

Dome Network Cameras

2MP/5MP/8MP Dome PoE IP Cameras



Overview

With the max resolution of 1920x1080 at 30fps, 2MP dome network cameras can provide a high-definition professional surveillance and security solution.

Adopting the smart IR technology, the 2MP dome cameras can also deliver clear video at night, with the IR range of up to 30m (98ft) or 40m (131ft). 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, shops and other SMBs.

Benefits

- 1920 x 1080 @ 30fps
- 1/2.7" Progressive Scan CMOS
- 2.8mm Fixed & 2.8-12mm Varifocal Lens
- Up to 30m (98ft) / 40m (131ft) IR Range
- H.265, H.264, MJPEG
- 120dB WDR, 2D/3D DNR
- Built-in Mic
- IP67 Protection

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 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.

Technical Specification

2MP Dome Network Cameras

IPC201-2M-D

IPC204-2M-D

Camera

Image Sensor 1/2.7" Progressive Scan CMOS

Max.Resolution 1920x1080

Min. Illumination Colour: 0.01Lux (F2.0, AGC ON)
0Lux with IR Colour: 0.005Lux (F1.6, AGC ON)
0Lux with IR

S/N >52dB

Shutter Speed Auto/Manual, 1- 1/100000s

| | | |
|--------------------------|-------------------|-------------------|
| 3-Axis Adjustment | Pan: 3° - 360° | Pan: 3° - 360° |
| | Tilt: 0° - 68° | Tilt: 0° - 70° |
| | Rotate: 3° - 360° | Rotate: 3° - 360° |

Lens

Focal Length (mm) 2.8 2.8-12

Aperture F2.0 F1.6

DORI Distance (m) Detect: 42
Observe: 16.8
Recognize: 8.4
Identify: 4.2 Detect: 42-180
Observe: 16.8-72
Recognize: 8.4-36
Identify: 4.2-18

| | | |
|----------------------------|------------|----------------------|
| Field of View (FOV) | (H) 112.9° | (H) 108.05° - 32.59° |
| | (V) 59.1° | (V) 56.81° - 18.36° |
| | (O) 121.2° | (O) 119.91° - 36.53° |

Illuminator

Day/Night Support

IR-cut Filter Support

IR Range 30m (98ft) 40m (131ft)

Wavelength 850nm

IR On/Off Control Auto/Manual

Video

Video Compression H.265, H.264, MJPEG

H.264 Code Profile Baseline Profile, Main Profile, High Profile

Video Bit Rate 128 Kbps to 16 Mbps

9:16 Corridor Mode Support

Technical Specification

2MP Dome Network Cameras

| | IPC201-2M-D | IPC204-2M-D |
|--------------------------|--|--|
| Video | | |
| On-Screen Display (OSD) | Up to 4 OSDs | |
| Privacy Mask | Up to 4 areas | |
| Region of Interest (ROI) | Up to 8 Areas | |
| Motion Detection | Up to 4 areas | |
| Image | | |
| Wide Dynamic Range (WDR) | 120dB | |
| White Balance | Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2 | |
| Digital NoiseReduction | 2D/3D DNR | |
| Flip | Normal/Vertical/Horizontal/180° /90° Clockwise/90° Anti-clockwise | |
| Dewarping | -- | |
| HLC | Support | |
| BLC | Support | |
| Digital Defog | Support | |
| Smart | | |
| Behavior Detection | Cross line, intrusion(based on human body detection) motion detection, tampering alarm | Cross line, intrusion(based on human body detection) motion detection, tampering alarm, audio detection |
| General Function | Watermark, IP address filtering, access policy, ARP protection, RTSP authentication, user authentication | |
| Network | | |
| Protocols | IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, QoS, SSL, SNMP | IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, SSL, QoS, SNMP |
| Compatible Integration | ONVIF (Profile S, Profile G, Profile T), API | |
| Client | Guard Station Guard Viewer | |
| 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+, Safari 11+ | |

Technical Specification

2MP Dome Network Cameras

| | IPC201-2M-D | IPC204-2M-D |
|-----------------------|------------------------------------|-----------------------------|
| Audio | | |
| Audio Compression | -- | G.711 |
| Suppression | -- | Support |
| Audio Sampling Rate | -- | 8KHZ |
| Built-in Microphone | -- | Support |
| Storage | | |
| Edge Storage | Micro SD, up to 128GB | |
| Network Storage | ANR, NAS (NFS) | |
| Network | | |
| Network | DC 12V ± 25%, PoE (IEEE 802.3af) | 10M/100M Base-TX Ethernet |
| Reset Button | -- | Support |
| General | | |
| Power | DC 12V ± 25%, PoE (IEEE 802.3af) | |
| Dimension (Hx Wx D) | Φ108.7 x 81mm (Ø 4.3" x 3.2") | Φ128mmx100mm (Ø5.0" x 3.9") |
| Net Weight | 0.36kg (0.79lb) | 0.66kg (1.46lb) |
| Material | Metal + Plastic | |
| 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 | 6KV |
| Ingress Protection | IP67,IK10 | |
| Warranty | 2 Years | |

