



Network

# PNM-9084RQZ1

2MP x 4CH IR PTRZ Multi-directional Camera



## Key Features

- Motorized PTRZ support
- Maximum 60fps@2MP(H.265, H.264)
- 3.2~10mm(3.1x) motorized varifocal lens
- IR viewable length : 30m(98.43ft)
- H.265, H.264, MJPEG codec, Multi streaming
- Video analytics, WiseStream II
- IP66, IK10, NEMA4X

# PNM-9084RQZ1

2MP x 4CH IR PTRZ Multi-directional Camera



## Specifications

### Video

|                         |                       |                                                                                                                   |
|-------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------|
| Imaging Device          | Size                  | 1/2.8"                                                                                                            |
|                         | Type                  | CMOS                                                                                                              |
| Resolution              |                       | 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| Max. Framerate          | H.265/H.264           | 60fps/50fps(60Hz/50Hz)                                                                                            |
|                         | MJPEG                 | 30fps                                                                                                             |
| Min. Illumination (Lux) | Color(1/30sec, 30IRE) | 0.05                                                                                                              |
|                         | BW(1/30sec, 30IRE)    | 0.005                                                                                                             |

### Lens

|                               |            |                            |
|-------------------------------|------------|----------------------------|
| Focal Length (mm)             |            | 3.2~10                     |
| Zoom Ratio                    | Optical    | 3.1x                       |
| Max Aperture Ratio (F number) | Wide       | 1.6                        |
|                               | Tele       | 2.9                        |
| Angular Field of View         | Horizontal | 109°~33°                   |
|                               | Vertical   | 58°~18°                    |
|                               | Diagonal   | 132°~38°                   |
| Min. Object Distance          |            | 0.5m(1.64ft)               |
| Focus Control                 |            | Simple focus               |
| Lens Type                     |            | DC auto iris(IR corrected) |

### Pan / Tilt / Rotate

|                           |        |                                   |
|---------------------------|--------|-----------------------------------|
| Pan / Tilt / Rotate Range | Pan    | 0°~360°                           |
|                           | Tilt   | 30°~80°                           |
|                           | Rotate | 0°~90°                            |
|                           | Others | Remote adjustment(Max. 200cycles) |

### Operational

|                        |                     |
|------------------------|---------------------|
| Day & Night            | Auto(ICR)           |
| Backlight Compensation | BLC, HLC, WDR, SSDR |

## Operational

|                                          |                |                                                                                                                                                              |
|------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wide Dynamic Range (dB)                  |                | 120                                                                                                                                                          |
| Digital Noise Reduction                  |                | SSNR V                                                                                                                                                       |
| Digital Image Stabilization              |                | Support                                                                                                                                                      |
| Defog                                    |                | Support                                                                                                                                                      |
| Motion Detection                         | Quantity       | 8ea                                                                                                                                                          |
|                                          | Shape          | 8point Polygonal zones                                                                                                                                       |
| Privacy Masking                          | Quantity       | 32ea                                                                                                                                                         |
|                                          | Shape          | Polygonal zones                                                                                                                                              |
|                                          | Color / Option | Gray, Green, Red, Blue, Black, White, Mosaic                                                                                                                 |
| Gain Control                             |                | Low, Middle, High                                                                                                                                            |
| White Balance                            |                | ATW, AWC, Manual, Indoor, Outdoor                                                                                                                            |
| LDC                                      |                | Support                                                                                                                                                      |
| Electronic Shutter                       | Mode           | Minimum, Maximum, Anti flicker                                                                                                                               |
|                                          | Speed Range    | 2~1/12,000sec                                                                                                                                                |
| Video Rotation                           |                | Flip, Mirror                                                                                                                                                 |
| Alarm Interface                          | In/Out         | Input 1ea, Output 1ea                                                                                                                                        |
| Alarm Triggers                           |                | Analytics, Network disconnect, Alarm input                                                                                                                   |
| Alarm Events When Alarm Trigger Occurred |                | File upload(image): e-mail/FTP,<br>Notification: e-mail,<br>Recording: SD/SDHC/SDXC or NAS recording at event triggers,Alarm output,<br>Handover: PTZ preset |
| Audio In                                 |                | Selectable(mic in/line in)                                                                                                                                   |
| Audio Out                                |                | Line out                                                                                                                                                     |
| Light Type                               |                | IR LED                                                                                                                                                       |
| Light Viewable Length                    | IR             | 30m(98.43ft)                                                                                                                                                 |
| IR Wavelength                            |                | 850nm                                                                                                                                                        |

