

RPZ8A840WA-HNF

8MP 40x Starlight IR PTZ AI Network Camera



- 1/1.8" 8Megapixel STARVIS™ CMOS
- Powerful 40x optical zoom
- Starlight technology
- Perimeter Protection
- Metadata
- Face Recognition
- Auto-tracking
- Smart wiper
- IP67

Al is a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, Al provides precise, reliable and comprehensive Al solutions for industry verticals.

System Overview

PTZ AI network camera adopts advanced CNN deep learning algorithms to support face recognition with high accuracy. This camera possess wide monitor range, PFA algorithm that can always present a clear, focused image while zooming, and smart wiper technology that supported by RainSensor.

Functions

Starlight Technology

For challenging low-light applications, Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.001lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Perimeter Protection

Automatically filtering out false alarms caused by animals, resulting leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

Video Metadata

Metadata is information on the attributes of targets that is extracted during monitoring. It can be used for data retrieval. There are four kinds of metadata supported by PTZ AI cameras: Human face, human body, motor vehicle and non-motor vehicle. Face information includes gender, age, glasses, masks, beards, and more. Human body information includes hat, top, top color, bottom, bottom color, bag, and more. Motor vehicle information includes plate color, type, vehicle color, sun visor, ornament, calling, seatbelt, smoking, annual inspection sticker, and more. Non-motor vehicle information includes type, color, top type, top color, people number, and more.

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.

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.

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%.





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| Technical Specification | 1 | | | Intelligence | | | |
|---|---|---|--------------------|---|---|--|--|
| Camera | | | Video Metadata | Support human body, human face, motor vehicle and non-motor vehicle image capture and attribute | | | |
| Image Sensor | 1/1.8" CMOS | | | | extraction. Tripwire; intrusion; climbing fences; loitering detection; | | |
| Pixel | 8MP | | | | abandoned/missing object; fast moving; parking | | |
| Max. Resolution | | 3840 (H) x 2160 (V) | | | detection; people gathering; vehicle/human alarm classification | | |
| ROM | | 8GB | | | Yes | | |
| RAM | 2GB | | | Face Recognition Auto Tracking | Yes | | |
| Electronic Shutter Speed | 1/1s~1/30,000s | | | Video | | | |
| Scanning System | | Progressive | | | Smart H.265+; H.265; Smart H.264+; H.264; MJPEG (Sub | | |
| Minimum Illumination | B/W: 0.0005 lux@F1.4 0 lux@F1.4 (illuminator on) | _ | | | Stream 1) 3 Streams | | |
| IR Distance | Distance up to 500m (1640f | ft) | | | 4K (3840 × 2160); 4M (2560 × 1440); | | |
| IR On/Off Control | Auto / Manual | | | Resolution | 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576); CIF (352 × 288) | | |
| Illuminator Number | 10 IR Lights | | | Frame Rate | Main stream: 4K/4M/1080p/1.3M/720p (1–25/30 fps) Sub stream 1: D1/CIF (1–25/30 fps) | | |
| Wiper | Smart Wiper | Smart Wiper | | | Sub stream 1: 01/CIF (1-25/30 fps) Sub stream 2: 1080p/1.3M/720p (1-25/30 fps) | | |
| Lens | | | | Bit Rate Control | CBR/VBR | | |
| Focal Length Aperture | 5.6mm-223mm F1.4-F4.5 | | | Bit Rate | H.264: 512Kbps - 16384Kbps H.265: 256Kbps - 10240Kbps | | |
| 7. per cur e | H: 63.9° - 2.0° | | | Day/Night | Auto(ICR) / Color / B/W | | |
| Angle of View | V:37.2° - 1.2° | | | BLC | Yes | | |
| Optical Zoom | | D: 71.2° - 2.4° | | | 120dB | | |
| Focus Control | | 40x | | | Yes | | |
| Close Focus Distance | | Auto; semi-auto; manual | | | Auto; indoor; outdoor; tracking; manual; sodium lamp; | | |
| | | 0.5m-2m (1.64ft-6.56ft) | | | natural light; street lamp | | |
| Iris Control | Auto / Manual | Di | 1-1 | Gain Control | Auto; Manual | | |
| DORI Distance | Detect Observe 4400m 1740m | Recognize 880m | Identify 440m | Noise Reduction | 2D NR; 3D NR | | |
| | (14435ft) (5708ft) | (2887ft) | (1443ft) | Motion Detection | Yes | | |
| PTZ | | | | Region of Interest (ROI) Electronic Image Stabilization | Yes | | |
| Pan/Tilt Range | Pan: 0° ~ 360° endless Tilt: -30° ~ 90° auto flip 180° | Pan: 0° ~ 360° endless Tilt: -30° ~ 90° auto flip 180° | | | Yes | | |
| Manual Control Speed | Pan: 0.1° ~ 240°/s | | | | Optical | | |
| · | Tilt: 0.1° ~ 100°/s Pan: 240° /s | | _ | Digital Zoom | 16x | | |
| Preset Speed | Tilt: 120°/s | | | Flip | 0°; 180° | | |
| Preset | 300 | \ | | Privacy Masking | Up to 24 areas can be set, with up to 8 areas in the same view | | |
| Tour | 8 (up to 32 presets per tour) |) | | S/N Ratio | ≥55dB | | |
| Pattern | 5 | | | Audio | | | |
| Scan | 5 | | | Audio Compression | G.711a; G.711mu; G.726; AAC; G722.1; G.729; MPEG2- Layer2; G723 | | |
| Speed Adjustment | Yes | | | Network | 24,2,2, 0720 | | |
| Power-off Memory | | Yes | | | RJ-45 (10/100 Base-T) | | |
| Idle Motion | | Preset / Tour / Pattern / Scanning | | | IPv4; IPv6; HTTP; HTTPS; 802.1x; QoS; FTP; SMTP; UPnP; | | |
| PTZ Protocol Smart Event | Pelco-P/D (Auto recognition | Pelco-P/D (Auto recognition) | | | SNMP v1/v2c/v3 (MIB-2); DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPOE; ARP; RTCP; RTMP | | |
| Motion detection, video tampering, scene changing, | | | Interoperability | ONVIF Profile S&G&T, CGI | | | |
| Event trigger Network disconnection, IP address conflict, illegal | | Streaming Method | Unicast; Multicast | | | | |
| 0 100 | access, and storage anomaly. | | | Max. User Access | 20 users | | |
| General IVS | Object Abandoned/Missing | | | Storage | FTP; Micro SD card (512GB) | | |
| | | | | Browser | IE 7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari | | |

