

Video Surveillance Products

Selection Guide

2025



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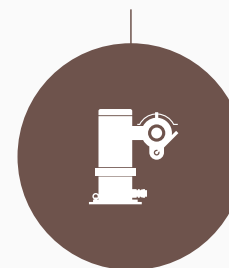


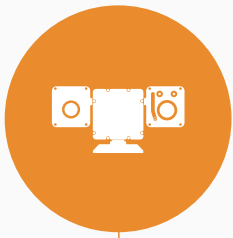
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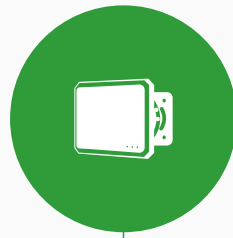




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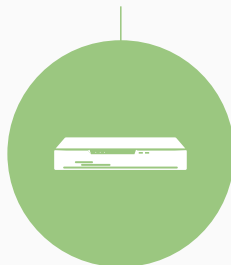
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ABOUT SUNELL



200+

R&D Engineers



110+

Products sold to 113
countries and regions





Since its foundation in 1997, Sunell has been committed to the research, development and innovation of intelligent video products and solutions, and has been a leading company in China's surveillance industry.

Headquartered in Shenzhen, Sunell has 24 offices in China and an international office in Hong Kong. Sunell products are used in 113 countries and regions around the world, providing security to billions of people.

Sunell insists on independent technological innovation and has built an advanced international R&D platform. The average annual R&D investment accounts to 10% of the sales volume, and part of the independent technology ranks in the leading level internationally.

Sunell was awarded as a Gold Winner in the 'American MUSE Design Awards' in 2022. Sunell was also recognized as 'Top 10 in AI Application' in 2018, 'China's Smart City Recommended Brand' for 3 consecutive years, 'Top 10 Chinese CCTV Brands' consistently in the past 11 years, and 'Top 10 Shenzhen Scholarly Enterprises'.

Originating in Shenzhen, Sunell has always considered 'creation beyond client expectations' as its constant driving force for development. With the idea of open cooperation and flexible marketing network, Sunell has aided the construction of the smart city as well as increased safety in the industries of finance, energy source, forestry, transportation, intelligent building, civic areas, and so on, bringing high-quality safe life to people.

In June 2022, Sunell Shenzhen new modern plant officially went to operation and passed the ISO9001 and ISO14001 certification renewal review. In the same year, Sunell successively established overseas production facilities in Taiwan, Vietnam, and the United States to achieve a global production and operation structure. Sunell's ability to provide customers with in-depth customization services and production capabilities has been significantly improved once again, thanks to an in-house developed MES system, an efficient production process, and tight quality control.

In the times when the AIoT technology is driving the revolution of various industries, Sunell has been persistent in innovation. With the philosophy of 'concentrating on products and CCTV industry' and 'connect with a more secured world', Sunell has endeavored to provide more competitive products and solutions for ISP, enterprises and consumers.



NETWORK CAMERAS



NETWORK CAMERAS

Active Deterrence Series

- Deep learning algorithm, accurate detection
- Real-time sound and light deterrence, customized audio, flexible control
- Unattended, eliminate security risks
- Support Face, Human, Vehicle Detection
- Smart Events: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking and Smart motion detection, People counting



Deep Learning Algorithm



Human/Vehicle Detection



Smart Event



Starlight



Sound and Light Alarm



True WDR



Two-way Audio



Alarm In/Out



Memory Slot

Active Deterrence Series

	Active Deterrence Cameras			
Model	SN-IPR8080CBAA-Z	SN-IPR8020CBAA-Z	SN-IPR8080DQAA-Z	SN-IPR8020DQAA-Z
Appearance				
Image sensor	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	2.7 to 13.5mm/F1.6 (Motorized)	2.7 to 13.5mm/F1.6 (Motorized)	2.7 to 13.5mm/F1.6 (Motorized)	2.7 to 13.5mm/F1.6 (Motorized)
FOV-H	H: 102.7° to 30.2°, V: 53.8° to 16.9°	H: 100.9° to 28.6°, V: 54.2° to 15.2°	H: 102.7° to 30.2°, V: 53.8° to 16.9°	H: 100.9° to 28.6°, V: 54.2° to 15.2°
Day and Night	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR
WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 40 m (131.2 ft)	Up to 40 m (131.2 ft)	Up to 40m (131.2 ft)	Up to 40m (131.2 ft)
Max. Resolution	3840×2160 (8MP)	1920×1080 (2MP)	1920×1080 (2MP)	1920×1080 (2MP)
Frames Per Second	25/30fps@ 8MP	25/30fps@ 2MP	25/30fps@ 2MP	25/30fps@ 2MP
Smart Function	Support Face, Human, Vehicle Detection and Capture Intelligent Analysis: Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way and Smart motion detection, People counting			
Audio In/Out	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker
Alarm In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256 GB	Micro SD, Max. 256 GB	Micro SD, Max. 256 GB	Micro SD, Max. 256 GB
Ingress Protection	IP66	IP66	IP66	IP66
Operating Temperature	-40° C to 55° C (-40° F to 131° F)	-40° C to 55° C (-40° F to 131° F)	-40° C to 55° C (-40° F to 131° F)	-40° C to 55° C (-40° F to 131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	242.6 × 87.6 × 97.2 mm	242.6 × 87.6 × 97.2 mm	303 × 100 × 107 mm	303 × 100 × 107 mm

Active Deterrence Series

	Active Deterrence Cameras			
Model	SN-IPR8084DQAF-VZ	SN-IPR8080DQAF-Z	SN-IPV8084HDAF-Z	SN-IPV8084CQAF-VZ
Appearance	 	 	 	 
Image sensor	1/1.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/1.8" STARVIS™ CMOS	1/1.8" STARVIS™ CMOS
Lens	3.6 to 11 mm/F1.3 (Motorized)	2.7 to 13.5mm/F1.6 (Motorized)	3.6 to 11 mm/F1.3 (Motorized)	3.6 to 11 mm/F1.3 (Motorized)
FOV-H	H: 113.4° to 48.9° , V: 59° to 26.6°	H: 98.1° to 30.9° , V: 52.6° to 17.3°	H: 112.6° to 47.9° , V: 58.2° to 26.8°	H: 113.4° to 48.9° , V: 59° to 26.6°
Day and Night	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.003 Lux @ (F1.3, AGC ON), 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.003 Lux @ (F1.3, AGC ON), 0 Lux with IR on	Color: 0.003 Lux @ (F1.3, AGC ON), 0 Lux with IR on
WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 70 m (229.7 ft)	Up to 50m (164.0 ft)	Up to 40 m (131.2 ft)	Up to 40 m (131.2 ft)
Max. Resolution	3840 × 2160 (8MP)	3840 × 2160 (8MP)	3840 × 2160 (8MP)	3840 × 2160 (8MP)
Frames Per Second	25/30fps @8MP	25/30fps @ 8MP	25/30fps @8MP	25/30fps @8MP
Smart Function	Support Face, Human, Vehicle Detection and Capture Intelligent Analysis: Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way and Smart motion, People counting			
Audio In/Out	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1, Built-in Mic	1/1, Built-in Mic and Speaker
Alarm In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Ingress Protection	IP66	IP66	IP66	IP66
Operating Temperature	-40° C to 55° C (-40° F to 131° F)	-40° C to 55° C (-40° F to 131° F)	-40° C to 55° C (-40° F to 131° F)	-40° C to 55° C (-40° F to 131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	303 × 100 × 107 mm	303 × 100 × 107 mm	φ140 × 119.2 mm	φ140 × 119.2 mm

Active Deterrence Series

	Active Deterrence Turret Cameras			
Model	SN-IPR8080HCAA-B	SN-IPR8041HCAA-B	SN-IPR8080CQAA-Z	SN-IPR8020CQAA-Z
Appearance				
Image sensor	1/2.8" STARVIS™ CMOS	1/1.8" CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	2.8mm/F2.0	2.8mm/F1.6	2.7 to 13.5mm/F1.6 (Motorized)	2.7 to 13.5mm/F1.6 (Motorized)
FOV-H	H: 103.3°, V: 55.7°	H: 110.9°, V: 57.5°	H: 102.7° to 30.2°, V: 53.8° to 16.9°	H: 100.9° to 28.6°, V: 54.2° to 15.2°
Day and Night	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.001 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on
WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 30m (98.4 ft)	Up to 30 m (98.4 ft)	Up to 40m (131.2 ft)	Up to 40m (131.2 ft)
Max. Resolution	3840 × 2160 (8MP)	2560 × 1440 (4MP)	3840 × 2160 (8MP)	1920 × 1080 (2MP)
Frames Per Second	25/30fps @ 8MP	25/30fps @ 4MP	25/30fps @ 8MP	25/30fps @ 2MP
Smart Function	Support Face, Human, Vehicle Detection and Capture Intelligent Analysis: Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way and Smart motion detection , People counting			
Audio In/Out	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker
Alarm In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256 GB	Micro SD, Max. 256 GB	Micro SD, Max. 256 GB	Micro SD, Max. 256 GB
Ingress Protection	IP66	IP66	IP66	IP66
Operating Temperature	-40° C to 55° C (-40° F to 131° F)	-40° C to 55° C (-40° F to 131° F)	-40° C to 55° C (-40° F to 131° F)	-40° C to 55° C (-40° F to 131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	φ118 × 94 mm	φ118 × 94 mm	φ140 × 119.2 mm	φ140 × 119.2 mm

Active Deterrence Series

	Full-color Active Deterrence Cameras		
Model	SN-IPR8540DQAE-PZ	SN-IPR8540KFAE-B	SN-IPV8540CQAE-B
Appearance	 	 	 
Image sensor	1/1.8" STARVIS™ CMOS	1/1.8" STARVIS™ CMOS	1/1.8" STARVIS™ CMOS
Lens	4.5 to 8 mm or 8 to 32 mm (Motorized, Auto Iris)	2.8 mm/F1.0	2.8 mm/F1.0
FOV-H	4.5 to 8 mm, H: 101° to 57.5°, V: 52.7° to 32° 8 to 32 mm, H: 39.7° to 16°, V: 22.6° to 9.2°	H: 112.4°, V: 61.2°	H: 112.4°, V: 61.2°
Day and Night	Fixed filter	Fixed filter	Fixed filter
Min. Illumination(lux)	Color: 0.0001 Lux @ (F1.0, AGC ON), 0 Lux with warm-light ON	Color: 0.0001 Lux @ (F1.0, AGC ON), 0 Lux with warm-light ON	Color: 0.0001 Lux @ (F1.0, AGC ON), 0 Lux with warm-light ON
WDR	True WDR	True WDR	True WDR
Illumination Distance	4.5 to 8 mm: up to 40 m (131.2 ft) 8 to 32 mm: up to 60 m (196.9 ft)	Up to 40 m (131.2 ft)	Up to 30m (98.4 ft)
Max. Resolution	2688 × 1520 (4MP)	2688 × 1520 (4MP)	2688 × 1520 (4MP)
Frames Per Second	25/30fps @4MP	25/30fps @4MP	25/30fps @4MP
Smart Function	Support Face, Human, Vehicle Detection and Capture Intelligent Analysis: Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way and Smart motion detection, People counting		
Audio In/Out	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker
Alarm In/Out	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Ingress Protection	IP66	IP66	IP66
Operating Temperature	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	303 × 100 × 107 mm	188.0 × 80 × 77 mm	φ140 × 119.2 mm

Active Deterrence Series

Smart Dual light Active Deterrence Cameras					
Model	SN-IPV7180HCAC-B	SN-IPV7150HCAC-B	SN-IPV7120HCAC-B	SN-IPV7180HNBC-B	SN-IPV7150HNBC-B
Appearance	 3 in 1	 3 in 1	 3 in 1	 3 in 1	 3 in 1
Image Sensor	1/2.7" CMOS	1/2.7" Progressive Scan CMOS	1/2.8" CMOS	1/2.7" CMOS	1/2.7" CMOS
Lens	2.8 mm/F1.6, 4 mm/F1.6	2.8 mm/F1.6, 4 mm/F1.6	2.8 mm/F1.6, 4 mm/F1.6	2.8 mm/F1.6, 4 mm/F1.6	2.8 mm/F1.6, 4 mm/F1.6
FOV-H	2.8 mm: H: 109.5°, V: 59.8° 4 mm: H: 91.5°, V: 46.3°	2.8 mm: H: 110.9°, V: 60° 4 mm: H: 91.8°, V: 46.3°	2.8 mm: H: 101.3°, V: 54.4° 4 mm: H: 88.1°, V: 44.8°	2.8 mm: H: 109.5°, V: 59.8° 4 mm: H: 91.5°, V: 46.3°	2.8 mm: H: 110.9°, V: 60° 4 mm: H: 91.5°, V: 46.3°
Day and Night	ICR	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on
WDR	True WDR	True WDR	True WDR	True WDR	True WDR
Illumination Distance	IR distance up to 30 m (98.4 ft) Warm distance up to 20 m (65.6 ft)	IR up to 30 m (98.4 ft) Warm up to 20 m (65.6 ft)	IR distance up to 30 m (98.4 ft) Warm distance up to 20 m (65.6 ft)	IR distance up to 30 m (98.4 ft) Warm distance up to 20 m (65.6 ft)	IR distance up to 30 m (98.4 ft) Warm distance up to 20 m (65.6 ft)
Max. Resolution	3840 × 2160 (8MP)	2880 × 1620 (5MP)	1920 × 1080 (2MP)	3840 × 2160 (8MP)	2880 × 1620 (5MP)
Frames Per Second	25fps @8MP	25/30fps @5MP	25/30fps @1080P	25fps @8MP	25/30fps @5MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection, and People counting.				
Audio In/Out	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic	Built-in Mic and Speaker	Built-in Mic and Speaker
Alarm In/Out	1/1	1/1	1/1	-/-	-/-
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Ingress Protection	IP66	IP66	IP66	IP66	IP66
Operating Temperature	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	φ118.2 × 93.9 mm	φ118.2 × 93.9 mm	φ118.2 × 93.9 mm	φ111 × 100.8 mm	φ111 × 100.8 mm

Note: The 7180 Series Camera does not support Capture functionality.

Active Deterrence Series

Smart Dual light Active Deterrence Cameras				
Model	SN-IPR7180KFAC-B	SN-IPR7180KFAC-Z	SN-IPR7150KFAC-B	SN-IPR7150KFAC-Z
Appearance	 	 	 	 
Image Sensor	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS
Lens	2.8 mm/F1.6, 4 mm/F1.6	2.7 to 13.5 mm/F1.6	2.8 mm/F1.6, 4 mm/F1.6	2.7 to 13.5 mm/F1.6
FOV-H	2.8 mm: H: 109.5°, V: 59.8° 4 mm: H: 91.5°, V: 46.3°	H: 102.8° to 32.6°, V: 54.5° to 18.3°	2.8 mm, H: 110.9°, V: 60° 4 mm, H: 91.8°, V: 46.3°	H: 102.3° to 33.1°, V: 54.3° to 18.5°
Day and Night	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on
WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	IR distance up to 30 m (98.4 ft) Warm distance up to 20 m (65.6 ft)	IR distance up to 40 m (131.2 ft) Warm light distance up to 30 m (98.4 ft)	IR distance up to 30 m (98.4 ft) Warm distance up to 20 m (65.6 ft)	IR distance up to 40 m (131.2 ft) Warm light distance up to 30 m (98.4 ft)
Max. Resolution	3840 × 2160 (8MP)	3840 × 2160 (8MP)	2880 × 1620 (5MP)	2880 × 1620 (5MP)
Frames Per Second	25fps @8MP	25fps @8MP	25/30fps @5MP	25/30fps @5MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection, and People counting.			
Audio In/Out	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker
Alarm In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Ingress Protection	IP66	IP66	IP66	IP66
Operating Temperature	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	188.0 × 80 × 77 mm	188.0 × 80 × 77 mm	188.0 × 80 × 77 mm	188.0 × 80 × 77 mm

Note: The 7180 Series Camera does not support Capture functionality.

NETWORK CAMERAS

ANPR Series

- Intelligent AI-powered LPR Algorithm
- 60fps High Frame Rate
- Black & White List
- Wiegand Protocol for Access Control System



LPR



Up to
120km/h



4MP@60fps



10 to 50mm
8 to 32mm

ANPR Series

	ANPR Cameras				
Model	SN-IPC8045HAN-FT	SN-IPC8047HAN-FT	SN-IPR8045DQAN-T-VZ	SN-IPR8045AKAN-T-Z	SN-IPR8047AKAN-ST-PZ
Appearance					
Image sensor	1/2.8"STARVIS™ CMOS	1/1.8"STARVIS™ CMOS	1/2.8"STARVIS™ CMOS	1/2.8"STARVIS™ CMOS	1/1.8"STARVIS™ CMOS
Lens	C/CS Mount Lens	C/CS Mount Lens	5 to 50 mm (Motorized)	2.7 to 13.5 mm, 6 to 22 mm (Motorized)	8 to 32 mm, 10 to 50 mm optional, (Motorized, Auto Iris)
FOV-H	-	-	H: 46.8° to 7.7°, V: 34.5° to 5.8°	2.7 to 13.5 mm - H: 98.4° to 28.1°, V: 55.1° to 16.6° 6 to 22 mm - H: 42.3° to 17.3°, V: 31.2° to 13°	8 to 32 mm - H: 41.1° to 14°, V: 23° to 7.9° 10 to 50 mm - H: 42.5° to 11.1°, V: 24.3° to 6.3°
Day and Night	ICR	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.03 Lux @ (F1.6, AGC ON), B/W: 0.003 Lux @ (F1.6, AGC ON)	Color: 0.0025 Lux @ (F1.2, AGC ON), B/W: 0.0005 @ (F1.2, AGC ON)	Color: 0.03 Lux @ (F1.6, AGC ON), B/W: 0.003 Lux @ (F1.6, AGC ON)	Color: 0.03 Lux @ (F1.6, AGC ON), B/W: 0.003 Lux @ (F1.6, AGC ON)	Color: 0.0025 Lux @ (F1.2, AGC ON), B/W: 0.0005 @ (F1.2, AGC ON)
WDR	True WDR	True WDR	True WDR	True WDR	True WDR
Illumination Distance	-	-	Up to 100 m (328.1 ft)	Up to 60 m (196.9 ft)	8 to 32 mm: up to 80 m (262.5 ft) 10 to 50 mm: up to 120 m (393.7 ft)
Max. Resolution	2592 × 1520 (4MP)	2688 × 1520 (4MP)	2592 × 1520 (4MP)	2592 × 1520 (4MP)	2688 × 1520 (4MP)
Frames Per Second	50/60fps @ 4MP	50/60fps @ 4MP	50/60fps @ 4MP	50/60fps @ 4MP	50/60fps @ 4MP
Smart Function	Supports license plate recognition for vehicle speeds up to 60 km/h	Supports license plate recognition for vehicle speeds up to 120 km/h	Supports license plate recognition for vehicle speeds up to 60 km/h	Supports license plate recognition for vehicle speeds up to 60 km/h	Supports license plate recognition for vehicle speeds up to 120 km/h
Audio In/Out	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic	1/1	1/1, Built-in Mic and Speaker
Alarm In/Out	1/1	1/1	1/1	1/1	1/2
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Ingress Protection	-	-	IP66	IP66, IK10	IP66, IK10
Operating Temperature	-30° C to 50° C (-22° F to 122° F)	-30° C to 50° C (-22° F to 122° F)	-40° C to 55° C (-40° F to 131° F)	-40° C to 55° C (-40° F to 131° F)	-40° C to 60° C (-40° F to 140° F)
Power	12 VDC/24 VAC/PoE (802.3af)	12 VDC/24 VAC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	152.9 × 74.4 × 69.7 mm	152.9 × 74.4 × 69.7 mm	303 × 100 × 107 mm	φ110 × 356.3 mm	φ110 × 356.3 mm

NETWORK CAMERAS

Panoramic Series

- 180°, 360° Full-Scene Surveillance
- Multi-View Dewarping Modes
- Ultra HD Image Clarity
- IR Night Vision & Edge Storage
- Smart Events: Intrusion, Single / Double Line Crossing, Loitering, Wrong-way, Illegal Parking, Enter Area, Leave Area, Smart Motion Detection and People Counting



