

RPZ85848-HNF-PA

8MP 48x Starlight IR AI Network Positioning Camera



- 1/1.8" 8Megapixel STARVIS™ CMOS
- 48× optical zoom
- Starlight technology
- Max. 25/30 fps@8M
- IR distance up to 400m
- H.265 encoding
- Two-way audio
- IP67
- Auto-tracking
- Perimeter protection
- Face Recognition

System Overview

Al series products adopt the most advanced Al technologies, including deep learning algorithms that primarily target people and vehicles, which provide higher flexibility and accuracy for end-users. This enables the Al series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, and traffic data statistics. The complete lineup of Al includes network (PTZ) cameras, network video recorders, servers, and more devices. Beyond seeing the world, the power of Al allows devices to perceive the environment and understand the world in a better way.

Functions

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, and more, and uses secondary recognition during target detection to improve alarm accuracy.

Starlight Technology

For challenging low-light conditions, Starlight Ultra-low Light Technology offers the best in light sensitivity, capturing color in vivid detail, even in lighting as low as 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, producing clear images in dark environments.

PFA Technology

PFA technology has introduced new methods of judgment that ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms that ensure image clarity when zooming and that shorten focus time. This makes the camera highly advanced in its functions, substantially improving the quality of your experience.

Environment (-40 °C to +70 °C, IP67)

Developed to operate in extreme conditions, this camera can function in temperatures ranging from -40 °C to +70 °C (-40 °F to +158 °F) at 95% humidity. It was subjected to rigorous dust and water immersion tests, gaining its IP67 Ingress Protection certification, making it suitable for demanding outdoor applications.

Auto-tracking

This feature controls the pan, tilt and zoom actions of the camera to automatically track an object in motion, to keep it in view of the camera. Tracking can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, a flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality videos without straining the network. Smart H.265+ technology outranks standard H.265 video compression, reducing bit rate and storage requirements by up to 70%.

Scenes

The PTZ AI network camera adopts advanced CNN deep learning algorithms to support Perimeter Protection. This highly accurate camera possesses a wide monitoring range and the PFA algorithm, allowing it to always present a clear, focused image while zooming. Leveraging the latest in starlight technology, the camera has strong low light performance, smooth controls, high-grade protection, and produces high quality images, meeting most of the requirements of video surveillance applications.





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Technical Specification

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Idle Motion Preset / Tour / Pattern / Scanning	Scan	5			
	Power-off Memory	Yes			
PTZ Protocol Pelco-P/D (Auto recognition)	Idle Motion	Preset / Tour / I	Pattern / Scanni	ng	
	PTZ Protocol	Pelco-P/D (Auto	recognition)		

Intelligence	
Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attribute extraction.
IVS (Perimeter Protection)	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification.
Face Recognition	Yes
Video	
Compression	H.265; H.264M; H.264H; MJPEG; Smart H.265; Smart H.264
Streaming Capability	3 Streams
Resolution	8M (3840 × 2160); 4M (2560 × 1440); 1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Video Frame Rate	Main stream: 8M/4M/1080p/960p/720p (1–25/30 fps) Sub stream 1: D1/VGA/CIF (1–25/30 fps) Sub stream 2: 1080p/960p/720p (1–25/30 fps)
Bit Rate Control	CBR; VBR
Bit Rate	H.264: 3328–16384 kbps H.265: 1280–9984 kbps
Day/Night	Auto (ICR); Color; B/W
BLC	Yes
WDR	Yes
HLC	Yes
White Balance	Auto / Indoor / Outdoor / Tracking / Manual / Sodium lamp / Natural light / Street lamp
Gain Control	Auto / Manual
Noise Reduction	2D NR / 3D NR
Motion Detection	Yes
Region of Interest (ROI)	Yes
Defog	Optical
Digital Zoom	16x
Image Rotation	180°
Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view
S/N Ratio	≥55 dB
Audio	
Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; PCM

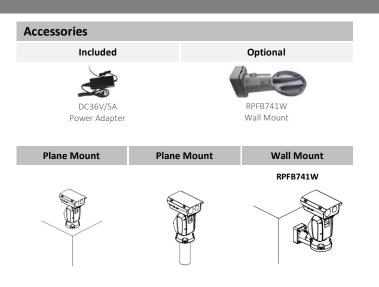


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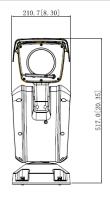
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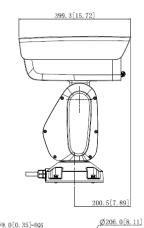
Network

Network		
Network Port	RJ-45 (10/100Base-T)	
Network Protocol	HTTP; HTTPS; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; QoS; FTP; UPnP; ICMP; SNMP; IGMP; RTP; PPPoE; RTMP; TCP	
Interoperability	ONVIF (Profile S&G&T); GB/T28181; CGI	
Streaming Method	Unicast/Multicast	
User/Host	20 (Total bandwidth 64M)	
Storage	FTP; Micro SD card (512GB); NAS	
Browser	IE7 and later versions Chrome 45 and later versions Firefox 52ESR and earlier versions Safari	
Mobile Client	iOS/Android	
Port		
Analog Output	1 channel (CVBS output, BNC)	
RS-485	1 (baud rate: 1200bps-115200bps)	
Audio Input	1 channel (LINE IN, bare wire)	
Audio Output	1 channel (LINE OUT, bare wire)	
Two-way Audio	Yes	
Alarm Input	7 (on-off value input: 0–5 VDC)	
Alarm Output	2	
Alarm Linkage	Capture; preset; tour; pattern; recordings on SD card; alarm digital input; client E-map; send email	
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; decoder state detection; memory card state detection; memory space detection; power exception detection	
Power		
Power Supply	36VDC / 5A (±25%)	
Power Consumption	Basic: 22W Max: 63W (illuminator + wiper + PTZ)	
Environment		
Operating Temperature	-40°C ~ 70°C (-40°F ~ +158°F)	
Operating Humidity	≤95%	
Protection	IP67; TVS 6000V lightning proof; surge protection; voltage transient protection	
Structure		
Casing	ADC12	
Product Dimensions	344.6mm × 252.2mm × 499.8mm (13.57" × 9.93" × 19.68") (L × W × H)	
Net Weight	15.4Kg (33.95lb)	
Gross Weight	23.7Kg (52.25lb)	



Dimensions (mm[inch])





4-Ø9.0[0.35]-EQS