Technical Specification

5MP Dome Network Cameras

IPC301-5M-D

IPC305-5M-D

Camera

Image Sensor 1/2.7" Progressive Scan CMOS

Max.Resolution 2880x1620

Min. Illumination Colour:0.003 Lux (F1.6, AGC ON)
0Lux with IR Colour:0.002 Lux (F1.2, AGC ON)
0Lux with IR

S/N >56dB

Shutter Speed Auto/Manual, 1- 1/100000s

| | | |
|--------------------------|---|---|
| 3-Axis Adjustment | Pan: 3° - 360° Tilt: 0° - 68° Rotate: 3° - 360° | Pan: 0° - 355° Tilt: 0° - 80° Rotate: 0° - 355° |
|--------------------------|---|---|

Lens

Focal Length (mm) 4.0 2.7-13.5

Aperture F1.6 F1.2

DORI Distance (m) Detect: 90
Observe: 36
Recognize: 18
Identify: 9 Detect: 60.8-303.8
Observe: 24.3-121.5
Recognize: 12.2-60.8
Identify: 6.1-30.4

| | | |
|----------------------------|-------------------------------------|---|
| Field of View (FOV) | (H) 78.7° (V) 44.9° (O) 89.2° | (H) 106.25° - 30.42° (V) 56.36° - 17.22° (O) 110.34° - 34.18° |
|----------------------------|-------------------------------------|---|

Illuminator

Day/Night Support

IR-cut Filter Support

IR Range 30m (98ft) 40m (131ft)

Wavelength 850nm

IR On/Off Control Auto/Manual

Video

Video Compression H.265, H.264, MJPEG

H.264 Code Profile Baseline Profile, Main Profile, High Profile

Video Bit Rate 128 Kbps to 16 Mbps

9:16 Corridor Mode --

Technical Specification

5MP Dome Network Cameras

| | IPC301-5M-D | IPC305-5M-D |
|---------------------------------|--|---------------|
| Video | | |
| On-Screen Display (OSD) | | Up to 8 OSDs |
| Privacy Mask | | Up to 4 areas |
| Region of Interest (ROI) | | Up to 8 Areas |
| Motion Detection | | Up to 4 areas |
| Image | | |
| Wide Dynamic Range (WDR) | | 120dB |
| White Balance | Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2 | |
| Digital NoiseReduction | | 2D/3D DNR |
| Flip | Normal/Vertical/Horizontal/180° /90° Clockwise/90° Anti-clockwise | |
| Dewarping | | -- |
| HLC | | Support |
| BLC | | Support |
| Digital Defog | | Support |
| Smart | | |
| Behavior Detection | Cross line, intrusion, enter area, leave area detection | |
| General Function | Watermark, IP address filtering, tampering alarm, alarm input, alarm output, access Policy, ARP protection, RTSP authentication, user authentication | |
| Network | | |
| Protocols | IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, SSL, SNMP | |
| Compatible Integration | ONVIF (Profile S, Profile G, Profile T), API | |
| Client | Guard Station Guard Viewer | |
| 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+, Safari 11+ | |

Technical Specification

5MP Dome Network Cameras

| | IPC301-5M-D | IPC305-5M-D |
|-----------------------|----------------------------------|------------------------------------|
| Audio | | |
| Audio Compression | | G.711 |
| Suppression | | Support |
| Audio Sampling Rate | | 8KHZ |
| Built-in Microphone | -- | Support |
| Storage | | |
| Edge Storage | | Micro SD, up to 256GB |
| Network Storage | | ANR, NAS (NFS) |
| Network | | |
| Network | 1 RJ45 10M/100M Base-TX Ethernet | DC 12V ± 25%, PoE (IEEE 802.3af) |
| Reset Button | -- | Support |
| General | | |
| Power | | DC 12V ± 25%, PoE (IEEE 802.3af) |
| Dimension (Hx Wx D) | Φ108.7 x 81mm (Ø 4.3" x 3.2") | Φ148.0 x 111.4mm (Ø5.8" x 4.4") |
| Net Weight | 0.425kg (0.93lb) | 0.97kg (2.12lb) |
| 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 | 2V | 6KV |
| Ingress Protection | | IP67,IK10 |
| Warranty | | 2 Years |

