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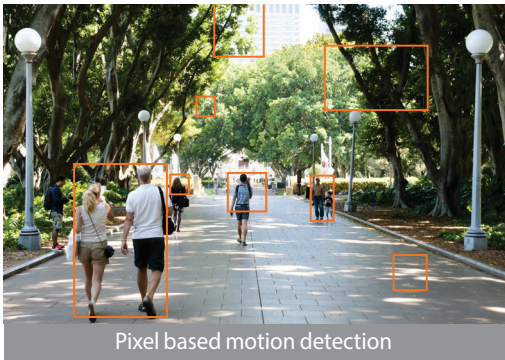


WISeNET P_{series} AI Cameras



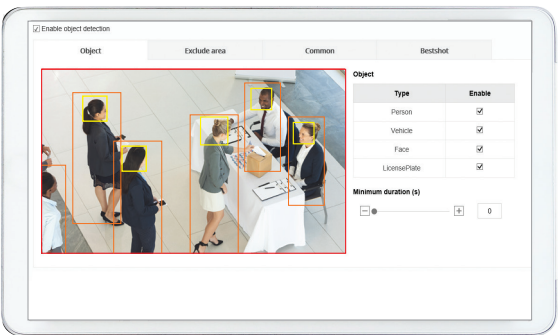
Increase event monitoring accuracy and operational efficiency by reducing false alarms

The never-ending rush of urban living translates into constant waves of people and vehicles surging through city streets at all hours. As the number of surveillance cameras grows along with the cities, an operator may be presented with too much information to handle, as conventional cameras equipped with motion-based detection generate too many event alarms. With operators under great strain to verify each one, there could be delays in response times. Now, AI algorithms built into Wisenet P series AI cameras are able to dramatically help improve operator efficiency.



Classify Target Objects with Attributes

Wisenet P series AI cameras differentiates what it sees into broad categories such as 'Person', 'Face', 'Vehicle' and 'licence plate'. Delving deeper, Wisenet AI algorithms are quickly and accurately able to identify the different attributes of the objects within the camera's field of view. For example, the camera sees a person and immediately detects the color of clothing. It is also intelligent enough to distinguish whether the person is wearing glasses or holding a bag. These attributes are then saved as metadata alongside the captured footage.



Wisenet Webviewer



Faster forensic data search with bandwidth control

BestShots for objects, Metadata for attributes, minimizing storage and bandwidth requirements

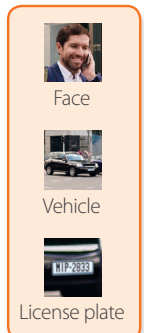
Wisenet P series AI cameras are equipped with a BestShot feature which ensures that only the most suitable images of classified objects are sent to the storage server. Each image can be up to cropped 4K quality, along with tagged attributes metadata. Users have the option to set the image resolution at 2MP for full video streaming or use the BestShot feature to minimize bandwidth and storage requirements.



Person detection



BestShot (JPEG image)



※ Target of Bestshot

WiseStream II , optimized bandwidth solution

One of the primary issues of earlier generation AI cameras is bandwidth. In addition to BestShot, Wisenet P series AI cameras also utilize WiseStream II, **Hanwha Techwin's** complementary video compression technology which, when it is combined with H.265 technology, improves bandwidth efficiency by up to 75% compared to current H.264 technology, and without compromising image quality.



WiseStream II OFF : 7160kbps
WiseStream II ON : 1787kbps



WiseStream II OFF : 7260kbps
WiseStream II ON : 2901kbps

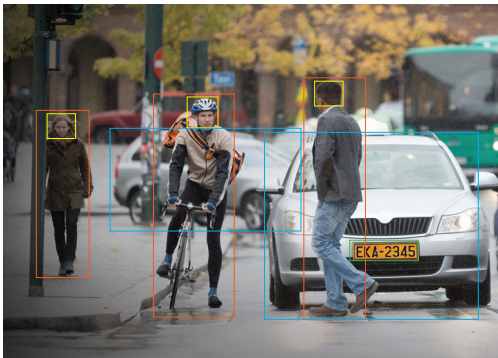
Helping with intelligent management, as well as security

Wisenet SSM, the best partner for AI smart search

Wisenet P series AI cameras are fully supported by Wisenet SSM Video Management Software (VMS), enabling operators to quickly forensically search for specific events or for objects with defined attributes, by filtering the recorded metadata.

