Hanwha Vision



Network

PNM-9084QZ1

8MP (2MP x 4) Multi-Sensor, Multi-Directional PTRZ Camera

Key Features

- Maximum 8MP @ 60fps, 2MP X 4 sensors using one IP address
- Motorized vari-focal 3.0~ 6mm (FOV: 107° ~ 56.3°)
- Motorized PTRZ function allows for simple adjustment of camera positioning remotely, ideal for difficult to reach locations. Easily adjust Pan around the track, Tilt, rotation, zoom, & focus.
- Full 90° "look down" tilt capability
- Triple codec: H.265, H.264 and MJPEG multiple streaming
- WiseStream II compression technology
- WDR 120dB @ 2MP @ 60fps
- Loitering, directional detection, fog detection, tampering, motion detection, object enter or exit an area
- Hallway view
- 4x microSD/SDHC/SDXC Memory Card slots, one for each channel
- Alarm I/O, Audio I/O
- Power: HPoE (IEEE802.3bt), injector included
- IP66, IK10, NEMA4X
- Easy Gangbox mounting installation

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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)	0.04
	BW(1/30sec, 30IRE)	0.004

Lens

Focal Length (mm)		3~6
Zoom Ratio	Optical	2x
Max Aperture Ratio (F number)	Wide	2.2
	Tele	3.1
Angular Field of View	Horizontal	107°~56°
	Vertical	57°~31°
	Diagonal	126°~64°
Min. Object Distance		0.5m(1.64ft)
Focus Control		Simple focus
Lens Type		Fixed iris

Pan / Tilt / Rotate

Pan / Tilt / Rotate Range	Pan	0°~360°
	Tilt	0°~73°
	Rotate	0°~90°
	Others	Remote adjustment(Max. 200cycles)

Operational

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

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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
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

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, G.726: 16kbps,24kbps,32kbps,40kbps, AAC-LC: 48kbps at 16kHz
Smart Codec		Manual, WiseStream II
Bitrate Control		H.265/H.264: CBR or VBR, MJPEG: VBR
Streaming	Unicast	Up to 20 users
	Multicast	Support
	Multiple Streaming	Up to 10 profiles

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Network

Protocol		IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMPv2, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP
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)

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)
	Others	Start up should be done at above -35°C
Storage Condition	Temperature	-50°C~+60°C(-58°F~+140°F)
	Humidity	0~90% RH(non-condensing)
Input Voltage		PoE++(IEEE802.3bt type4, Class8)
Power Consumption	PoE	Max. 33W, typical 20W

Mechanical

Color	White
Material	Aluminum
RAL Code	RAL9003
Product Dimensions	ø251x116.5mm(9.88x4.59")
Product Weight	3,000g(6.61lb)
Compatible Conduit Hole	19.1mm(3/4")(M25)
Compatible Gang Box	Single, Double, 4" Octagon, Square

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Certifications & Standards

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

DORI (EN62676-4 standard)

Detect (25PPM/ 8PPF)	Wide	28.4m(11.18ft)
	Tele	71.8m(28.27ft)
Observe (63PPM/ 19PPF)	Wide	11.4m(4.49ft)
	Tele	28.7m(11.30ft)
Recognize (125PPM/ 38PPF)	Wide	5.7m(2.24ft)
	Tele	14.4m(5.67ft)
Identify (250PPM/ 76PPF)	Wide	2.8m(1.10ft)
	Tele	7.8m(3.07ft)

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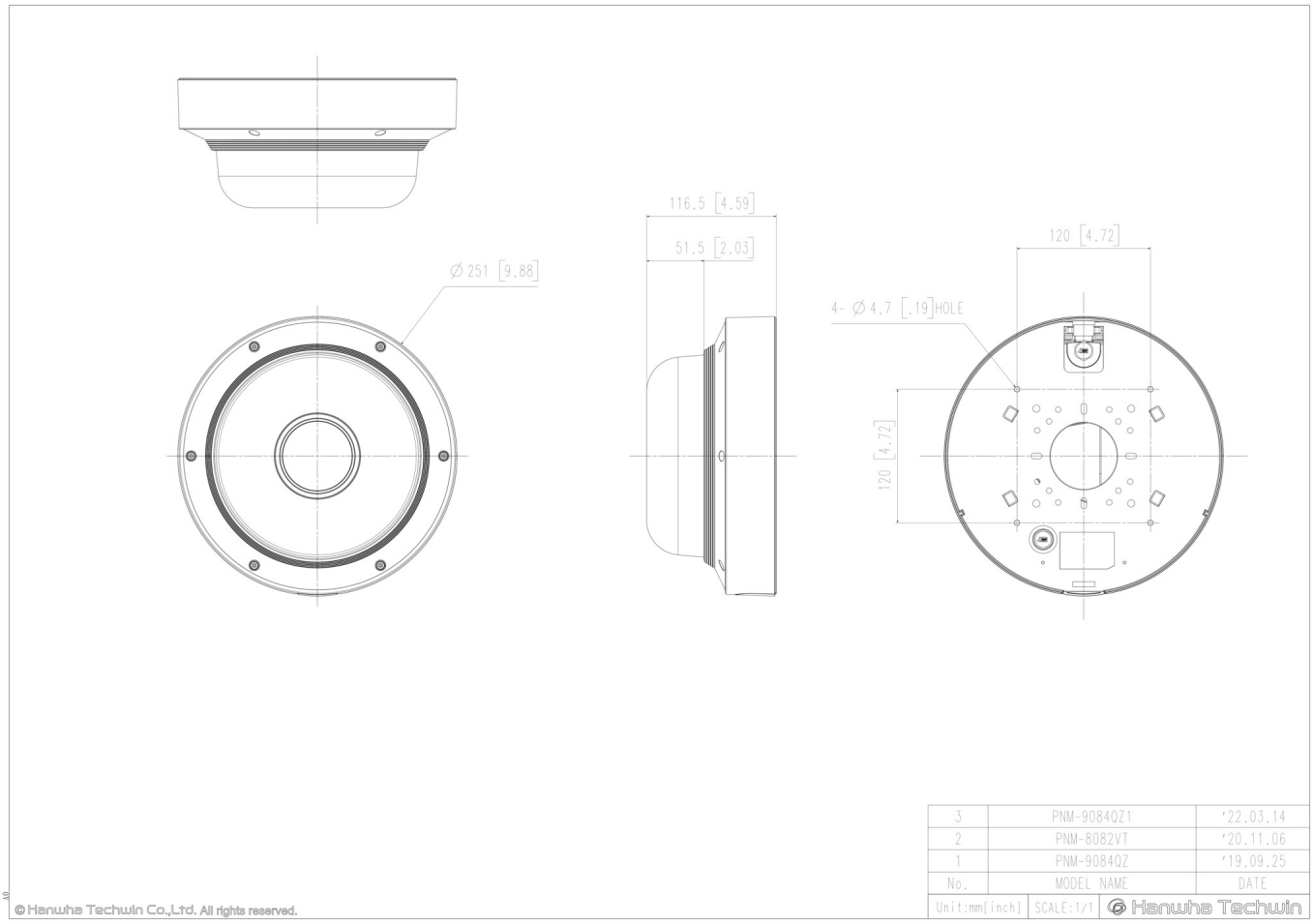
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CAD

Unit: mm [inch]



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