Deep Learning Algorithm



Human/Vehicle Detection



People Counting



Heat Map



Smart Event



Two-way Audio



Alarm In/Out



Memory Slot

Panoramic Series

	Multi-Sensor Cameras				
Model	SN-IPP8087RAR-VZ	SN-IPP8058RAR-VZ	SN-IPP8085QAS-B	SN-IPP8086QAS-B	SN-IPP8086MEAC-B
Appearance					
Image sensor	Four 1/2.8" STARVIS™ CMOS	Four 1/2.8" STARVIS™ CMOS	Dual 1/2.8" STARVIS™ CMOS	Dual 1/2.8" STARVIS™ CMOS	Dual 1/2.8" STARVIS™ CMOS
Lens	2.7 to 13.5 mm (Motorized)	2.7 to 13.5 mm (Motorized)	2.8 mm/F1.6	2.8 mm/F1.6	2.4 mm/F1.6
FOV-H	H: 108.0° to 31.4°, V: 56.1° to 17.6°	H: 95.6° to 26.9°, V: 65.4° to 20.5°	H: 180°, V: 63°	H: 185.8°, V: 65.3°	H: 192.4°, V: 80.2°
Day and Night	ICR	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.005 Lux @(F1.6, AGC ON), 0 Lux with IR on	Color: 0.005 Lux @(F1.6, AGC ON), 0 Lux with IR on	Color: 0.01 Lux @(F1.6, AGC ON), 0 Lux with Light on	Color: 0.01 Lux @(F1.6, AGC ON), 0 Lux with Light on	Color: 0.01 Lux @(F1.6, AGC ON), 0 Lux with Light on
WDR	True WDR	True WDR	True WDR	True WDR	True WDR
Illumination Distance	Up to 40 m (131.2 ft)	Up to 40 m (131.2 ft)	IR up to 30 m (98.4 ft) Warm light up to 20 m (65.6 ft)	IR up to 30 m (98.4 ft) Warm light up to 20 m (65.6 ft)	IR up to 30 m (98.4 ft) Warm light up to 20 m (65.6 ft)
Max. Resolution	3840 × 2160 (8MP)	2592 × 1944 (5MP)	4608 × 1728 (8MP)	4224 × 1848 (8MP)	4224 × 1848 (8MP)
Frames Per Second	25/30fps @ 8MP	25/30fps @ 5MP	15fps @ 8MP	25/30fps @ 8MP	25/30fps @ 8MP
Smart Function	Support human and vehicle detection and capture. Intelligent analysis: intrusion, single line crossing, double line crossing, loitering, wrong-way, people counting, smart motion detection and heat map				
Audio In/Out	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker
Alarm In/Out	4/2	4/2	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Ingress Protection	IP67, IK10	IP67, IK10	IP66	IP66	IP66
Operating Temperature	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)
Power	12 VDC/PoE+ (802.3at)	12 VDC/PoE+ (802.3at)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	Φ282 × 206.3 mm	Φ282 × 206.3 mm	227.7 × 110 × 80 mm	227.7 × 110 × 80 mm	Φ140 × 119.2 mm

Panoramic Series

Fisheye Cameras			180° Panoramic Cameras	
Model	SN-IPV8088ECAR-B	SN-IPV8060ECAR-B	SN-IPR8152KKAC-B	SN-IPV8152MCAC-B
Appearance				
Image sensor	1/1.7" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.7" CMOS	1/2.7" CMOS
Lens	1.8 mm/F2.4	1.5 mm/F2.0	1.6mm/F2.0 (Fixed)	1.6mm/F2.0 (Fixed)
FOV-H	H: 180°, V: 180°	H: 180°, V: 180°	H: 180°, V: 100°	H: 180°, V: 100°
Day and Night	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.01Lux @(F2.4, AGC ON), B/W: 0.001Lux @(F2.4, AGC ON), 0Lux with IR	Color: 0.01Lux @(F2.0, AGC ON), B/W: 0.001Lux @(F2.0, AGC ON), 0Lux with IR	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light
WDR	DWDR	True WDR	True WDR	True WDR
Illumination Distance	Up to 15 m (49.2ft)	Up to 15 m (49.2ft)	IR: up to 25 m (80.02 ft) Warm light: up to 25 m (80.02 ft)	IR: up to 25 m (80.02 ft) Warm light: up to 25 m (80.02 ft)
Max. Resolution	4000 × 3000 (12MP)	2560 × 2560 (6MP)	2880 × 1620 (5MP)	2880 × 1620 (5MP)
Frames Per Second	25fps @12MP	25/30fps @6MP	25/30fps @ 5MP	25/30fps @ 5MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection, People counting, and Heat map			
Audio In/Out	1/1, Built-in Mic	1/1, Built-in Mic	Built-in Mic and Speaker	Built-in Mic and Speaker
Alarm In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 1TB	Micro SD, Max. 1TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Ingress Protection	IP66	IP66	IP66	IP66
Operating Temperature	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	Φ130 × 38.3 mm	Φ130 × 38.3 mm	Φ73 × 170.2 mm	Φ110 × 93.9 mm

NETWORK CAMERAS

Ultra Series

- Excellent image visual experience, equipped with professional intelligent analysis, can achieve accurate alarm in complex environment
- Meets the professional security surveillance industry requirements
- Support Face, Human, Vehicle Detection and Capture
- Smart Events: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking and Smart motion detection, People counting



Full Color



Ultra
Starlight



Deep Learning
Algorithm



Human/Vehicle
Detection



People
Counting



Smart Event



True WDR



Two-way Audio

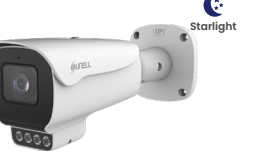


Alarm In/Out



Memory Slot

IPC Ultra Series

Full-color Bullet Cameras						
Model	SN-IPR8540DQAW-B	SN-IPR8540DQAW-PZ	SN-IPR8084CBAW-B	SN-IPR8041CBAW-B	SN-IPR8084DQAW-B	SN-IPR8041DQAW-B
Appearance						
Image sensor	1/1.8" CMOS	1/1.8" CMOS	1/1.8" STARVIS™ CMOS	1/1.8" CMOS	1/1.8" STARVIS™ CMOS	1/1.8" CMOS
Lens	2.8 mm/4 mm/6 mm optional	4.5 to 8 mm or 8 to 32 mm (Motorized, Auto Iris)	2.8 mm/F1.0	4 mm/F1.0	2.8 mm/F1.0	4 mm/F1.0
FOV-H	2.8 mm, H: 112.4°, V: 61.2° 4 mm, H: 95.6°, V: 50.6° 6 mm, H: 54.4°, V: 28.7°	4.5 to 8 mm, H: 101° to 57.5°, V: 52.7° to 32° 8 to 32 mm, H: 39.7° to 16°, V: 22.6° to 9.2°	H: 110.9°, V: 59.6°	H: 94.3°, V: 50°	H: 110.9°, V: 59.6°	H: 94.3°, V: 50°
Day and Night	Fixed filter	Fixed filter	Fixed filter	Fixed filter	Fixed filter	Fixed filter
Min. Illumination(lux)	Color: 0.0001 Lux @(F1.0, AGC ON), B/W: 0 Lux with light on	Color: 0.0001 Lux @(F1.0, AGC ON), B/W: 0 Lux with light on	Color: 0.001 Lux @(F1.0, AGC ON), B/W: 0 Lux with light on	Color: 0.0005 Lux @(F1.0, AGC ON), B/W: 0 Lux with light on	Color: 0.001 Lux @(F1.0, AGC ON), B/W: 0 Lux with light on	Color: 0.0005 Lux @(F1.0, AGC ON), B/W: 0 Lux with light on
WDR	True WDR	True WDR	True WDR	True WDR	True WDR	True WDR
Illumination Distance	Up to 40 m (131.2 ft)	4.5 to 8 mm: up to 40 m (131.2 ft) 8 to 32 mm: up to 60 m (196.9 ft)	Up to 30 m (98.4 ft)	Up to 30 m (98.4 ft)	Up to 40 m (131.2 ft)	Up to 40 m (131.2 ft)
Max. Resolution	2688 × 1520 (4MP)	2688 × 1520 (4MP)	3840 × 2160 (8MP)	2560 × 1440 (4MP)	3840 × 2160 (8MP)	2560 × 1440 (4MP)
Frames Per Second	25/30fps @4MP	25/30fps @4MP	25/30fps @8MP	25/30fps @4MP	25/30fps @8MP	25/30fps @4MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Smart motion detection, and People counting.					
Audio In/Out	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker
Alarm In/Out	1/1	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 256GB	Micro SD, Max. 1 TB	Micro SD, Max. 256GB
Ingress Protection	IP66	IP66	IP66	IP66	IP66	IP66
Operating Temperature	-40° C~55° C (-40° F ~131° F)	-40° C to 55° C (-40° F to 131° F)	-40° C to 60° (-40° F to 140° F)	-40° C~55° C (-40° F ~131° F)	-40° C to 60° (-40° F to 140° F)	-40° C~55° C (-40° F ~131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	303 × 100 × 107 mm	303 × 100 × 107 mm	242.6 × 87.6 × 97.2 mm	242.6 × 87.6 × 97.2 mm	303 × 100 × 107 mm	303 × 100 × 107 mm

IPC Ultra Series

	Full Color Turret Cameras			
Model	SN-IPV8084HCAW-B	SN-IPR8041HCAW-B	SN-IPV8084HDAW-B	SN-IPR8041HDAW-B
Appearance	 	 	 	 
Image sensor	1/1.8" STARVIS™ CMOS	1/1.8" CMOS	1/1.8" STARVIS™ CMOS	1/1.8" CMOS
Lens	2.8 mm/F1.0	4 mm/F1.0	2.8 mm/F1.0	4 mm/F1.0
FOV-H	H: 110.9°, V: 59.6°	H: 94.3°, V: 50°	H: 110.9°, V: 59.6°	H: 94.3°, V: 50°
Day and Night	Fixed filter	Fixed filter	Fixed filter	Fixed filter
Min. Illumination(lux)	Color: 0.001 Lux @(F1.0,AGC ON), B/W: 0 Lux with light on	Color: 0.0005 Lux @(F1.0,AGC ON), B/W: 0 Lux with light on	Color: 0.001 Lux @(F1.0,AGC ON), B/W: 0 Lux with light on	Color: 0.0005 Lux @(F1.0,AGC ON), B/W: 0 Lux with light on
WDR	True WDR	True WDR	True WDR	True WDR
Illumination Distance	Up to 30 m (98.4 ft)	Up to 30 m (98.4 ft)	Up to 30 m (98.4 ft)	Up to 30 m (98.4 ft)
Max. Resolution	3840 × 2160 (8MP)	2560 × 1440 (4MP)	3840 × 2160 (8MP)	2560 × 1440 (4MP)
Frames Per Second	25/30fps @8MP	25/30fps @4MP	25/30fps @8MP	25/30fps @4MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Smart motion detection, and People counting.			
Audio In/Out	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic
Alarm In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 256GB	Micro SD, Max. 1 TB	Micro SD, Max. 256GB
Ingress Protection	IP66	IP66	IP66	IP66
Operating Temperature	-40° C to 60° C (-40° F to 140° F)	-40° C~55° C (-40° F ~131° F)	-40° C to 60° C (-40° F to 140° F)	-40° C~55° C (-40° F ~131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	φ118.2 × 93.9 mm	φ118.2 × 93.9 mm	φ140 × 119.2 mm	Φ140 × 119.2 mm

IPC Ultra Series

	Full Color Turret Cameras		
Model	SN-IPV8540HDAW-B	SN-IPV8084CQAW-B	SN-IPR8041CQAW-B
Appearance	 	 	 
Image sensor	1/1.8" CMOS	1/1.8" STARVIS™ CMOS	1/1.8" CMOS
Lens	2.8 mm/F1.0, 4 mm/F1.0	2.8 mm/F1.0	4 mm/F1.0
FOV-H	2.8 mm, H: 112.2°, V: 60.7° 4 mm, H: 95.6°, V: 50.6°	H: 110.9°, V: 59.6°	H: 94.3°, V: 50°
Day and Night	Fixed filter	Fixed filter	Fixed filter
Min. Illumination(lux)	Color: 0.0001 Lux @(F1.0, AGC ON), 0 Lux with warm-light ON	Color: 0.001 Lux @(F1.0, AGC ON), B/W: 0 Lux with light on	Color: 0.0005 Lux @(F1.0, AGC ON), B/W: 0 Lux with light on
WDR	True WDR	True WDR	True WDR
Illumination Distance	Up to 40 m (131.2ft)	Up to 30 m (98.4 ft)	Up to 30 m (98.4 ft)
Max. Resolution	2688 × 1520 (4MP)	3840 × 2160 (8MP)	2560 × 1440 (4MP)
Frames Per Second	25/30fps @4MP	25/30fps @8MP	25/30fps @4MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Smart motion detection, and People counting.		
Audio In/Out	1/1, Built-in Mic	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker
Alarm In/Out	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 256GB
Ingress Protection	IP66	IP66	IP66
Operating Temperature	-40° C~55° C (-40° F ~131° F)	-40° C to 60° C (-40° F to 140° F)	-40° C~55° C (-40° F ~131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	Φ140 × 119.2 mm	Φ140 × 119.2 mm	Φ140 × 119.2 mm

IPC Ultra Series

	Smart Dual Light Cameras			
Model	SN-IPR8084DQAS-VZ	SN-IPR8041DQAS-B	SN-IPR8084CBAS-VZ	SN-IPR8041CBAS-B
Appearance	 	 	 	 
Image sensor	1/1.8" STARVIS™ CMOS	1/1.8" CMOS	1/1.8" STARVIS™ CMOS	1/1.8" CMOS
Lens	3.6 to 11 mm/F1.3 (Motorized)	2.8 mm/F1.6, 4 mm/F1.6	3.6 to 11 mm/F1.3 (Motorized)	2.8 mm/F1.6, 4 mm/F1.6
FOV-H	H: 113.4° to 48.9° , V: 59° to 26.6°	2.8 mm, H: 110.9° , V: 57.5° 4 mm, H: 88.7° , V: 50.2°	H: 113.4° to 48.9° , V: 59° to 26.6°	2.8 mm, H: 110.9° , V: 57.5° 4 mm, H: 88.7° , V: 50.2°
Day and Night	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.003 Lux @ (F1.3, AGC ON), 0 Lux with light on	Color: 0.001 Lux @(F1.6, AGC ON), 0 Lux with light on	Color: 0.003 Lux @ (F1.3, AGC ON), 0 Lux with light on	Color: 0.001 Lux @(F1.6, AGC ON), 0 Lux with light on
WDR	True WDR	True WDR	True WDR	True WDR
Illumination Distance	IR distance up to 60 m (196.9 ft) Warm light distance up to 50 m (164.0 ft)	IR distance up to 50 m (164.0 ft) Warm lights distance up to 40 m (131.2 ft)	IR up to 40 m (131.2 ft) Warm light up to 30 m (98.4 ft)	IR distance up to 40 m (131.2 ft) Warm light distance up to 30 m (98.4 ft)
Max. Resolution	3840 × 2160 (8MP)	2560 × 1440 (4MP)	3840 × 2160 (8MP)	2560 × 1440 (4MP)
Frames Per Second	25/30fps @8MP	25/30fps @4MP	25/30fps @8MP	25/30fps @4MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection, and People counting.			
Audio In/Out	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker
Alarm In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 256 GB	Micro SD, Max. 1 TB	Micro SD, Max. 256 GB
Ingress Protection	IP66	IP66	IP66	IP66
Operating Temperature	-40° C to 60° C (-40° F to 140° F)	-40° C to 55° C (-40° F to 131° F)	-40° C to 60° (-40° F to 140° F)	-40° C to 55° C (-40° F to 131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	303 × 100 × 107 mm	303 × 100 × 107 mm	242.6 × 87.6 × 97.2 mm	243 × 88 × 97 mm

IPC Ultra Series

	Smart Dual Light Cameras				
Model	SN-IPV8084HCAS-B	SN-IPV8084HDAS-VZ	SN-IPV8084CQAS-B	SN-IPV8084CQAS-VZ	SN-IPR8041CQAS-B
Appearance	 	 	 	 	 
Image sensor	1/1.8" STARVIS™ CMOS	1/1.8" STARVIS™ CMOS	1/1.8" STARVIS™ CMOS	1/1.8" STARVIS™ CMOS	1/1.8" CMOS
Lens	2.8 mm/F1.6, 4 mm/F1.6	3.6 to 11 mm/F1.3 (Motorized)	2.8 mm/F1.6, 4 mm/F1.6	3.6 to 11 mm/F1.3 (Motorized)	2.8 mm/F1.6, 4 mm/F1.6
FOV-H	2.8 mm, H: 110.5°, V: 56.5° 4 mm, H: 88.4°, V: 50°	H: 113.4° to 48.9°, V: 59° to 26.6°	2.8 mm: H: 110.5°, V: 56.5° 4 mm: H: 88.4°, V: 50°	H: 113.4° to 48.9°, V: 59° to 26.6°	2.8 mm, H: 110.9°, V: 57.5° 4 mm, H: 88.7°, V: 50.2°
Day and Night	ICR	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.003 Lux @ (F1.3, AGC ON), 0 Lux with light on	Color: 0.003 Lux @ (F1.3, AGC ON), 0 Lux with light on	Color: 0.005 Lux @ (F1.6, AGC ON), 0 Lux with light on	Color: 0.003 Lux @ (F1.3, AGC ON), 0 Lux with light on	Color: 0.001 Lux @ (F1.6, AGC ON), 0 Lux with light on
WDR	True WDR	True WDR	True WDR	True WDR	True WDR
Illumination Distance	IR up to 30 m (98.4 ft) Warm light up to 20 m (65.6 ft)	IR up to 40 m (131.2 ft) Warm light up to 30 m (98.4 ft)	IR up to 40 m (131.2 ft) Warm light up to 30 m (98.4 ft)	IR up to 50 m (164.0 ft) Warm lights up to 40 m (131.2 ft)	IR up to 40 m (131.2 ft) Warm light up to 30 m (98.4 ft)
Max. Resolution	3840 × 2160 (8MP)	3840 × 2160 (8MP)	3840 × 2160 (8MP)	3840 × 2160 (8MP)	2560 × 1440 (4MP)
Frames Per Second	25/30fps @8MP	25/30fps @8MP	25/30fps @8MP	25/30fps @8MP	25/30fps @4MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Smart motion detection, and People counting.				
Audio In/Out	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker
Alarm In/Out	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 256 GB
Ingress Protection	IP66	IP66	IP66	IP66	IP66
Operating Temperature	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 55° C (-40° F to 131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	φ118.2 × 93.9 mm	φ140 × 119.2 mm	φ140 × 119.2 mm	φ140 × 119.2 mm	φ140 × 119.2 mm

IPC Ultra Series

	Box Cameras		Starlight Bullet Cameras			
Model	SN-IPC8090HAN-F	SN-IPC8084HAN-F	SN-IPR8084BYAN-B	SN-IPR8041BYAN-B	SN-IPR8084BZAN-VZ	SN-IPR8041BZAN-Z
Appearance						
Image sensor	1/1.7"STARVIS™ CMOS	1/1.8"STARVIS™ CMOS	1/1.8"STARVIS™ CMOS	1/1.8"CMOS	1/1.8"STARVIS™ CMOS	1/1.8"CMOS
Lens	C/CS Mount Lens	C/CS Mount Lens	2.8 mm/F1.6, 4 mm/F1.6	2.8 mm/F1.6, 4 mm/F1.6	3.6 to 11 mm/F1.3 (Motorized, DC Iris)	3.6 to 11 mm/F1.3 (Motorized)
FOV-H	-	-	2.8 mm: H: 110.5°, V: 56.5° 4 mm: H: 88.4°, V: 50°	2.8 mm, H: 110.9°, V: 57.5° 4 mm, H: 88.7°, V: 50.2°	H: 113.4° to 48.9°, V: 59° to 26.6°	H: 113.8° to 50.9°, V: 59.4° to 28.6°
Day and Night	ICR	ICR	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.001 Lux @ (F1.2, AGC ON), B/W: 0.0001 Lux @ (F1.2, AGC ON)	Color: 0.003 Lux @ (F1.3, AGC ON), B/W: 0.0003 Lux @ (F1.3, AGC ON)	Color: 0.005 Lux @ (F1.6, AGC ON), 0 Lux with light on	Color: 0.001 Lux @ (F1.6, AGC ON), 0 Lux with light on	Color: 0.003 Lux @ (F1.3, AGC ON), 0 Lux with light on	Color: 0.0008 Lux @ (F1.3, AGC ON), 0 Lux with light on
WDR	True WDR	True WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	-	-	Up to 40 m (131.2 ft)	Up to 40 m (131.2 ft)	Up to 50 m (164.0 ft)	Up to 50 m (164.0 ft)
Max. Resolution	4000 × 3000 (12MP)	3840 × 2160 (8MP)	3840 × 2160 (8MP)	2560 × 1440 (4MP)	3840 × 2160 (8MP)	2560 × 1440 (4MP)
Frames Per Second	25fps @12MP	25/30fps @8MP	25/30fps @8MP	25/30fps @4MP	25/30fps @8MP	25/30fps @4MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection, and People counting.					
Audio In/Out	1/1, Built-in Mic	1/1, Built-in Mic	1/1	1/1	1/1	1/1
Alarm In/Out	1/1	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 256 GB	Micro SD, Max. 1 TB	Micro SD, Max. 256 GB
Ingress Protection	-	-	IP67	IP67	IP67	IP67
Operating Temperature	-30° C to 55° C (-22° F to 131° F)	-30° C to 55° C (-22° F to 131° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 55° C (-40° F to 131° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 55° C (-40° F to 131° F)
Power	12 VDC/24 VAC/PoE (802.3af)	12 VDC/24 VAC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	150.2 × 75 × 69.7 mm	150.2 × 75 × 69.7 mm	187.6 × 64 × 64 mm	187.6 × 64 × 64 mm	232 × 80 × 80 mm	232 × 80 × 80 mm