Wisenet AI Camera

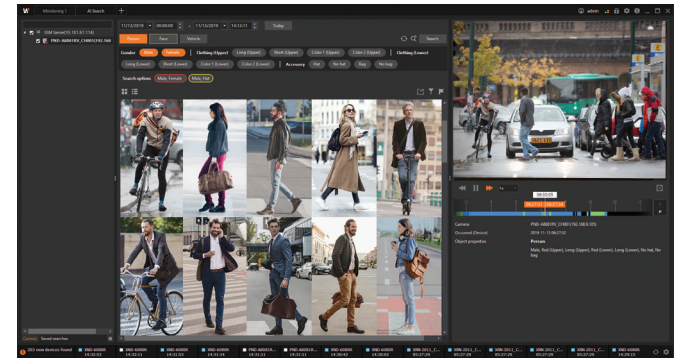
Detect and classify objects real-time



* Person, face, vehicle, license plate

Wisenet SSM AI Search

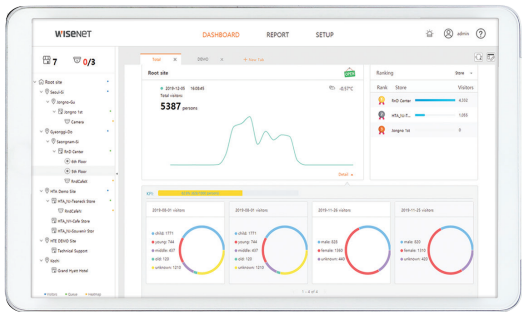
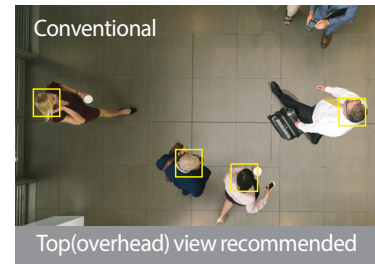
Quickly search based on attributes



Attributes,
BestShot

Retail Insight v2.0, analyzing customer demographics

Store operators are able to combine Wisenet P series AI cameras with the Retail Insight v2.0 business intelligence application, to granularly look at what is happening within their stores, with the cameras using attribution identification to help track customer demographics, age and gender.



Wisenet Retail Insight v2.0

Clear and Sharp Image Quality

Enhanced WDR

The enhanced WDR technology(line by line type) built into the Wisenet P series AI cameras helps produce clear images from scenes containing a challenging mix of bright and dark areas and reduces the ghost effect which can occur with conventional multi-frame WDR.



Digital PTZ

Wisenet P series AI cameras support 2 channel streaming. Channel 1 can be used for full screen video display with channel 2 simultaneously streaming the digital PTZ auto tracking of an object.



Digital auto tracking of a person

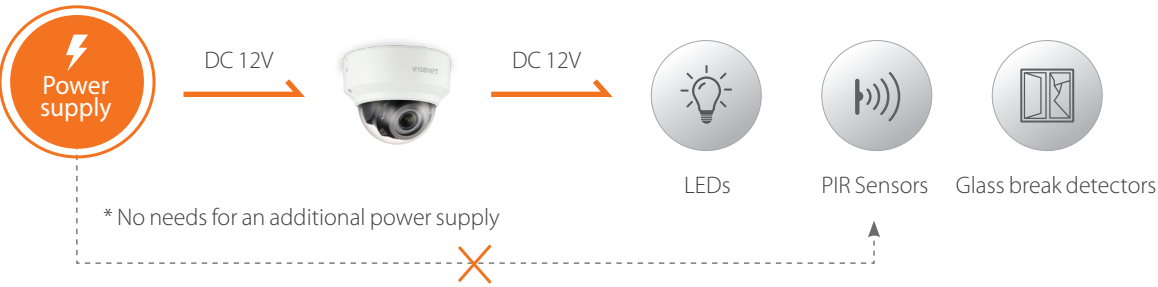
Easy installation with modular structure

The cameras designed to significantly reduce the time normally needed for installation, set-up and maintenance adjustments. With a four-part magnetic modular design which simplifies the installation process, Wisenet P series AI cameras are equipped with a number of other practical features which help minimize the time installers have to spend on site.



DC output for connected devices

Wisenet P series AI cameras come with a 12V DC power supply with maximum 50mA to enable connection of sensor devices, eliminating the need for additional power supply. They also have alarm in/out ports so that connected devices such as LEDs can be activated when a camera detects (classifies) a person.



