

Dual Lens 180° IP Camera w/ PoE



Model: IP-180-4



Overview

The Viewtron IP-180-4 is a 180 degree security camera with dual 5 megapixel lens combined to make a single 180 IP camera (8mp resolution) with built-in AI software for advanced intrusion detection and alarm integration capability.

Features:

- **High resolution 180 Degree IP camera**

Two 5-megapixel camera lenses stitched together into a single 180-degree IP camera. Combined video resolution is 8-megapixel.

- **Single IP address. Plug and play setup with Viewtron NVRs**

One MAC address, one IP address, one housing, one bracket, one cable. Wire once, configure once and maintain one camera. The panoramic has built-in bracket that is good for indoor and outdoor installation. Connect single network cable (CAT5e / CAT6) to a power over Ethernet source device such as a Viewtron IP camera NVR.

- **Huge monitoring area with no vertical blind spot**

Two 3.5mm lenses with 5MP image sensors, provide a 180 degree view that is capable of monitoring very large areas. The built-in AI software can identify human faces (when mounted low enough), detect human objects, and detect vehicle objects. This 180 degree PoE camera has a 180° horizontal view and vertical 65° view which provides no blind spots. Two of these cameras with back to back installation can provide a full 360 degrees of video surveillance.

- **Full Color Surveillance / Spot Light Camera**

Two F1.1 large aperture lens provide a vivid, clear image in normal light and low light environments. In a pitch-black environment, the white light LEDs automatically turn on to illuminate the area. The white LEDs act as a spot light that automatically turns on. The smart-light algorithm can automatically adjust their brightness of the spot light according to light levels.

- **Built-in AI Software / Advanced Object Detection**

Built-in deep-learning AI software supports face recognition, human detection and vehicle detection. Alarm functions include line crossing detection, perimeter intrusion detection, loitering detection and crowd density tracking.

- **Built-in Audio Surveillance Mic and Speaker**

This IP camera has a built-in audio surveillance microphone and speaker for two-way audio communication. The built-in speaker can broadcast pre-defined warning messages when intrusion events are detected. The effective distance of human and vehicle detection is 30 meters.

- **Seamless Integration with Viewtron NVRs**

Plug and play setup with all Viewtron NVRs. Connects to a single PoE port on NVRs.

- **Rich Interfaces / Ports**

TF/Micro-SD Card, Alarm Input and alarm relay output ports for external burglar alarm sensor integrations.

- **180 Degree Outdoor Camera**

This IP camera has full metal housing that is IP67 weatherproof rated, IK10 vandal-proof, and 6KV lightning protection. This is the best 180 degree outdoor security camera.

- **NDAA Compliant Security Camera**

This IP camera is 100% NDAA compliant which means that it is not manufactured by any of the banned manufacturers by the US government.

Application:

CCTV Camera Pros supplies this 180-degree security camera for home, business, and government installation projects. This IP camera is suitable for indoor and outdoor installations. The suggested installation height of this camera is between 9 and 15 feet. Lower for facial recognition applications.

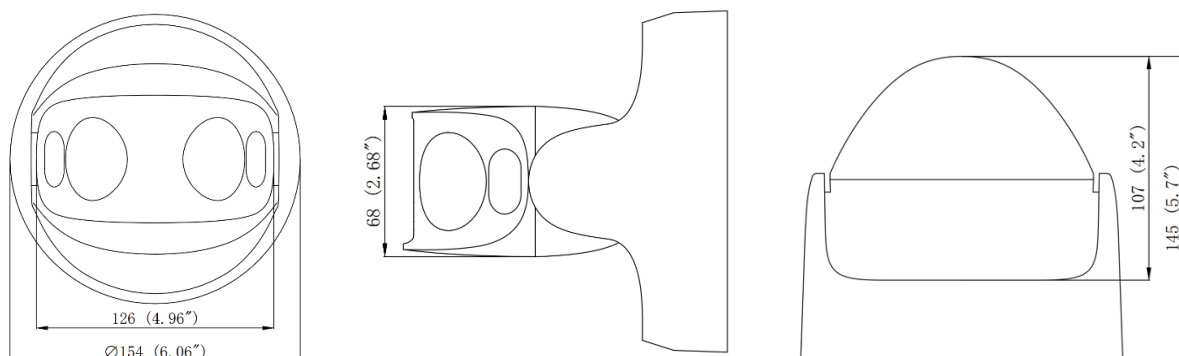
SPECIFICATION:

Camera Module					
Image sensor	1/2.5" progressive scan CMOS sensor, Dual image sensor				
Max resolution	4096x1800(stitching mode), 8mp resolution (7,372,800 effective)				
Mini. Illumination	Color : 0.005Lux @ (F1.1, IRE 50) ; B/W:0.0005 Lux@(F1.1, IRE 50); 0 Lux with white LED				
Image setting	Saturation, Brightness, Contrast, Sharpness, AGC, etc. adjusted by client				
Shutter Speed	50Hz: 1/25 s – 1/25,000 s; 60Hz: 1/30s-1/30,000s				
White Balance	Auto/Manual/Indoor/Outdoor				
Gain control	Auto/Manual				
Day & Night control	Auto/Manual, time schedule				
Iris control	Auto/Manual				
SNR	≥52dB				
3D DNR	Auto/Manual				
AE Enhancement	BLC, HLC, DWDR				
Digital zoom	8x				
Electrical Stabilizer	N/A				
Optical Defog	N/A				
Privacy Mask	Eight areas, up to eight masks in the same frame				
Picture overlay	Logo picture could be overlaid on video with 128x128pixels,24bits JPG format				
OSD overlay	max fifteen characters/line, eight lines, white or red font color				
Angle Adjustment	Vertical -5~+5°; Rotation ±75°				
Lens					
Focus Type	f=3.5mm, M12 mount, optical distortion <15%; x 2 sets.				
Aperture	Fixed, F1.11				
IRCUT type	Fixed, White light pass only				
DORI distance	Focus length	Detect(25px/m)	Observe(63px/m)	Recognize(125px/m)	Identify(250px/m)
	f=3.5mm	63.65m (295 ft.)	25.26m (117 ft.)	12.73m(39 ft.)	6.36m(29.5 ft.)
Panoramic					
Stitching FOV	Horizontal FOV:180°±5% ; Vertical FOV: 65°±5%				
Stitching Method	Alpha-Blending				
Working range	Best stitching mode working distance is from 1m to 10m. When out of this range, there may slight gaps.				
Supplement light					
Distance	Warm white light 20m (65.6 ft.)				
Smart Brightness	Yes, facial priority				
Video codec					
Mainstream	50Hz:(4096x1800, 3840x1680,2880x1264,1920x1080,1280x720) 20fps; 60Hz:(4096x1800, 3840x1680,2880x1264,1920x1080,1280x720) 20fps				
Sub stream	50Hz: (1280x720, 704x576, 640x240) 20fps; 60Hz: (1280x720, 704x480, 640x240) 20fps				
Third Stream	50Hz:(1280x720,704x576, 640x240, 480x240)25fps; 60Hz:(1280x720,704x480, 640x240, 480x240)30fps				
Video compression	Smart H.265+/H.265/H.264+/H.264/MJPEG				
H.264 Standard	H.264/AVC codec BP/MP/HP, Level 5.1				
H.265 Standard	H.265/HEVC codec MP, level 5.0				
Video Bit Rate	64 Kbps to 16Mbps				
Audio module					
Microphone	One built-in audio surveillance microphone, Omnidirectional ,2KΩ, -36dB@1KHz Sensitivity, THD 115dB SPL@1KHz				
Speaker	One built-in speaker, 4Ω, 2W Nom,750Hz LFR, 100dB@0.1m				
Predefined voice	Supports customized predefined voice messages or alarm sounds. Max 10 tracks.				
Audio codec					
Audio compression	G.711 A/U				
Audio Bit Rate	64K bps				
Network					
Protocols	HTTP, HTTPS, IPv4/IPv6, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, DHCP, PPPoE, P2P, SSL/TLS				
User / Host	Up to sixteen users, three levels: Administrator, Advanced User and Normal User				
Security Measures	User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption, IEEE802.1x port-based network access control; IP address filtering, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS, security audit log, TLS 1.2				
API	ONVIF G/S/T, Viewtron SDK and third-party management platform				