IPC Ultra Series

	Starlight Bullet Cameras					
Model	SN-IPR8090AKAN(-S)-PZ	SN-IPR8084AKAN(-S)-VZ	SN-IPR8041AKAN-Z	SN-IPR8084DQAN-VZ	SN-IPR8041DQAN-Z	SN-IPR8041CBAN-Z
Appearance						
Image sensor	1/1.7"STARVIS™ CMOS	1/1.8"STARVIS™ CMOS	1/1.8"CMOS	1/1.8"STARVIS™ CMOS	1/1.8"CMOS	1/1.8"CMOS
Lens	4.1 to 12.8 mm/F1.53 to F3.3 (Motorized, Auto Iris)	3.6 to 11 mm/F1.3 (Motorized, DC Iris)	3.6 to 11 mm/F1.3 (Motorized)	3.6 to 11 mm/F1.3 (Motorized, DC Iris)	3.6 to 11 mm/F1.3 (Motorized)	3.6 to 11 mm/F1.3 (Motorized)
FOV-H	H: 93.8° to 34°, V: 70.1° to 25.8°	H: 112.6° to 47.9°, V: 58.2° to 26.8°	H: 113.8° to 50.9°, V: 59.4° to 28.6°	H: 113.4° to 48.9°, V: 59° to 26.6°	H: 113.8° to 50.9°, V: 59.4° to 28.6°	H: 113.8° to 50.9°, V: 59.4° to 28.6°
Day and Night	ICR	ICR	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.001Lux @ (F1.3, AGC ON), B/W: 0Lux with IR on	Color: 0.003 Lux @ (F1.3, AGC ON), 0 Lux with IR on	Color: 0.0008 Lux @ (F1.3, AGC ON), 0 Lux with light on	Color: 0.003 Lux @ (F1.3, AGC ON), 0 Lux with IR on	Color: 0.0008 Lux @ (F1.3, AGC ON), 0 Lux with light on	Color: 0.0008 Lux @ (F1.3, AGC ON), 0 Lux with light on
WDR	True WDR	True WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 60 m (196.9 ft)	Up to 70 m (229.7 ft)	Up to 60 m (196.9 ft)	Up to 70 m (229.7 ft)	Up to 60 m (196.9 ft)	Up to 50 m (164.0 ft)
Max. Resolution	4000 × 3000 (12MP)	3840 × 2160 (8MP)	2560 × 1440 (4MP)	3840 × 2160 (8MP)	2560 × 1440 (4MP)	2560 × 1440 (4MP)
Frames Per Second	25fps @12MP	25/30fps @8MP	25/30fps @4MP	25/30fps @8MP	25/30fps @4MP	25/30fps @4MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Smart motion detection, and People counting.					
Audio In/Out	1/1, Built-in Mic, With -S: Built-in Speaker	1/1, Built-in Mic, With -S: Built-in Speaker	1/1	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker
Alarm In/Out	1/1	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 256 GB	Micro SD, Max. 1 TB	Micro SD, Max. 256 GB	Micro SD, Max. 256 GB
Ingress Protection	IP66, IK10	IP66, IK10	IP67, IK10	IP66	IP66	IP66
Operating Temperature	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 55° C (-40° F to 131° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 55° C (-40° F to 131° F)	-40° C to 55° C (-40° F to 131° F)
Power	12 VDC/24 VAC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	φ110 × 356.3 mm	φ110 × 356.3 mm	φ110 × 356.3 mm	303 × 100 × 107 mm	303 × 100 × 107 mm	243 × 88 × 97 mm

IPC Ultra Series

	Starlight Dome Cameras				
Model	SN-IPD8084EPAR-B	SN-IPV8084EGAR-B	SN-IPV8084EWAR-B	SN-IPV8084EFAR-B	SN-IPV8084EEAR-VZ
Appearance					
Image sensor	1/1.8"STARVIS™ CMOS	1/1.8"STARVIS™ CMOS	1/1.8"STARVIS™ CMOS	1/1.8"STARVIS™ CMOS	1/1.8"STARVIS™ CMOS
Lens	2.8 mm/F1.6, 4 mm/F1.6	2.8 mm/F1.6, 4 mm/F1.6	2.8 mm/F1.6, 4 mm/F1.6	2.8 mm/F1.6, 4 mm/F1.6	3.6 to 11 mm/F1.3 (Motorized, DC Iris)
FOV-H	2.8 mm: H: 110.5°, V: 56.5° 4 mm: H: 88.4°, V: 50°	2.8 mm: H: 110.5°, V: 56.5° 4 mm: H: 88.4°, V: 50°	2.8 mm: H: 110.5°, V: 56.5° 4 mm: H: 88.4°, V: 50°	2.8 mm: H: 110.5°, V: 56.5° 4 mm: H: 88.4°, V: 50°	H: 113.4° to 48.9°, V: 59° to 26.6°
Day and Night	ICR	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.005 Lux @ (F1.6, AGC ON), 0 Lux with light on	Color: 0.005 Lux @ (F1.6, AGC ON), 0 Lux with light on	Color: 0.005 Lux @ (F1.6, AGC ON), 0 Lux with light on	Color: 0.005 Lux @ (F1.6, AGC ON), 0 Lux with light on	Color: 0.003 Lux @ (F1.3, AGC ON), 0 Lux with light on
WDR	True WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 30 m (98.4 ft)	Up to 30 m (98.4 ft)	Up to 30 m (98.4 ft)	Up to 30 m (98.4 ft)	Up to 50 m (164.0 ft)
Max. Resolution	3840 × 2160 (8MP)	3840 × 2160 (8MP)	3840 × 2160 (8MP)	3840 × 2160 (8MP)	3840 × 2160 (8MP)
Frames Per Second	25/30fps @8MP	25/30fps @8MP	25/30fps @8MP	25/30fps @8MP	25/30fps @8MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection, and People counting.				
Audio In/Out	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic	1/1	1/1
Alarm In/Out	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Ingress Protection	-	IP66	IP67, IK10	IP67, IK10	IP66, IK10
Operating Temperature	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	99.6 × 99.6 × 6.5 mm	99.6 × 99.6 × 63.3 mm	99.6 × 99.6 × 63.3 mm	φ110 × 85.4 mm	φ130 × 113.3 mm

IPC Ultra Series

	Starlight Turret Cameras				
Model	SN-IPV8084HCAR-B	SN-IPR8041HCAN-B	SN-IPV8084HDAR-VZ	SN-IPV8084CQAR-VZ	SN-IPR8041CQAN-Z
Appearance					
Image sensor	1/1.8"STARVIS™ CMOS	1/1.8"CMOS	1/1.8"STARVIS™ CMOS	1/1.8"STARVIS™ CMOS	1/1.8"CMOS
Lens	2.8 mm/F1.6, 4 mm/F1.6	2.8 mm/F1.6, 4 mm/F1.6	3.6 to 11 mm/F1.3 (Motorized, DC Iris)	3.6 to 11 mm/F1.3 (Motorized, DC Iris)	3.6 to 11 mm/F1.3 (Motorized)
FOV-H	2.8 mm: H: 110.5°, V: 56.5° 4 mm: H: 88.4°, V: 50°	2.8 mm, H: 110.9°, V: 57.5° 4 mm, H: 88.7°, V: 50.2°	H: 112.6° to 47.9°, V: 58.2° to 26.8°	H: 113.4° to 48.9°, V: 59° to 26.6°	H: 113.8° to 50.9°, V: 59.4° to 28.6°
Day and Night	ICR	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.005 Lux @ (F1.6, AGC ON), 0 Lux with light on	Color: 0.001 Lux @ (F1.6, AGC ON), 0 Lux with light on	Color: 0.003 Lux @ (F1.3, AGC ON), 0 Lux with light on	Color: 0.003Lux @ (F1.3, AGC ON), 0 Lux with light on	Color: 0.0008 Lux @ (F1.3, AGC ON), 0 Lux with light on
WDR	True WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 40 m (131.2 ft)	Up to 40 m (131.2 ft)	Up to 50 m (164.0 ft)	Up to 50 m (164.0 ft)	Up to 50 m (164.0 ft)
Max. Resolution	3840 × 2160 (8MP)	2560 × 1440 (4MP)	3840 × 2160 (8MP)	3840 × 2160 (8MP)	2560 × 1440 (4MP)
Frames Per Second	25/30fps @8MP	25/30fps @4MP	25/30fps @8MP	25/30fps @8MP	25/30fps @4MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Smart motion detection, and People counting.				
Audio In/Out	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker
Alarm In/Out	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 256 GB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 256 GB
Ingress Protection	IP66	IP66	IP66	IP66	IP66
Operating Temperature	-40° C to 60° C (-40° F to 140° F)	-40° C to 55° C (-40° F to 131° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 55° C (-40° F to 131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	Φ118.2 × 93.9 mm	Φ118.2 × 93.9 mm	Φ140 × 119.2 mm	Φ140 × 119.2 mm	Φ140 × 119.2 mm

NETWORK CAMERAS

Pro Series

- Various light types: infrared, full color, dual light
- Multiple product structures, with rich external interfaces
- Excellent image quality, advanced deep learning intelligent algorithm, high quality and can be widely used in a variety of scenes
- Support Face, Human, Vehicle Detection and Capture
- Smart Events: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking and Smart motion detection, People counting



Deep Learning Algorithm



Human/Vehicle Detection



People Counting



Starlight



2MP~8MP



Smart Event



True WDR



Two-way Audio



Alarm In/Out



Memory Slot

IPC Pro Series

	Full Color Cameras			
Model	SN-IPR8020CBAW-B	SN-IPR8080DQAW-B	SN-IPR8080HCAW-B	SN-IPR8080CQAW-B
Appearance				
Image Sensor	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	4mm/F1.0	4mm/F1.0	4mm/F1.0	4mm/F1.0
FOV	H: 84.3°, V: 45.0°	H: 85.4°, V: 46.4°	H: 85.4°, V: 46.4°	H: 85.4°, V: 46.4°
Day/Night	Fixed filter	Fixed filter	Fixed filter	Fixed filter
Min. Illumination	Color: 0.001 Lux (F1.0, AGC ON), 0 Lux with Light on	Color: 0.001 Lux (F1.0, AGC ON), 0 Lux with Light on	Color: 0.001Lux @(F1.0, AGC ON), 0Lux with light	Color: 0.001 Lux (F1.0, AGC ON), 0 Lux with Light on
WDR	True WDR	True WDR	True WDR	True WDR
Illumination Distance	Up to 30m (98.4 ft)	Up to 40m (131.2 ft)	Up to 30m (98.4 ft)	Up to 30m (98.4 ft)
Max. Resolution	1920 × 1080 (2MP)	3840 × 2160 (8MP)	3840×2160 (8MP)	3840 × 2160 (8MP)
Max. Frame Rate	25/30fps @2MP	25/30fps @8MP	25/30fps@ 8MP	25/30fps @8MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Smart motion detection, and People counting.			
Audio In/Out	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1, Built-in Mic	1/1, Built-in Mic and Speaker
Alarm In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Protection	IP66	IP66	IP66	IP66
Operating Temperature	-40° C~55° C (-40° F~131° F)	-40° C~55° C (-40° F~131° F)	-40° C~55° C (-40° F~131° F)	-40° C~55° C (-40° F~131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Dimension	242.6 × 87.6 × 97.2mm	303 × 100 × 107mm	φ118.2 × 93.9 mm	φ140 × 119.2mm

IPC Pro Series

Smart Dual Illumination Cameras					
Model	SN-IPR8080DQAS-B	SN-IPR8020DQAS-B	SN-IPR8080DKAS-B	SN-IPR8020CBAS-B	SN-IPR8080CQAS-B
Appearance					
Image sensor	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	2.8 mm/F2.0, 4 mm/F1.6	2.8 mm/F1.6, 4 mm/F1.6	2.8 mm/F2.0, 4 mm/F1.6	2.8 mm/F1.6, 4 mm/F1.6	4 mm/F1.6
FOV-H	2.8 mm, H: 103.3°, V: 55.7° 4 mm, H: 88.0°, V: 44.8°	2.8 mm, H: 101.5°, V: 50.5° 4 mm, H: 80.3°, V: 41°	2.8 mm, H: 103.3°, V: 55.7° 4 mm, H: 88.0°, V: 44.8°	2.8 mm, H: 101.5°, V: 50.5° 4 mm, H: 80.3°, V: 41°	H: 88.0°, V: 44.8°
Day and Night	ICR	ICR	ICR	ICR	ICR
Min. Illumination	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on
WDR	True WDR	True WDR	True WDR	True WDR	True WDR
Illumination Distance	IR distance up to 50 m (164.0ft) Warm distance up to 40 m (131.2ft)	IR distance up to 50 m (164.0ft) Warm distance up to 40 m (131.2ft)	IR distance up to 45m (147.6 ft) Warm distance up to 30m (98.4 ft)	IR distance up to 40 m (131.2ft) Warm distance up to 30 m (98.4ft)	IR distance up to 40 m (131.2ft) Warm distance up to 30 m (98.4ft)
Max. Resolution	3840 × 2160 (8MP)	1920 × 1080 (2MP)	3840 × 2160 (8MP)	1920 × 1080 (2MP)	3840 × 2160 (8MP)
Frames Per Second	25/30fps @8MP	25/30fps @2MP	25/30fps @8MP	25/30fps @2MP	25/30fps @8MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Smart motion detection, and People counting.				
Audio In/Out	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1, Built-in Mic	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker
Alarm In/Out	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Ingress Protection	IP66	IP66	IP66	IP66	IP66
Operating Temperature	-40° C~55° C (-40° F ~131° F)	-40° C~55° C (-40° F ~131° F)	-40° C~55° C (-40° F ~131° F)	-40° C~55° C (-40° F ~131° F)	-40° C~55° C (-40° F ~131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	303 × 100 × 107 mm	303 × 100 × 107 mm	303 × 100 × 100 mm	φ140 × 119.2 mm	φ140 × 119.2 mm

IPC Pro Series

	Fixed Bullet Cameras			
Model	SN-IPR8080BYAN-B	SN-IPR8056BYAN-B	SN-IPR8046BYAN-B	SN-IPR8020BYAN-B
Appearance				
Image Sensor	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	2.8mm/F2.0	2.8 mm/F2.0, 4 mm/F1.6	2.8 mm/F2.0, 4 mm/F1.6	2.8mm/F2.0
FOV	H: 103.3°, V: 55.7°	2.8 mm, H: 93.9°, V: 68.7° 4 mm, H: 80.6°, V: 57°	2.8 mm, H: 91.8°, V: 52.3° 4 mm, H: 79.2°, V: 42.4°	H: 101.5°, V: 50.5°
Day/Night	ICR	ICR	ICR	ICR
Min. Illumination	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR
WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 30m (98.4 ft)	Up to 30m (98.4 ft)	Up to 30m (98.4 ft)	Up to 30m (98.4 ft)
Max. Resolution	3840 × 2160 (8MP)	2592 × 1944 (5MP)	2592 × 1520 (4MP)	1920 × 1080 (2MP)
Max. Frame Rate	25/30fps @8MP	25/30fps @5MP	25/30fps @4MP	25/30fps @2MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Smart motion detection, and People counting.			
Audio In/Out	1/1	1/1	1/1	1/1
Alarm In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Protection	IP67	IP67	IP67	IP67
Operating Temperature	-40° C to 55° C (-40° F to 131° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 55° C (-40° F to 131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Dimension	187.6 × 64 × 64mm	187.6 × 64 × 64mm	187.6 × 64 × 64mm	187.6 × 64 × 64mm

IPC Pro Series

	Vari-focal Bullet Cameras			
Model	SN-IPR8080BZAN-Z	SN-IPR8056BZAN-VZ	SN-IPR8046BZAN-VZ	SN-IPR8020BZAN-Z
Appearance				
Image Sensor	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	2.7~13.5mm/F1.6 (Motorized)	2.7 to 12mm/F1.6 (Motorized, DC-Iris)	2.7 to 12mm/F1.6 (Motorized, DC-Iris)	2.7~13.5mm/F1.6 (Motorized)
FOV	H: 102.7° to 30.2°, V: 53.8° to 16.8°	H: 94° to 30.5°, V: 68.2° to 22.9°	H: 95.6° to 30.7°, V: 51.4° to 17.2°	H: 101° to 28°, V: 54° to 16°
Day/Night	ICR	ICR	ICR	ICR
Min. Illumination	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR
WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 40m (131.2 ft)	Up to 40m (131.2 ft)	Up to 40m (131.2 ft)	Up to 40m (131.2 ft)
Max. Resolution	3840 × 2160 (8MP)	2592 × 1944 (5MP)	2592 × 1520 (4MP)	1920 × 1080 (2MP)
Max. Frame Rate	25/30fps @8MP	25/30fps @5MP	25/30fps @4MP	25/30fps @2MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Smart motion detection, and People counting.			
Audio In/Out	1/1	1/1	1/1	1/1
Alarm In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 256GB
Protection	IP67	IP67	IP67	IP67
Operating Temperature	-40° C to 55° C (-40° F to 131° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 55° C (-40° F to 131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Dimension	232 × 80 × 80mm	232 × 80 × 80mm	232 × 80 × 80mm	232 × 80 × 80mm

IPC Pro Series

	Vari-focal Bullet Cameras			
Model	SN-IPR8080AKAN-Z	SN-IPR8056AKAN(-S)-VZ	SN-IPR8046AKAN(-S)-VZ	SN-IPR8020AKAN-Z
Appearance				
Image Sensor	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	2.7 to 13.5 mm, 5 to 50 mm optional (Motorized)	2.7 to 12 mm, 5 to 50 mm optional (Motorized, DC-Iris)	2.7 to 12 mm, 5 to 50 mm optional (Motorized, DC-Iris)	2.7 to 13.5 mm, 5 to 50 mm optional (Motorized)
FOV	2.7 to 13.5 mm, H: 102.7° to 30.2°, V: 53.8° to 16.8° 5 to 50 mm, H: 50.5° to 8.4°, V: 27.5° to 4.8°	2.7 to 12 mm, H: 94° to 30.5°, V: 68.2° to 22.9° 5 to 50 mm, H: 46.6° to 7.4°, V: 34.3° to 5.6°	2.7 to 12 mm, H: 95.6° to 30.7°, V: 51.4° to 17.2° 5 to 50 mm, H: 46.8° to 7.6°, V: 26.8° to 4.5°	2.7 to 13.5 mm, H: 101° to 28°, V: 54° to 16° 5 to 50 mm, H: 50.1° to 7.7°, V: 27.4° to 4.4°
Day/Night	ICR	ICR	ICR	ICR
Min. Illumination	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR
WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	2.7 to 12mm: Up to 60 m (196.9 ft) 5 to 50mm: Up to 100 m (328.1 ft)	2.7 to 12mm: Up to 60m (196.9ft) 5 to 50mm: Up to 100m (328.1ft)	2.7 to 12mm: Up to 60m (196.9ft) 5 to 50mm: Up to 100m (328.1ft)	2.7 to 12mm: Up to 60 m (196.9 ft) 5 to 50mm: Up to 100 m (328.1 ft)
Max. Resolution	3840 × 2160 (8MP)	2592 × 1944 (5MP)	2592×1520 (4MP)	1920 × 1080 (2MP)
Max. Frame Rate	25/30fps @8MP	25/30fps @5MP	25/30fps @4MP	25/30fps @2MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Smart motion detection, and People counting.			
Audio In/Out	1/1	1/1, Built-in Mic, With -S: Built-in Speaker	1/1, Built-in Mic, With -S: Built-in Speaker	1/1
Alarm In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 256GB
Protection	IP67, IK10	IP66, IK10	IP66, IK10	IP67, IK10
Operating Temperature	-40° C to 55° C (-40° F to 131° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 55° C (-40° F to 131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Dimension	φ110 × 353.3mm	φ110 × 353.3mm	φ110 × 353.3mm	φ110 × 353.3mm

IPC Pro Series

	Vari-focal Bullet Cameras			
Model	SN-IPR8080DQAN-Z	SN-IPR8056DQAN-VZ	SN-IPR8046DQAN-VZ	SN-IPR8020DQAN-Z
Appearance				
Image Sensor	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	2.7~13.5mm/F1.6 (Motorized)	2.7 to 12 mm (Motorized, DC-Iris)	2.7 to 12 mm (Motorized, DC-Iris)	2.7~13.5mm/F1.6 (Motorized)
FOV	H: 102.7° to 30.2°, V: 53.8° to 16.8°	H: 94° to 30.5°, V: 68.2° to 22.9°	H: 95.6° to 30.7°, V: 51.4° to 17.2°	H: 101° to 28°, V: 54° to 16°
Day/Night	ICR	ICR	ICR	ICR
Min. Illumination	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR
WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 60m (196.9 ft)	Up to 60m (196.9 ft)	Up to 60m (196.9 ft)	Up to 60m (196.9 ft)
Max. Resolution	3840 × 2160 (8MP)	2592 × 1944 (5MP)	2592 × 1520 (4MP)	1920 × 1080 (2MP)
Max. Frame Rate	25/30fps @8MP	25/30fps @5MP	25/30fps @4MP	25/30fps @2MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Smart motion detection, and People counting.			
Audio In/Out	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker
Alarm In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 256GB
Protection	IP66	IP66	IP66	IP66
Operating Temperature	-40° C to 55° C (-40° F to 131° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 55° C (-40° F to 131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Dimension	303 × 100 × 107mm	303 × 100 × 107mm	303 × 100 × 107mm	303 × 100 × 107mm

IPC Pro Series

	Cable Free Mini Dome Cameras			
Model	SN-IPD8080EPAR-B	SN-IPD8056EPAR-B	SN-IPD8046EPAR-B	SN-IPD8020EPAR-B
Appearance				
Image Sensor	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	2.8mm/F2.0	2.8 mm/F2.0, 4 mm/F1.6	2.8 mm/F2.0, 4 mm/F1.6	2.8mm/F2.0
FOV	H: 103.3°, V: 55.7°	2.8 mm, H: 93.9°, V: 68.7° 4 mm, H: 80.6°, V: 57°	2.8 mm, H: 91.8°, V: 52.3° 4 mm, H: 79.2°, V: 42.4°	H: 101.5°, V: 50.5°
Day/Night	ICR	ICR	ICR	ICR
Min. Illumination	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR
WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 15m (49.2 ft)	Up to 30m (98.4 ft)	Up to 30m (98.4 ft)	Up to 15m (49.2 ft)
Max. Resolution	3840 × 2160 (8MP)	2592 × 1944 (5MP)	2592 × 1520 (4MP)	1920 × 1080 (2MP)
Max. Frame Rate	25/30fps @8MP	25/30fps @5MP	25/30fps @4MP	25/30fps @2MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Smart motion detection, and People counting.			
Audio In/Out	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic
Alarm In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 256GB
Protection	-	-	-	-
Operating Temperature	-40° C to 55° C (-40° F to 131° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 55° C (-40° F to 131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Dimension	99.6 × 99.6 × 62.5 mm	99.6 × 99.6 × 62.5 mm	99.6 × 99.6 × 62.5 mm	99.6 × 99.6 × 62.5 mm

