

A solid red circle.

IPC425-4M-P Camera Data Sheet

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I Overview

Adopting a 4 megapixel progressive scan CMOS sensor with a 4.8-120mm motorized varifocal lens, the network camera can provide a high-definition professional surveillance and security solution. With the IR range of up to 100m (328ft), the camera can also deliver clear video at night. Designed for indoor and outdoor environments, it is IP67 weatherproof, ideal for houses, enterprises, banks, governments and other applications.

- Pan, Tilt and 25x Optical Zoom Provide Close Up Views over Expansive Areas
- Captures 4MP Super HD Video
- With IR LEDs, Night Vision Distance Up to 100m (328ft)
- True Wide Dynamic Range (120 dB) Can Capture Greater Scale of Brightness
- H.265 Compression Code Can Save 75% Disk Space
- ONVIF® Profile G, M, S and T 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.

IP67 ingress protection

IP67 rated housing protects the camera against rain and dust. Capable of withstanding temperatures from -40° F to 158° F (-40° C to 70° C), the cameras perform well even in demanding environments.

Smart behavior detection

With advanced video algorithm, cameras support smart behavior detections, such as motion detection, line-crossing 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 IPC425-4M-P.

Table 1. Technical specification

Camera					
Sensor	1/2.8" Progressive Scan CMOS				
Max.Resolution	2688x1520				
Minimum Illumination	Color: 0.003Lux (F1.5, AGC ON); 0Lux with IR				
Shutter Speed	Auto/Manual, 1- 1/100000s				
S/N	>56dB				
Lens					
Lens Type	4.8 ~ 120mm, AF automatic focusing and motorized zoom lens				
Digital Zoom	16				
Optical Zoom	25				
Iris	Auto; F1.5 ~ F3.8				
Field of View (H)	52.2° -2.74°				
Field of View (V)	30.81° -1.54°				
Field of View (D)	64.2° -3.23°				
DORI					
	Lens (mm)	Detect (m)	Observe (m)	Recognize (m)	Identify (m)
DORI Distance	4.8	119.3 (391.2ft)	47.7 (156.5ft)	23.9 (78.2ft)	11. 9 (39.1ft)
	120	2475.0 (8120.1ft)	990.0 (3248.0ft)	495.0 (1624.0ft)	247.5 (812.0ft)
Illuminator					
Day/Night	Support				
IR-cut Filter	Support				
LED On/Off Control	Auto/Manual				

IR Range	100m (328ft)
Wavelength	850nm
Video	
Video Compression	H.265+, H.265, H.264, MJPEG
H.264 Code Profile	Baseline Profile, Main Profile, High Profile
Video Frame Rat	Main Stream: 4MP (2688x1520), Max.30fps; Sub Stream: 1080P (1920x1080), Max.30fps; Third Stream: D1 (720x576), Max 30fps;
Video Bit Rate	128 Kbps to 16 Mbps
On-Screen Display (OSD)	Up to 8 OSDs
Privacy Mask	24 Areas, up to 4 Areas Per Scene
Region of Interest (ROI)	Support
Image	
Wide Dynamic Range (WDR)	120dB
White Balance	Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2
Digital Noise Reduction	2D/3D DNR
Flip	Normal/Vertical/Horizontal/180° /90° Clockwise/90° Anti-clockwise
HLC	Support
BLC	Support
Digital Defog	Support
Intelligent	
Behavior Detection	False Alarm Filtering: Cross Line Detection, Intrusion Detection, Enter Area Detection, Leave Area Detection; Basic Detection: Motion Detection, Tampering Alarm, Audio Detection
Face Capture	Support
People Counting	Support
Auto Tracking	Support
General Function	Watermark, IP address filtering, access policy, ARP protection, RTSP authentication, user authentication

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 M, ONVIF® Profile S, ONVIF® Profile T specification at onvif.org , API, SDK
Compliance	NDAA Section 889 compliant
Client	Guard Station Guard Viewer
Web Browser	Plug-in Required Live View: IE9+, Chrome 41 and below, Firefox 52 and below

Audio

Audio Compression	G.711U, G.711A
Suppression	Support
Two-way Audio	Support
Audio Sampling Rate	8KHZ
Audio Bitrate	64Kbps

Storage

Edge Storage	Micro SD, up to 256GB
Network Storage	ANR, NAS (NFS)

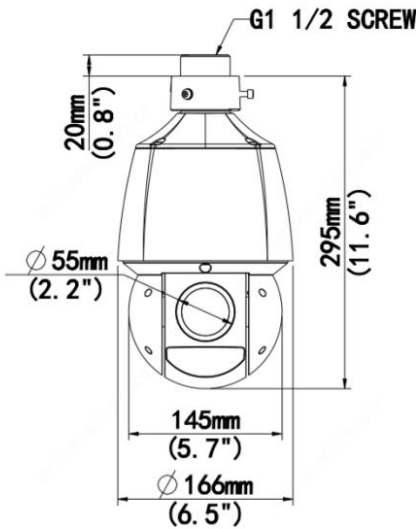
PTZ

Pan Range	360° (endless)
Pan Speed	0.1° /s - 200° /s Preset Speed: 240° /s
Tilt Range	-15° - 90° (auto reverse)
Tilt Speed	0.1° /s- 120° /s Preset Speed: 200° /s
Number of Presets	1024
Patrol	Preset Patrol, Route Patrol, Recorded Patrol
Patrol Stay Time	15s- 1800s

Preset Image Freeze	Support
Home Position	Support
Interface	
Network	10/100M Base-TX Ethernet
Reset Button	Support
External Audio I/O	Support
External Alarm I/O	Support
Serial Port	1x RS485
Video Output	1x BNC
General	
Power	DC 12V±25%, PoE (IEEE 802.3af)
Dimension (Ø x H)	Ø166 x 295mm (Ø6.5 " x 11.6 ")
Net Weight	6.72lb (3.05kg)
Operating Temperature	-40° F to 158° F (-40° C to 70° C)
Storage Temperature	-40° F to 158° F (-40° C to 70° C)
Operating Humidity	≤95% RH (Non-condensing)
Storage Humidity	≤95% RH (Non-condensing)
Surge Protection	6KV
Ingress Protection	IP67, IK10
Warranty	2 Years
Material	Plastic+Metal
Reset Button	Support

*ONVIF is a trademark of ONVIF, Inc.

Dimensions



Additional information

For more information about the IPC425-4M-P camera, contact your account manager or visit <https://www.fs.com/products/138717.html>

Document history

New or revised topic	Described in	Date
Updates to FS IPC425-4M-P Camera Data Sheet	Updated all	03/13/2023



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