* Example of operation scenario



Digital Image Stabilization(DIS)with built-in gyro sensor

Advances in Wisenet image stabilisation technology allow for the reduction of motion blur caused by wind or vibration. A gyroscopic sensor plus DIS technology is specifically designed and engineered into select Wisenet P series AI cameras, resulting in sharp, stable images.



	PNO-A9081R 4K AI IR Bullet Camera	PNV-A9081R 4K AI IR Vandal Dome Camera	PND-A9081RV 4K AI IR Dome Camera
Imaging Device	1/1.8" 8MP CMOS	1/1.8" 8MP CMOS	1/1.8" 8MP CMOS
Min. Illumination	Color : 0.05Lux(F1.6) BW : 0Lux(IR LED on)	Color : 0.05Lux(F1.6) BW : 0Lux(IR LED on)	Color : 0.05Lux(F1.6) BW : 0Lux(IR LED on)
Video Output	CVBS : 1.0 Vp-p	CVB S: 1.0 Vp-p	CVBS : 1.0 Vp-p
Focal Length	4.5~10mm(2.2x) motorized varifocal	4.5~10mm(2.2x) motorized varifocal	4.5~10mm(2.2x) motorized varifocal
Angular Field of View	H: 101.4°(Wide)~45.5°(Tele) / V: 53.6°(Wide)~25.5°(Tele) / D: 120.7°(Wide)~52.3°(Tele)	H: 101.4°(Wide)~45.5°(Tele) / V: 53.6°(Wide)~25.5°(Tele) / D: 120.7°(Wide)~52.3°(Tele)	H: 101.4°(Wide)~45.5°(Tele) / V: 53.6°(Wide)~25.5°(Tele) / D: 120.7°(Wide)~52.3°(Tele)
Pan / Tilt / Rotate	-	0°~360° / -45°~85° / 0°~355°	0°~360° / -45°~85° / 0°~355°
IR Viewable Length	30m(98.42ft)	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(built-in gyro sensor)	Support(built-in gyro sensor)	Support(built-in gyro sensor)
Analytics	Object detection (Person/Vehicle/Face/License plate), Audio detection, Sound classification	Object detection (Person/Vehicle/Face/License plate), Audio detection, Sound classification	Object detection (Person/Vehicle/Face/License plate), Audio detection, Sound classification
Business Intelligence	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap
Alarm I/O	1 / 1	1 / 1	1 / 1
Audio I/O	Line in / Line out	Line in / Line out	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	8MP/30fps	8MP/30fps	8MP/30fps
WiseStream	WiseStream II	WiseStream II	WiseStream II
Streaming	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles
Edge Storage	Micro SD/SDHC/SDXC	Micro SD/SDHC/SDXC	Micro SD/SDHC/SDXC
Application Programming Interface	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F) * Start up above -30°C	-40°C ~ +55°C (-40°F ~ +131°F) -40°C ~ +60°C (-13°F ~ +140°F) * Start up above -30°C	-25°C ~ +50°C (-13°F ~ +122°F) / IR LED on -25°C ~ +55°C (-13°F ~ +131°F) / IR LED off
Certification	IP66/IP67, IK10, NEMA4X	IP66/IP67/IP6K9K, IK10+, NEMA4X	IP52, IK10
Power Consumption	PoE+ : Max 25.50W, typical 21.00W 12VDC : Max 21.50W, typical 17.00W	PoE+ : Max 25.50W, typical 21.00W 12VDC : Max 21.50W, typical 17.00W	PoE+ : Max 24.50W, typical 20.00W 12VDC : Max 20.50W, typical 16.00W
Dimensions (WxHxD) / Weight	Ø91.0 x 368.6mm (3.58" x 14.51") (Without sunshield), Weight : 2.48Kg (5.47lb)	Ø180 x 125mm(7.09" x 4.92"), Weight : 1.90Kg (4.19lb)	Ø160 x 125mm(6.30" x 4.92"), Weight : 1.60Kg (3.53lb)
Additional Features	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)



