



# WISENET P series

## Multi-sensor PTRZ cameras



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### Cover wide areas with one camera

Wisenet P series multi-sensor cameras are equipped with multiple sensors, allowing them to effectively monitor wide areas with just a single device.

- ✓ Multi-directional cameras can simultaneously monitor multiple directions without any blind spots.

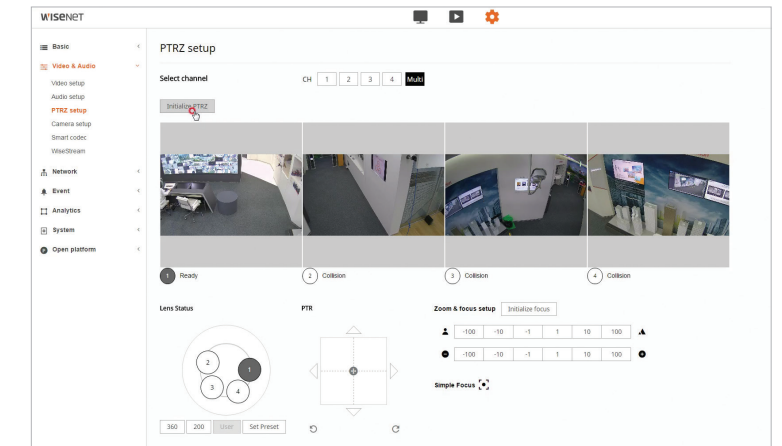
By installing Wisenet multi-sensor cameras, the cost of system installation and maintenance is reduced while successfully monitoring wide areas.

### Remote motorized PTRZ control for easy installation

The PNM-9084QZ has become more compact and lighter to make installation a lot easier even on a ladder. The PNM-9084RQZ, PNM-9085RQZ and PNM-9084QZ support remote PTRZ (Pan, tilt, rotate and zoom) setup, saving installers time and effort of making adjustments on a ladder to change the setting.



PTRZ (Pan, Tilt, Rotate and Zoom)



PTRZ set up on Wisenet webviewer

### Multi-directional Camera

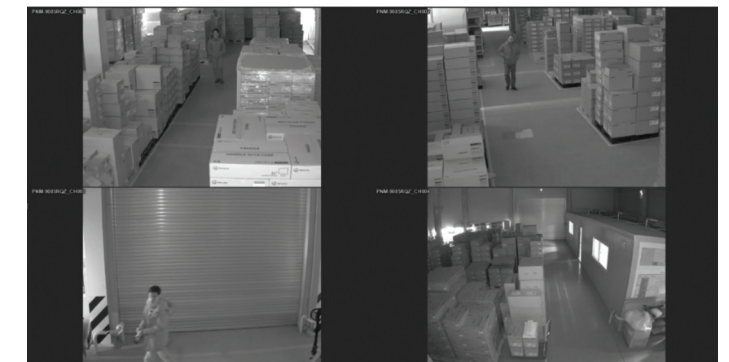


### Built-in IR illuminator for monitoring in low light environment

The PNM-9084RQZ/9085RQZ has built-in IR illuminator to each of the four lenses. Each lens and its IR illuminator move together when users control the lenses, producing clear images up to 30 meters even in low-light environments.



built-in IR illuminator



Actual footage of PNM-9085RQZ

## Natural and clearer image

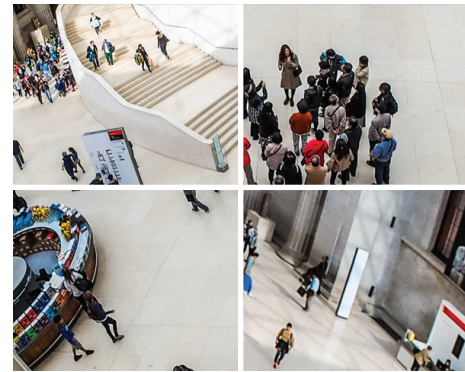
When using a fisheye camera, it brings low image quality and image distortion at each edge of the image. However, the Multidirectional camera with 4 sensors brings almost non image distortion and shows clearer image at each edge of the image.



Fisheye Camera



Low image quality and image distortion at the edges.



Multi-directional Camera

Clearer image and almost non distortion at the edges.

## Improve bandwidth by up to 99% using WiseStream II

When Hanwha Techwin's original video compression technology WiseStream II is combined with H.265 compression, the bitrate data is reduced by up to 99% compared to current H.264 technology. The costs of configuring and maintaining the system are also greatly reduced, while still maintaining the same pixels and high quality.



