

A solid red circle.

IPC425-8M-P Camera Data Sheet

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I Overview

Adopting a 8 megapixel progressive scan CMOS sensor with a 6-150mm motorized varifocal lens, the network camera can provide a high-definition professional surveillance and security solution. With the IR range of up to 150m(492.1 ft), the camera can also deliver clear video at night. Designed for indoor and outdoor environments, it is IP66 weatherproof, ideal for houses, enterprises, banks, governments and other applications.

- Pan, Tilt and 25x Optical Zoom Provide Close Up Views over Expansive Areas
- Captures 8MP Full HD Video
- With IR LEDs, Night Vision Distance Up to 200m (656 ft) IR distance
- Smart H.265+ Reduces Bandwidth and Storage, While Preserving High Image Quality
- Water and Dust Resistant (IP66)
- People Counting, Support People Flow Counting and Crowd Density Monitoring
- 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.

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 -40°C ~ 70°C (-40°F ~ 158°F), the cameras perform well even in demanding environments.

Smart behavior detection

With advanced video algorithm, cameras support smart behavior detections, such as line-crossing, intrusion, enter area, leave area. 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 IPC425-8M-P.

Table 1. Technical specification

Camera	
Sensor	1/1.8", 8.0 megapixel, progressive scan, CMOS
Min. Illumination	Colour:0.003 Lux (F1.5, AGC ON) 0 Lux with IR
Day/Night	IR-cut filter with auto switch (ICR)
Shutter	Auto/Manual, 1 ~ 1/100000s
WDR	Digital wide dynamic
S/N	>56dB

Lens					
Lens		6.0 ~ 150.0mm, AF automatic focusing and motorized zoom lens			
Digital Zoom		16			
Optical Zoom		25			
Iris		Auto; F1.5 ~ F3.4			
Field of View (H)		60.5° ~ 3.1°			
Field of View (V)		36.3° ~ 1.8°			
Field of View (D)		74.3° ~ 3.7°			
DORI					
	Lens (mm)	Detect (m)	Observe (m)	Recognize (m)	Identify (m)
DORI Distance	6.0	143.1 (469.5ft)	57.2 (187.8ft)	28.6 (93.9ft)	14.3 (46.9ft)
	150.0	3116.3 (10223.9ft)	1246.5 (4089.6ft)	623.3 (2044.8ft)	311.6 (1022.4ft)
Illuminator					
Vari-focal Laser		Up to 200m (656ft)			
Wavelength		850nm			
IR On/Off Control		Auto/Manual			
Video					
Video Compression		H.265+, H.265, H.264, MJPEG			
Frame Rate		Main Stream: 8MP(3840*2160),Max 30fps(Max 20fps when AI functions enabled); Sub Stream: 2MP (1920*1080), Max 30fps; Third Stream: D1 (720*576), Max 30fps.			
Video Bit Rate		128 Kbps~16 Mbps			
U-code		Support			
ROI		Up to 8 areas			
Video stream		Triple streams			
OSD		Up to 8 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
Digital Defog	Support
Intelligent	
Smart Intrusion Prevention	Support false alarm filtering: Line crossing detection, Intrusion detection, Region entrance detection, Region exit detection
Face Capture	Support
People Counting	Support people flow counting and crowd density monitoring
Events	
Basic Detection	Motion detection, Audio detection, Tampering Alarm
Auto Tracking	Support
General Function	Watermark, IP Address Filtering, Alarm input, Alarm output, Access Policy, ARP Protection, RTSP Authentication, User Authentication
Audio	
Audio Compression	G.711U, G.711A
Audio Bitrate	64Kbps
Two-way Audio	Support
Suppression	Support
Sampling Rate	8 kHz
Storage	

Edge Storage	Micro SD, up to 256GB
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 M, ONVIF® Profile S, ONVIF® Profile T specification at onvif.org , API, SDK
Compliance	NDAA Section 889 compliant
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, WSSE and digest authentication for ONVIF
Client	FS Camera Station, FS Management Tool, FS Protect Mobile
Web Browser	Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below
PTZ	
Pan Range	360° (endless)
Pan Speed	0.1° /s - 200° /s Preset Speed: 300° /s
Tilt Range	-15° - 90° (auto reverse)
Tilt Speed	0.1° /s- 120° /s Preset Speed: 240° /s
Number of Presets	1024
Preset Patrol	16 patrols, up to 64 presets for each patrol
Route Patrol	16 patrols, up to 32 actions for each patrol
Recorded Patrol	16 patrols, up to 128 actions for each patrol
Patrol Stay Time	15s- 1800s
Preset Image Freeze	Support
Home Position	Support
Interface	
Network	1 * RJ45 10M/100M Base-TX Ethernet

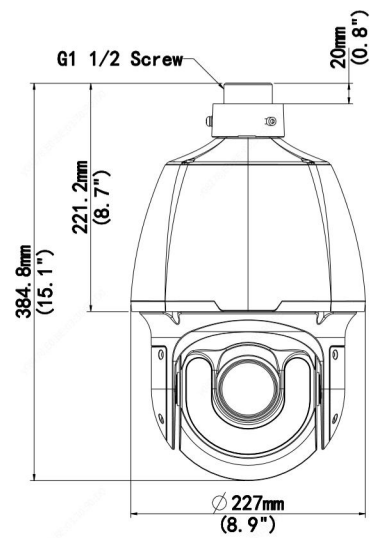
Audio I/O	1/1
Alarm I/O	2/1
Serial Port	1 RS485
Built-in Mic	N/A
Built-in Speaker	N/A
WIFI	N/A
Video Output	1 BNC, impedance 75Ω; amplitude 1V [p-p]

General

Power	AC 24V±25%, DC 24V±25%, PoE (PSE Required) Power consumption: Max 58W
Power Interface	Wires with cold-pressed terminal
Dimensions (Ø x H)	Ø227 x 384.8mm (Ø8.9" x 15.1")
Weight	5.61kg(12.36lb)
Working Environment	-40°C~70°C(-40° F ~ 158° F) , Humidity: ≤95% RH (non-condensing)
Storage Environment	-40°C~70°C(-40° F ~ 158° F) , Humidity: ≤95% RH (non-condensing)
Surge Protection	6KV
Reset Button	Support
Protection	Ingress Protection: IP66 Vandal Resistant: N/A
Material	Plastic+Metal

*ONVIF is a trademark of ONVIF, Inc.

Dimensions



Additional information

For more information about the IPC425-8M-P camera, contact your account manager or visit <https://www.fs.com/products/154788.html>

Document history

New or revised topic	Described in	Date
Updates to FS IPC425-8M-P Camera Data Sheet	Updated all	03/13/2023



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