



Network

Multi-sensor

# PNM-9084RQZ1

2MP x 4CH IR PTRZ Multi-directional Camera

FC |  | CE | EAC

## 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

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2MP x 4CH IR PTRZ Multi-directional Camera



## Specifications

### Video

|                          |   |
|--------------------------|---|
| <b>Imaging Device</b>    | 1/2.8" CMOS x 4CH   |
| <b>Resolution</b>        | 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| <b>Max. Framerate</b>    | H.265/H.264: Max. 60fps/50fps(60Hz/50Hz)<br>MJPEG: Max. 30fps/25fps(60Hz/50Hz)                                    |
| <b>Min. Illumination</b> | Color: 0.05lux(F1.6,30 IRE)<br>BW: 0Lux(IR LED on)  |

### Lens

|                                  |  |
|----------------------------------|--|
| <b>Focal Length (Zoom Ratio)</b> | 3.2~10mm(3.1x) motorized varifocal   |
| <b>Max. Aperture Ratio</b>       | F1.6(Wide)~F2.9(Tele)  |
| <b>Angular Field of View</b>     | H: 109.0°(Wide)~33.2°(Tele), V: 57.4°(Wide)~18.7°(Tele), D: 132.0°(Wide)~38.0°(Tele) |
| <b>Min. Object Distance</b>      | 0.5m(1.64ft)   |
| <b>Focus Control</b>             | Simple focus   |
| <b>Lens Type</b>                 | DC auto iris   |

### Pan / Tilt / Rotate

|                                  |  |
|----------------------------------|--|
| <b>Pan / Tilt / Rotate Range</b> | Remote adjustment (Max. 200cycles)<br>0~360 / 30~80 / 0~90 |
|----------------------------------|--|

### Operational

|                                    |  |
|------------------------------------|--|
| <b>Camera Title</b>                | Displayed up to 85 characters  |
| <b>Day &amp; Night</b>             | Auto(ICR)  |
| <b>Backlight Compensation</b>      | BLC, HLC, WDR, SSSDR   |
| <b>Wide Dynamic Range</b>          | 120dB  |
| <b>Digital Noise Reduction</b>     | SSNR V   |
| <b>Digital Image Stabilization</b> | Support  |
| <b>Defog</b>                       | Support  |
| <b>Motion Detection</b>            | 8ea, 8point polygonal zones  |
| <b>Privacy Masking</b>             | 32ea, polygonal zones<br>- Color: Grey, Green, Red, Blue, Black, White<br>- Mosaic   |
| <b>Gain Control</b>                | Low / Middle / High  |
| <b>White Balance</b>               | ATW / AWC / Manual / Indoor / Outdoor  |
| <b>LDC</b>                         | Support  |
| <b>Electronic Shutter Speed</b>    | Minimum / Maximum / Anti flicker (2~1/12,000sec)   |
| <b>Video Rotation</b>              | Flip, Mirror   |
| <b>Analytics</b>                   | Defocus detection, Directional detection, Fog detection, Face detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection |
| <b>Alarm I/O</b>                   | Input 1ea / Output 1ea   |
| <b>Alarm Triggers</b>              | Analytics, Network disconnect, Alarm input   |
| <b>Alarm Events</b>                | File upload via FTP and e-mail<br>Notification via e-mail<br>SD/SDHC/SDXC at event triggers<br>Alarm output<br>Handover  |

|                           |  |
|---------------------------|--|
| <b>Audio In</b>           | Selectable(mic in/line in)<br>Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm |
| <b>Audio Out</b>          | Line out, Max.output level: 1Vrms  |
| <b>IR Viewable Length</b> | 30m(98.43ft)   |

## Network

|  |   |
|--|---|
| <b>Ethernet</b>                          | Metal shielded RJ-45(10/100/1000BASE-T)   |
| <b>Video Compression</b>                 | H.265/H.264: Main/Baseline/High, MJPEG  |
| <b>Audio Compression</b>                 | G.711 u-law /G.726<br>G.726(ADPCM) 8KHz, G.711 8KHz<br>G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps<br>AAC-LC: 48Kbps at 16KHz   |
| <b>Smart Codec</b>                       | Manual(5ea area), WiseStream II   |
| <b>Bitrate Control</b>                   | H.264/H.265: CBR or VBR<br>MJPEG: VBR   |
| <b>Streaming</b>                         | Unicast(20 users) / Multicast<br>Multiple streaming(Up to 10 profiles)  |
| <b>Protocol</b>                          | 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, PIM-SM, UPnP, Bonjour, LLDP           |
| <b>Security</b>                          | HTTPS(SSL) Login Authentication<br>Digest Login Authentication<br>IP Address Filtering<br>User access log<br>802.1X Authentication(EAP-TLS, EAP-LEAP)<br>Device Certificate(Hanwha Techwin Root CA) |
| <b>Application Programming Interface</b> | ONVIF Profile S/T<br>SUNAPI(HTTP API)<br>Wisenet open platform  |

## General

|                         |  |
|-------------------------|--|
| <b>Webpage Language</b> | English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish,, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek |
| <b>Edge Storage</b>     | Micro SD/SDHC/SDXC 4slot 256GB(each CH)  |
| <b>Memory</b>           | 5GB RAM, 1280MB Flash  |

## Environmental & Electrical

|   |  |
|---|--|
| <b>Operating Temperature / Humidity</b> | -40°C~+55°C(-40°F~+131°F) / Less than 90% RH                     |
| <b>Storage Temperature / Humidity</b>   | -50°C~+60°C(-58°F~+140°F) / Less than 90% RH                     |
| <b>Certification</b>                    | IP66, IK10, NEMA4X   |
| <b>Input Voltage</b>                    | HPoE(IEEE802.3bt, Class6, Type3, Injector included), 12VDC       |
| <b>Power Consumption</b>                | PoE: Max. 42 W, Typical 30 W<br>12VDC: Max. 38 W, Typical 28.2 W |

## Mechanical

|  |  |
|--|--|
| <b>Color / Material</b>                  | White / Aluminum                             |
| <b>RAL Code</b>                          | RAL9003                                      |
| <b>Product Dimensions / Weight</b>       | Ø315x145.9 mm(12.40"x5.74") / 5.2 kg(11.5lb) |
| <b>Compatible Conduit hole / Gangbox</b> | 3/4"   |

## DORI (EN62676-4 standard)

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

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CAD

Unit: mm [inch]

