

A solid red circle.

IPC701-12M-F Camera Data Sheet

Contents

Overview	3
Key features	3
Specifications	4
Dimensions	8
Additional information	8
Document history	8

Overview

Adopting a 12 megapixel progressive scan CMOS sensor with a 1.8mm fixed lens, the network camera can provide a high-definition professional surveillance and security solution. With the IR range of up to 15m (49ft), 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.

- 360° Panoramic Coverage with No Blind Spots
- Captures 12MP Ultra HD Video
- With IR LEDs, Night Vision Distance Up to 15m (49ft)
- Smart Ultra265 Reduces Bandwidth and Storage, While Preserving High Image Quality
- Water and Dust Resistant (IP67)



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.

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 -30° C ~ 60° C (-22° F ~ 140° F), the cameras perform well even in demanding environments.

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 behavior detection

With advanced video algorithm, cameras support smart behavior detections, such as 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 IPC701-12M-F.

Table 1. Technical specification

Camera	
Sensor	1/1.7", 12.0 megapixel, progressive scan, CMOS
Minimum Illumination	Colour: 0.03Lux (F2.0, AGC ON) 0Lux with IR
Day / Night	IR-cut filter with auto switch (ICR)
Shutter	Auto/Manual, 1 ~ 1/100000s
WDR	DWDR
S/N	>56dB

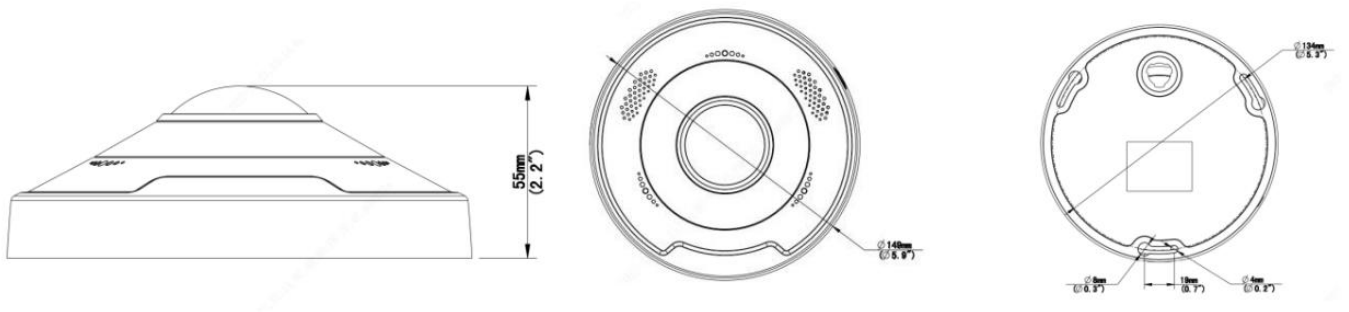
Lens					
Lens Type	1.8mm@F2.0				
Field of View	360°				
DORI					
DORI Distance	Lens (mm)	Detect (m)	Observe (m)	Recognize (m)	Identify (m)
	1.8	43.8	17.5	8.8	4.4
Illuminator					
IR Range	Up to 15m (49ft) IR range				
Wavelength	850nm				
LED On/Off Control	Auto/Manual				
Video					
Video Compression	Ultra265, H.265, H.264, MJPEG				
H.264 Code Profile	Baseline profile, Main Profile, High Profile				
Main Stream	Fisheye View: 12MP(4000*3000)@20fps; 3000*3000@20fps; 2560*2560@25fps Panorama View: 12MP(4000*3000)@20fps; 3000*2000@20/25fps; 3000*1500@20/25fps PTZ View: 1920*1080@20/25fps				
Sub Stream	Fisheye View: 2000*1500@20fps;2000*2000@25fps				
Third Stream	Fisheye View: D1(720*576)@20/25fps; CIF352*288)@20/25fps				
Frame Rate PTZ	1920*1080@25fps				
Video Bit Rate	128 Kbps~16 Mbps				
U-code	Support				
OSD	Up to 8 OSDs				
Privacy Mask	Up to 4 areas				
ROI	Up to 8 areas				
Video stream	Triple streams				

Live View Display	
Mount Type	Support table, wall and ceiling
Hardware Decoding	Ceiling mount: fisheye view, fisheye + 4PTZ, horizontal panorama view、vertical panorama view Table mount: fisheye view, fisheye + 4PTZ, , horizontal panorama view、vertical panorama view Wall mount: fisheye view, fisheye + 4PTZ, panorama view
Software Decoding	Ceiling mount: fisheye view, 360° panorama + 1PTZ, 180° panorama view, fisheye+ 3PTZ, fisheye+4PTZ, fisheye+8PTZ, 360° panorama + 6PTZ Table mount: fisheye view, 360° panorama + 1PTZ, 180° panorama view, fisheye+ 3PTZ, fisheye+4PTZ, fisheye+8PTZ,360° panorama + 6PTZ Wall mount: fisheye view, 180° panorama view, 180° panorama view+3PTZ, 180° panorama view+4PTZ, 180° panorama view+8PTZ
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°
Dewarping	N/A
HLC	N/A
BLC	Support
Defog	Digital Defog
Intelligent	
Smart Intrusion Prevention	Cross Line detection, Intrusion detection
Statistical Analysis	Heat map (Working with management platform)
Events	
Basic Detection	Motion detection, Audio detection, Tampering alarm
General Function	Watermark, IP Address Filtering, Tampering Alarm, Alarm input, Alarm output, 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	8KHZ
Storage	
Edge Storage	Micro SD, up to 256 GB
Network Storage	ANR, NAS (NFS)
Network	
Protocols	IPv4, IPv6, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS
Compliance	NDAA Section 889 compliant
User/Host	Up to 32 users. 3 user levels: administrator, common user and operator
Client	EZStation EZView EZLive
Web Browser	Plug-in required live view: IE 10 and above, Chrome 45 and above, Firefox 52 and above, Edge 79 and above
Interface	
Audio I/O	Input: impedance 35k Ω ; amplitude 2V [p-p] Output: impedance 600 Ω ; amplitude 2V [p-p]
Alarm I/O	2/1 Multiple Alarm linkage editable
Built-in Mic	Two Mics
Built-in Speaker	Support
Serial	1 channel RS485 interface
Network	1 RJ45 10M/100M Base-TX Auto-adaptive Ethernet
Video Output	1 BNC, impedance 75 Ω ; amplitude 1V [p-p]
General	
Power	DC 12V $\pm$ 25%, PoE (IEEE 802.3af) Power consumption: Max 12W

Dimensions (Ø x H)	Φ149 x 55mm (Φ5.9" x 2.2")
Weight	524g
Material	Metal + Plastic
Working Environment	-30° C ~ 60° C (-22° F ~ 140° F), Humidity: ≤95% RH
Storage Environment	-30° C ~ 60° C (-22° F ~ 140° F), Humidity: ≤95% RH
Surge Protection	4kv
Reset Button	Support

Dimensions



Additional information

For more information about the IPC701-12M-F camera, contact your account manager or visit <https://www.fs.com/products/174112.html>

Document history

New or revised topic	Described in	Date
Updates to FS IPC701-12M-F Camera Data Sheet	Updated all	03/13/2023



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