

A solid red circle.

IPC204-2M-PD Camera Data Sheet

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I Overview

Fixed camera and PTZ camera integration, dual channels with one IP. Adopting a 2 megapixel progressive scan CMOS sensor, the network camera can provide a high-definition professional surveillance and security solution. With the IR range of up to 10m (32.8 ft), the camera can also deliver clear video at night. Designed for indoor and outdoor environments, it is IP66 weatherproof, ideal for homes, supermarkets, office buildings, government, industrial parks, etc.

- Pan, Tilt and 4x Optical Zoom Provide Close Up Views over Expansive Areas
- Up to 120 dB Optical WDR (Wide Dynamic Range)
- Smart H.265 Reduces Bandwidth and Storage, While Preserving High Image Quality
- Water and Dust Resistant (IP66)
- Focusing on Human Body Detection
- With IR LEDs, Night Vision Distance Up to 10m (33ft)
- ONVIF® Profile G and S Conformant



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.

IP66 ingress protection

IP66 ingress protection completes protection against, contact with live or moving parts inside the enclosure and against the ingress of dust. Capable of withstanding temperatures from -20°C ~ 60°C (-4° F ~ 140° F), the cameras perform well even in demanding environments.

Smart behavior detection

With advanced video algorithm, cameras support smart behavior detections, such as linecrossing and area intrusion. Focusing on human body, smart behavior detections enjoy the reduction of false alarm, and send instant notifications when detecting intrusion targets.

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 IPC204-2M-PD.

Table 1. Technical specification

Camera	Panorama		Detail		
Sensor	1/2.8", 2MP, CMOS				
Minimum Illumination	Color: 0.002 lux (F1.6, AGC ON) 0 lux with IR		Color: 0.002 lux (F1.6, AGC ON) 0 lux with IR/Warm light		
Shutter	IR-cut filter with auto switch (ICR)				
Adjustment Angle	Auto/Manual, 1 ~ 1/100000s				
WDR	120dB		DWDR		
S/N	>52dB				
Lens					
Lens Type	2.8mm@F1.6		2.8~12mm@F1.6, AF automatic focusing and motorized zoom lens		
Optical Zoom	N/A		4X		
Iris	Fixed aperture				
Field of View (H)	102.4°		106.6° ~ 30.6°		
Field of View (V)	54.9°		56.5° ~ 17.4°		
Field of View (D)	133.1°		138.6° ~ 37.6°		
DORI					
DORI Distance (m)	Lens (mm)	Detect (m)	Observe (m)	Recognize (m)	Identify (m)
	2.8 (Panorama)	43.4 (142.5ft)	17.4 (57.0ft)	8.7 (28.5ft)	4.3 (14.3ft)
	2.8 (Detail)	43.4 (142.5ft)	17.4 (57.0ft)	8.7 (28.5ft)	4.3 (14.3ft)
	12 (Detail)	162.9 (534.6ft)	65.2 (213.8ft)	32.6 (106.9ft)	16.3 (53.5ft)
Illuminator					
IR Range	Up to 10m (33ft)		Up to 50m (164.0 ft)		

Warm Light Range	N/A	Up to 10m (32.8 ft)
Wavelength	850nm (IR)	
Light On/Off Control	Auto/Manual	
Video		
Video Compression	H.265+, H.265, H.264, MJPEG	
Frame Rate	Main Stream: 1080P (1920*1080),Max 25fps Sub Stream: 720P (1280*720), Max 25fps	
Video Bit Rate	128 Kbps~16 Mbps	
U-code	Support (Main stream)	
ROI	Up to 8 areas	
Video Stream	Dual streams	
OSD	Up to 4 OSDs	
Privacy Mask	24 areas, up to 4 areas per scene	
Image		
White Balance	Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2	
Digital Noise Reduction	2D/3D DNR	
Smart IR	Support	
Flip	Normal/Flip Vertical/Flip Horizontal/180°	
HLC	Support	
BLC	Support	
Defog	Digital Defog	
Intelligent		
Smart Intrusion Prevention	Support false alarm filtering: Cross line detection, Intrusion detection, Enter area detection, Leave area detection	
Linkage Function	Support, Triggered by fixed lens via smart intrusion prevention function to track target	
Events		
Basic Detection	Audio detection	

General Function Watermark, IP Address Filtering, Access Policy, ARP Protection, RTSP Authentication, User Authentication

