

## PNM-9320VQP

10MP to 22MP Multi-directional  
+ PTZ Network Camera



### Key Features

#### Multi-directional camera

- Exchangeable 4ea x 2MP / 5MP lens modules  
10MP to 22MP resolution depend on the combination of lens modules
- WDR 150dB with 2MP lens module, 120dB with 5MP lens module
- 2.4mm, 2.8mm, 3.6mm, 6mm, 12mm fixed lens (2M module)
- 3.7mm, 4.6mm, 7mm fixed lens (5M module)

#### PTZ camera

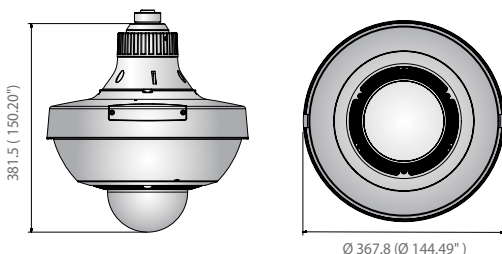
- Max. 2MP (1920 x 1080) resolution
- 4.44~142.6mm (Optical 32x) lens
- WDR 150dB, Day & Night (ICR)

#### Common

- Max. 60fps@2M, Max. 30fps@5M (H.265 / H.264)
- H.265, H.264, MJPEG codec support
- Video Analytics, WiseStreamII support
- SD / SDHC / SDXC memory 5 slots

### Dimensions

Unit:mm(inch)



### Accessories (Optional)



	Multi-directional (CH 1 ~ 4)	PTZ (CH 5)	
<b>VIDEO</b>	Imaging Device	(See the optional lens)	1/2.8" 2.4M CMOS
	Total / Effective Pixels	(See the optional lens)	1,981(H) x 1,288(V), 2.55M / 1,944(H) x 1,212(V), 2.35M
	Scanning System	(See the optional lens)	Progressive scan
	Min. Illumination	(See the optional lens)	Colour: 0.05Lux (F1.6), B/W: 0.005Lux (F1.6)
	S / N Ratio	(See the optional lens)	50dB
	Video Out	CVBS : 1.0 Vp-p / 75Ω composite, 720x480(N), 720 x 576(P), for installation	-
<b>LENS</b>	Focal Length (Zoom Ratio)	(See the optional lens)	4.44 ~ 142.6mm(Optical 32x)
	Max. Aperture Ratio	(See the optional lens)	F1.6(Wide)~F4.4(Tele)
	Angular Field of View	(See the optional lens)	H : 61.8°(Wide)~2.19°(Tele) / V : 36.2°(Wide)~1.24°(Tele)
	Min. Object Distance	(See the optional lens)	Wide : 1.5m, Tele : 2m
	Focus Control	(See the optional lens)	Auto / Manual / One shot AF
	Lens / Mount Type	(See the optional lens)	DC Auto Iris / Board-in type
<b>PAN/TILT/ROTATE</b>	Pan / Tilt / Rotate Range	(See the optional lens)	360° Endless / 210° (-15°~195°)
	Pan / Tilt Speed	-	Preset : 700°/ sec, Manual : 0.024°/ sec ~ 200°/ sec
	Sequence	-	Preset (300ea), Swing, Group (6ea), Trace, Tour, Auto run, Schedule
	Preset Accuracy	-	±2°
	Auto tracking	-	On / Off
<b>OPERATIONAL</b>	Camera Title	Off / On (Displayed up to 85 characters) - W/W : English / Numeric / Special characters - China : English / Numeric / Special / Chinese characters - Common : Multi-line (Max. 5), Color (Grey / Green / Red / Blue / Black / White), Transparency, Auto scale by resolution	
	Day & Night	Electrical	Auto (ICR) / Color / B/W / Schedule
	Backlight Compensation	Off / BLC / HLC (Masking / Dimming) / WDR	
	Wide Dynamic Range	150dB (SLA-2M), 120dB (SLA-5M)	150dB
	Contrast Enhancement	SSDR (On / Off)	
	Digital Noise Reduction	SSNR5 (2D + 3D noise filter) (On / Off)	
	Digital Image Stabilization	On / Off	On / Off (Built-in gyro sensor)
	Defog	Off / Auto / Manual	
	Motion Detection	On / Off (8ea, 8point polygonal zones), Hand over	
	Privacy Masking	On / Off (32ea, polygonal zones) - Color : Grey / Green / Red / Blue / Black / White - Mosaic	
	Gain Control	Off / Low / Middle / High	
	White Balance	ATW / AWC / Manual / Indoor / Outdoor (Included Mercury & Sodium)	
	Contrast	Level adjustment	
	LDC	On / Off (5 levels with Min / Max)	-
	Electronic Shutter Speed	Minimum / Maximum / Anti flicker (2 ~ 1 / 12,000sec)	
Digital Zoom	24x (Digital)	32x	
Flip / Mirror	On / Off, Hallway view : 90° / 270°	On / Off	
Video Analytics	Tampering, Loitering, Directional detection, Fog detection, Virtual line, Enter/Exit, Appear/Disappear, Face detection, Motion detection, Defocus detection (Multi-directional camera)		