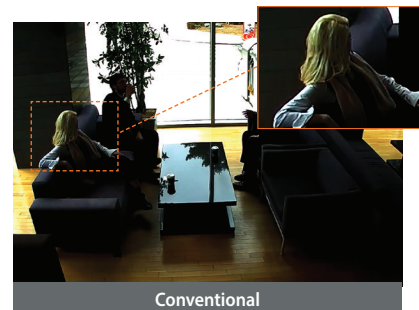
WiseStream II OFF : 7160kbps  
WiseStream II ON : 74kbps



WiseStream II OFF : 7260kbps  
WiseStream II ON : 1817kbps

## True WDR performance

Even with backlight, Wisenet's cutting-edge WDR technology addresses a limitation found in conventional WDR cameras while producing clear and vivid images. WDR improves the accuracy of an image by resolving the difference in brightness.



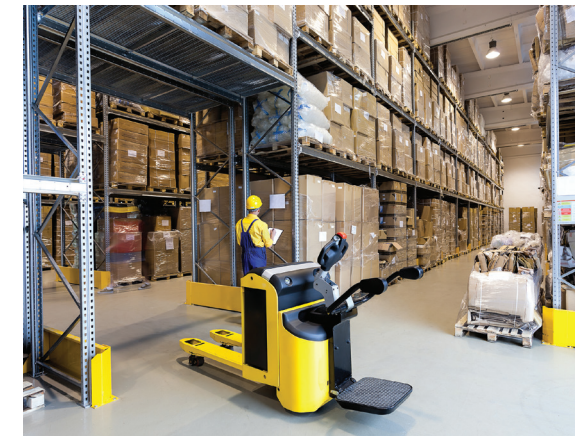
Conventional



WDR

## Optimized for indoor and outdoor environments

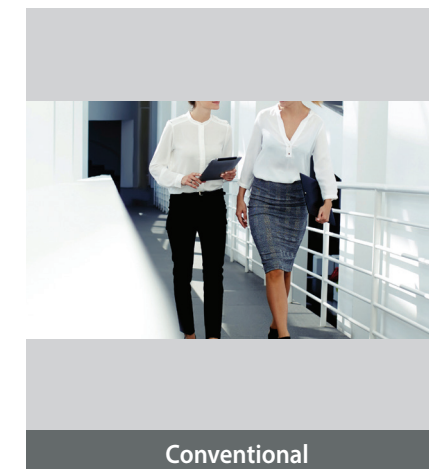
Wisenet P series panoramic and multi-directional cameras are suitable to monitor even the smallest details in a wide area. They are ideal for applications such as warehouse, shopping mall entrances, train stations, parking lots, and more supporting IP66, IK10.



- Warehouse
- City Surveillance
- Parking lot
- Square
- Crossroads
- Mall entrance
- Airport
- Stadium
- Distribution center
- Train station

## Hallway view for monitoring vertical shaped areas

In a vertical shaped environment, such as corridors, hallways, tunnels, or aisles, traditional horizontal shaped videos focus on unnecessary edges of the area causing bandwidth and storage waste. The Hallway view, 3 : 4 and 9 : 16 aspect ratio image is created : a vertically oriented video that maximizes image quality in narrow locations.



Conventional



Hallway View

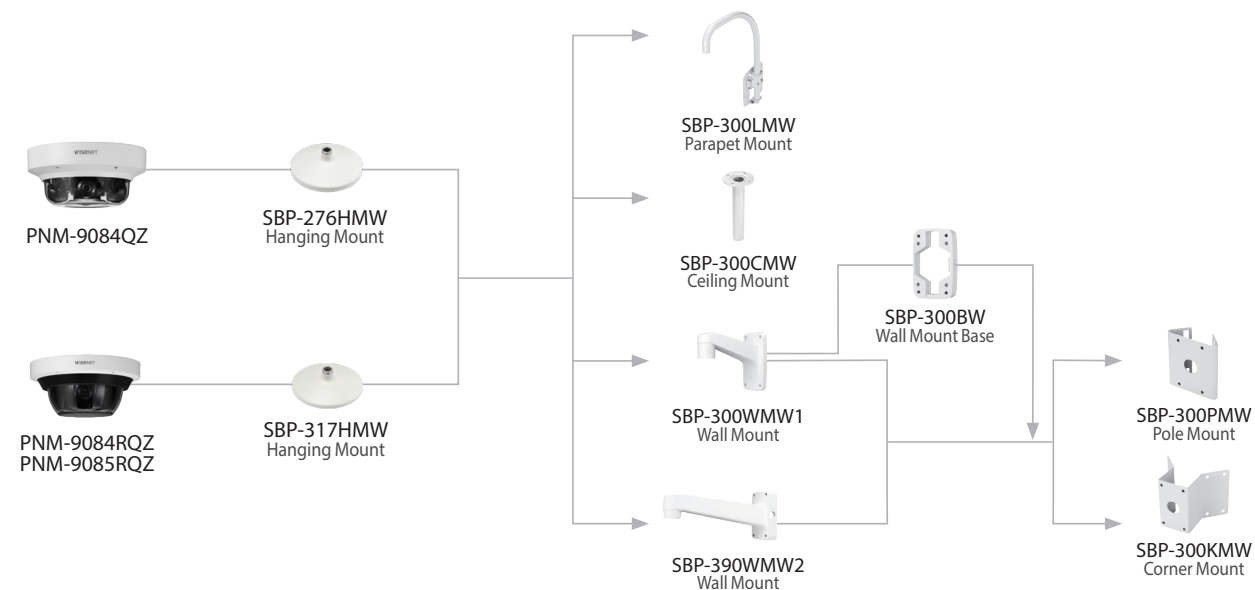
# A comprehensive range of intelligent video/audio analytics

