



Network

# PNM-9085RQZ1

5MP x 4CH IR PTRZ Multi-directional Camera



## Key Features

- Motorized PTRZ support
- Maximum 30fps@5MP(H.265, H.264)
- 4.13~9.4mm(2.3x) 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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## Specifications

### Video

Imaging Device	Size	1/1.8"
	Type	CMOS
Resolution	2560x1920, 2560x1440, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240	
Max. Framerate	H.265/H.264	30fps/25fps(60Hz/50Hz)
	MJPEG	30fps
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.11
	BW(1/30sec, 30IRE)	0.011

### Lens

Focal Length (mm)	4.13-9.4	
Zoom Ratio	Optical	2.3x
Max Aperture Ratio (F number)	Wide	1.92
	Tele	2.67
Angular Field of View	Horizontal	88°~37°
	Vertical	65°~28°
	Diagonal	113°~46°
Min. Object Distance	1.2m(3.94ft)	
Focus Control	Simple focus	
Lens Type	DC auto iris(IR corrected)	

### Pan / Tilt / Rotate

Pan / Tilt / Rotate Range	Pan	0°~360°
	Tilt	35°~80°
	Rotate	0°~90°
	Others	Remote adjustment(Max. 200cycles)

### Operational

Day & Night	Auto(ICR)
Backlight Compensation	BLC, HLC, WDR, SDR

## 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	4point Quadrangle 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
Digital PTZ		Support
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, Notification: e-mail, Recording: SD/SDHC/SDXC or NAS recording at event triggers,Alarm output, 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)
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## 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, G.726: 16kbps,24kbps,32kbps,40kbps, AAC-LC: 48kbps at 16kHz
Smart Codec	Manual, WiseStream II

## Network

<b>Bitrate Control</b>		H.265/H.264: CBR or VBR, MJPEG: VBR
<b>Streaming</b>	Unicast	Up to 20 users
	Multicast	Support
	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, UPnP, Bonjour, LLDP, CDP, PIM-SM
<b>Application Programming Interface</b>	ONVIF	S, T
	Others	SUNAPI(HTTP API), Hanwha Vision Open Platform
<b>Direct Cloud Connection</b>		Optional (needs gateway)

## Security

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

## General

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

## Environmental & Electrical

<b>Operating Condition</b>	Temperature	-40°C~+55°C(-40°F~+131°F)
	Humidity	0~90% RH(non-condensing)
<b>Storage Condition</b>	Temperature	-50°C~+60°C(-58°F~+140°F)
	Humidity	0~90% RH(non-condensing)
<b>EPA(Effective Projected Area)</b>		0.036m <sup>2</sup>
<b>Input Voltage</b>		HPoE(IEEE802.3bt type4, Class8), 12VDC
<b>Power Consumption</b>	PoE	Max. 45W, Typical 33.7W
	12VDC	Max. 42W, Typical 32W

## Mechanical

<b>Color</b>	White
<b>Material</b>	Aluminum

### Mechanical

RAL Code	RAL9003
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
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### DORI (EN62676-4 standard)

Detect (25PPM/ 8PPF)	Wide	53.4m(175.2ft)
	Tele	151.5m(497.1ft)
Observe (63PPM/ 19PPF)	Wide	21.4m(70.1ft)
	Tele	60.6m(198.9ft)
Recognize (125PPM/ 38PPF)	Wide	10.7m(35.0ft)
	Tele	30.3m(99.4ft)
Identify (250PPM/ 76PPF)	Wide	5.3m(17.5ft)
	Tele	15.2m(49.7ft)

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## CAD

Unit: mm [inch]