Technical Specification

8MP Dome Network Cameras

IPC304-8M-D

| Camera | |
|---------------------|--|
| Image Sensor | 1/2.8" Progressive Scan CMOS |
| Max.Resolution | 3840x2160 |
| Min. Illumination | Colour: 0.003Lux (F1.6, AGC ON) 0Lux with IR on |
| S/N | >56dB |
| Shutter Speed | Auto/Manual, 1- 1/100000s |
| 3-Axis Adjustment | Pan: 0° - 355° Tilt: 0° - 80° Rotate: 0° - 355° |
| Lens | |
| Focal Length (mm) | 2.8-12 |
| Aperture | F1.6 |
| DORI Distance (m) | Detect: 86.9-372.4 Observe: 34.8-149 Recognize: 17.474.5 Identify: 8.7-37.2 |
| Field of View (FOV) | (H) 107.4° - 29.2° (O) 54.2° - 16.3° (V) 111.0° - 33.1° |
| Illuminator | |
| Day/Night | Support |
| IR-cut Filter | Support |
| IR Range | 40m (131ft) |
| Wavelength | 850nm |
| IR On/Off Control | Auto/Manual |
| Video | |
| Video Compression | H.265, H.264, MJPEG |
| H.264 Code Profile | Baseline Profile, Main Profile, High Profile |
| Video Bit Rate | 128 Kbps to 16 Mbps |
| 9:16 Corridor Mode | -- |

Technical Specification

8MP Dome Network Cameras

IPC304-8M-D

| Video | |
|--------------------------|--|
| On-Screen Display (OSD) | Up to 8 OSDs |
| Privacy Mask | Up to 4 areas |
| Region of Interest (ROI) | Up to 8 Areas |
| Motion Detection | Up to 4 areas |
| Image | |
| Wide Dynamic Range (WDR) | 120dB |
| White Balance | Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2 |
| Digital NoiseReduction | 2D/3D DNR |
| Flip | Normal/Vertical/Horizontal/180° /90° Clockwise/90° Anti-clockwise |
| Dewarping | Support |
| HLC | Support |
| BLC | Support |
| Digital Defog | Support |
| Smart | |
| Behavior Detection | Cross line, intrusion, enter area, leave area detection |
| General Function | Watermark, IP address filtering, tampering alarm, alarm input, alarm output, access policy, ARP protection, RTSP authentication, user authentication |
| Network | |
| Protocols | IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, SSL, SNMP |
| Compatible Integration | ONVIF (Profile S, Profile G, Profile T), API |
| Client | Guard Station Guard Viewer |
| 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+, Safari 11+ |

Technical Specification

8MP Dome Network Cameras

IPC304-8M-D

| Audio | |
|-----------------------|------------------------------------|
| Audio Compression | G.711 |
| Suppression | Support |
| Audio Sampling Rate | 8KHZ |
| Built-in Microphone | Support |
| Storage | |
| Edge Storage | Micro SD, up to 256GB |
| Network Storage | ANR, NAS (NFS) |
| Network | |
| Network | DC 12V ± 25%, PoE (IEEE 802.3af) |
| Reset Button | Support |
| General | |
| Power | DC 12V ± 25%, PoE (IEEE 802.3af) |
| Dimension (Hx Wx D) | Φ148 x 111.4mm (Ø5.8" x 4.4") |
| Net Weight | 0.97kg (2.14lb) |
| Material | Metal + Plastic |
| 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 | 2V |
| Ingress Protection | IP67,IK10 |
| Warranty | 2 Years |

Ordering Information

| ID | Description |
|----------|---|
| #129248 | IPC201-2M-D, Full HD 2MP Dome Network Camera, 98ft Night Vision, IP67 Weatherproof & IK10 Vandal Resistant, Smart Behavior Detection, Outdoor/Indoor PoE IP Camera with Fixed 2.8mm Lens |
| #129251 | IPC204-2M-D, Full HD 2MP Dome Network Camera with Build-in Mic, 131ft Night Vision, IP67 Weatherproof & IK10 Vandal Resistant, Smart Behavior Detection, Outdoor/Indoor PoE IP Camera with Motorized Varifocal 2.8-12mm Lens |
| # 129253 | IPC301-5M-D, Super HD 5MP Dome Network Camera, 98ft Night Vision, IP67 Weatherproof & IK10 Vandal Resistant, Smart Behavior Detection, Outdoor/Indoor PoE IP Camera with Fixed 4.0mm Lens |
| # 129255 | IPC305-5M-D, Super HD 5MP Dome Network Camera with Built-in Mic, 131ft Night Vision, IP67 Weatherproof & IK10 Vandal Resistant, Smart Behavior Detection, Outdoor/Indoor PoE IP Camera with Motorized Varifocal 2.7-13.5mm Lens |
| # 129259 | IPC304-8M-D, Ultra HD 8MP Dome Network Camera with Built-in Mic, 131ft Night Vision, IP67 Weatherproof & IK10 Vandal Resistant, Smart Behavior Detection, Outdoor/Indoor PoE IP Camera with Motorized Varifocal 2.8-12mm Lens |



 <https://www.fs.com>



The information in this document is subject to change without notice. FS has made all efforts to ensure the accuracy of the information, but all information in this document does not constitute any kind of warranty.