Wisenet P series multi-sensor cameras support a variety of exclusive video and audio analytics, providing enhanced monitoring solutions and market intelligence.






\*Supported analytics may vary depending on the product.

## Accessory configuration



## Product Comparison

	 <b>PNM-9084QZ</b> 8MP Multi-directional Camera	 <b>PNM-9084RQZ</b> 8MP IR PTRZ Multi-directional Camera	 <b>PNM-9085RQZ</b> 20MP IR PTRZ Multi-directional Camera
Imaging Device	1/2.8" 2MP x 4CH	1/2.8" 2MP x 4CH	1/1.8" 5MP x 4CH
Min. Illumination	Color : 0.08lux(F2.2) BW : 0.008lux(F2.2)	Color : 0.05lux(F1.6) BW : 0Lux(IR LED on)	Color : 0.11lux(F1.6) BW : 0Lux(IR LED on)
Focal Length	3 ~ 6mm (2x) motorized varifocal	3.2~10mm(3.1x) motorized varifocal	4.13~9.4mm(2.3x) motorized varifocal
Angular Field of View	H : 107° (Wide) ~ 56.3° (Tele) / V : 57° (Wide) ~ 31.5° (Tele) / D : 126° (Wide) ~ 64.3° (Tele)	H : 109.0°(Wide)~33.2°(Tele) / V : 57.4°(Wide)~18.7°(Tele) / D : 132.0°(Wide)~38.0°(Tele)	H : 87.58°(Wide)~37.34°(Tele) / V : 64.58°(Wide)~28.04°(Tele) / D : 112.46°(Wide)~46.85°(Tele)
Pan / Tilt / Rotate	0° ~ 360° / 0° ~ 90° / 0° ~ 90°	0~360° / 30~80° / 0~90°	0~360° / 35~80° / 0~90°
IR Viewable Length	-	30m(98.42ft)	30m(98.42ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support	Support	Support
Analytics	Intelligent analytics Audio detection	Intelligent analytics Audio detection	Intelligent analytics Audio detection
Alarm I/O	1 / 1	1 / 1	1 / 1
Audio I/O	Selectable(mic in/line in) / Line out	Selectable(mic in/line in) / Line out	Selectable(mic in/line in) / Line out
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 60fps	2MP / 60fps	5MP / 30fps
WiseStream	WiseStream II	WiseStream II	WiseStream II
Streaming	Up to 10 profiles	Up to 10 profiles	Up to 10 profiles
Edge Storage	Micro SD/SDHC/SDXC	Micro SD/SDHC/SDXC	Micro SD/SDHC/SDXC
Application Programming Interface	ONVIF profile S/T, SUNAPI, Wisenet Open Platform	ONVIF profile S/T, SUNAPI, Wisenet Open Platform	ONVIF profile S/T, SUNAPI, Wisenet Open Platform
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F) * Start up above -35°C (-31°F)	-40°C ~ +55°C (-40°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F)
Certification	IP66, IK10, NEMA4X	IP66, IK10, NEMA4X	IP66, IK10, NEMA4X
Power Consumption	HPoE : Max 33W typical 20W	HPoE : Max 42W typical 28W	HPoE : Max 45W typical 32W
Dimensions (WxHxD) / Weight	Ø251 x 116.5mm (Ø9.88" x 4.59") 3Kg (6.6 lb)	Ø315x145.9mm (12.4" x 5.74") 5.2Kg (11.46lb)	Ø315 x 145.9mm (12.4" x 5.74") 5.2Kg (11.46 lb)
Additional Features	Motorized PTRZ, Hallway view, Defog	Motorized PTRZ, Hallway view, Defog	Motorized PTRZ, Hallway view, Defog

For more information visit us at

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