IPC Pro Series

	Mini Dome Cameras			
Model	SN-IPV8080EGAR-B	SN-IPV8056EGAR-B	SN-IPV8046EGAR-B	SN-IPV8020EGAR-B
Appearance				
Image Sensor	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	2.8mm/F2.0	2.8 mm/F2.0, 4 mm/F1.6	2.8 mm/F2.0, 4 mm/F1.6	2.8mm/F2.0
FOV	H: 103.3°, V: 55.7°	2.8 mm, H: 93.9°, V: 68.7° 4 mm, H: 80.6°, V: 57°	2.8 mm, H: 91.8°, V: 52.3° 4 mm, H: 79.2°, V: 42.4°	H: 101.5°, V: 50.5°
Day/Night	ICR	ICR	ICR	ICR
Min. Illumination	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR
WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 15m (49.2 ft)	Up to 30m (98.4 ft)	Up to 30m (98.4 ft)	Up to 15m (49.2 ft)
Max. Resolution	3840 × 2160 (8MP)	2592 × 1944 (5MP)	2592 × 1520 (4MP)	1920 × 1080 (2MP)
Max. Frame Rate	25/30fps @8MP	25/30fps @5MP	25/30fps @4MP	25/30fps @2MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Smart motion detection, and People counting.			
Audio In/Out	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic
Alarm In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 256GB
Protection	IP66	IP66	IP66	IP66
Operating Temperature	-40° C to 55° C (-40° F to 131° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 55° C (-40° F to 131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Dimension	99.5 × 99.5 × 63.3mm	99.5 × 99.5 × 63.3mm	99.5 × 99.5 × 63.3mm	99.5 × 99.5 × 63.3mm

IPC Pro Series

	Mini Dome Cameras			
Model	SN-IPV8080EWAR-B	SN-IPV8056EWAR-B	SN-IPV8046EWAR-B	SN-IPV8020EWAR-B
Appearance				
Image Sensor	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	2.8mm/F2.0	2.8 mm/F2.0, 4 mm/F1.6	2.8 mm/F2.0, 4 mm/F1.6	2.8mm/F2.0
FOV	H: 103.3°, V: 55.7°	2.8 mm, H: 93.9°, V: 68.7° 4 mm, H: 80.6°, V: 57°	2.8 mm, H: 91.8°, V: 52.3° 4 mm, H: 79.2°, V: 42.4°	H: 101.5°, V: 50.5°
Day/Night	ICR	ICR	ICR	ICR
Min. Illumination	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR
WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 15m (49.2 ft)	Up to 30m (98.4 ft)	Up to 30m (98.4 ft)	Up to 15m (49.2 ft)
Max. Resolution	3840 × 2160 (8MP)	2592 × 1944 (5MP)	2592 × 1520 (4MP)	1920 × 1080 (2MP)
Max. Frame Rate	25/30fps @8MP	25/30fps @5MP	25/30fps @4MP	25/30fps @2MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Smart motion detection, and People counting.			
Audio In/Out	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic
Alarm In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 256GB
Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Operating Temperature	-40° C to 55° C (-40° F to 131° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 55° C (-40° F to 131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Dimension	99.5 × 99.5 × 63.3mm	99.5 × 99.5 × 63.3mm	99.5 × 99.5 × 63.3mm	99.5 × 99.5 × 63.3mm

IPC Pro Series

	Fixed Dome Cameras			
Model	SN-IPV8080EFAR-B	SN-IPV8056EFAR-B	SN-IPV8046EFAR-B	SN-IPV8020EFAR-B
Appearance				
Image Sensor	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	2.8mm/F2.2	2.8 mm/F2.0, 4 mm/F1.6	2.8 mm/F2.0, 4 mm/F1.6	2.8mm/F2.0
FOV	H: 103.3°, V: 55.7°	2.8 mm, H: 93.9°, V: 68.7° 4 mm, H: 80.6°, V: 57°	2.8 mm, H: 91.8°, V: 52.3° 4 mm, H: 79.2°, V: 42.4°	H: 101.5°, V: 50.5°
Day/Night	ICR	ICR	ICR	ICR
Min. Illumination	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR
WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 30m (98.4 ft)	Up to 30m (98.4 ft)	Up to 30m (98.4 ft)	Up to 30m (98.4 ft)
Max. Resolution	3840 × 2160 (8MP)	2592 × 1944 (5MP)	2592 × 1520 (4MP)	1920 × 1080 (2MP)
Max. Frame Rate	25/30fps @8MP	25/30fps @5MP	25/30fps @4MP	25/30fps @2MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Smart motion detection, and People counting.			
Audio In/Out	1/1	1/1	1/1	1/1
Alarm In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 256GB
Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Operating Temperature	-40° C to 55° C (-40° F to 131° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 55° C (-40° F to 131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Dimension	φ110 × 85.4mm	φ110 × 85.4mm	φ110 × 85.4mm	φ110 × 85.4mm

IPC Pro Series

	Vari-focal Dome Cameras					
Model	SN-IPV8080EEAR-Z	SN-IPV8056EEAR-VZ	SN-IPV8046EEAR-VZ	SN-IPV8020EEAR-Z	SN-IPV8056UAR-VZ	SN-IPV8046UAR-VZ
Appearance						
Image Sensor	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	2.7~13.5mm/F1.6 (Motorized)	2.7 to 12mm/F1.6 (Motorized, DC-Iris)	2.7 to 12mm/F1.6 (Motorized, DC-Iris)	2.7~13.5mm/F1.6 (Motorized)	2.7 to 12mm/F1.6 (Motorized, DC-Iris)	2.7 to 12mm/F1.6 (Motorized, DC-Iris)
FOV	H: 98.1°~30.9°, V: 52.6°~17.3°	H: 94° to 30.5°, V: 68.2° to 22.9°	H: 95.6° to 30.7°, V: 51.4° to 17.2°	H: 101°~28°, V: 54°~16°	H: 94° to 30.5°, V: 68.2° to 22.9°	H: 95.6° to 30.7°, V: 51.4° to 17.2°
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Min. Illumination	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR
WDR	True WDR	True WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 40m (131.2 ft)	Up to 40m (131.2 ft)	Up to 40m (131.2 ft)	Up to 40m (131.2 ft)	Up to 40m (131.2ft)	Up to 40m (131.2ft)
Max. Resolution	3840 × 2160 (8MP)	2592 × 1944 (5MP)	2592 × 1520 (4MP)	1920 × 1080 (2MP)	2592 × 1944 (5MP)	2592×1520 (4MP)
Max. Frame Rate	25/30fps @8MP	25/30fps @5MP	25/30fps @4MP	25/30fps @2MP	25/30fps @5MP	25/30fps @4MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Smart motion detection, and People counting.					
Audio In/Out	1/1	1/1	1/1	1/1	1/1	1/1
Alarm In/Out	1/1	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 256GB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Protection	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10	IP67, IK10	IP67, IK10
Operating Temperature	-40° C to 55° C (-40° F to 131° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 55° C (-40° F to 131° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Dimension	φ130 × 113 mm	φ130 × 113 mm	φ130 × 113 mm	φ130 × 113 mm	φ130 × 112mm	φ130 × 112mm

IPC Pro Series

	Cable Free Vari-focal Dome Cameras			
Model	SN-IPV8080EDAR-Z	SN-IPV8056EDAR-VZ	SN-IPV8046EDAR-VZ	SN-IPV8020EDAR-Z
Appearance				
Image Sensor	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	2.7 to 13.5 mm/F1.6 (Motorized)	2.7 to 12mm/F1.6 (Motorized, DC-Iris)	2.7 to 12mm/F1.6 (Motorized, DC-Iris)	2.7~13.5mm/F1.6 (Motorized)
FOV	H: 102.7° to 30.2° , V: 53.8° to 16.8°	H: 94° to 30.5° , V: 68.2° to 22.9°	H: 95.6° to 30.7° , V: 51.4° to 17.2°	H: 101° ~28° , V: 54° ~16°
Day/Night	ICR	ICR	ICR	ICR
Min. Illumination	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON) B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON) B/W: 0 Lux with IR	Color: 0.01Lux @ (F1.6, AGC ON) B/W: 0Lux @ (IR LED ON)
WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 40m (131.2 ft)	Up to 40m (131.2ft)	Up to 40m (131.2ft)	Up to 40m (131.2 ft)
Max. Resolution	3840 × 2160 (8MP)	2592 × 1944 (5MP)	2592×1520 (4MP)	1920 × 1080 (2MP)
Max. Frame Rate	25/30fps @8MP	25/30fps @5MP	25/30fps @4MP	25/30fps @2MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Smart motion detection, and People counting.			
Audio In/Out	1/1	1/1	1/1	1/1
Alarm In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 256GB
Protection	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10
Operating Temperature	-40° C to 55° C (-40° F to 131° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 55° C (-40° F to 131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Dimension	φ140 × 110mm	φ140 × 110mm	φ140 × 110mm	φ140 × 110mm

IPC Pro Series

	Fixed Turret Cameras			Vari-focal Turret Cameras		
Model	SN-IPR8080HCAN-B	SN-IPV8056HCAR-B	SN-IPV8046HCAR-B	SN-IPR8080HDAN-Z	SN-IPV8056HDAR-Z	SN-IPV8046HDAR-Z
Appearance						
Image Sensor	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	2.8 mm/F2.0, 4 mm/F1.6	2.8 mm/F2.0, 4 mm/F1.6	2.8 mm/F2.0, 4 mm/F1.6	2.7~13.5mm/F1.6 (Motorized)	2.7~13.5mm/F1.6 (Motorized)	2.7~13.5mm/F1.6 (Motorized)
FOV	2.8 mm, H: 103.3°, V: 55.7° 4 mm, H: 88.0°, V: 44.8°	2.8 mm, H: 93.9°, V: 68.7° 4 mm, H: 80.6°, V: 57°	2.8 mm, H: 91.8°, V: 52.3° 4 mm, H: 79.2°, V: 42.4°	H: 102.7° to 30.2°, V: 53.8° to 16.8°	H: 98.3° to 27.5°, V: 71.3° to 20.3°	H: 96.6° to 27°, V: 51.9° to 15.1°
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Min. Illumination	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON) B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON) B/W: 0 Lux with IR	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON) B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON) B/W: 0 Lux with IR
WDR	True WDR	True WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 30m (98.4 ft)	Up to 30m (98.4 ft)	Up to 30m (98.4 ft)	Up to 40m (131.2 ft)	Up to 40m (131.2 ft)	Up to 40m (131.2 ft)
Max. Resolution	3840 × 2160 (8MP)	2592 × 1944 (5MP)	2592 × 1520 (4MP)	1920×1080 (2MP)	3840×2160 (8MP)	2592×1944 (5MP)
Max. Frame Rate	25/30fps @8MP	25/30fps @5MP	25/30fps @4MP	25/30fps@ 2MP	25/30fps@ 8MP	25/30fps@ 5MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Smart motion detection, and People counting.					
Audio In/Out	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic
Alarm In/Out	1/1	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 256GB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Protection	IP66	IP66	IP66	IP66	IP67, IK10	IP67, IK10
Operating Temperature	-40° C to 55° C (-40° F to 131° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C~55° C (-40° F~131° F)	-40° C to 55° C (-40° F to 131° F)	-40° C to 60° C (-40° F to 140° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Dimension	φ118.2 × 93.9 mm	φ118.2 × 93.9 mm	φ118.2 × 93.9 mm	φ140 × 119.2 mm	φ140 × 119.2 mm	φ140 × 119.2 mm

IPC Pro Series

	Vari-focal Turret Cameras			
Model	SN-IPR8080CQAN-Z	SN-IPV8056CQAR-Z	SN-IPV8046CQAR-Z	SN-IPR8020CQAN-Z
Appearance				
Image Sensor	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	2.7~13.5mm/F1.6 (Motorized)	2.7 to 13.5mm/F1.6 (Motorized)	2.7 to 13.5mm/F1.6 (Motorized)	2.7~13.5mm/F1.6 (Motorized)
FOV	H: 102.7° to 30.2°, V: 53.8° to 16.8°	H: 98.3° to 27.5°, V: 71.3° to 20.3°	H: 96.6° to 27°, V: 51.9° to 15.1°	H: 101° to 28°, V: 54° to 16°
Day/Night	ICR	ICR	ICR	ICR
Min. Illumination	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR
WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 40m (131.2 ft)	Up to 40m (131.2 ft)	Up to 40m (131.2 ft)	Up to 40m (131.2 ft)
Max. Resolution	3840 × 2160 (8MP)	2592 × 1944 (5MP)	2592 × 1520 (4MP)	1920 × 1080 (2MP)
Max. Frame Rate	25/30fps @8MP	25/30fps @5MP	25/30fps @4MP	25/30fps @2MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Smart motion detection, and People counting.			
Audio In/Out	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker
Alarm In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 256GB
Protection	IP66	IP66	IP66	IP66
Operating Temperature	-40° C to 55° C (-40° F to 131° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 55° C (-40° F to 131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Dimension	φ140 × 119.2mm	φ140 × 119.2mm	φ140 × 119.2mm	φ140 × 119.2mm

NETWORK CAMERAS

Eco Series

- 2MP ~ 12MP resolution
- Supports Face, Human, and Vehicle Detection
- Meets the intelligent security needs of small and medium-sized enterprises
- Smart Events: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking and Smart motion detection, People counting and human detection)



Deep Learning Algorithm



Human/Vehicle Detection



Smart Event



Smart IR



Memory Slot



Multiple Resolution



IPC Eco Series

	Smart Dual Illumination Cameras		
Model	SN-IPV7180HCAS-B	SN-IPV7150HCAS-B	SN-IPV7120HCAS-B
Appearance			
Image sensor	1/2.7" CMOS	1/2.7" CMOS	1/2.8" CMOS
Lens	2.8 mm/F1.6, 4 mm/F1.6	2.8 mm/F1.6, 4 mm/F1.6	2.8 mm/F2.0, 4 mm/F1.6
FOV-H	2.8 mm, H: 109.5°, V: 59.8° 4 mm, H: 91.5°, V: 46.3°	2.8 mm, H: 110.9°, V: 60° 4 mm, H: 91.8°, V: 46.3°	2.8 mm, H: 101.3°, V: 54.4° 4 mm, H: 88.1°, V: 47.8°
Day and Night	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.01Lux @(F1.6, AGC ON), B/W: 0.001Lux @(F1.6, AGC ON), 0Lux with light ON	Color: 0.01Lux @(F1.6, AGC ON), B/W: 0.001Lux @(F1.6, AGC ON), 0Lux with light ON	Color: 0.01Lux @(F1.6, AGC ON), B/W: 0.001Lux @(F1.6, AGC ON), 0Lux with light ON
WDR	True WDR	True WDR	True WDR
Illumination Distance	IR distance up to 30 m (98.4ft) Warm distance up to 20 m (65.6ft)	IR distance up to 30 m (98.4ft) Warm distance up to 20 m (65.6ft)	IR distance up to 30 m (98.4 ft) Warm light distance up to 20 m (65.6 ft)
Max. Resolution	3840 × 2160 (8MP)	2880 × 1620 (5MP)	1920×1080 (2MP)
Frames Per Second	25fps @8MP	25/30fps @5MP	25/30fps @2MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection, and People counting.		
Audio In/Out	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic
Alarm In/Out	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Ingress Protection	IP66	IP66	IP66
Operating Temperature	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	φ118.2 × 93.9 mm	φ118.2 × 93.9 mm	φ118.2 × 93.9 mm

Note: The 7180 Series Camera does not support Capture functionality.

IPC Eco Series

	Smart Dual Illumination Cameras			
Model	SN-IPV7180HZBS-B	SN-IPV7150HZBS-B	SN-IPV7180HNBS-B	SN-IPV7150HNBS-B
Appearance				
Image sensor	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS
Lens	2.8 mm/F1.6, 4 mm/F1.6	2.8 mm/F1.6, 4 mm/F1.6	2.8 mm/F1.6, 4 mm/F1.6	2.8 mm/F1.6
FOV-H	2.8 mm, H: 109.5°, V: 59.8° 4 mm, H: 91.5°, V: 46.3°	2.8 mm, H: 110.9°, V: 60° 4 mm, H: 91.8°, V: 46.3°	2.8 mm, H: 109.5°, V: 59.8° 4 mm, H: 91.5°, V: 46.3°	2.8 mm, H: 110.9°, V: 60° 4 mm, H: 91.8°, V: 46.3°
Day and Night	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.01Lux @(F1.6, AGC ON), B/W: 0.001Lux @(F1.6, AGC ON), 0Lux with light ON	Color: 0.01Lux @(F1.6, AGC ON), B/W: 0.001Lux @(F1.6, AGC ON), 0Lux with light ON	Color: 0.01Lux @(F1.6, AGC ON), B/W: 0.001Lux @(F1.6, AGC ON), 0Lux with light ON	Color: 0.01Lux @(F1.6, AGC ON), B/W: 0.001Lux @(F1.6, AGC ON), 0Lux with light ON
WDR	True WDR	True WDR	True WDR	True WDR
Illumination Distance	IR distance up to 30 m (98.4ft) Warm distance up to 20 m (65.6ft)	IR distance up to 30 m (98.4ft) Warm distance up to 20 m (65.6ft)	IR distance up to 30 m (98.4ft) Warm distance up to 20 m (65.6ft)	IR distance up to 30 m (98.4ft) Warm distance up to 20 m (65.6ft)
Max. Resolution	3840 × 2160 (8MP)	2880 × 1620 (5MP)	3840 × 2160 (8MP)	2880 × 1620 (5MP)
Frames Per Second	25fps @8MP	25/30fps @5MP	25fps @8MP	25/30fps @5MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection, and People counting.			
Audio In/Out	-/-, Built-in Mic	-/-, Built-in Mic	-/-, Built-in Mic and Speaker	-/-, Built-in Mic and Speaker
Alarm In/Out	-/-	-/-	-/-	-/-
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Ingress Protection	IP66	IP66	IP66	IP66
Operating Temperature	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	Φ111 × 95mm	Φ111 × 95mm	Φ111 × 100.8 mm	Φ111 × 100.8 mm

Note: The 7180 Series Camera does not support Capture functionality.

IPC Eco Series

	Smart Dual Illumination Cameras			
Model	SN-IPR7180KFAS-B	SN-IPR7180KFAS-Z	SN-IPR7150KFAS-B	SN-IPR7150KFAS-Z
Appearance				
Image Sensor	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS
Lens	2.8 mm/F1.6, 4 mm/F1.6	2.7 to 13.5 mm/F1.6	2.8 mm/F1.6, 4 mm/F1.6	2.7 to 13.5 mm/F1.6
FOV	2.8 mm: H: 109.5°, V: 59.8° 4 mm: H: 91.5°, V: 46.3°	H: 102.8° to 32.6°, V: 54.5° to 18.3°	2.8 mm, H: 110.9°, V: 60° 4 mm, H: 91.8°, V: 46.3°	H: 102.3° to 33.1°, V: 54.3° to 18.5°
Day/Night	ICR	ICR	ICR	ICR
Min. Illumination	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on
WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	IR distance up to 30 m (98.4 ft) Warm light distance up to 30 m (98.4 ft)	IR distance up to 40 m (131.2 ft) Warm light distance up to 30 m (98.4 ft)	IR distance up to 30 m (98.4 ft) Warm light distance up to 30 m (98.4 ft)	IR distance up to 40 m (131.2 ft) Warm light distance up to 30 m (98.4 ft)
Max. Resolution	8MP (3840 × 2160)	8MP (3840 × 2160)	5MP (2880 × 1620)	5MP (2880 × 1620)
Max. Frame Rate	25fps @8MP	25fps @8MP	25/30fps @5MP	25/30fps @5MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection, and People counting.			
Audio In/Out	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker
Alarm In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Protection	IP66	IP66	IP66	IP66
Operating Temperature	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Dimension	188.0 × 80 × 77 mm	188.0 × 80 × 77 mm	188.0 × 80 × 77 mm	188.0 × 80 × 77 mm

Note: The 7180 Series Camera does not support Capture functionality.