PND-A9081RF
4K AI IR Dome Camera



PNB-A9001
4K AI Box Camera



PNO-A7081R
4MP AI IR Bullet Camera

Imaging Device	1/1.8" 8MP CMOS	1/1.8" 8MP CMOS	1/1.8" 4MP CMOS
Min. Illumination	Color : 0.05Lux(F1.6) BW : 0Lux(IR LED on)	Color : 0.03Lux(F1.2, 1/30sec)	Color : 0.009Lux(F1.6) BW : 0Lux(IR LED on)"
Video Output	CVBS : 1.0 Vp-p	CVBS : 1.0 Vp-p	CVBS : 1.0 Vp-p
Focal Length	4.5~10mm(2.2x) motorized varifocal	-	4.5~10mm(2.2x) motorized varifocal
Angular Field of View	H: 101.4°(Wide)~45.5°(Tele) / V: 53.6°(Wide)~25.5°(Tele) / D: 120.7°(Wide)~52.3°(Tele)	-	H : 111.6°(Wide) ~ 46.2°(Tele) V : 58.3°(Wide) ~ 26.0°(Tele) D : 135°(Wide) ~ 53.2°(Tele)
Pan / Tilt / Rotate	0°~360° / -45°~85° / 0°~355°	-	-
IRViewable Length	30m(98.42ft)	-	50m(164.04ft)
Day & Night	Auto(ICR)	Auto(ICR)	Auto(ICR)
Wide Dynamic Range	120dB	120dB	120dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support(built-in gyro sensor)	Support(built-in gyro sensor)	Support(built-in gyro sensor)
Analytics	Object detection (Person/Vehicle/Face/License plate), Audio detection, Sound classification	Object detection (Person/Vehicle/Face/License plate), Audio detection, Sound classification	Object detection (Person/Vehicle/Face/License plate), Audio detection, Sound classification
Business Intelligence	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap
Alarm I/O	1 / 1	1 / 1	1/1
Audio I/O	Line in / Line out	Line in / Line out	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	8MP/30fps	8MP/30fps	4MP/60fps
WiseStream	WiseStream II	WiseStream II	WiseStream II
Streaming	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles
Edge Storage	Micro SD/SDHC/SDXC	Micro SD/SDHC/SDXC	Micro SD/SDHC/SDXC
Application Programming Interface	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform
Operating Temperature	-25°C ~ +50°C (-13°F ~ +122°F) / IR LED on -25°C ~ +55°C (-13°F ~ +131°F) / IR LED off	-10°C ~ +55°C (+14°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F) * Start up above -30°C
Certification	IP52, Plenum rate(UL2820)	-	IP66/IP67, IK10, NEMA4X
Power Consumption	PoE+ : Max 24.50W, typical 20.00W 12VDC : Max 20.50W, typical 16.00W	PoE+ : Max 19.50W, typical 15.00W 12VDC : Max 16.50W, typical 12.00W	PoE+ : Max 25.50W, typical 21.00W 12VDC : Max 21.50W, typical 17.00W
Dimensions (WxHxD) / Weight	Ø205 x 163mm(8.07" x 4.92"), Weight : 1.95Kg (4.30lb)	73.1 x 66.6 x 147.8mm, Weight : 0.70Kg (1.54lb)	Ø91.0 x 368.6mm (3.58" x 14.51") (Without sunshield) 2.48Kg (5.47lb)
Additional Features	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)



