	WVGA CAMERA	HD CAMERA	FHD CAMERA
Input Voltage	24 V – 28 V AC		
Basic Power Consumption	18 W	8 W	11 W – 17 W
Power Consumption With Heating	57 W	32 W	20 W
Conformity	CE, RoHS, FCC		
I/O ports	Opto Isolated In/Out, RS232		
Junction Box	Optional		

MECHANICAL DATA	WVGA CAMERA	HD CAMERA	FHD CAMERA
Operating Temperature	-40 °C – 55 °C (-40 °F – 131 °F)*	-40 °C – 70 °C (-40 °F – 158 °F)*	
Additional Heating	Optional		
Startup Temperature	Above -20 °C (-4 °F)	Above -40 °C (-40 °F)	
IP rating	IP67		
Dimensions (L x W x H)	415 mm x 150 mm x 270 mm (16.34" x 5.9" x 10.63")	412 mm x 147 mm x 270 mm (16.2" x 5.8" x 10.6")	424 mm x 156 mm x 270 mm (16.7" x 6.2" x 10.6")
Weight (without bracket)	4.7 kg (10.4 lbs)	4.3 kg (9.46 lbs)	4.8 kg (10.6 lbs)
Weight (bracket)	0.6 kg (1.32 lbs)		
Housing Material	Aluminum		
Housing Color / Shield Color	RAL 9007 / Optional Custom		

* internal temperature

ILLUMINATION	
Type	High power IR LED (optional white LED), regulated
IR Wavelength	850 nm (white LED: 435–750 nm)
Number of LEDs	8
Intensity	3 preconfigured modes (low, medium, high)
Flash Time	Software adjustable, up to 950 μs
Additional Illuminator	Optional

RADAR	
Radar	Optional
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



Technical specifications are subject to change without prior notice.

This document does not constitute an offer.