IPC Eco Series

	Fixed Bullet Cameras			
Model	SN-IPR8190BSBN-B	SN-IPR7180BSBN-B	SN-IPR7150BSBN-B	SN-IPR7120BSBN-B
Appearance				
Image sensor	1/2.5" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.8" CMOS
Lens	2.8 mm/F1.6	2.8 mm/F2.0	2.8 mm/F2.0	2.8 mm/F2.0
FOV-H	H: 102.9°, V: 52.1°	H: 105°, V: 56°	H: 105.5°, V: 56.3°	H: 101.3°, V: 54.4°
Day and Night	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on
WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 30 m (98.4 ft)	Up to 30 m (98.4 ft)	Up to 30 m (98.4 ft)	Up to 30 m (98.4 ft)
Max. Resolution	4512 × 2512 (12MP)	3840 × 2160 (8MP)	2880 × 1620 (5MP)	1920×1080 (2MP)
Frames Per Second	20fps @ 12MP	25fps @ 8MP	25/30fps @ 5MP	25/30fps @2MP
Smart Function	Support Face, Human, Vehicle Detection. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal Parking, Smart motion detection, and People counting		Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal Parking, Smart motion detection, and People counting	
Audio In/Out	-/-, Built-in Mic	-/-, Built-in Mic	-/-, Built-in Mic	-/-, Built-in Mic
Alarm In/Out	-/-	-/-	-/-	-/-
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Ingress Protection	IP66	IP66	IP66	IP66
Operating Temperature	-35° C to 55° C (-31° F to 131° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	154.5 × 64 × 64 mm	154.5 × 64 × 64 mm	154.5 × 64 × 64 mm	154.5 × 64 × 64 mm

IPC Eco Series

	Vari-focal Bullet Cameras					
Model	SN-IPR7180BYAN-B	SN-IPR7150BYAN-B	SN-IPR7120BYAN-B	SN-IPR7180BZAN-Z	SN-IPR7150BZAN-Z	SN-IPR7120BZAN-Z
Appearance						
Image sensor	1/2.7" CMOS	1/2.7" CMOS	1/2.8" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.8" CMOS
Lens	2.8 mm/F2.0, 4 mm/F1.6	2.8 mm/F2.0, 4 mm/F1.6	2.8 mm/F2.0, 4 mm/F1.6	2.7 to 13.5 mm/F1.6	2.7 to 13.5 mm/F1.6	2.7 to 13.5 mm/F1.6
FOV-H	2.8 mm: H: 105°, V: 56°, 4 mm: H: 91.5°, V: 46.3°	2.8 mm: H: 105.5°, V: 56.3°, 4 mm: H: 91.8°, V: 46.3°	2.8 mm: H: 101.3°, V: 54.4°, 4 mm: H: 88.1°, V: 44.8°	H: 102.8° to 32.6°, V: 54.5° to 18.3°	H: 102.3° to 33.1°, V: 54.3° to 18.5°	H: 101° to 29.3°, V: 54.4° to 12.6°
Day and Night	ICR	ICR	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on
WDR	True WDR	True WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 30 m (98.4ft)	Up to 30 m (98.4ft)	Up to 30 m (98.4ft)	Up to 40 m (131.2ft)	Up to 40 m (131.2ft)	Up to 40 m (131.2ft)
Max. Resolution	3840 × 2160 (8MP)	2880 × 1620 (5MP)	1920 × 1080 (2MP)	3840 × 2160 (8MP)	2880 × 1620 (5MP)	1920 × 1080 (2MP)
Frames Per Second	25fps @8MP	25/30fps @5MP	25/30fps @2MP	25fps @8MP	25/30fps @5MP	25/30fps @2MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection, and People counting.			Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection, and People counting.		
Audio In/Out	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic	1/1	1/1	1/1
Alarm In/Out	1/1	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Ingress Protection	IP66	IP66	IP66	IP67	IP67	IP67
Operating Temperature	-30° C~60° C (-22° F ~140° F)	-30° C~60° C (-22° F ~140° F)	-30° C~60° C (-22° F ~140° F)	-30° C~60° C (-22° F ~140° F)	-30° C~60° C (-22° F ~140° F)	-30° C~60° C (-22° F ~140° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	187.6 × 64 × 64mm	187.6 × 64 × 64mm	187.6 × 64 × 64mm	232 × 80 × 80 mm	232 × 80 × 80 mm	232 × 80 × 80 mm

Note: The 7180 Series Camera does not support Capture functionality.

IPC Eco Series

	Fixed Dome Cameras			
Model	SN-IPV8190EGBR-B	SN-IPV7180EGAR-B	SN-IPV7150EGAR-B	SN-IPV7120EGAR-B
Appearance				
Image sensor	1/2.5" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.8" CMOS
Lens	2.8 mm/F1.6	2.8 mm/F2.0	2.8 mm/F2.0	2.8 mm/F2.0
FOV-H	H: 102.9°, V: 52.1°	H: 105°, V: 56°	H: 105.5°, V: 56.3°	H: 101.3°, V: 54.4°
Day and Night	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on
WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 30 m (98.4 ft)	Up to 30 m (98.4 ft)	Up to 30 m (98.4 ft)	Up to 30 m (98.4 ft)
Max. Resolution	4512 × 2512 (12MP)	3840 × 2160 (8MP)	2880 × 1620 (5MP)	1920×1080 (2MP)
Frames Per Second	20fps @ 12MP	25fps @ 8MP	25/30fps @ 5MP	25/30fps @2MP
Smart Function	Support Face, Human, Vehicle Detection. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal Parking, Smart motion detection, and People counting		Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal Parking, Smart motion detection, and People counting	
Audio In/Out	-/-, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic
Alarm In/Out	-/-	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Ingress Protection	IP66	IP66	IP66	IP66
Operating Temperature	-35° C to 55° C (-31° F to 131° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	99.6 × 99.6 × 63.3 mm	99.6 × 99.6 × 63.3 mm	99.6 × 99.6 × 63.3 mm	99.6 × 99.6 × 63.3 mm

Note: The 7180 Series Camera does not support Capture functionality.

IPC Eco Series

	Fixed Dome Cameras		
Model	SN-IPV7180EWAR-B	SN-IPV7150EWAR-B	SN-IPV7120EWAR-B
Appearance			
Image sensor	1/2.7" CMOS	1/2.7" CMOS	1/2.8" CMOS
Lens	2.8 mm/F2.0	2.8 mm/F2.0	2.8 mm/F2.0
FOV-H	H: 105° , V: 56°	H: 105.5° , V: 56.3°	H: 101.3° , V: 54.4°
Day and Night	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on
WDR	True WDR	True WDR	True WDR
IR Distance	Up to 30 m (98.4 ft)	Up to 30 m (98.4 ft)	Up to 30 m (98.4 ft)
Max. Resolution	3840 × 2160 (8MP)	2880 × 1620 (5MP)	1920×1080 (2MP)
Frames Per Second	25fps @ 8MP	25/30fps @ 5MP	25/30fps @2MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection, and People counting.		
Audio In/Out	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic
Alarm In/Out	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Ingress Protection	IP66	IP66	IP66
Operating Temperature	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	99.6 × 99.6 × 63.3 mm	99.6 × 99.6 × 63.3 mm	99.6 × 99.6 × 63.3 mm

Note: The 7180 Series Camera does not support Capture functionality.

IPC Eco Series

	Fixed Dome Cameras			Vari-focal Dome Cameras		
Model	SN-IPV7180EFAR-B	SN-IPV7150EFAR-B	SN-IPV7120EFAR-B	SN-IPV7180EEAR-Z	SN-IPV7150EEAR-Z	SN-IPV7120EEAR-Z
Appearance						
Image sensor	1/2.7" CMOS	1/2.7" CMOS	1/2.8" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.8" CMOS
Lens	2.8 mm/F2.0, 4 mm/F1.6	2.8 mm/F2.0, 4 mm/F1.6	2.8 mm/F2.0, 4 mm/F1.6	2.7 to 13.5 mm/F1.6	2.7 to 13.5 mm/F1.6	2.7 to 13.5 mm/F1.6
FOV-H	2.8 mm: H: 105°, V: 56°, 4 mm: H: 91.5°, V: 46.3°	2.8 mm: H: 105.5°, V: 56.3°, 4 mm: H: 91.8°, V: 46.3°	2.8 mm: H: 101.3°, V: 54.4°, 4 mm: H: 88.1°, V: 44.8°	H: 102.8° to 32.6°, V: 54.5° to 18.3°	H: 102.3° to 33.1°, V: 54.3° to 18.5°	H: 101° to 28°, V: 54° to 16°
Day and Night	ICR	ICR	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on
WDR	True WDR	True WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 30 m (98.4ft)	Up to 30 m (98.4ft)	Up to 30 m (98.4ft)	Up to 40 m (131.2ft)	Up to 40 m (131.2ft)	Up to 40 m (131.2ft)
Max. Resolution	3840 × 2160 (8MP)	2880 × 1620 (5MP)	1920 × 1080 (2MP)	3840 × 2160 (8MP)	2880 × 1620 (5MP)	1920 × 1080 (2MP)
Frames Per Second	25fps @8MP	25/30fps @5MP	25/30fps @2MP	25fps @8MP	25/30fps @5MP	25/30fps @2MP
Smart Function	Support Face, Human, Vehicle Detection. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection, and People counting			Support Face, Human, Vehicle Detection. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection, and People counting		
Audio In/Out	1/1	1/1	1/1	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic
Alarm In/Out	1/1	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP66, IK10	IP66, IK10	IP66, IK10
Operating Temperature	-30° C~60° C (-22° F ~140° F)	-30° C~60° C (-22° F ~140° F)	-30° C~60° C (-22° F ~140° F)	-30° C~60° C (-22° F ~140° F)	-30° C~60° C (-22° F ~140° F)	-30° C~60° C (-22° F ~140° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	φ110 × 85.4 mm	φ110 × 85.4 mm	φ110 × 85.4 mm	φ130 × 113mm	φ130 × 113mm	φ130 × 113mm

Note: The 7180 Series Camera does not support Capture functionality.

IPC Eco Series

	Fixed Turret Cameras			
Model	SN-IPV8190HCBR-B	SN-IPV7180HCAR-B	SN-IPV7150HCAR-B	SN-IPV7120HCAR-B
Appearance				
Image sensor	1/2.5" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.8" CMOS
Lens	2.8 mm/F1.6	2.8 mm/F2.0, 4 mm/F1.6	2.8 mm/F2.0, 4 mm/F1.6	2.8 mm/F2.0, 4 mm/F1.6
FOV-H	H: 102.9°, V: 52.1°	2.8 mm: H: 105°, V: 56°, 4 mm: H: 91.5°, V: 46.3°	2.8 mm: H: 105.5°, V: 56.3°, 4 mm: H: 91.8°, V: 46.3°	2.8 mm, H: 101.3°, V: 54.4° 4 mm, H: 88.1°, V: 44.8°
Day and Night	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on
WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 30 m (98.4 ft)	Up to 30 m (98.4ft)	Up to 30 m (98.4ft)	Up to 30 m (98.4ft)
Max. Resolution	4512 × 2512 (12MP)	3840 × 2160 (8MP)	2880 × 1620 (5MP)	1920 × 1080 (2MP)
Frames Per Second	20fps @ 12MP	25fps @8MP	25/30fps @5MP	25/30fps @2MP
Smart Function	Support Face, Human, Vehicle Detection. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal Parking, Smart motion detection, and People counting		Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal Parking, Smart motion detection, and People counting	
Audio In/Out	-/-, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic
Alarm In/Out	-/-	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Ingress Protection	IP66	IP66	IP66	IP66
Operating Temperature	-35° C to 55° C (-31° F to 131° F)	-30° C~60° C (-22° F ~140° F)	-30° C~60° C (-22° F ~140° F)	-30° C~60° C (-22° F ~140° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	φ110 × 94 mm	φ110 × 94 mm	φ110 × 94 mm	φ110 × 94 mm

Note: The 7180 Series Camera does not support Capture functionality.

IPC Eco Series

	Vari-focal Turret Cameras		
Model	SN-IPV7180HDAR-Z	SN-IPV7150HDAR-Z	SN-IPV7120HDAR-Z
Appearance			
Image sensor	1/2.7" CMOS	1/2.7" CMOS	1/2.8" CMOS
Lens	2.7 to 13.5 mm/F1.6	2.7 to 13.5 mm/F1.6	2.7 to 13.5 mm/F1.6
FOV-H	H: 102.8° to 32.6°, V: 54.5° to 18.3°	H: 102.3° to 33.1°, V: 54.3° to 18.5°	H: 101° to 29.3°, V: 54.4° to 12.6°
Day and Night	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on
WDR	True WDR	True WDR	True WDR
IR Distance	Up to 40 m (131.2ft)	Up to 40 m (131.2ft)	Up to 40 m (131.2ft)
Max. Resolution	3840 × 2160 (8MP)	2880 × 1620 (5MP)	1920 × 1080 (2MP)
Frames Per Second	25fps @8MP	25/30fps @5MP	25/30fps @2MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection, and People counting.		
Audio In/Out	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic
Alarm In/Out	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Ingress Protection	IP66	IP66	IP66
Operating Temperature	-30° C~60° C (-22° F ~140° F)	-30° C~60° C (-22° F ~140° F)	-30° C~60° C (-22° F ~140° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	φ130 × 113mm	φ130 × 113mm	φ130 × 113mm

Note: The 7180 Series Camera does not support Capture functionality.

NETWORK CAMERAS

Lite Series

- 2MP~5MP resolution
- Support Face, Human, Vehicle Detection
- Smart Events: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking and Smart motion detection, People counting



Deep Learning Algorithm



Human/Vehicle Detection



Smart Event



Smart IR



Memory Slot



Multiple Resolution



IPC Lite Series

	Smart Dual Light Cameras					
Model	SN-IPR5350KABS-S-B	SN-IPR5340KABS-S-B	SN-IPR5321KABS-S-B	SN-IPR5350KFBS(-S)-Z	SN-IPR5340KFBS(-S)-Z	SN-IPR5321KFBS(-S)-Z
Appearance						
Image Sensor	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS
Lens	2.8 mm/F1.6	2.8 mm/F1.6	2.8 mm/F1.6	2.7 to 13.5 mm/F1.6	2.7 to 13.5 mm/F1.6	2.7 to 13.5 mm/F1.6
FOV	H: 96.3°, V: 52.1°	H: 96.3°, V: 52.1°	H: 95.3°, V: 52.4°	H: 90° to 29.8°, V: 48.3° to 16.8°	H: 90° to 29.8°, V: 48.3° to 16.8°	H: 91.3° to 29°, V: 49.1° to 16.2°
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Min. Illumination	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on
WDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR
Illumination Distance	IR: Up to 30 m Warm light: Up to 20 m	IR: Up to 30 m Warm light: Up to 20 m	IR: Up to 30 m Warm light: Up to 20 m	IR: Up to 40 m Warm light: Up to 30 m	IR: Up to 40 m Warm light: Up to 30 m	IR: Up to 40 m Warm light: Up to 30 m
Max. Resolution	2560 × 1920 (5MP)	2560 × 1440 (4MP)	1920 × 1080 (2MP)	2560 × 1920 (5MP)	2560 × 1440 (4MP)	1920 × 1080 (2MP)
Max. Frame Rate	25fps @ 5MP	25/30fps @ 4MP	25/30fps @ 2MP	25fps @ 5MP	25/30fps @ 4MP	25/30fps @ 2MP
Smart Function	Support Face, Human, Vehicle Detection. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal Parking, Smart motion detection, and People counting.					
Audio In/Out	-/-, Built-in Mic and Speaker	-/-, Built-in Mic and Speaker	-/-, Built-in Mic and Speaker	-/-, Built-in Mic With -S: Built-in Speaker	-/-, Built-in Mic With -S: Built-in Speaker	-/-, Built-in Mic With -S: Built-in Speaker
Alarm In/Out	-/-	-/-	-/-	-/-	-/-	-/-
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Protection	IP66	IP66	IP66	IP66	IP66	IP66
Operating Temperature	-25° C to 55° C (-13° F to 131° F)	-25° C to 55° C (-13° F to 131° F)	-25° C to 55° C (-13° F to 131° F)	-25° C to 55° C (-13° F to 131° F)	-25° C to 55° C (-13° F to 131° F)	-25° C to 55° C (-13° F to 131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Dimension	179.1 × 68.4 × 68.4 mm	179.1 × 68.4 × 68.4 mm	179.1 × 68.4 × 68.4 mm	188 × 80 × 77 mm	188 × 80 × 77 mm	188 × 80 × 77 mm

IPC Lite Series

	Smart Dual Light Cameras					
Model	SN-IPV5350HZBS-B	SN-IPV5340HZBS-B	SN-IPV5321HZBS-B	SN-IPV5350HNBS-B	SN-IPV5340HNBS-B	SN-IPV5321HNBS-B
Appearance						
Image Sensor	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS
Lens	2.8 mm/F1.6	2.8 mm/F1.6	2.8 mm/F1.6	2.8 mm/F1.6	2.8 mm/F1.6	2.8 mm/F1.6
FOV	H: 96.3°, V: 52.1°	H: 96.3°, V: 52.1°	H: 95.3°, V: 52.4°	H: 96.3°, V: 52.1°	H: 96.3°, V: 52.1°	H: 95.3°, V: 52.4°
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
Min. Illumination	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on
WDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR
Illumination Distance	IR: Up to 30 m Warm light: Up to 20 m	IR: Up to 30 m Warm light: Up to 20 m	IR: Up to 30 m Warm light: Up to 20 m	IR: Up to 30 m Warm light: Up to 20 m	IR: Up to 30 m Warm light: Up to 20 m	IR: Up to 30 m Warm light: Up to 20 m
Max. Resolution	2560 × 1920 (5MP)	2560 × 1440 (4MP)	1920 × 1080 (2MP)	2560 × 1920 (5MP)	2560 × 1440 (4MP)	1920 × 1080 (2MP)
Max. Frame Rate	25fps @ 5MP	25/30fps @ 4MP	25/30fps @ 2MP	25fps @ 5MP	25/30fps @ 4MP	25/30fps @ 2MP
Smart Function	Support Face, Human, Vehicle Detection. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal Parking, Smart motion detection, and People counting.					
Audio In/Out	-/-, Built-in Mic	-/-, Built-in Mic	-/-, Built-in Mic	-/-, Built-in Mic and Speaker	-/-, Built-in Mic and Speaker	-/-, Built-in Mic and Speaker
Alarm In/Out	-/-	-/-	-/-	-/-	-/-	-/-
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Protection	IP66	IP66	IP66	IP66	IP66	IP66
Operating Temperature	-25° C to 55° C (-13° F to 131° F)	-25° C to 55° C (-13° F to 131° F)	-25° C to 55° C (-13° F to 131° F)	-25° C to 55° C (-13° F to 131° F)	-25° C to 55° C (-13° F to 131° F)	-25° C to 55° C (-13° F to 131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Dimension	Φ111 × 95 mm	Φ111 × 95 mm	Φ111 × 95 mm	Φ111 × 100.8 mm	Φ111 × 100.8 mm	Φ111 × 100.8 mm

IPC Lite Series

	Smart Dual Light Cameras		
Model	SN-IPV5350MBBS(-S)-Z	SN-IPV5340MBBS(-S)-Z	SN-IPV5321MBBS(-S)-Z
Appearance			
Image sensor	1/3" CMOS	1/3" CMOS	1/3" CMOS
Lens	2.7 to 13.5 mm/F1.6	2.7 to 13.5 mm/F1.6	2.7 to 13.5 mm/F1.6
FOV-H	H: 90° to 29.8°, V: 48.3° to 16.8°	H: 90° to 29.8°, V: 48.3° to 16.8°	H: 91.3° to 29°, V: 49.1° to 16.2°
Day and Night	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with light on
WDR	DWDR	DWDR	DWDR
Illumination Distance	IR: Up to 40 m Warm light: Up to 30 m	IR: Up to 40 m Warm light: Up to 30 m	IR: Up to 40 m Warm light: Up to 30 m
Max. Resolution	2560 × 1920 (5MP)	2560 × 1440 (4MP)	1920 × 1080 (2MP)
Frames Per Second	25fps @ 5MP	25/30fps @ 4MP	25/30fps @ 2MP
Smart Function	Support Face, Human, Vehicle Detection. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection, and People counting.		
Audio In/Out	-/-, Built-in Mic With -S: Built-in Speaker	-/-, Built-in Mic With -S: Built-in Speaker	-/-, Built-in Mic With -S: Built-in Speaker
Alarm In/Out	-/-	-/-	-/-
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Ingress Protection	IP66	IP66	IP66
Operating Temperature	-25° C to 55° C (-13° F to 131° F)	-25° C to 55° C (-13° F to 131° F)	-25° C to 55° C (-13° F to 131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	Φ142.4 × 124.2 mm	Φ142.4 × 124.2 mm	Φ142.4 × 124.2 mm

IPC Lite Series

	IR Dome Cameras					
Model	SN-IPV5350EFAR-B	SN-IPV5340EFAR-B	SN-IPV5321EFAR-B	SN-IPV5350EEBR-Z	SN-IPV5340EEBR-Z	SN-IPV5321EEBR-Z
Appearance						
Image sensor	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS
Lens	2.8 mm/F2.0	2.8 mm/F2.0	2.8 mm/F2.0	2.7 to 13.5 mm/F1.6	2.7 to 13.5 mm/F1.6	2.7 to 13.5 mm/F1.6
FOV-H	H: 96.4°, V: 53.8°	H: 96.4°, V: 53.8°	H: 93.1°, V: 52.2°	H: 90° to 29.8°, V: 48.3° to 16.8°	H: 90° to 29.8°, V: 48.3° to 16.8°	H: 90° to 29.8°, V: 48.3° to 16.8°
Day and Night	ICR	ICR	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on
WDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR
IR Distance	Up to 30 m (98.4 ft)	Up to 30 m (98.4 ft)	Up to 30 m (98.4 ft)	Up to 40 m (131.2ft)	Up to 40 m (131.2ft)	Up to 40 m (131.2ft)
Max. Resolution	2560 × 1920 (5MP)	2560 × 1440 (4MP)	1920 × 1080 (2MP)	2560 × 1920 (5MP)	2560 × 1440 (4MP)	1920 × 1080 (2MP)
Frames Per Second	25fps @ 5MP	25/30fps @ 4MP	25/30fps @ 2MP	25fps @ 5MP	25/30fps @ 4MP	25/30fps @ 2MP
Smart Function	Support Face, Human, Vehicle Detection. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal Parking, Smart motion detection, and People counting.					
Audio In/Out	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic	-/-, Built-in Mic	-/-, Built-in Mic	-/-, Built-in Mic
Alarm In/Out	1/1	1/1	1/1	-/-	-/-	-/-
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP66, IK10	IP66, IK10	IP66, IK10
Operating Temperature	-25° C to 55° C (-13° F to 131° F)	-25° C to 55° C (-13° F to 131° F)	-25° C to 55° C (-13° F to 131° F)	-25° C to 55° C (-13° F to 131° F)	-25° C to 55° C (-13° F to 131° F)	-25° C to 55° C (-13° F to 131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	Φ110 × 85.4 mm	Φ110 × 85.4 mm	Φ110 × 85.4 mm	Φ130 × 113.3 mm	Φ130 × 113.3 mm	Φ130 × 113.3 mm