PNV-A7081R
4MP AI IR Vandal Dome Camera



PND-A7081RV
4MP AI IR Dome Camera



PND-A7081RF
4MP AI IR Dome Camera

Imaging Device	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS
Min. Illumination	Color : 0.009Lux(F1.6) BW : 0Lux(IR LED on)	Color : 0.009Lux(F1.6) BW : 0Lux(IR LED on)	Color : 0.009Lux(F1.6) BW : 0Lux(IR LED on)
Video Output	CVBS : 1.0 Vp-p	CVBS : 1.0 Vp-p	CVBS : 1.0 Vp-p
Focal Length	4.5~10mm(2.2x) motorized varifocal	4.5~10mm(2.2x) motorized varifocal	4.5~10mm(2.2x) motorized varifocal
Angular Field of View	H : 111.6°(Wide) ~ 46.2°(Tele) V : 58.3°(Wide) ~ 26.0°(Tele) D : 135°(Wide) ~ 53.2°(Tele)	H : 111.6°(Wide) ~ 46.2°(Tele) V : 58.3°(Wide) ~ 26.0°(Tele) D : 135°(Wide) ~ 53.2°(Tele)	H : 111.6°(Wide) ~ 46.2°(Tele) V : 58.3°(Wide) ~ 26.0°(Tele) D : 135°(Wide) ~ 53.2°(Tele)
Pan / Tilt / Rotate	0°~360° / -45°~85° / 0°~355°	0°~360° / -45°~85° / 0°~355°	0°~360° / -45°~85° / 0°~355°
IRViewable Length	50m(164.04ft)	50m(164.04ft)	50m(164.04ft)
Day & Night	Auto(ICR)	Auto(ICR)	Auto(ICR)
Wide Dynamic Range	120dB	120dB	120dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support(built-in gyro sensor)	Support(built-in gyro sensor)	Support(built-in gyro sensor)
Analytics	Object detection (Person/Vehicle/Face/License plate), Audio detection, Sound classification	Object detection (Person/Vehicle/Face/License plate), Audio detection, Sound classification	Object detection (Person/Vehicle/Face/License plate), Audio detection, Sound classification
Business Intelligence	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap
Alarm I/O	1/1	1/1	1/1
Audio I/O	Line in / Line out	Line in / Line out	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	4MP/60fps	4MP/60fps	4MP/60fps
WiseStream	WiseStream II	WiseStream II	WiseStream II
Streaming	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles
Edge Storage	Micro SD/SDHC/SDXC	Micro SD/SDHC/SDXC	Micro SD/SDHC/SDXC
Application Programming Interface	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F) -40°C ~ +60°C (-13°F ~ +140°F) * Start up above -30°C"	-25°C ~ +50°C (-13°F ~ +122°F) / IR LED on -25°C ~ +55°C (-13°F ~ +131°F) / IR LED off	-25°C ~ +50°C (-13°F ~ +122°F) / IR LED on -25°C ~ +55°C (-13°F ~ +131°F) / IR LED off
Certification	IP66/IP67/IP6K9K, IK10+, NEMA4X	IP52, IK10	IP52, Plenum rate(UL2820)
Power Consumption	PoE+ : Max 25.50W, typical 21.00W 12VDC : Max 21.50W, typical 17.00W	PoE+ : Max 24.50W, typical 20.00W 12VDC : Max 20.50W, typical 16.00W	PoE+ : Max 24.50W, typical 20.00W 12VDC : Max 20.50W, typical 16.00W
Dimensions (WxHxD) / Weight	Ø180 x 125mm (7.09" x 4.92") 1.90Kg (4.19lb)	Ø160 x 125mm (6.30" x 4.92") 1.60Kg (3.53lb)	Ø205x163mm (8.07" x 4.92") 1.95Kg (4.30lb)
Additional Features	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)	AI : BestShot, Attribute (Person, Vehicle, Face, License plate)



PNB-A7001
4MP AI Box Camera



PNO-A6081R
2MP AI IR Bullet Camera



PNV-A6081R
2MP AI IR Vandal Dome Camera

Imaging Device	1/1.8" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Min. Illumination	Color : 0.006Lux(F1.2)	Color : 0.02Lux(F1.4) BW : 0Lux(IR LED on)	Color : 0.02Lux(F1.4) BW : 0Lux(IR LED on)
Video Output	CVBS : 1.0 Vp-p	CVBS : 1.0 Vp-p	CVBS : 1.0 Vp-p
Focal Length	-	2.8~12mm(4.3x) motorized varifocal	2.8~12mm(4.3x) motorized varifocal
Angular Field of View	-	H : 119.5°(Wide) ~ 27.9°(Tele) V : 62.8°(Wide) ~ 15.7°(Tele) D : 142.1°(Wide) ~ 32.0°(Tele)	H : 119.5°(Wide) ~ 27.9°(Tele) V : 62.8°(Wide) ~ 15.7°(Tele) D : 142.1°(Wide) ~ 32.0°(Tele)
Pan / Tilt / Rotate	-	-	0°~360° / -45°~85° / 0°~355°
IRViewable Length	-	50m(164.04ft)	50m(164.04ft)
Day & Night	Auto(ICR)	Auto(ICR)	Auto(ICR)
Wide Dynamic Range	120dB	120dB	120dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support(built-in gyro sensor)	Support(built-in gyro sensor)	Support(built-in gyro sensor)
Analytics	Object detection (Person/Vehicle/Face/License plate), Audio detection, Sound classification	Object detection (Person/Vehicle/Face/License plate), Audio detection, Sound classification	Object detection (Person/Vehicle/Face/License plate), Audio detection, Sound classification
Business Intelligence	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap
Alarm I/O	1/1	1/1	1/1
Audio I/O	Line in / Line out	Line in / Line out	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	4MP/60fps	2MP/60fps	2MP/60fps
WiseStream	WiseStream II	WiseStream II	WiseStream II
Streaming	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles
Edge Storage	Micro SD/SDHC/SDXC	Micro SD/SDHC/SDXC	Micro SD/SDHC/SDXC
Application Programming Interface	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform
Operating Temperature	-10°C ~ +55°C(+14°F ~ +131°F)	-40°C ~ +55°C(-40°F ~ +131°F) * Start up above -30°C	-40°C ~ +55°C(-40°F ~ +131°F) -40°C ~ +60°C(-13°F ~ +140°F) * Start up above -30°C"
Certification	-	IP66/IP67, IK10, NEMA4X	IP66/IP67/IP6K9K, IK10+, NEMA4X
Power Consumption	PoE+ : Max 19.50W, typical 15.00W 12VDC : Max 16.50W, typical 12.00W	PoE+ : Max 25.50W, typical 21.00W 12VDC : Max 21.50W, typical 17.00W	PoE+ : Max 25.50W, typical 21.00W 12VDC : Max 21.50W, typical 17.00W
Dimensions (WxHxD) / Weight	73.1 x 66.6 x 147.8mm 0.70Kg (1.54lb)	Ø91.0 x 368.6mm (3.58" x 14.51") (Without sunshield), Weight : 2.48Kg (5.47lb)	Ø180 x 125mm(7.09" x 4.92"), Weight : 1.90Kg (4.19lb)
Additional Features	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)



