

A solid red circle.

IPC305-2M-B Camera Data Sheet

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I Overview

Adopting a 2 megapixel progressive scan CMOS sensor with a motorized varifocal 2.7-13.5mm Lens, the network camera can provide a high-definition professional surveillance and security solution. With the IR range of up to 50m (164ft), the camera can also deliver clear video at night. Designed for indoor and outdoor environments, it is IP67 weatherproof, ideal for home, shop and other SMBs.

- Captures 2MP HD Video
- With IR Range, Night Vision Distance up to 50m (164ft)
- Smart H.265+ Reduces Bandwidth and Storage, While Preserving High Image Quality
- Water and Dust Resistant (IP67), Vandal Resistant (IK10)
- Focusing on Human Body Detection



I Key features

Plug and play PoE connection

With only a single ethernet cable to get powered and transmit video, PoE (Power over Ethernet) cameras allow you to DIY their positions anywhere you want. No need of a separate power adapter for power supply of each camera, simplifying installation and helping to keep costs low.

120dB True WDR

Cameras with True Wide Dynamic Range (True WDR) can produce images even under varying light conditions. It can also maintain proper image brightness, exposure and contrast to ensure good image clarity. WDR is measured in dB. A WDR of range (120dB) can capture greater scale of brightness.

3D DNR

Developed for shooting at night or in dimly lit places, 3D Digital Noise Reduction (DNR) decreases picture noise and reduces colourmixture errors. 3D DNR removes the grainy fuzzy appearances of low light images, will handle moving objects without leaving tails behind, and in low light, it makes an image clearer and sharper compared to no noise reduction or 2D DNR. 3D DNR is essential to producing a clear image from your security cameras.

Smart IR technology

Smart IR technology can detect the infrared (IR) wavelengths, enabling the cameras to see even in low light condition or in complete darkness, and providing protection day and night.

IP67 protection

IP67 rated housing protects the camera against rain and dust. Capable of withstanding temperatures from -30 ~ 60 ° C (-22~140° F), the cameras perform well even in demanding environments.

H.265 and smart encoding technology

Smart encoding technology can reduce storage costs without sacrificing resolution and frame rate. Under the same configuration, H.265 with smart encoding technology only costs one hard disk to store the same video record which needs four hard disks under H.264, saving 75% storage cost.

Multiple ways of management

The camera supports different ways of management. Free monitoring softwares and Apps are available to view, manage and record the camera through the connected NVR, computer or mobile phone.

Specifications

Table 1 shows the technical specification for FS IPC305-2M-B.

Table 1. Technical specification

Camera	
Sensor	1/2.8", 2.0 Megapixel, Progressive Scan, CMOS
Minimum Illumination	Colour: 0.001 lux (F1.2, AGC ON) 0 lux with IR on
Shutter	Auto/Manual, shutter time: 1 ~ 1/100000s
Adjustment Angle	Pan: 0° ~ 360° Tilt: 0° ~ 90° Rotate: 0° ~ 360°
Digital Noise Reduction	2D/3D DNR
Day/Night	IR-cut Filter with Auto Switch (ICR)
IR Range	Up to 30m (98ft) IR Range
S/N	>52dB
Defog	Digital Defog
WDR	120dB
Lens	
Lens type	2.7 ~ 13.5mm, AF automatic focusing and motorized zoom lens
Field of View (H)	107.4° ~ 29.2°
Field of View (V)	54.2° ~ 16.3°
Field of View (O)	111.0° ~ 33.1°
DORI	
DORI Distance (m)	Detect: 41.9-209.5, Observe: 16.8-83.8, Recognize: 8.4-41.9, Identify: 4.2-20.9
Audio	
Audio Compression	G.711
Suppression	Supported
Sampling Rate	8KHZ

