

A solid red circle.

IPC301-8M-D Camera Data Sheet

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Overview

Dome network cameras can provide a high-definition professional surveillance and security solution. With the flexible 3-axis adjustment, you can place and position the camera anywhere. Adopting the smart IR technology, the dome cameras can also deliver clear video at night. Smart encoding technology and H.265 compression code can save 75% disk space and reduce the monitoring cost. Designed for indoor and outdoor environments, it is IP67 weatherproof, ideal for houses, enterprises, banks, governments and other applications.

- Captures 8MP HD Video
- With IR Range, Night Vision Distance up to 30m (98ft)
- Smart H.265+ Reduces Bandwidth and Storage, While Preserving High Image Quality
- Water and Dust Resistant (IP67), Vandal Resistant (IK10)
- ONVIF® Profile G, S and T Conformant
- Focusing on Human Body Detection



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 colour mixture 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 protection

IP67 rated housing protects the camera against rain and dust. Capable of withstanding temperatures from -30 ~ 60 ° C (-22~140° 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 (2MP) enjoy the reduction of false alarm, and send instant notifications when detecting intrusion targets. Based on target classification, smart behavior detections (4MP&5MP&8MP) significantly reduce the false alarm caused by leaves, birds and lights etc., and accurately focus on human, motor vehicle and non-motor vehicle.

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 IPC301-8M-D.

Table 1. Technical specification

Camera	
Image Sensor	1/2.7", 8.0 Megapixel, Progressive Scan
Max.Resolution	3840x2160
Min. Illumination	0.003Lux @ (F1.6, AGC ON), 0Lux withIRon
S/N	>56dB
Shutter Speed	Auto/Manual,1~1/100000
3-Axis Adjustment	Pan: 3° - 360° Tilt: 0° - 68° Rotate: 3° - 360°
Lens	
Focal Length (mm)	2.8
Aperture	F1.6
Field of View (H)	112.9°
Field of View (V)	51.9°
Field of View (D)	121.2°
DORI	
DORI Distance (m)	Detect: 84-120 Observe: 33.6-48 Recognize: 16.8-24 Identify: 8.4-12
Illuminator	
Day/Night	Support
IR-cut Filter	Support
IR Range	Up to 30m(98ft) IR range

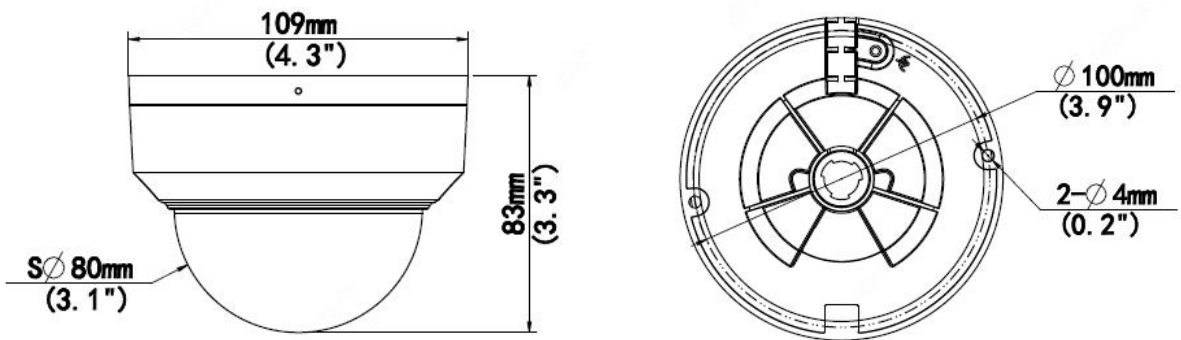
Wavelength	850nm
IR On/Off Control	Auto / Manual
Video	
Video Compression	Ultra265, H.265, H.264, MJPEG
H.264 Code Profile	Baseline profile, Main profile, High profile
Video Frame Rate	MainStream:8MP(3840*2160),Max20fps;5MP(3072*1728),Max30fps;4MP(2560*1440),Max30fps;1080P(1920*1080),Max30fps; SubStream:1080P(1920*1080),Max30fps;720P(1280*720),Max30fps;D1(720*576),Max30fps;640*360,Max30fps;2CIF(704*288),Max30fps;CIF(352*288),Max30fps; ThirdStream:D1(720*576),Max30fps;640*360,Max30fps;2CIF(704*288),Max30fps;CIF(352*288),Max30fps;
Video Bit Rate	128Kbps~16Mbps
On-Screen Display (OSD)	Up to 8 OSDs
Privacy Mask	Up to 4 areas
Region of Interest (ROI)	Up to 8 Areas
Video Stream	Triple streams
U-code	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
Events	
Behavior Detection	Motion detection, tampering alarm, audio detection
General Function	Watermark, IP address filtering, tampering alarm, alarm input, alarm output, access policy, ARP protection, RTSP authentication, user authentication