## Analytics

|                  |        |                                                                                                                                                                                                    |
|------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Analytics Events | Normal | Defocus detection, Motion detection, Tampering, Fog detection, Face detection, Audio detection, Virtual area(Lotering, Intrusion, Enter/Exit, Appear/Disappear), Virtual line(Crossing, Direction) |
|------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Network

|                   |  |                                                                                                                               |
|-------------------|--|-------------------------------------------------------------------------------------------------------------------------------|
| Ethernet          |  | Metal shielded RJ-45(10/100/1000BASE-T)                                                                                       |
| Video Compression |  | H.265/H.264: Main/Baseline/High, MJPEG                                                                                        |
| Audio Compression |  | G.711 u-law /G.726 selectable,G.726(ADPCM) 8kHz,G.711 8kHz,<br>G.726: 16kbps,24kbps,32kbps,40kbps,<br>AAC-LC: 48kbps at 16kHz |
| Smart Codec       |  | Manual, WiseStream II                                                                                                         |
| Bitrate Control   |  | H.265/H.264: CBR or VBR,<br>MJPEG: VBR                                                                                        |

## Network

|                                   |                    |                                                                                                                                                                                            |
|-----------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Streaming                         | Unicast            | Up to 20 users                                                                                                                                                                             |
|                                   | Multicast          | Support                                                                                                                                                                                    |
|                                   | Multiple Streaming | Up to 10 profiles                                                                                                                                                                          |
| Protocol                          |                    | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, PIM-SM |
| Application Programming Interface | ONVIF              | S, T                                                                                                                                                                                       |
|                                   | Others             | SUNAPI(HTTP API), Hanwha Vision Open Platform                                                                                                                                              |
| Direct Cloud Connection           |                    | Optional (needs gateway)                                                                                                                                                                   |

## Security

|                        |                                                                         |
|------------------------|-------------------------------------------------------------------------|
| User authentication    | Digest authentication                                                   |
| Network authentication | IEEE 802.1X(EAP-TLS, EAP-LEAP)                                          |
| Secure Communication   | HTTPS                                                                   |
| Access Control         | IP-based access control                                                 |
| Data Protect           | Encryption credentials, Encrypt compress for live recording file export |
| Audit                  | Access / System / Event Log management                                  |
| Device ID              | Device certificate(Hanwha Vision Root CA)                               |
| Secure Storage         | SDcard partition encrypt(AES-256)                                       |

## General

|              |                    |                               |
|--------------|--------------------|-------------------------------|
| Memory       | RAM                | 5GB                           |
|              | Flash              | 1280MB                        |
| Edge Storage | Micro SD/SDHC/SDXC | Max. 256GB x 4slot(Total 1TB) |

## Environmental & Electrical

|                               |             |                                         |
|-------------------------------|-------------|-----------------------------------------|
| Operating Condition           | Temperature | -40°C~+55°C(-40°F~+131°F)               |
|                               | Humidity    | 0~90% RH(non-condensing)                |
| Storage Condition             | Temperature | -50°C~+60°C(-58°F~+140°F)               |
|                               | Humidity    | 0~90% RH(non-condensing)                |
| EPA(Effective Projected Area) |             | 0.036㎡                                  |
| Input Voltage                 |             | PoE++(IEEE802.3bt type4, Class8), 12VDC |
| Power Consumption             | PoE         | Max. 42W, Typical 30W                   |
|                               | 12VDC       | Max. 38W, Typical 28.2W                 |

## Mechanical

|          |          |
|----------|----------|
| Color    | White    |
| Material | Aluminum |
| RAL Code | RAL9003  |

## Mechanical

|                         |                                    |
|-------------------------|------------------------------------|
| Product Dimensions      | ø315x145.9mm(12.40x5.74")          |
| Product Weight          | 5,200g(11.5lb)                     |
| Compatible Conduit Hole | 19.1mm(3/4")(M25)                  |
| Compatible Gang Box     | Single, Double, 4" Octagon, Square |

## Certifications & Standards

|             |                                                  |
|-------------|--------------------------------------------------|
| Environment | IEC 60529 IP66, IEC 62262 IK10, NEMA 250 type 4X |
|-------------|--------------------------------------------------|

## DORI (EN62676-4 standard)

|                           |      |                 |
|---------------------------|------|-----------------|
| Detect (25PPM/ 8PPF)      | Wide | 27.4m(89.9ft)   |
|                           | Tele | 128.8m(422.6ft) |
| Observe (63PPM/ 19PPF)    | Wide | 62.5m(35.9ft)   |
|                           | Tele | 51.5m(169.0ft)  |
| Recognize (125PPM/ 38PPF) | Wide | 5.5m(18.0ft)    |
|                           | Tele | 25.8m(84.5ft)   |
| Identify (250PPM/ 76PPF)  | Wide | 2.7m(9.0ft)     |
|                           | Tele | 12.9m(42.3ft)   |

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2MP x 4CH IR PTRZ Multi-directional  
Camera



CAD

Unit: mm [inch]