IPC Lite Series

	IR Turret Cameras		
Model	SN-IPV5350HZBR-B	SN-IPV5340HZBR-B	SN-IPV5321HZBR-B
Appearance			
Image Sensor	1/3" CMOS	1/3" CMOS	1/3" CMOS
Lens	2.8 mm/F2.0	2.8 mm/F2.0	2.8 mm/F2.0
FOV	H: 96.4° , V: 53.8°	H: 96.4° , V: 53.8°	H: 93.1° , V: 52.2°
Day/Night	ICR	ICR	ICR
Min. Illumination	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on
WDR	DWDR	DWDR	DWDR
IR Distance	Up to 30 m (98.4 ft)	Up to 30 m (98.4 ft)	Up to 30 m (98.4 ft)
Max. Resolution	2560 × 1920 (5MP)	2560 × 1440 (4MP)	1920 × 1080 (2MP)
Max. Frame Rate	25fps @ 5MP	25/30fps @ 4MP	25/30fps @ 2MP
Smart Function	Support Face, Human, Vehicle Detection. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection, and People counting.		
Audio In/Out	-/-, Built-in Mic	-/-, Built-in Mic	-/-, Built-in Mic
Alarm In/Out	-/-	-/-	-/-
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Protection	IP66	IP66	IP66
Operating Temperature	-25° C to 55° C (-13° F to 131° F)	-25° C to 55° C (-13° F to 131° F)	-25° C to 55° C (-13° F to 131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Dimension	Φ111 × 95 mm	Φ111 × 95 mm	Φ111 × 95 mm

NETWORK CAMERAS

Special Series

- 2MP ~ 5MP resolution
- Various lens options
- WDR
- Audio & Alarm port
- Supports Face, Human, and Vehicle Detection
- Smart Events: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking and Smart motion detection, People counting



Certified



True WDR



Edge AI



2MP ~ 5MP



Special Series

	Covert Cameras			
Model	SN-MNC8056KBA1-C1B	SN-MNC8056KBA1-C2P	SN-MNC8046KBA1-C1B	SN-MNC8046KBA1-C2P
Appearance				
Image sensor	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	2.8mm/F1.6 (Fixed)	2.8mm/F2.0, 3.7mm/F2.0 (Pinhole)	2.8mm/F1.6 (Fixed)	2.8mm/F2.0, 3.7mm/F2.0 (Pinhole)
FOV-H	H: 105.4°, V: 75.8°	2.8 mm, H: 87.2°, V: 60.6° 3.7 mm, H: 71°, V: 50.2°	H: 100°, V: 57.3°	2.8 mm, H: 87.2°, V: 46° 3.7 mm, H: 71°, V: 38.1°
Day and Night	Fixed filter	Fixed filter	Fixed filter	Fixed filter
Min. Illumination(lux)	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0.001 Lux (F1.6, AGC ON)	Color: 0.01 Lux @ (F2.0, AGC ON), B/W: 0.005 Lux (F2.0, AGC ON)	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0.001 Lux (F1.6, AGC ON)	Color: 0.01 Lux @ (F2.0, AGC ON), B/W: 0.005 Lux (F2.0, AGC ON)
WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	-	-	-	-
Max. Resolution	2592 × 1944 (5MP)	2592 × 1944 (5MP)	2592 × 1520 (4MP)	2592 × 1520 (4MP)
Frames Per Second	25/30fps @ 5MP	25/30fps @ 5MP	25/30fps @ 4MP	25/30fps @ 4MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking and Smart motion detection, People counting			
Audio In/Out	1/1	1/1	1/1	1/1
Alarm In/Out	2/1	2/1	2/1	2/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Ingress Protection	-	-	-	-
Operating Temperature	-30° C to 55° C (-22° F to 131° F)	-30° C to 55° C (-22° F to 131° F)	-30° C to 55° C (-22° F to 131° F)	-30° C to 55° C (-22° F to 131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	Camera: φ30 × 34.4 mm Main body: 86.0 × 75.1 × 33.5 mm	Camera: φ30 × 22.9 mm Main body: 86.0 × 75.1 × 33.5 mm	Camera: φ30 × 34.4 mm Main body: 86.0 × 75.1 × 33.5 mm	Camera: φ30 × 22.9 mm Main body: 86.0 × 75.1 × 33.5 mm

Special Series

	Covert Cameras			
Model	SN-MNC8056KBA1-S1B	SN-MNC8056KBA1-S1P	SN-MNC8046KBA1-S1B	SN-MNC8046KBA1-S1P
Appearance				
Image sensor	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" CMOS	1/2.8" CMOS
Lens	2.8mm/F2.0 (Fixed)	3.7mm/F2.0 (Pinhole)	2.8mm/F2.0 (Fixed)	3.7mm/F2.0 (Pinhole)
FOV-H	H: 105.4°, V: 75.8°	H: 70.3°, V: 49.3°	H: 105.2°, V: 58.2°	H: 71°, V: 37.9°
Day and Night	Fixed filter	Fixed filter	Fixed filter	Fixed filter
Min. Illumination(lux)	Color: 0.01 Lux @ (F2.0, AGC ON), B/W: 0.005 Lux (F2.0, AGC ON)	Color: 0.01 Lux @ (F2.0, AGC ON), B/W: 0.005 Lux (F2.0, AGC ON)	Color: 0.01Lux @ (F2.0, AGC ON), B/W: 0.001Lux @ (F2.0, AGC ON)	Color: 0.01Lux @ (F2.0, AGC ON), B/W: 0.001Lux @ (F2.0, AGC ON)
WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	-	-	-	-
Max. Resolution	2592 × 1944 (5MP)	2592 × 1944 (5MP)	2592 × 1520 (4MP)	2592 × 1520 (4MP)
Frames Per Second	25/30fps @ 5MP	25/30fps @ 5MP	25/30fps @ 4MP	25/30fps @ 4MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking and Smart motion detection, People counting			
Audio In/Out	1/1	1/1	1/1	1/1
Alarm In/Out	2/1	2/1	2/1	2/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Ingress Protection	-	-	-	-
Operating Temperature	-30° C to 55° C (-22° F to 131° F)	-30° C to 55° C (-22° F to 131° F)	-30° C~55° C (-22° F ~131° F)	-30° C~55° C (-22° F ~131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	Camera: 34.0 x 22 x 22 mm Main body: 86.0 x 75.1 x 33.5 mm	Camera: 34.0 x 22 x 22 mm Main body: 86.0 x 75.1 x 33.5 mm	Camera: 34.0 x 22 x 22 mm Main body: 86.0 x 75.1 x 33.5 mm	Camera: 34.0 x 22 x 22 mm Main body: 86.0 x 75.1 x 33.5 mm

Special Series

	Covert Cameras			
Model	SN-MNC8120KBA1-S1B	SN-MNC8120KBA1-S1P	SN-MNC8120AG-B	SN-MNC8120AG-P
Appearance				
Image sensor	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Lens	2.8mm/F2.0 (Fixed)	3.7mm/F2.0 (Pinhole)	2.8mm/F2.0 (Fixed)	3.7mm/F2.0 (Pinhole)
FOV-H	H: 113.7°, V: 59.6°	H: 82.9°, V: 41.1°	H: 113.9°, V: 60.2°	H: 81.9°, V: 40.8°
Day and Night	Fixed filter	Fixed filter	Fixed filter	Fixed filter
Min. Illumination(lux)	Color: 0.01Lux @(F2.0, AGC ON), B/W: 0.001Lux @(F2.0, AGC ON)	Color: 0.01Lux @(F2.0, AGC ON), B/W: 0.001Lux @(F2.0, AGC ON)	Color: 0.01Lux @(F2.0, AGC ON), B/W: 0.001Lux @(F2.0, AGC ON)	Color: 0.01Lux @(F2.0, AGC ON), B/W: 0.001Lux @(F2.0, AGC ON)
WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	-	-	-	-
Max. Resolution	1920 × 1080 (2MP)	1920 × 1080 (2MP)	1920 × 1080 (2MP)	1920 × 1080 (2MP)
Frames Per Second	25/30fps @2MP	25/30fps @2MP	25/30fps @2MP	25/30fps @2MP
Smart Function	Support Face, Human, Vehicle Detection. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way.			
Audio In/Out	1/1	1/1	1/1	1/1
Alarm In/Out	2/1	2/1	2/1	2/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Ingress Protection	-	-	-	-
Operating Temperature	-30° C~55° C (-22° F ~131° F)	-30° C~55° C (-22° F ~131° F)	-30° C~55° C (-22° F ~131° F)	-30° C~55° C (-22° F ~131° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC	12 VDC
Product Size	Camera: 34.0 x 22 x 22 mm Main body: 86.0 x 75.1 x 33.5 mm	Camera: 34.0 x 22 x 22 mm Main body: 86.0 x 75.1 x 33.5 mm	37.6 x 44.1 x 46.5 mm	37.6 x 44.1 x 46.5 mm

Special Series

	Box Cameras		Bullet Cameras	
Model	SN-IPC8045HAN-F	SN-IPC8047HAN-F	SN-IPR8045DQAN-Z	SN-IPR8045DQAN-VZ
Appearance				
Image sensor	1/2.8" STARVIS™ CMOS	1/1.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	C/CS Mount	C/CS Mount Lens	2.7 to 13.5 mm/F1.6	2.7 to 12 mm, 5 to 50 mm (Motorized, DC-Iris)
FOV-H	-	-	H: 97.5° to 26.8°, V: 53.0° to 15.7°	2.7 to 12 mm, H: 96° to 31°, V: 53.7° to 18.3° 5 to 50 mm, H: 51.2° to 7.8°, V: 29.4° to 4.6°
Day and Night	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.03Lux @(F1.6, AGC ON), B/W: 0.003Lux @(F1.6, AGC ON)	Color: 0.0025 Lux @(F1.2, AGC ON), B/W: 0.0005 @(F1.2, AGC ON)	Color: 0.03Lux @(F1.6, AGC ON) B/W: 0Lux @(IR LED ON)	Color: 0.03Lux @(F1.6, AGC ON) B/W: 0Lux @(IR LED ON)
WDR	True WDR	True WDR	True WDR	True WDR
Illumination Distance	-	-	Up to 60 m (196.9ft)	2.7 to 13.5mm: Up to 60m (196.9ft) 5 to 50mm: Up to 100m (328.1ft)
Max. Resolution	2592 × 1520 (4MP)	2688 × 1520 (4MP)	2592 × 1520 (4MP)	2592 × 1520 (4MP)
Frames Per Second	50/60fps @4MP	50/60fps @ 4MP	50/60fps @4MP	50/60fps @4MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking and Smart motion detection, People counting			
Audio In/Out	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic
Alarm In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 1 TB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Ingress Protection	-	-	IP66	IP66
Operating Temperature	-30° C ~ 50° C (-22° F ~ 122° F)	-30° C to 50° C (-22° F to 122° F)	-40° C to 55° C (-40° F to 131° F)	-40° C to 55° C (-40° F to 131° F)
Power	12 VDC/24VAC/PoE (802.3af)	12 VDC/24 VAC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/24 VAC/PoE (802.3af)
Product Size	150.2 × 75 × 69.7 mm	152.9 × 74.4 × 69.7 mm	303 × 100 × 107 mm	303 × 100 × 107 mm

Special Series

	Bullet Cameras		
Model	SN-IPR8045AKAN(-S)-Z	SN-IPR8045AKAN(-S)-VZ	SN-IPR8047AKAN-S-PZ
Appearance			
Image sensor	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/1.8" STARVIS™ CMOS
Lens	2.7 to 13.5 mm, 5 to 50 mm (Motorized)	2.7 to 12 mm, 5 to 50 mm (Motorized, DC-Iris)	8 to 32 mm, 10 to 50 mm optional, (Motorized, Auto Iris)
FOV-H	2.7 to 13.5 mm, H: 97.5° to 26.8°, V: 53.0° to 15.7° 5 to 50mm, H: 46.8° to 7.7°, V: 34.5° to 5.8°	2.7 to 12 mm, H: 96° to 31°, V: 53.7° to 18.3° 5 to 50 mm, H: 51.2° to 7.8°, V: 29.4° to 4.6°	8 to 32 mm, H: 41.1° to 14°, V: 23° to 7.9° 10 to 50 mm, H: 42.5° to 11.1°, V: 24.3° to 6.3°
Day and Night	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.03Lux @(F1.6, AGC ON) B/W: 0Lux @(IR LED ON)	Color: 0.03Lux @(F1.6, AGC ON) B/W: 0Lux @(IR LED ON)	Color: 0.0025 Lux @ (F1.2, AGC ON), B/W: 0.0005 @ (F1.2, AGC ON), 0 Lux with IR on
WDR	True WDR	True WDR	True WDR
Illumination Distance	2.7 to 13.5mm: Up to 60m (196.9ft) 5 to 50mm: Up to 100m (328.1ft)	2.7 to 13.5mm: Up to 60m (196.9ft) 5 to 50mm: Up to 100m (328.1ft)	4.1 to 12.8 mm: Up to 70 m (229.7 ft) 8 to 32 mm: Up to 80 m (262.5 ft) 10 to 50 mm: Up to 120 m (393.7 ft)
Max. Resolution	2592 × 1520 (4MP)	2592 × 1520 (4MP)	2688 × 1520 (4MP)
Frames Per Second	50/60fps @4MP	50/60fps @4MP	50/60fps @ 4MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking and Smart motion detection, People counting		
Audio In/Out	Without -S: 1/1 With -S: 1/1, Built-in Speaker	Without -S: 1/1 With -S: 1/1, Built-in Speaker	1/1, Built-in Mic and Speaker
Alarm In/Out	1/1	1/1	1/2
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 1 TB
Ingress Protection	IP66, IK10	IP66, IK10	IP66, IK10
Operating Temperature	-40° C to 55° C (-40° F to 131° F)	-40° C to 55° C (-40° F to 131° F)	-40° C to 60° C (-40° F to 140° F)
Power	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
Product Size	φ110 × 356.3 mm	φ110 × 356.3 mm	φ110 × 356.3 mm

NETWORK PTZ CAMERAS



Network PTZ Cameras

	5" Smart Full-color PTZ Camera				
Model	SN-IPS8655PDS-Z30	SN-IPS8681YDS-S-Z30	SN-IPS8655YDS-Z30	SN-IPS8645YDS-Z30	SN-IPS8641YDS-Z30
Appearance					
Image sensor	Overview channel: 1/1.8" CMOS; Detail channel: 1/2.8" CMOS	1/1.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/1.8" STARVIS™ CMOS
Lens	Panorama: 2.8 mm / 4mm; Detail: 5.3 to 159 mm	7 to 210 mm	5.3 to 159 mm, 30x optical zoom	5.3 to 159 mm, 30x optical zoom	7 to 210 mm, 30x optical zoom
FOV-H	Panorama: 2.8 mm, H: 112°, V: 60°; 4 mm, H: 88.7°, V: 48.2°; Detail: H: 56.8° to 2.6°, V: 42.7° to 2.0°	H: 60.0° to 2.6°, V: 36.5° to 1.5°	H: 56.8° to 2.6°, V: 42.7° to 2.0°	H: 57.3° to 2.6°, V: 33.9° to 1.5°	H: 60.0° to 2.6°, V: 36.5° to 1.5°
Day and Night	ICR	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Panorama: 0.0001 lux@F1.0 (Color) 0.00005 lux@F1.0 (B/W) Detail: 0.005 lux@F1.6 (Color) 0.0005 lux@F1.6 (B/W)	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0.0001 Lux @ (F1.6, AGC ON), 0 Lux with light on	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0.001 Lux @ (F1.6, AGC ON), 0 Lux with light on	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0.001 Lux @ (F1.6, AGC ON), 0 Lux with light on	Color: 0.001 Lux @ (F1.6, AGC ON), B/W: 0.0005 Lux @ (F1.6, AGC ON), 0 Lux with light on
WDR	True WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	IR: Up to 200 m (820.21 ft) Warm lights: Up to 60 m (196.85 ft)	IR: Up to 250 m (820.21 ft) Warm lights: Up to 60 m (196.85 ft)	IR: Up to 150 m (492.1 ft) Warm lights: Up to 50 m (164.0 ft)	IR: Up to 150 m (492.1 ft) Warm lights: Up to 50 m (164.0 ft)	IR: Up to 250 m (820.21 ft) Warm lights: Up to 60 m (196.85 ft)
Max. Resolution	Panorama: 2560 × 1440 (4MP); Detail: 2560 × 1944 (5MP)	3840 × 2160 (8MP)	2592×1944 (5MP)	2592×1520 (4MP)	2592×1520 (4MP)
Frames Per Second	25/30fps	25/30fps @ 8MP	25/30fps @5MP	25/30fps @4MP	25/30fps @4MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Smoke & Flame detection and Auto tracking Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart Motion Detection, People counting.				
Audio In/Out	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	1/1	1/1	1/1, Built-in Mic and Speaker
Alarm In/Out	2/2	2/2	2/2	2/2	2/2
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB
Ingress Protection	IP66	IP66	IP66	IP66	IP66
Operating Temperature	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)
Power	24 VAC/36 VDC/POE+ (802.3at) Standard Equipped: DC36V	24 VAC/36 VDC/POE+ (802.3at) Standard Equipped: DC36V	24 VAC/36 VDC/POE+ (802.3at) Standard Equipped: DC36V	24 VAC/36 VDC/POE+ (802.3at) Standard Equipped: DC36V	24 VAC/36 VDC/POE+ (802.3at) Standard Equipped: DC36V
Product Size		φ176.0 × 303.9 mm	φ176.0×303.9 mm	φ176.0×303.9 mm	φ176.0×303.9 mm

Network PTZ Cameras

	Active Deterrence PTZ Camera			4" PTZ Camera
Model	SN-IPS8681YDA-S-Z30	SN-IPS8641YDA-Z30	SN-IPS8654ZDC-Z5	SN-IPS8652ELDN-Z15
Appearance	 - Sound and Light Alarm - Red & Blue Light - Starlight	 - Sound and Light Alarm - Red & Blue Light - Starlight	 3 in 1 - Sound and Light Alarm	
Image sensor	1/1.8" STARVIS™ CMOS	1/1.8" STARVIS™ CMOS	1/2.7" CMOS	1/2.8" STARVIS™ CMOS
Lens	7 to 210 mm	7 to 210 mm, 30x optical zoom	2.7 to 13.5 mm, 5x optical zoom	5.3 to 79.5 mm, 15x optical zoom
FOV-H	H: 60.0° to 2.6°, V: 36.5° to 1.5°	H: 60.0° to 2.6°, V: 36.5° to 1.5°	H: 111.5° to 32.3°, V: 57.5° to 17.9°	H: 56.2° to 4.5°, V: 42.3° to 3.3°
Day and Night	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.005 Lux @(F1.6, AGC ON), B/W: 0.0001 Lux @(F1.6, AGC ON), 0 Lux with light on	Color: 0.001 Lux @(F1.6, AGC ON), B/W: 0.0005 Lux @(F1.6, AGC ON), 0 Lux with light on	Color: 0.01 Lux @(F1.6, AGC ON), B/W: 0.001 Lux @(F1.6, AGC ON), 0 Lux with light on	Color: 0.01 Lux @(F1.6, AGC ON) B/W: 0.001 Lux @(F1.6, AGC ON)
WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	IR distance up to 250 m (820.21 ft)	IR distance up to 250 m (820.21 ft)	IR distance up to 50 m (164.0 ft) Warm lights distance up to 30 m (98.4 ft)	-
Max. Resolution	3840 × 2160 (8MP)	2592×1520 (4MP)	2880×1620 (5MP)	2592×1944 (5MP)
Frames Per Second	25/30fps @ 8MP	25/30fps @4MP	25/30fps @5MP	25/30fps @5MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Smoke & Flame detection and Auto tracking Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart Motion Detection, People counting.			
Audio In/Out	1/1, Built-in Mic and Speaker	1/1, Built-in Mic and Speaker	Built-in Mic and Speaker	-/-
Alarm In/Out	2/2	2/2	1/1	-/-
Memory Slot	Micro SD, Max. 1 TB	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB
Ingress Protection	IP66	IP66	IP66	IP66
Operating Temperature	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-20° C to 50° C (-4° F to 122° F)
Power	24 VAC/36 VDC/POE+ (802.3at) Standard Equipped: DC36V	24 VAC/36 VDC/POE+ (802.3at) Standard Equipped: DC36V	12 VDC/POE+ (802.3at)	12 VDC/POE (802.3af)
Product Size	φ176.0 × 303.9 mm	φ176.0×303.9 mm	174.4×138.8×270.9 mm	φ143.5×130.6 mm

