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IPC701-4M-B Camera Data Sheet

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Overview

Adopting a 4 megapixel progressive scan CMOS sensor with a 4.0mm fixed 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.

- Human Body Temperature Screening and Abnormal Temperature Alarm
- Captures 4MP Super HD Video
- With IR LEDs, Night Vision Distance Up to 50m (164ft)
- Thermal & Optical Dual-spectrum Image to Adapt More Various Scenes
- True Wide Dynamic Range (120dB) Can Capture Greater Scale of Brightness
- Support Reliable Fire Detection, Smoking Detection and Fire Shield Area



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 -10 to 50° C (-14 to 122° F), 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 IPC701-4M-B.

Table 1. Technical specification

Thermal Module					
Sensor type		Vanadium Oxide Uncooled Focal Plane Arrays			
Original Resolution		256*192			
Field of View (H*V)		57.0° ~42.0°			
Video Resolution		720P (1280*720), Max 30fps			
Response Waveband		8~14μm			
Pixel Size		12μm			
IFOV		3.75mrad			
NETD		≤55mk @f/1.0 @25° C			
Lens (focal length)		3.2mm@F1.1			
Palette		Up to 20 palettes of optional color, including: white hot, lava, iron oxide red, hot iron, medical, arctic, rainbow 1, rainbow 2, rainbow 3, depict hot, ice hot, black hot, mazarine, fusion, red hot, green hot, color 1, color 2, rain, puce			
Detection Distance		Vehicle: 316m (target size 4mx1.4m); human: 126m (target size 1.8mx0.5m);			
Recognition Distance		Vehicle: 79m (target size: 4mx1.4m); human: 32m (target size: 1.8mx0.5m);			
Identification Distance		Vehicle: 45m (target size: 4mx1.4m); human: 18m (target size: 1.8mx0.5m);			
Optical Module					
Sensor		1/1.8", 4.0 megapixel, progressive scan, CMOS			
Lens		4mm@F1.6			
Iris		Fixed aperture			
DORI Distance	Lens (mm)	Detect (m)	Observe (m)	Recognize (m)	Identify (m)
	4	62.1 (203.6ft)	24.8 (81.5ft)	12.4 (40.7ft)	6.2 (20.4ft)
Field of View (H*V)		89.9° ~49.1°			
Video Resolution		4MP (2688*1520), Max 30fps			