	Multi-directional (CH 1 ~ 4)	PTZ (CH 5)
<b>OPERATIONAL</b>	Alarm I / O	Input 1ea / Output 2ea (Relay type)
	Alarm Triggers	Motion detection, Video analytics, Network disconnect
	Alarm Events	File upload via FTP, E-Mail, Notification via E-Mail, Local storage(SD/SDHC/SDXC) recording at event triggers, External output
	Pixel Counter	Support
<b>NETWORK</b>	Ethernet	RJ-45 (10 / 100 / 1000 BASE-T)
	SFP	SFP slot (100 / 1000Mbps)
	Video Compression Format	H.265 / H.264 (MPEG-4 Part 10 / AVC) : Main / Baseline / High, Motion JPEG
	Resolution	[5MP] 2560 x 1920, 2560 x 1440, 1920 x 1080, 1600 x 1200, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 320 x 240 [2MP] 1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 640 x 360, 320 x 240
	Max. Framerate	H.265 / H.264 : 2M Max. 60fps, 5M 30fps at all resolutions Motion JPEG : Max. 30fps
	Smart Codec	Manual Mode (Area-based : 5ea)
	WiseStreamII	Support
	Video Quality Adjustment	H.264 / H.265 / MJPEG : Target bitrate level control
	Bitrate Control Method	H.264 / H.265 : CBR or VBR MJPEG : VBR
	Streaming Capability	Multiple streaming (Up to 10 profiles)
	IP	IPv4, IPv6
	Protocol	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
	Security	HTTPS(SSL) login authentication, Digest login authentication, IP address filtering, User access log, 802.1X Authentication (EAP-TLS, EAP-LEAP)
	Streaming Method	Unicast / Multicast
	Max. User Access	20 users at Unicast mode
	Edge Storage	SD / SDHC / SDXC 5slot (Each CH) - Motion Images recorded in the SD / SDHC / SDXC memory card can be downloaded. - Local PC for instant recording
	Application Programming Interface	ONVIF Profile S, SUNAPI (HTTP API)
	Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
	Web Viewer	Supported OS : Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12 Supported browser : Google Chrome 67, MS Edge 41, Mozilla Firefox 61 (Windows 64bit only), Apple Safari 11 (Mac OS X only), MS Explorer 11
	Central Management Software	Wave-Software, SSM, SmartViewer, Wisenet mobile APP (Android / iOS)
<b>ENVIRONMENTAL</b>	Operating Temperature / Humidity	-35°C ~ +55°C (-31°F ~ +131°F) / Less than 90% RH
	Storage Temperature / Humidity	-50°C ~ +60°C (-58°F ~ +140°F) / Less than 90% RH
	Ingress Protection / Vandal Resistance	IP66 / IK10
<b>ELECTRICAL</b>	Input Voltage / Current	HPoE
	Power Consumption	Max. 65W
<b>MECHANICAL</b>	Optional Lens	SLA-2M2400P / SLA-2M2800P / SLA-2M3600P / SLA-2M6000P / SLA-2M1200P / SLA-5M3700P / SLA-5M4600P / SLA-5M7000P
	Color / Material	Ivory / Metal
	Dimension (W x H x D)	Ø 367.8 x 381.5mm (Ø 144.49" x 150.20")
	Weight	7.05 kg (16.1 lb)

\*The latest product information / specification can be found at [hanwha-security.com](http://hanwha-security.com)

\* Design and specifications are subject to change without notice.

\* Wisenet is the proprietary brand of **Hanwha Techwin**, formerly known as Samsung Techwin.