Network PTZ Cameras

	5" IR PTZ Camera				
Model	SN-IPS8655YDR-Z30	SN-IPS8655YDR-Z18	SN-IPS8645YDR-Z30	SN-IPS8645YDR-Z18	SN-IPS8622YDR-Z25
Appearance	 	 	 	 	
Image sensor	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	5.3 to 159 mm, 30x optical zoom	5.3 to 95.4 mm, 18x optical zoom	5.3 to 159mm, 30x optical zoom	5.3 to 95.4 mm, 18x optical zoom	5 to 125 mm, 25x optical zoom
FOV-H	H: 56.8° to 2.6° , V: 42.7° to 2.0°	H: 56.3° to 4.7° , V: 42.5° to 3.4°	H: 57.3° to 2.6° , V: 33.9° to 1.5°	H: 56.3° to 4.8° , V: 33.5° to 2.8°	H: 58.0° to 3.5° , V: 33.5° to 1.9°
Day and Night	ICR	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.005 Lux @(F1.6, AGC ON), B/W: 0.001 Lux @(F1.6, AGC ON), 0 Lux with IR on	Color: 0.005 Lux @(F1.6, AGC ON), B/W: 0.001 Lux @(F1.6, AGC ON), 0 Lux with IR on	Color: 0.005 Lux @(F1.6, AGC ON), B/W: 0.001 Lux @(F1.6, AGC ON), 0 Lux with IR on	Color: 0.005 Lux @(F1.6, AGC ON), B/W: 0.001 Lux @(F1.6, AGC ON), 0 Lux with IR on	Color: 0.03 Lux @(F1.6, AGC ON), B/W: 0.003 Lux @(F1.6, AGC ON), 0 Lux with IR on
WDR	True WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 200 m (656.16 ft.)	Up to 150 m (492.1 ft)	Up to 200 m (656.16 ft.)	Up to 150 m (492.1 ft)	Up to 200 m (656.16 ft.)
Max. Resolution	2592×1944 (5MP)	2592×1944 (5MP)	2592×1520 (4MP)	2592×1520 (4MP)	1920×1080 (2MP)
Frames Per Second	25/30fps @5MP	25/30fps @5MP	25/30fps @4MP	25/30fps @4MP	25/30fps @2MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Smoke & Flame detection and Auto tracking Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart Motion Detection, People counting.				
Audio In/Out	1/1	1/1	1/1	1/1	1/1
Alarm In/Out	2/2	2/2	2/2	2/2	2/2
Memory Slot	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB
Ingress Protection	IP66	IP66	IP66	IP66	IP66
Operating Temperature	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)
Power	24 VAC/36 VDC/POE+ (802.3at) Standard Equipped: DC36V	24 VAC/36 VDC/POE+ (802.3at) Standard Equipped: DC36V	24 VAC/36 VDC/POE+ (802.3at) Standard Equipped: DC36V	24 VAC/36 VDC/POE+ (802.3at) Standard Equipped: DC36V	24 VAC/36 VDC/POE+ (802.3at) Standard Equipped: DC36V
Product Size	φ176.0×303.9 mm	φ176.0×303.9 mm	φ176.0×303.9 mm	φ176.0×303.9 mm	φ176.0×303.9 mm

Network PTZ Cameras

	7" IR PTZ Camera				
Model	SN-IPS8681WDR-Z40	SN-IPS8653WDR-Z40	SN-IPS8653WDL-Z40	SN-IPS8655WDR-Z30	SN-IPS8655WDL-Z30
Appearance					
Image sensor	1/1.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	6.8 to 272 mm, 40x optical zoom	5.0 to 200 mm, 40x optical zoom	5.0 to 200 mm, 40x optical zoom	5.3 to 159 mm, 30x optical zoom	5.3 to 159 mm, 30x optical zoom
FOV-H	H: 62.0° to 2.4°, V: 36.6° to 1.3°	H: 64.8° to 1.8°, V: 50.3° to 1.3°	H: 64.8° to 1.8°, V: 50.3° to 1.3°	H: 56.8° to 2.6°, V: 42.7° to 2.0°	H: 56.8° to 2.6°, V: 42.7° to 2.0°
Day and Night	ICR	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.005 Lux @(F1.6, AGC ON), B/W: 0.001 Lux @(F1.6, AGC ON), 0 Lux with IR on	Color: 0.005 Lux @(F1.6, AGC ON), B/W: 0.001 Lux @(F1.6, AGC ON), 0 Lux with IR on	Color: 0.005 Lux @(F1.6, AGC ON), B/W: 0.001 Lux @(F1.6, AGC ON), 0 Lux with IR on	Color: 0.005 Lux @(F1.6, AGC ON), B/W: 0.001 Lux @(F1.6, AGC ON), 0 Lux with IR on	Color: 0.005 Lux @(F1.6, AGC ON), B/W: 0.001 Lux @(F1.6, AGC ON), 0 Lux with IR on
WDR	True WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 500 m (1640.4 ft)	Up to 300 m (984.3 ft)	Up to 600 m (1,968.5 ft)	Up to 200 m (984.3 ft)	Up to 400 m (1,312.34 ft)
Max. Resolution	3840×2160 (8MP)	2592×1944 (5MP)	2592×1944 (5MP)	2592×1944 (5MP)	2592×1944 (5MP)
Frames Per Second	25/30fps @8MP	25/30fps @5MP	25/30fps @5MP	25/30fps @5MP	25/30fps @5MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Smoke & Flame detection and Auto tracking Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart Motion Detection, People counting.				
Audio In/Out	1/1	1/1	1/1	1/1	1/1
Alarm In/Out	7/2	7/2	7/2	7/2	7/2
Memory Slot	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB
Ingress Protection	IP66	IP66	IP66	IP66	IP66
Operating Temperature	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)
Power	24 VAC/36 VDC/POE++ (802.3bt) Standard Equipped: DC36V	24 VAC/36 VDC/POE++ (802.3bt) Standard Equipped: DC36V	24 VAC/36 VDC/POE++ (802.3bt) Standard Equipped: DC36V	24 VAC/36 VDC/POE++ (802.3bt) Standard Equipped: DC36V	24 VAC/36 VDC/POE++ (802.3bt) Standard Equipped: DC36V
Product Size	φ226×362.8 mm	φ226×362.8 mm	φ226×362.8 mm	φ226×362.8 mm	φ226×362.8 mm

Network PTZ Cameras

	7" IR PTZ Camera				
Model	SN-IPS8646WDR-Z40	SN-IPS8641WDL-Z37	SN-IPS8643WDR-Z40	SN-IPS8645WDR-Z30	SN-IPS8645WDL-Z30
Appearance					
Image sensor	1/1.8" STARVIS™ CMOS	1/1.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	6.8 to 272 mm, 40x optical zoom	6.8 to 251 mm, 37x optical zoom	5.0 to 200 mm, 40x optical zoom	5.3 to 159 mm, 30x optical zoom	5.3 to 159 mm, 30x optical zoom
FOV-H	H: 62.3° to 2.3°, V: 36.9° to 1.3°	H: 60.4° to 2.5°, V: 36.5° to 1.5°	H: 64.9° to 1.8°, V: 40.6° to 1.1°	H: 57.3° to 2.6°, V: 33.9° to 1.5°	H: 57.3° to 2.6°, V: 33.9° to 1.5°
Day and Night	ICR	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.001 Lux @ (F1.6, AGC ON), B/W: 0.0005 Lux @ (F1.6, AGC ON), 0 Lux with IR on	Color: 0.001Lux @(F1.5, AGC ON), B/W: 0.0005Lux @(F1.5, AGC ON), 0Lux with IR on	Color: 0.005Lux @(F1.6, AGC ON), B/W: 0.0005Lux @(F1.6, AGC ON), 0Lux with IR on	Color: 0.005Lux @(F1.6, AGC ON), B/W: 0.001Lux @(F1.6, AGC ON), 0Lux with IR on	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0.001 Lux @ (F1.6, AGC ON), 0 Lux with IR on
WDR	True WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 400 m (1,312.34 ft)	Up to 600 m (1,968.5 ft)	Up to 300 m (984.3 ft)	Up to 200 m (984.3 ft)	Up to 400 m (1,312.34 ft)
Max. Resolution	2688×1520 (4MP)	2592×1520 (4MP)	2592×1520 (4MP)	2592×1520 (4MP)	2592×1520 (4MP)
Frames Per Second	50/60fps @4MP	25/30fps @4MP	25/30fps @4MP	25/30fps @4MP	25/30fps @4MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Smoke & Flame detection and Auto tracking Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart Motion Detection, People counting.				
Audio In/Out	1/1	1/1	1/1	1/1	1/1
Alarm In/Out	7/2	7/2	7/2	7/2	7/2
Memory Slot	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB
Ingress Protection	IP66	IP66	IP66	IP66	IP66
Operating Temperature	-40° C to 60° C (-40° F to140° F)	-40° C to 60° C (-40° F to140° F)	-40° C to 60° C (-40° F to140° F)	-40° C to 60° C (-40° F to140° F)	-40° C to 60° C (-40° F to140° F)
Power	24 VAC/36 VDC/POE++ (802.3bt) Standard Equipped: DC36V	24 VAC/36 VDC/POE++ (802.3bt) Standard Equipped: DC36V	24 VAC/36 VDC/POE++ (802.3bt) Standard Equipped: DC36V	24 VAC/36 VDC/POE++ (802.3bt) Standard Equipped: DC36V	24 VAC/36 VDC/POE++ (802.3bt) Standard Equipped: DC36V
Product Size	φ226×362.8 mm	φ226×362.8 mm	φ226×362.8 mm	φ226×362.8 mm	φ226×362.8 mm

Network PTZ Cameras

	7" IR PTZ Camera				
Model	SN-IPS8681VDR-Z40	SN-IPS8653VDL-Z40	SN-IPS8653VDR-Z40	SN-IPS8655VDL-Z30	SN-IPS8655VDR-Z30
Appearance	 IK10 Starlight	 IK10 Starlight	 IK10 Starlight	 IK10 Starlight	 IK10 Starlight
Image sensor	1/1.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	6.8 to 272 mm, 40x optical zoom	5.0 to 200 mm, 40x optical zoom	5.0 to 200 mm, 40x optical zoom	5.3 to 159 mm, 30x optical zoom	5.3 to 159 mm, 30x optical zoom
FOV-H	H: 62.0° to 2.4°, V: 36.6° to 1.3°	H: 64.8° to 1.8°, V: 50.3° to 1.3°	H: 64.8° to 1.8°, V: 50.3° to 1.3°	H: 56.8° to 2.6°, V: 42.7° to 2.0°	H: 56.8° to 2.6°, V: 42.7° to 2.0°
Day and Night	ICR	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.005 Lux @(F1.6, AGC ON), B/W: 0.001 Lux @(F1.6, AGC ON), 0 Lux with IR on	Color: 0.005 Lux @(F1.6, AGC ON), B/W: 0.001 Lux @(F1.6, AGC ON), 0Lux with IR on	Color: 0.005 Lux @(F1.6, AGC ON), B/W: 0.001 Lux @(F1.6, AGC ON), 0Lux with IR on	Color: 0.005 Lux @(F1.6, AGC ON), B/W: 0.001 Lux @(F1.6, AGC ON), 0Lux with IR on	Color: 0.005 Lux @(F1.6, AGC ON), B/W: 0.001 Lux @(F1.6, AGC ON), 0Lux with IR on
WDR	True WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 500 m (1640.4 ft)	Up to 600 m (1,968.5 ft)	Up to 300 m (984.3 ft)	Up to 400 m (1,312.34 ft)	Up to 200 m (984.3 ft)
Max. Resolution	3840×2160 (8MP)	2592×1944 (5MP)	2592×1944 (5MP)	2592×1944 (5MP)	2592×1944 (5MP)
Frames Per Second	25/30fps @8MP	25/30fps @5MP	25/30fps @5MP	25/30fps @5MP	25/30fps @5MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Smoke & Flame detection and Auto tracking Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart Motion Detection, People counting.				
Audio In/Out	1/1	1/1	1/1	1/1	1/1
Alarm In/Out	7/2	7/2	7/2	7/2	7/2
Memory Slot	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB
Ingress Protection	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10
Operating Temperature	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)
Power	24 VAC/36 VDC/POE++ (802.3bt) Standard Equipped: DC36V	24 VAC/36 VDC/POE++ (802.3bt) Standard Equipped: DC36V	24 VAC/36 VDC/POE++ (802.3bt) Standard Equipped: DC36V	24 VAC/36 VDC/POE++ (802.3bt) Standard Equipped: DC36V	24 VAC/36 VDC/POE++ (802.3bt) Standard Equipped: DC36V
Product Size	φ226×362.8 mm	φ226×362.8 mm	φ226×362.8 mm	φ226×362.8 mm	φ226×362.8 mm

Network PTZ Cameras

	7" IR PTZ Camera				
Model	SN-IPS8646VDR-Z40	SN-IPS8643VDL-Z40	SN-IPS8643VDR-Z40	SN-IPS8645VDL-Z30	SN-IPS8645VDR-Z30
Appearance	 IK10 Starlight	 IK10 Starlight	 IK10 Starlight	 IK10 Starlight	 IK10 Starlight
Image sensor	1/1.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	6.8 to 272 mm, 40x optical zoom	5.0 to 200 mm, 40x optical zoom	5.0 to 200 mm, 40x optical zoom	5.3 to 159 mm, 30x optical zoom	5.3 to 159 mm, 30x optical zoom
FOV-H	H: 62.3° to 2.3°, V: 36.9° to 1.3°	H: 64.9° to 1.8°, V: 40.6° to 1.1°	H: 64.9° to 1.8°, V: 40.6° to 1.1°	H: 57.3° to 2.6°, V: 33.9° to 1.5°	H: 57.3° to 2.6°, V: 33.9° to 1.5°
Day and Night	ICR	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.001 Lux @(F1.6, AGC ON), B/W: 0.0005 Lux @(F1.6, AGC ON), 0 Lux with IR on	Color: 0.005 Lux @(F1.6, AGC ON), B/W: 0.001 Lux @(F1.6, AGC ON), 0 Lux with IR on	Color: 0.005 Lux @(F1.6, AGC ON), B/W: 0.001 Lux @(F1.6, AGC ON), 0 Lux with IR on	Color: 0.005 Lux @(F1.6, AGC ON), B/W: 0.001 Lux @(F1.6, AGC ON), 0 Lux with IR on	Color: 0.005 Lux @(F1.6, AGC ON), B/W: 0.001 Lux @(F1.6, AGC ON), 0 Lux with IR on
WDR	True WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	Up to 400 m (1312.3 ft.)	Up to 600 m (1,968.5 ft)	Up to 300 m (984.3 ft)	Up to 400 m (1,312.34 ft)	Up to 200 m (984.3 ft)
Max. Resolution	2688×1520(4MP)	2592×1520 (4MP)	2592×1520 (4MP)	2592×1520 (4MP)	2592×1520 (4MP)
Frames Per Second	50/60fps @4MP	25/30fps @4MP	25/30fps @4MP	25/30fps @4MP	25/30fps @4MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Smoke & Flame detection and Auto tracking Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart Motion Detection, People counting.				
Audio In/Out	1/1	1/1	1/1	1/1	1/1
Alarm In/Out	7/2	7/2	7/2	7/2	7/2
Memory Slot	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB	Built-in SD card Slot, up to 1 TB
Ingress Protection	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10
Operating Temperature	-40° C to 60° C (-40° F to140° F)	-40° C to 60° C (-40° F to140° F)	-40° C to 60° C (-40° F to140° F)	-40° C to 60° C (-40° F to140° F)	-40° C to 60° C (-40° F to140° F)
Power	24 VAC/36 VDC/POE++ (802.3bt) Standard Equipped: DC36V	24 VAC/36 VDC/POE++ (802.3bt) Standard Equipped: DC36V	24 VAC/36 VDC/POE++ (802.3bt) Standard Equipped: DC36V	24 VAC/36 VDC/POE++ (802.3bt) Standard Equipped: DC36V	24 VAC/36 VDC/POE++ (802.3bt) Standard Equipped: DC36V
Product Size	φ226×362.8 mm	φ226×362.8 mm	φ226×362.8 mm	φ226×362.8 mm	φ226×362.8 mm

EXPLOSION-PROOF NETWORK CAMERAS



Explosion-Proof Network Cameras

	Explosion-proof Network Cameras			
Model	SN-CHP8681CDN(-K)-Z40-SS	SN-CHP8650CDN(-K)-Z30-SS	SN-CHP8681CDR(-K)-Z40-SS	SN-CHP8650CDR(-K)-Z30-SS
Appearance				
Image sensor	1/1.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/1.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	6.8 to 272 mm, 40x Optical Zoom	5.3 to 159 mm, 30x Optical Zoom	6.8 to 272 mm, 40x Optical Zoom	5.3 to 159 mm, 30x Optical Zoom
FOV-H	H: 62.0° to 2.4°, V: 36.6° to 1.3°	H: 56.3° to 2.7°, V: 42.4° to 2.0°	H: 62.0° to 2.4°, V: 36.6° to 1.3°	H: 56.3° to 2.7°, V: 42.4° to 2.0°
Day and Night	ICR	IRC	ICR	IRC
Min. Illumination(lux)	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0.001 Lux @ (F1.6, AGC ON)	Color: 0.07 Lux @ (F1.6, AGC ON), B/W: 0.02 Lux @ (F1.6, AGC ON)	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.07 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on
WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	-	-	Up to 100 m (328.08 ft)	Up to 100 m (328.08 ft)
Max. Resolution	3840 × 2160 (8MP)	2592 × 1944 (5MP)	3840 × 2160 (8MP)	2592 × 1944 (5MP)
Frames Per Second	25/30fps @ 8MP	25/30fps @ 5MP	25/30fps @ 8MP	25/30fps @ 5MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal Parking, Smart motion detection, and People counting.			
Fiber Optical	-K: 1 single module fiber interface	-K: 1 single module fiber interface	-K: 1 single module fiber interface	-K: 1 single module fiber interface
Audio In/Out	1/1	1/1	1/1	1/1
Alarm In/Out	2/1	2/1	2/1	2/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 256 GB	Micro SD, Max. 1 TB	Micro SD, Max. 256 GB
Ingress Protection	IP68	IP68	IP68	IP68
Operating Temperature	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)
Power	100 to 240 VAC	100 to 240 VAC	100 to 240 VAC	100 to 240 VAC
Product Size	522 × 176 × 215.1 mm	522 × 176 × 215.1 mm	523 × 297 × 221 mm	523 × 297 × 221 mm

Explosion-Proof Network Cameras

	Explosion-proof Network Cameras		
Model	SN-CHP8681EBR(-K)-Z40-SS	SN-CHP8650EBR(-K)-Z30-SS	SN-CHP8641EBR(-K)-Z40-SS
Appearance			
Image sensor	1/1.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/1.8" STARVIS™ CMOS
Lens	6.8 to 272 mm, 40x Optical Zoom	5.3 to 159 mm, 30x Optical Zoom	5.3 to 212 mm, 40x Optical Zoom
FOV-H	H: 62.0° to 2.4°, V: 36.6° to 1.3°	H: 56.3° to 2.7°, V: 42.4° to 2.0°	H: 60.4° to 2.5°, V: 36.5° to 1.5°
Day and Night	ICR	IRC	ICR
Min. Illumination(lux)	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.001 Lux @ (F1.5, AGC ON), B/W: 0 Lux with IR on
WDR	True WDR	True WDR	True WDR
Illumination Distance	Up to 200 m (656.17ft)	Up to 200 m (656.17ft)	Up to 200 m (656.17ft)
Max. Resolution	3840 × 2160 (8MP)	2592 × 1944 (5MP)	2592 × 1520 (4MP)
Frames Per Second	25/30fps @ 8MP	25/30fps @ 5MP	25/30fps @ 4MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection, and People counting.		
Fiber Optical	-K: 1 single module fiber interface	-K: 1 single module fiber interface	-K: 1 single module fiber interface
Audio In/Out	1/1	1/1	1/1
Alarm In/Out	2/1	2/1	2/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 256 GB	Micro SD, Max. 1 TB
Ingress Protection	IP68	IP68	IP68
Operating Temperature	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)
Power	100 to 240 VAC	100 to 240 VAC	100 to 240 VAC
Product Size	523.5 × 405.6 × 220.6 mm	523.5 × 405.6 × 220.6 mm	523.5 × 405.6 × 220.6 mm

Explosion-Proof Network Cameras

	Explosion-Proof Network PTZ Cameras		
Model	SN-IPT8681PAR(-K)-Z40-SS	SN-IPT8650PAR(-K)-Z30-SS	SN-IPT8641PAR(-K)-Z40-SS
Appearance			
Image sensor	1/1.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/1.8" STARVIS™ CMOS
Lens	6.8 to 272 mm, 40x Optical Zoom	5.3 to 159 mm, 30x Optical Zoom	5.3 to 212 mm, 40x Optical Zoom
FOV-H	H: 62.0° to 2.4°, V: 36.6° to 1.3°	H: 56.3° to 2.7°, V: 42.4° to 2.0°	H: 60.4° to 2.5°, V: 36.5° to 1.5°
Day and Night	ICR	IRC	ICR
Min. Illumination(lux)	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.07 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR on	Color: 0.001 Lux @ (F1.5, AGC ON), B/W: 0 Lux with IR on
WDR	True WDR	True WDR	True WDR
Illumination Distance	Up to 200 m (656.17ft)	Up to 200 m (656.17ft)	Up to 200 m (656.17ft)
Max. Resolution	3840 × 2160 (8MP)	2592 × 1944 (5MP)	2592 × 1520 (4MP)
Frames Per Second	25/30fps @ 8MP	25/30fps @ 5MP	25/30fps @ 4MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection, and People counting.		
Fiber Optical	-K: 1 single module fiber interface	-K: 1 single module fiber interface	-K: 1 single module fiber interface
Audio In/Out	1/1	1/1	1/1
Alarm In/Out	5/1	5/1	5/1
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 256 GB	Micro SD, Max. 1 TB
Ingress Protection	IP68	IP68	IP68
Operating Temperature	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)
Power	100 to 240 VAC	100 to 240 VAC	100 to 240 VAC
Product Size	530 × 295 × 420 mm	530 × 295 × 420 mm	530 × 295 × 420 mm