Mobile Client

IOS; Android



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| Certifications | CE: EN55032 / EN55024 / EN50130-4 FCC: Part15 SubpartB, ANSI C63.4-2014 |
|----------------|--|
| Port | |
| Analog Output | 1 BNC |
| RS485 | 1 (baud rate range: 1200 bps–9600 bps) |
| Alarm I/O | 7/2 |
| Audio I/O | 1/1 |

Electrical

| Power Supply | 36 VDC, 2.23 A (±25%) Hi-PoE |
|-------------------|--|
| Power Consumption | Basic: 30 W Max: 48 W (illuminator + PTZ working) |

Environment

| Operating Temperature | -40°C to 70°C (-40°F to +158°F) |
|-----------------------|--|
| Operating Humidity | ≤95% (RH) |
| Protection | IP67; TVS 6000 V lightning protection; surge protection; voltage transient protection |

Structure

Dimensions (mm[inch])

415.9 [16.37]

| Casing | Metal |
|--------------------|---------------------------------------|
| Product Dimensions | 415.6mm × Φ26.2 mm (16.36" × Φ10.31") |
| Net Weight | 10kg (22.05lb) |
| Gross Weight | 12kg (26.46lb) |

Ф47.8 [Ф1.88]

Ф200.0 [Ф7.87]

Accessories

Included



DC36V/2.23A Power Adapter



RPFB306W Wall Mount Bracket

Optional



RPFA118 Mount Adapter



RPFB710C Ceiling Mount



RPFA150 Pole Mount



RPFB301S-E Plane Mount



Junction Box



RPFB301C Ceiling Mount





Wall Mount



Ceiling Mount Ceiling Mount







Pole Mount (Vertical)



Corner Mount



Pole Mount (Horizontal)



Plane Mount

RPFA118 + RPFB301S-E





 Φ 262.0 [Φ 10.31]