PND-A6081RV
2MP AI IR Dome Camera



PND-A6081RF
2MP AI IR Dome Camera



PNB-A6001
2MP AI Box Camera

Imaging Device	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Min. Illumination	Color : 0.02Lux(F1.4) BW : 0Lux(IR LED on)	Color : 0.02Lux(F1.4) BW : 0Lux(IR LED on)	Color : 0.023Lux(F1.2)
Video Output	CVBS : 1.0 Vp-p	CVBS : 1.0 Vp-p	CVBS : 1.0 Vp-p
Focal Length	2.8~12mm(4.3x) motorized varifocal	2.8~12mm(4.3x) motorized varifocal	-
Angular Field of View	H : 119.5°(Wide) ~ 27.9°(Tele) V : 62.8°(Wide) ~ 15.7°(Tele) D : 142.1°(Wide) ~ 32.0°(Tele)	H : 119.5°(Wide) ~ 27.9°(Tele) V : 62.8°(Wide) ~ 15.7°(Tele) D : 142.1°(Wide) ~ 32.0°(Tele)	-
Pan / Tilt / Rotate	0°~360° / -45°~85° / 0°~355°	0°~360° / -45°~85° / 0°~355°	-
IRViewable Length	50m(164.04ft)	50m(164.04ft)	-
Day & Night	Auto(ICR)	Auto(ICR)	Auto(ICR)
Wide Dynamic Range	120dB	120dB	120dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support(built-in gyro sensor)	Support(built-in gyro sensor)	Support(built-in gyro sensor)
Analytics	Object detection (Person/Vehicle/Face/License plate), Audio detection, Sound classification	Object detection (Person/Vehicle/Face/License plate), Audio detection, Sound classification	Object detection (Person/Vehicle/Face/License plate), Audio detection, Sound classification
Business Intelligence	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap
Alarm I/O	1/1	1/1	1/1
Audio I/O	Line in / Line out	Line in / Line out	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	2MP/60fps
WiseStream	WiseStream II	WiseStream II	WiseStream II
Streaming	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles
Edge Storage	Micro SD/SDHC/SDXC	Micro SD/SDHC/SDXC	Micro SD/SDHC/SDXC
Application Programming Interface	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform
Operating Temperature	-25°C ~ +50°C (-13°F ~ +122°F) / IR LED on -25°C ~ +55°C (-13°F ~ +131°F) / IR LED off	-25°C ~ +50°C (-13°F ~ +122°F) / IR LED on -25°C ~ +55°C (-13°F ~ +131°F) / IR LED off	-10°C ~ +55°C(+14°F ~ +131°F)
Certification	IP52, IK10	IP52, Plenum rate(UL2820)	-
Power Consumption	PoE+ : Max 24.50W, typical 20.00W 12VDC : Max 20.50W, typical 16.00W	PoE+ : Max 24.50W, typical 20.00W 12VDC : Max 20.50W, typical 16.00W	PoE+ : Max 19.50W, typical 15.00W 12VDC : Max 16.50W, typical 12.00W
Dimensions (WxHxD) / Weight	Ø160 x 125mm(6.30" x 4.92"), Weight : 1.60Kg (3.53lb)	Ø205 x 163mm (8.07" x 4.92") Weight : 1.95Kg (4.30lb)	73.1 x 66.6 x 147.8mm 0.70Kg (1.54lb)
Additional Features	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)