Audio

Audio Compression G.711U, G.711A

Audio Bitrate 64 Kbps

Two-way Audio Support

Suppression Support

Sampling Rate 8 kHz

Storage

Edge Storage Micro SD, up to 256 GB

Network Storage ANR, NAS (NFS)

Network

Protocols IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS, RTMP, SSL/TLS

Interoperability ONVIF® Profile G, ONVIF® Profile S specification at onvif.org, API, SDK

Compliance NDAA Section 889 compliant

User/Host Up to 32 users. 3 user levels: administrator, operator 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, WSSE and digest authentication for ONVIF

Client FS Camera Station (PC)
FS Protect Mobile (app)

Web Browser Plug-in required live view: IE 10 and above, Chrome 45 and above, Firefox 52 and above, Edge 79 and above

Pan & Tilt

Pan Range N/A 0° ~ 345°

Pan Speed N/A 1° /s ~ 40° /s
Preset speed: N/A Preset speed: 40° /s

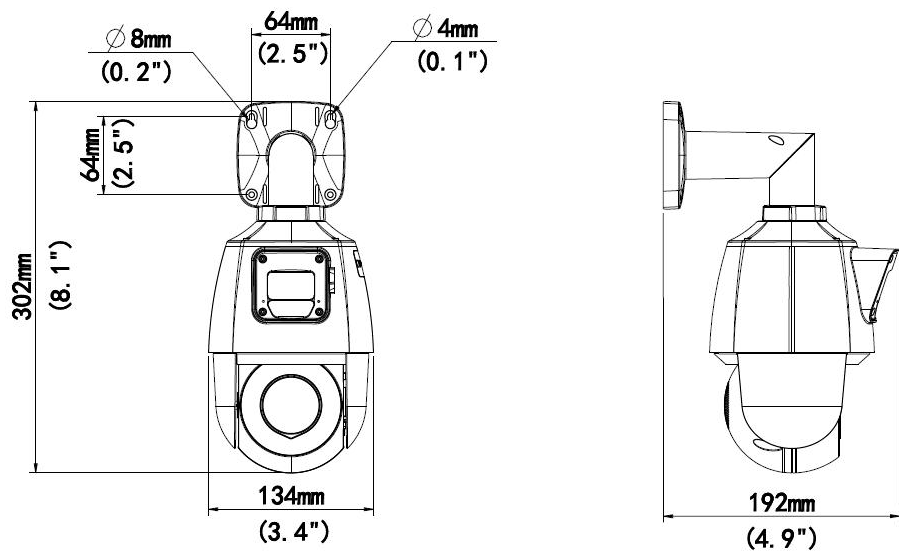
Tilt Range 18° ± 5° -10° ~ 100°

Tilt Speed N/A 1° /s ~ 50° /s
Preset speed: N/A Preset speed: 50° /s

Number of Presets	256
Preset Patrol	16 patrol routes, up to 64 presets for each route
Patrol Stay Time	1000s~1800s
Preset Image Freeze	N/A
Home Position	Support
Interface	
Audio I/O	N/A
Alarm I/O	N/A
Serial Port	N/A
Built-in Mic	Support (Mic*2)
Built-in Speaker	Support
Wi-Fi	N/A
Network	1 * RJ45 10M/100M Base-TX Ethernet
Video Output	N/A
General	
Power	DC12V, PoE+(IEEE 802.3at) Power consumption: MAX 16W
Power Interface	Ø 5.5mm coaxial power plug
Dimensions (Ø x H)	Wall Mount: Φ134 x 192 x 302mm (Φ5.3" x 7.6" x 11.9") Ceiling Mount: Φ134 x 154 x 363mm (Φ5.3" x 6.1" x 14.3")
Weight	1.03kg (2.27lb)
Operating Conditions	-20°C ~ 60°C (-4° F ~ 140° F), Humidity: ≤95% RH (non-condensing)
Storage Environment	-30°C ~ 70°C (-22° F ~ 158° F), Humidity: ≤95% RH (non-condensing)
Surge Protection	2KV
Reset Button	Support

*ONVIF is a trademark of ONVIF, Inc.

Dimensions



Additional information

For more information about the IPC204-2M-PD camera, contact your account manager or visit <https://www.fs.com/products/161215.html>

Document history

New or revised topic	Described in	Date
Updates to FS IPC204-2M-PD Camera Data Sheet	Updated all	03/13/2023



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