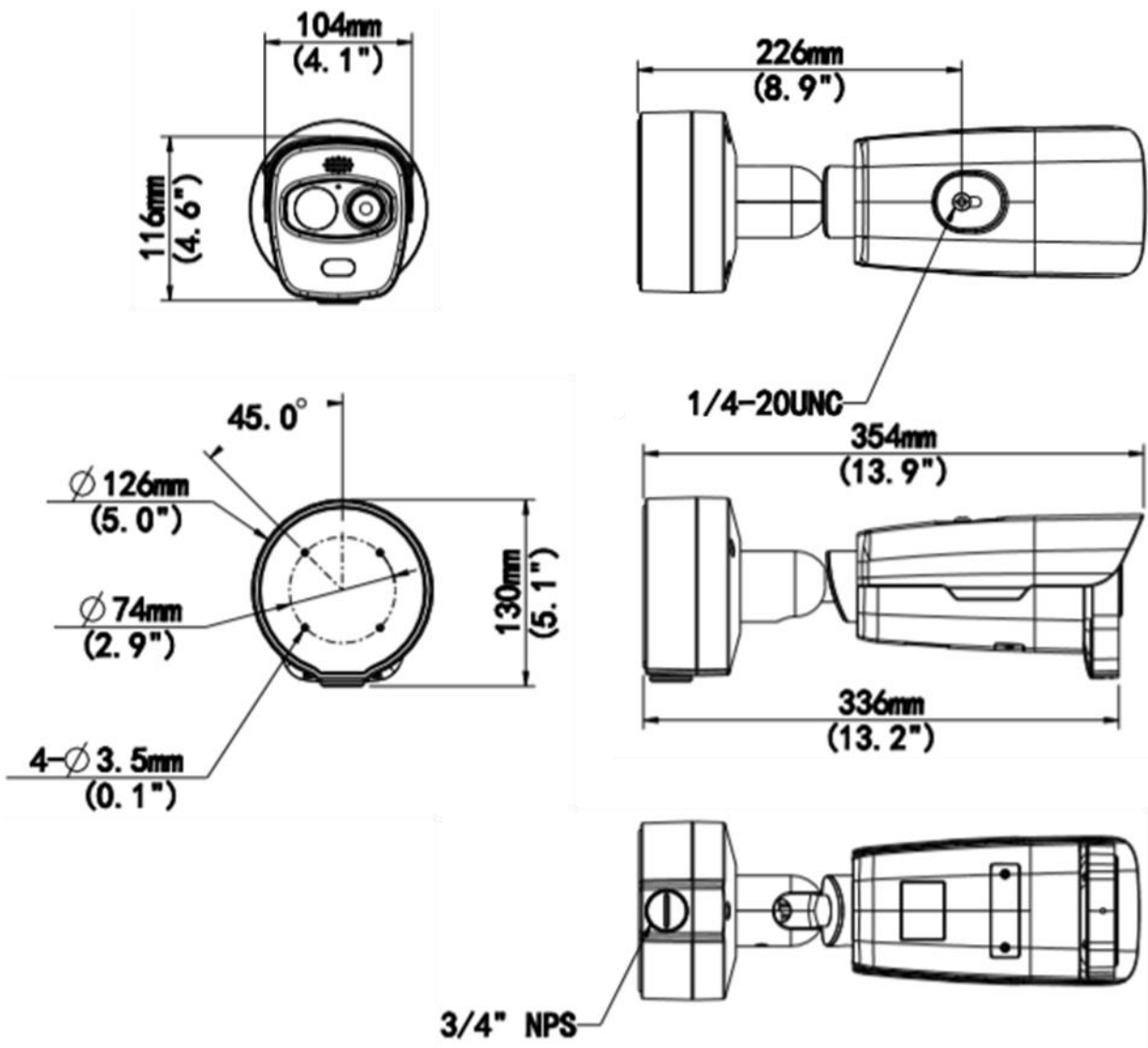
Shutter	Auto/Manual, 1 ~ 1/100000s
Min. Illumination	Colour: 0.001lux (F1.6, AGC ON) B/W: 0.0005lux (F1.6, AGC ON) 0 lux with IR
WDR	120dB
Day/Night	IR-cut filter with auto switch (ICR)
IR Range	Up to 50m (164 ft) IR range
Wavelength	850nm
IR On/Off Control	Auto/Manual
BLC	Support
Smart (Thermal Module)	
Fire Detection	Support the detection of fire point in the environment and up to 10 fire points can be detected
Smoking Detection	Support the detection of smoking in the environment and link to alarm
Temperature Detection	Support area detection, and link to alarm, the temperature value can be added to the alarm picture Support cold&hot point tracking, timely and clearly shows the abnormal point Up to 12 rules can be set Temperature range: -20° C ~+150° C Temperature accuracy: Max (±8° C/±8%)
Smart Intrusion Prevention	Support false alarm filtering: Line crossing detection, Intrusion detection, Enter Area, Leave Area Support motor vehicle and pedestrian detection capture and plan arming
Smart (Optical Module)	
Exception Detection	Object left behind detection, Object removed detection, Scene Change Detection
Smart Intrusion Prevention	Support false alarm filtering: Line crossing detection, Intrusion detection, Enter Area, Leave Area Support motor vehicle, non-motor vehicle and pedestrian detection capture and plan arming
Event	
Audio and Light Alarm	Support audio and light warning function, with red and blue warning lights built in
Basic Detection	Optical module :Motion detection, Audio detection, Tampering alarm Thermal module : Audio detection
General Function	Watermark, IP Address Filtering, Alarm input, Alarm output, Access Policy, ARP Protection, RTSP Authentication, User Authentication

Video	
Compression	Ultra265, H.265, H.264, MJPEG
Video Stream	Triple streams
OSD	Up to 8 OSDs
Privacy Mask	Up to 8 areas per scene
Audio	
Audio Compression	Audio Compression
Two-way Audio	Supported, Built in mic and speaker
Sampling Rate	8kHz
Storage	
Edge Storage	Micro SD, up to 256 GB
Network Storage	ANR
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
Interoperability	ONVIF® Profile G, ONVIF® Profile S, ONVIF® Profile T specification at onvif.org
Web Browser	Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below
Interface	
Audio I/O	1/1
Alarm I/O	2/2
Serial Port	1 RS485
Network	1 x RJ45 10M/100M Base-TX Ethernet
General	
Power	DC12V ($\pm 25\%$), PoE (IEEE802.3af) Power consumption: Max 12W Support reverse polarity protection, Overvoltage and overcurrent protection , Input short circuit protection

Dimensions (Ø x H)	Φ354mm x 104mm x 116mm (Φ13.9" x 4.1" x 4.6")
Weight	1.85kg (4.08lb)
Working Environment	-10° C ~+50° C (-14° F ~ 122° F) , Humidity: ≤95% RH (non-condensing)
Ingress Protection	IP67
Vandal Resistant	N/A
Material	Metal

*ONVIF is a trademark of ONVIF, Inc.

Dimensions



I Additional information

For more information about the IPC701-4M-B camera, contact your account manager or visit <https://www.fs.com/uk/products/174116.html>

I Document history

New or revised topic	Described in	Date
Updates to FS IPC701-4M-B Camera Data Sheet	Updated all	03/13/2023



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