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, SSH
Interoperability	ONVIF® Profile G, ONVIF® Profile S, ONVIF® Profile T specification at onvif.org , API, SDK
Compliance	NDAA Section 889 compliant
Client	EZStation / EZView / EZLive
Web Browser	Plug-in Required Live View: IE9+, Chrome 41 and below, Firefox 52 and below Plug-in Free Live View: Chrome 57.0+, Firefox 58.0+, Edge 16+
Audio	
Audio Compression	G.711
Suppression	Support
Audio Sampling Rate	8KHZ
Built-in Microphone	Support
Interface	
Audio I/O	1 Input: impedance 35kΩ; amplitude 2V [p-p] 1 Output: impedance 600Ω; amplitude 2V [p-p]
Alarm I/O	1/1
Network	10/100M Base-TX Ethernet
General	
Power	DC 12V±25%, PoE (IEEE 802.3af)
Dimension (H x W x D)	109x109x83mm(4.3"x4.3"x3.3")
Weight	0.43kg(0.95lb)

Material	Metal
Operating Temperature	-22° F to 140° F (-30° C to 60° C)
Storage Temperature	-22° F to 140° F (-30° C to 60° C)
Operating Humidity	≤ 95% RH (Non-condensing)
Storage Humidity	≤ 95% RH (Non-condensing)
Surge Protection	4KV
Ingress Protection	IP67, IK10
Warranty	2 Years

*ONVIF is a trademark of ONVIF, Inc.

Dimensions



Additional information

For more information about the IPC301-8M-D camera, contact your account manager or visit <https://www.fs.com/products/170069.html>

Document history

New or revised topic	Described in	Date
Updates to FS IPC301-8M-D Camera Data Sheet	Updated all	3/15/2023



Shenzhen (China)

Address: 24F, Yingfeng Center, Haitian 2nd Rd,
Nanshan District, Shenzhen
Tel: +86 (755) 8357 1351
Email: sales@feisu.com

Delaware (United States)

Address: 380 Centerpoint Blvd, New Castle,
DE 19720, United States
Tel: +1 (888) 468 7419
Email: us@fs.com

Munich (Germany)

Address: NOVA Gewerbepark Building 7, Am
Gfild 7,85375 Neufahrn bei Munich, Germany
Tel: +49 (0) 8165 4099 260
Email: de@fs.com

Singapore

Address: 30A Kallang Pl, #11-10/11/12 Singapore
339213
Tel: +65 6443 7951
Email: sg@fs.com

Wuhan (China)

Address: 9-14F, Optical Valley Software Park
A7, Guanshan Ave, Wuhan
Tel: +86 (027) 8808 9195
Email: sales@feisu.com

Birmingham (United Kingdom)

Address: Regus Edmund House, 12-22 Newhall
Street, Birmingham, B3 3AS
Tel: +49 (0) 8165 4099 260
Email: uk@fs.com

Melbourne (Australia)

Address: 57-59 Edison Rd, Dandenong South,
VIC 3175, Australia
Tel: +61 3 9693 3488
Email: au@fs.com

Tokyo (Japan)

Address: JS Progress Building, 4-1-23 Heiwajima,
Ota-ku, Tokyo 〒143-0006
Tel: 03-5826-8305
Email: jp@fs.com



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