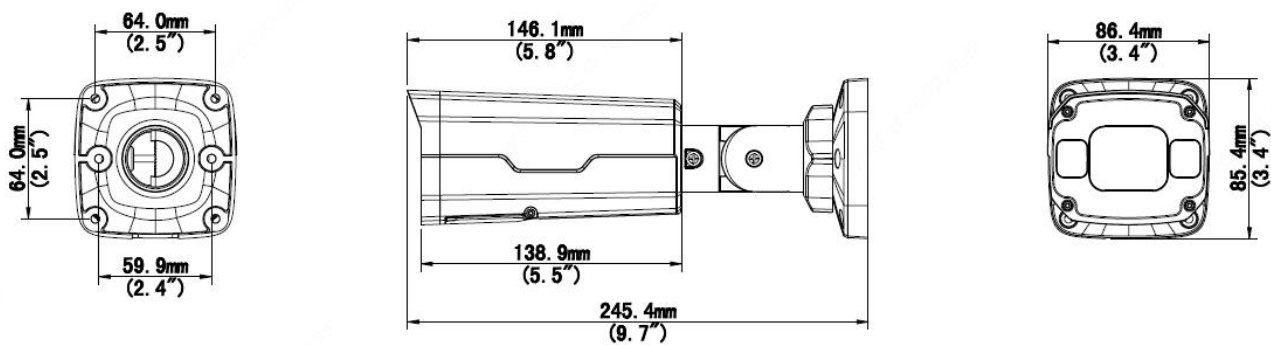
Audio Bitrate	64 Kbps
Two-way Audio	Supported
Video	
Video Compression	Ultra 265, H.265, H.264, MJPEG
H.264 Code Profile	Baseline profile, Main profile, High profile
Frame Rate	Main Stream: 2MP (1920x 1080), Max 30fps; 720P (1280x 720), Max 30fps; Sub Stream: 720P (1280x 720), Max 30fps; D1 (720x 576), Max 30fps; 640x 360,Max 30fps; Third Stream: D1 (720x 576), Max 30fps; 640x 360,Max 30fps; 2CIF(704x 288), Max 30fps; CIF(352x 288), Max 30fps;
Video Bit Rate	128 Kbps~16 Mbps
U-code	Supported
OSD	Up to 8 OSDs
Privacy Mask	Up to 4 Areas
ROI	Up to 8 Areas
Motion Detection	Up to 4 areas
Illuminator	
IR Range	Up to 50m (164ft) IR range
Wavelength	850nm
IR On/Off Control	Auto/Manual
Network	
Protocols	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, SSL, QoS, RTMP
Compliance	NDAA Section 889 Compliant
Interoperability	ONVIF® Profile G, ONVIF® Profile S, ONVIF® Profile T specification at onvif.org
User/Host	Up to 32 users. 2 user levels: administrator and common user
Security	Password protection, strong password, HTTPS encryption, Export operation logs, basic and digest authentication for RTSP, digest authentication for HTTP, TLS 1.2, digest authentication for ONVIF

Client	EZStation EZView EZLive
Web Browser	Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below; Plug-in free live view: Chrome 57.0+, Firefox 58.0+, Edge 16+;
Intelligent	
Smart Intrusion Prevention	Support false alarm filtering: Cross Line detection, Intrusion detection, Enter Area detection, Leave Area detection
Recognition	Face capture
Statistical Analysis	People counting, support people flow counting and crowd density monitoring
Events	
Basic Detection	Motion detection, tampering alarm, audio detection
General Function	Watermark, IP address filtering, alarm input, alarm output, access policy, ARP protection, RTSP authentication, user authentication
Interface	
Network	1x RJ45 10M/100M Base-TX Ethernet
Audio I/O	1 Input: impedance 35kΩ; amplitude 2V [p-p]; 1 Output: impedance 600Ω; amplitude 2V [p-p]
Alarm I/O	1/1
RS485	N/A

Built-in Mic	N/A
Built-in Speaker	N/A
WIFI	N/A
Video Output	N/A
Image	
White Balance	Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2
Digital Noise Reduction	2D/3D DNR
Smart IR	Supported
Flip	Normal/Vertical/Horizontal/180° /90° Clockwise/90° Anti-clockwise
Dewarping	N/A
HLC	Supported
BLC	Supported
Defog	Digital Defog
Intelligent	
Smart Intrusion Prevention	Support false alarm filtering: Cross Line detection, Intrusion detection, Enter Area detection, Leave Area detection
Recognition	Face capture
Statistical Analysis	People counting, support people flow counting and crowd density monitoring
Events	
Basic Detection	Motion detection, tampering alarm, audio detection
General Function	Watermark, IP address filtering, alarm input, alarm output, access policy, ARP protection, RTSP authentication, user authentication
Storage	
Edge Storage	Micro SD, up to 256GB
Network Storage	ANR, NAS(NFS)

General	
Power	DC 12V±25%, PoE (IEEE 802.3af)
Power Consumption	Max 8.5W
Power Interface	Ø 5.5mm coaxial power plug
Dimensions (HxWxD)	245.4x85.4x86.4mm (9.7"x3.4"x3.4")
Weight	0.92kg (2.03lb)
Working Environment	-30° C ~ 60° C (-22° F ~ 140° F)
Humidity	≤95% RH (Non-condensing)
Surge Protection	6KV
Ingress Protection	IP67, IK10
Material	Metal

Dimensions



Additional information

For more information about the IPC305-2M-B camera, contact your account manager or visit

<https://www.fs.com/products/170065.html>

Document history

New or revised topic	Described in	Date
Updates to FS IPC305-2M-B Camera Data Sheet	Updated all	3/16/2023



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