Client	Viewtron NVR 1.4.10, Viewtron VMS Software 2.0, iPhone App, Android mobile app
Web Browser	IE8-11 with plug-in; Edge, Chrome, Firefox with plug-in free
Events	
Basic event	Motion detection, video tampering alarm, alarm input, alarm output, exception (Network disconnected, IP address conflict, SD full, SD error)
Smart event	Line crossing detection, intrusion detection, region entrance detection, region exiting detection (ver5.1.1)
Alarm Linkage	Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card, Send Push Notification, Trigger External alarm devices
Deep learning function	
Face capture	Detecting multiple faces in the same scene. Outputting the best face snapshots by precise detecting, capturing and grading moving faces.
Face comparison	(Default off) Yes
Perimeter protection	Line crossing, Intrusion, Region entrance, Region exiting. Support alarm triggering by specified type.
Meta information	N/A
Road-traffic and vehicle detection	
Road traffic	Support vehicle detection and capture(ver5.1.1).
Road Statics	N/A
System Integration	
Alarm Interface	1 Alarm input (Dry contact); 1 Alarm relay output
Aux. audio interface	1ch LINE IN, 2.0-2.4Vpp, impedance 1KΩ; 1ch LINE OUT, impedance 600Ω
Network Interface	1 RJ45 10M/100M Adaptive Ethernet
SD Card Slot	One MicroSD slot and chamber, up to 256G
RS 485	N/A
Aux. video interface	N/A(BNC/CVBS/TVI)
Reset button	Yes
Heater & Fan	N/A
Frost removal	Desiccant, vacuuming
Water removal	Lotus anti-water lens cover coating
General	
languages	English; Czech; German; Hungarian; Italian; Japanese; Korean; Portuguese, Polish; Russian, Romanian, Spanish; Spanish (Mexico); Simplified Chinese; Turkish; Traditional Chinese, etc.
Power consumption	Avg. 4watt. Max 12watt. (speaker on+ white light on)
Power supply	DC12V±15% 1500mA. Or PoE (802.3.af, class 1), not same time
Working condition	Day: -40°C~55°C (-40°F ~ 131°F); Night: -40°C ~40°C; Cold start>=-30°C (1 hour waiting);90%RH
Storage condition	-40°C ~ 70°C; ≤ 95% RH
Housing Material	Main-body: Aluminum Alloy (ADC12); Lens Cover: Polycarbonate
Weight& Dimensions	Approx. 1.3 Kg (2.86 lb.), Ø154mm x 145mm (Ø 6.06-inch x 5.7 inch)
Approval	
EMC	FCC SDoC (47 CFR Part 15, Subpart B). CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013, EN 50130-4: 2011+A1: 2014). KC (KN 32:2015, KN 35: 2015)
Certification	CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014). CE-LVD (EN 62368-1:2014+A11:2017), BIS (IS 13252(Part 1):2010+A1:2013+A2:2015);
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
Protection	IP67(IEC 60529-2013), IK10 (IEC 62262:2002),6000V Lightning Protection, Surge Protection and Voltage Transient Protection

DVR / NVR Recommendation

Viewtron NVRs	CCTV Camera Pros highly recommends using a Viewtron NVR with this 180 IP camera. All of the AI software controls are integrated with Viewtron NVRs for maximum ease of system setup and management.
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Dimensions (mm / inches):

Accessories:

	Included		Optional	Optional	Optional
Name	Fast mounting adaptor		Wall-mounting bracket	Pole-mounting bracket	Corner mounting bracket
Figure					
Mounting					
	Optional	Optional	Optional	Optional	Optional
Name	AC/DC adaptor 12V2.5A	Pendant mounting bracket with junction box	Wall-mounting bracket With junction box	Pole-mounting bracket with junction box	Corner mounting bracket with junction box
Figure					
Mounting					

*** All pictures and texts are for reference only. Actual product may vary due to product enhancement.**

CCTV Camera Pros

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