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PTZ Dome Network Cameras

4MP Dome PoE IP Cameras

Overview

PTZ network cameras can provide a high-definition professional surveillance and security solution. Pan, tilt and 25x optical zoom ability enables camera to monitor zones of interest

Adopting the smart IR techonoly, the PTZ 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.

Benefits

- PTZ Controls
- 25x Optical Zoom
- 100m (328ft) Night Vision
- 120dB WDR, 2D/3D DNR
- H.265, H.264, MJPEG
- PoE Power Supply
- IP67 Protection
- Smart Behavior Detection
- Built-in Micro SD Card Slot

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. Based on target classification, smart behavior detections 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.

Technical Specification

IPC425-4M-P

Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Max.Resolution	2688x1520
Min. Illumination	Color: 0.003Lux (F1.5, AGC ON); 0Lux with IR
S/N	>56dB
Shutter Speed	Auto/Manual, 1- 1/100000s
Lens	
Focal Length (mm)	4.8- 120
Aperture	F1.5- F3.8
DORI Distance (m)	Detect: 119.3- 2475 Recognize: 23.9-495 Identify: 11.9- 247.5
Field of View (FOV)	(H) 52.2° -2.74° (V) 30.81° -1.54° (D) 64.2° -3.23°
Illuminator	
Day/Night	Support
IR-cut Filter	Support
IR On/Off Control	Auto/Manual
IR Range	100m (328ft)
Wavelength	850nm
Video	
Video Compression	H.265, H.264, MJPEG
H.264 Code Profile	Baseline Profile, Main Profile, High Profile
Video Frame Rate	Main Stream: 4MP (2688x1520), Max.30fps; Sub Stream: 1080P (1920x1080), Max.30fps; Third Stream: D1 (720x576), Max 30fps;
Video Bit Rate	128 Kbps to 16 Mbps

Technical Specification

IPC425-4M-P

Video	
On-Screen Display (OSD)	Up to 8 OSDs
Privacy Mask	24 Areas, up to 4 Areas Per Scene
Region of Interest (ROI)	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/Flip Vertical/Flip Horizontal/180°/90° Clockwise/90° Anti-clockwise
HLC	Support
BLC	Support
Digital Defog	Support

Smart	
Behavior Detection	False Alarm Filtering: Cross Line Detection, Intrusion Detection, Enter Area Detection, Leave Area Detection; Basic Detection: Motion Detection, Tampering Alarm, Audio Detection
Face Capture	Support
People Counting	Support
Auto Tracking	Support
General Function	Watermark, IP address filtering, access policy, ARP protection, RTSP authentication, user authentication

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
Compatible Integration	ONVIF (Profile S, Profile G, Profile T), API, SDK
Client	Guard Station Guard Viewer
Web Broswer	Plug-in Required Live View: IE9+, Chrome 41 and below, Firefox 52 and below

Technical Specification

	IPC425-4M-P
Audio	
Audio Compression	G.711U, G.711A
Suppression	Support
Audio Sampling Rate	8KHZ
Audio Bitrate	64Kbps
Storage	
Edge Storage	Micro SD, up to 256GB
Network Storage	ANR, NAS (NFS)
PTZ	
Pan Range	360° (endless)
Pan Speed	0.1°/s - 200°/s Preset Speed: 240°/s
Tilt Range	−15°- 90° (auto reverse)
Tilt Speed	0.1°/s- 120°/s Preset Speed: 200°/s
Number of Presets	1024
Patrol	Preset Patrol, Route Patrol, Recorded Patrol
Patrol Stay Time	15s- 1800s
Preset Image Freeze	Support
Home Position	Support
Interface	
Network	10/100M Base-TX Ethernet
Reset Button	Support
External Audio I/O	Support
External Alarm I/O	Support
Serial Port	1x RS485
Video Output	1x BNC

Technical Specification

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IPC425-4M-P

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General	
Power	DC 12V ± 25%, PoE (IEEE 802.3af)
Dimension (Hx Wx D)	295x 166x 166mm (11.6"x 6.5"x 6.5")
Net Weight	6.72lb (3.05kg)
Operating Temperature	-40° F to 158° F (-40° C to 70° C)
Storage Temperature	-40° F to 158° F (-40° C to 70° C)
Operating Humidity	≤95% RH (Non-condensing)
Storage Humidity	≤95% RH (Non-condensing)
Surge Protection	6KV
Ingress Protection	IP67
Warranty	2 Years

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