Explosion-Proof Network Cameras

	Explosion-proof Network PTZ Cameras		
Model	SN-IPT8681PAN(-K)-Z40-SS	SN-IPT8650PAN(-K)-Z30-SS	SN-IPS8652PCDN(-K)-Z15-SS
Appearance			
Image sensor	1/1.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	6.8 to 272 mm, 40x Optical Zoom	5.3 to 159 mm, 30x Optical Zoom	5.3 to 79.5 mm, 15x optical zoom
FOV-H	H: 62.0° to 2.4°, V: 36.6° to 1.3°	H: 56.3° to 2.7°, V: 42.4° to 2.0°	H: 56.2° to 4.5°, V: 42.3° to 3.3°
Day and Night	ICR	IRC	ICR
Min. Illumination(lux)	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0.001 Lux @ (F1.6, AGC ON)	Color: 0.07 Lux @ (F1.6, AGC ON), B/W: 0.02 Lux @ (F1.6, AGC ON)	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0.001 Lux @ (F1.6, AGC ON)
WDR	True WDR	True WDR	True WDR
Illumination Distance	-	-	-
Max. Resolution	3840 × 2160 (8MP)	2592 × 1944 (5MP)	2592 × 1944 (5MP)
Frames Per Second	25/30fps @ 8MP	25/30fps @ 5MP	25/30fps @ 5MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection, and People counting.		
Fiber Optical	-K: 1 single module fiber interface	-K: 1 single module fiber interface	-K: 1 single module fiber interface
Audio In/Out	1/1	1/1	-/-
Alarm In/Out	5/1	5/1	-/-
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 256 GB	Micro SD, Max. 256 GB
Ingress Protection	IP68	IP68	IP68
Operating Temperature	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-20° C to 60° C (-4° F to 140° F)
Power	100 to 240 VAC	100 to 240 VAC	100 to 240 VAC
Product Size	390 × 295 × 420 mm	390 × 295 × 420 mm	Φ238 × 386 mm(Bracket not included)

ANTI-CORROSION NETWORK CAMERAS



Anti-Corrosion Network Cameras

	Anti-corrosion Network Cameras				
Model	SN-CHP8650CDN-Z30-SSFF	SN-CHP8650EBR-Z30-SSFF	SN-IPS8652PCDN-Z15-SSFF	SN-IPT8650PAN-Z30-SSFF	SN-IPT8650PAR-Z30-SSFF
Appearance					
Image sensor	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	5.3 to 159 mm, 30x optical zoom	5.3 to 159 mm, 30x optical zoom	5.3 to 79.5 mm, 15x optical zoom	5.3 to 159 mm, 30x optical zoom	5.3 to 159 mm, 30x optical zoom
FOV-H	H: 56.3° to 2.7°, V: 42.4° to 2.0°	H: 56.3° to 2.7°, V: 42.4° to 2.0°	H: 56.2° to 4.5°, V: 42.3° to 3.3°	H: 56.3° to 2.7°, V: 42.4° to 2.0°	H: 56.3° to 2.7°, V: 42.4° to 2.0°
Day and Night	ICR	ICR	ICR	ICR	ICR
Min. Illumination(lux)	Color: 0.07 Lux @(F1.6, AGC ON), B/W: 0.02 Lux @(F1.6, AGC ON)	Color: 0.07 Lux @(F1.6, AGC ON), B/W: 0.02 Lux @(F1.6, AGC ON), 0Lux with IR on	Color: 0.01 Lux @(F1.6, AGC ON), B/W: 0.001 Lux @(F1.6, AGC ON)	Color: 0.07 Lux @(F1.6, AGC ON), B/W: 0.02 Lux @(F1.6, AGC ON)	Color: 0.07 Lux @(F1.6, AGC ON), B/W: 0.02 Lux @(F1.6, AGC ON), 0Lux with IR on
WDR	True WDR	True WDR	True WDR	True WDR	True WDR
IR Distance	-	Up to 200 m (656.17 ft.)	-	-	Up to 200 m (656.2 ft.)
Max. Resolution	2592 × 1944 (5MP)	2592 × 1944 (5MP)	2592 × 1944 (5MP)	2592 × 1944 (5MP)	2592 × 1944 (5MP)
Frames Per Second	25/30fps @5MP	25/30fps @5MP	25/30fps @5MP	25/30fps @5MP	25/30fps @5MP
Smart Function	Support Face, Human, Vehicle Detection and Capture. Smoke & Flame detection and Auto tracking Intelligent Analysis: Intrusion, Single / Double line crossing, Loitering, Wrong-way, Illegal parking, Smart Motion Detection, People counting.				
Audio In/Out	1/1	1/1	-/-	1/1	1/1
Alarm In/Out	2/1	2/1	-/-	5/2	5/1
Memory Slot	Micro SD, Max. 256 GB	Micro SD, Max. 256 GB	Micro SD, Max. 256 GB	Micro SD, Max. 256 GB	Micro SD, Max. 256 GB
Ingress Protection	IP68	IP68	IP68	IP68	IP68
Operating Temperature	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-20° C to 50° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)
Power	100 to 240 VAC	100 to 240 VAC	100 to 240 VAC	100 to 240 VAC	100 to 240 VAC
Product Size	522 × 176 × 215.1 mm	523.5 × 405.6 × 220.6 mm	Φ238 × 386 mm (Bracket not included)	390 × 295 × 420 mm	530 × 295 × 420 mm

THERMAL CAMERAS



THERMAL CAMERAS

Thermal Camera Series

- Temperature measurement accuracy $\pm 2^{\circ}\text{C}/\pm 2\%$ (take the greater value), temperature range can be customized
- Can be equipped with a variety of deep learning algorithms
- Ten years of technology accumulation, products are widely used in all walks of life



Deep Learning Algorithm



Human/Vehicle Detection



Fire Spot Detection



Ship Detection



Smoking Detection



Multiple Resolutions



Two-way Audio



Alarm In/Out



Memory Slot

Thermal Cameras

	Bi-Spectrum Series		Fixed Thermal Series	
Model	SN-D2P	SN-TPC2553CT-F	SN-TPC4203AT-F/M	SN-TPC6406VT-F/M
Appearance				
Sensor (Thermal)	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays
Pixel Pitch (Thermal)	12μm	12μm	17μm	12μm
Sensitivity (NETD)	≤ 40mK	≤ 50mK	≤ 40mK	≤ 40mK
Resolution (Thermal)	256 × 192	256 × 192	400 × 300	640 × 512
Sensor (Optical)	1/2.8" CMOS	1/2.8" CMOS	-	-
Max. Resolution (Optical)	1600 × 1200	2560 × 1440	-	-
Lens	Thermal: 2.0 mm Optical: 2.3 mm	Thermal: 3.5 or 7 mm Optical: 4 to 8 mm	-F: 8, 15, 25, 35 or 50 mm -M: 25, 50, 75 or 100 mm	-F: 9, 15, 25, 35 or 50 mm -M: 25, 50, 75 or 100 mm
FOV (Thermal)	H: 90°, V: 65°	3.5 mm: 48° × 36° 7 mm: 24° × 18°	8 mm: 46° × 35.3°, 15 mm: 25.5° × 19.2° 25 mm: 15.4° × 11.6°, 35 mm: 11° × 8.3° 50 mm: 7.7° × 5.8°, 75 mm: 5.1° × 3.8° 100 mm: 3.8° × 2.3°	9 mm: 48° × 38°, 15 mm: 32° × 26° 25 mm: 17° × 14°, 35 mm: 12° × 10° 50 mm: 8° × 7°, 75 mm: 6° × 5° 100 mm: 4.3° × 3.5°
Temperature Range	-20° C to 150° C (-4° F to 302° F) or 0° C to 550° C (32° F to 1022° F)	-20° C to 150° C (-4° F to 302° F)	-20° C to 150° C (-4° F to 302° F)	-20° C to 150° C (-4° F to 302° F)
Temperature Alarm	Threshold alarm, Temperature difference alarm, Temperature section alarm, Temperature rise alarm			
Measurement Rule	3 temperature measurement rule types (spot, areas, line)			
Smart Function	Smoke and Fire detection, fire point detection	Human / Vehicle, Smoke & Flame, Smoking, and Fire point detection	Human / Vehicle, and Fire point detection	
Intelligent Analysis	-	Intrusion, Single / Double line crossing, Loitering, Wrong-way, Enter / Leave area, and People counting		
Audio In/Out	Built-in Mic	1/1, Built-in Mic and Speaker	1/1	1/1
Alarm In/Out	1/1	1/1	2/2	1/1
Memory Slot	Micro SD, Max. 512 GB	Micro SD, Max. 512 GB	Micro SD, Max. 512 GB	Micro SD, Max. 512 GB
Ingress Protection	IP67	IP66	-	-
Operating Temperature	From -30° C to 60° C (-22° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)
Power	12 VDC/PoE (802.3af)	12 VDC/24 VDC/PoE (802.3af)	12 VDC	12 VDC
Product Size	55 × 36 × 118 mm	φ140 × 117.8 mm	303 × 95 × 107 mm	(327.4 to 347.4) × 140.04 × 120.72 mm

Thermal Cameras

	Bi-Spectrum Series			Fixed Thermal Series
Model	SN-TPC2553CT-F	SN-TPC2553DRT-F	SN-TPC6457DLT-F	SN-TPC4207KT-F
Appearance				
Sensor (Thermal)	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays
Pixel Pitch (Thermal)	12μm	12μm	12μm	17μm
Sensitivity (NETD)	≤ 50mK	≤ 40mK	≤ 40mK	≤ 40mK
Resolution (Thermal)	256 × 192	256 × 192	640 × 512	384 × 288
Sensor (Optical)	1/2.8" CMOS	1/2.7" CMOS	1/1.8" CMOS	-
Max. Resolution (Optical)	2560 × 1440	2880 × 1620	2688 × 1520	-
Lens	Thermal: 3.5 or 7 mm Optical: 4 to 8 mm	Thermal: 3.5, 7 or 10 mm Optical: 4 to 8 mm	Thermal: 9, 15, 25, 35 or 50 mm Optical: 5 to 50 mm	9, 15, 25, 35 or 50 mm
FOV (Thermal)	3.5 mm: 48° × 36° 7 mm: 24° × 18°	3.5 mm: 48° × 36° 7 mm: 24° × 18° 10 mm: 17° × 13°	9 mm: 48° × 38°, 15 mm: 32° × 26° 25 mm: 17° × 14°, 35 mm: 12° × 10° 50 mm: 8° × 7°	9 mm: 37° × 28°, 15 mm: 28° × 21° 25 mm: 14° × 11°, 35 mm: 10° × 8° 50 mm: 7.4° × 5.6°
Temperature Range	-20° C to 150° C (-4° F to 302° F)	-20° C to 150° C (-4° F to 302° F)	-20° C to 150° C (-4° F to 302° F)	-20° C to 150° C (-4° F to 302° F), or 0° C to 550° C (32° F to 1022° F), ±2° C
Temperature Alarm	Threshold alarm, Temperature difference alarm, Temperature section alarm, Temperature rise alarm			
Measurement Rule	3 temperature measurement rule types (spot, areas, line)			
Smart Function	Human / Vehicle, Smoke & Flame, Smoking, and Fire point detection			
Intelligent Analysis	Intrusion, Single / Double line crossing, Loitering, Wrong-way, Enter / Leave area, and People counting			
Audio In/Out	1/1, Built-in Mic and Speaker	1/1, Built-in Speaker	1/1, Built-in Mic and Speaker	1/1
Alarm In/Out	1/1	2/2	2/2	2/2
Memory Slot	Micro SD, Max. 512 GB	Micro SD, Max. 512 GB	Micro SD, Max. 1 TB	Micro SD, Max. 1 TB
Ingress Protection	IP66	IP66	IP66	IP66
Operating Temperature	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)
Power	12 VDC/24 VDC/PoE (802.3af)	12 VDC/24 VDC/PoE (802.3af)	12 VDC/24 VAC/PoE+ (802.3at)	12VDC/24VAC/PoE (802.3af)
Product Size	φ140 × 117.8 mm	303 × 95 × 107 mm	(327.4 to 347.4) × 140.04 × 120.72 mm	φ120.5 × 315.9 or 352.6 mm

Thermal Cameras

	Bullet Thermal Series			
Model	SN-TPC4207KV-F	SN-TPC4107KT-F	SN-TPC4107KV-F	SN-TPC6406KT-F
Appearance				
Sensor (Thermal)	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays
Pixel Pitch (Thermal)	17μm	17μm	17μm	12μm
Sensitivity (NETD)	≤ 40mK	≤ 40mK	≤ 40mK	≤ 40mK
Resolution (Thermal)	384 × 288	384 × 288	384 × 288	640 × 512
Sensor (Optical)	-	-	-	-
Max. Resolution (Optical)	-	-	-	-
Lens	9, 15, 25, 35 or 50 mm	9, 15, 25, 35 or 50 mm	9, 15, 25, 35 or 50 mm	9, 15, 25, 35 or 50 mm
FOV (Thermal)	9 mm: 37° × 28°, 15 mm: 28° × 21° 25 mm: 14° × 11°, 35 mm: 10° × 8° 50 mm: 7.4° × 5.6°	9 mm: 37° × 28°, 15 mm: 28° × 21° 25 mm: 14° × 11°, 35 mm: 10° × 8° 50 mm: 7.4° × 5.6°	9 mm: 37° × 28°, 15 mm: 28° × 21° 25 mm: 14° × 11°, 35 mm: 10° × 8° 50 mm: 7.4° × 5.6°	9 mm: 48° × 38°, 15 mm: 32° × 26° 25 mm: 17° × 14°, 35 mm: 12° × 10° 50 mm: 8° × 7°
Temperature Range	-20° C to 150° C (-4° F to 302° F), ±8°C	-20° C to 150° C (-4° F to 302° F), or 0° C to 550° C (32° F to 1022° F), ±2°C	-20° C to 150° C (-4° F to 302° F), ±8°C	-20° C to 150° C (-4° F to 302° F), ±2°C
Temperature Alarm	Threshold alarm, Temperature difference alarm, Temperature section alarm, Temperature rise alarm			
Measurement Rule	3 temperature measurement rule types (spot, areas, line)			
Smart Function	Human / Vehicle, Smoking, and Fire point detection			
Intelligent Analysis	Intrusion, Single / Double line crossing, Loitering, Wrong-way, Enter / Leave area, and People counting			
Audio In/Out	1/1	1/1	1/1	1/1
Alarm In/Out	2/2	2/2	2/2	2/2
Memory Slot	Micro SD, Max. 1 TB	Micro SD, Max. 512 GB	Micro SD, Max. 512 GB	Micro SD, Max. 512 GB
Ingress Protection	IP66	IP66	IP66	IP66
Operating Temperature	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)
Power	12VDC/24VAC/PoE (802.3af)	12VDC/24VAC/PoE (802.3af)	12 VDC/24 VAC/PoE (802.3af)	12 VDC/24 VAC/PoE (802.3af)
Product Size	φ120.5 × 315.9 or 352.6 mm	φ120.5 × 315.9 or 352.6 mm	φ120.5 × 315.9 or 352.6 mm	φ120.5 × 315.9 or 352.6 mm

Thermal Cameras

	PTZ Thermal Series			
Model	SN-TPT4233QF-F/M	SN-TPT6436QF-F/M	SN-TPT4233LZ-F/M	SN-TPT6436LZ-F/M
Appearance				
Sensor (Thermal)	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays
Pixel Pitch (Thermal)	17μm	12μm	17μm	12μm
Sensitivity (NETD)	≤ 40mK	≤ 40mK	≤ 40mK	≤ 40mK
Resolution (Thermal)	400 × 300	640 × 512	400 × 300	640 × 512
Sensor (Optical)	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Max. Resolution (Optical)	2592 × 1520	2592 × 1520	2592 × 1520	2592 × 1520
Lens	Thermal: -F: 8, 15 or 25 mm, -M: 25 mm, Optical: 5.3 to 159 mm	Thermal: -F: 9, 15 or 25 mm, -M: 25 mm, Optical: 5.3 to 159 mm	Thermal: -F: 8, 15, 25, 35 or 50 mm -M: 25 or 50 mm, Optical: 5.3 to 159 mm	Thermal: -F: 9, 15, 25, 35 or 50 mm -M: 25 or 50 mm, Optical: 5.3 to 159 mm
FOV (Thermal)	8 mm: 46° × 35.3° 15 mm: 25.5° × 19.2° 25 mm: 15.4° × 11.6°	9 mm: 48° × 38° 15 mm: 32° × 26° 25 mm: 17° × 14°	8 mm: 46° × 35.3°, 15 mm: 25.5° × 19.2° 25 mm: 15.4° × 11.6°, 35 mm: 11° × 8.3° 50 mm: 7.7° × 5.8°	9 mm: 48° × 38°, 15 mm: 32° × 26° 25 mm: 17° × 14°, 35 mm: 12° × 10° 50 mm: 8° × 7°
Temperature Range	-20° C to 150° C (-4° F to 302° F)	-20° C to 150° C (-4° F to 302° F)	-20° C to 150° C (-4° F to 302° F)	-20° C to 150° C (-4° F to 302° F)
Temperature Alarm	Threshold alarm, Temperature difference alarm, Temperature section alarm, Temperature rise alarm		Threshold alarm, Temperature difference alarm, Temperature section alarm, Temperature rise alarm	
Measurement Rule	3 temperature measurement rule types (spot, areas, line)		3 temperature measurement rule types (spot, areas, line)	
Smart Function	Human / Vehicle, Smoke & Flame, and Fire point detection		Human / Vehicle, Smoke & Flame, and Fire point detection	
Intelligent Analysis	Intrusion, Single / Double line crossing, Loitering, Wrong-way, Enter / Leave area, and People counting		Intrusion, Single / Double line crossing, Loitering, Wrong-way, Enter / Leave area, and People counting	
Audio In/Out	1/1	1/1	2/2	2/2
Alarm In/Out	-/1	-/1	9/4	9/4
Memory Slot	Micro SD, Max. 512 GB	Micro SD, Max. 512 GB	Micro SD, Max. 512 GB	Micro SD, Max. 512 GB
Ingress Protection	IP66	IP66	IP66	IP66
Operating Temperature	From -30° C to 60° C (-22° F to 140° F)	From -30° C to 60° C (-22° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)
Power	24 VDC, Max. 40W	24 VDC, Max. 40W	36 VDC, Max. 80W	36 VDC, Max. 80W
Product Size	323 × 192.5 × 177 mm	323 × 192.5 × 177 mm	419 × 282 × 316 mm	419 × 282 × 316 mm

Thermal Cameras

	PTZ Thermal Series			
Model	SN-TPT4233ZZ-M	SN-TPT6436ZZ-M	SN-TPT4233LPZ-M	SN-TPT6436LPZ-Z
Appearance				
Sensor (Thermal)	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays
Pixel Pitch (Thermal)	17μm	12μm	17μm	12μm
Sensitivity (NETD)	≤ 40mK	≤ 40mK	≤ 40mK	≤ 40mK
Resolution (Thermal)	400 × 300	640 × 512	400 × 300	640 × 512
Sensor (Optical)	1/1.8" STARVIS™ CMOS	1/1.8" STARVIS™ CMOS	1/1.8" STARVIS™ CMOS	1/1.8" STARVIS™ CMOS
Max. Resolution (Optical)	2592 × 1520	2592 × 1520	2592 × 1520	2592 × 1520
Lens	Thermal: 25, 50, 75 or 100 mm Optical: 6.8 to 251 mm	Thermal: 25, 50, 75 or 100 mm Optical: 6.8 to 251 mm	Thermal: 75 or 100 mm Optical: 6.8 to 251 mm	Thermal: 26 to 105 mm Optical: 6.8 to 251 mm
FOV (Thermal)	25 mm: 15.4° × 11.6°, 50 mm: 7.7° × 5.8°, 75 mm: 5.1° × 3.8°, 100 mm: 3.8° × 2.3°	25 mm: 17° × 14°, 50 mm: 8° × 7°, 75 mm: 6° × 5°, 100 mm: 4.3° × 3.5°	75 mm: 5.1° × 3.8° 100 mm: 3.8° × 2.3°	H: 16.8° × 4.2°, V: 13.4° × 3.4°
Temperature Range	-20° C to 150° C (-4° F to 302° F)	-20° C to 150° C (-4° F to 302° F)	-20° C to 150° C (-4° F to 302° F)	-20° C to 150° C (-4° F to 302° F)
Temperature Alarm	Threshold alarm, Temperature difference alarm, Temperature section alarm, Temperature rise alarm		Threshold alarm, Temperature difference alarm, Temperature section alarm, Temperature rise alarm	
Measurement Rule	3 temperature measurement rule types (spot, areas, line)		3 temperature measurement rule types (spot, areas, line)	
Smart Function	Human / Vehicle, Smoke & Flame, and Fire point detection		Human / Vehicle, Smoke & Flame, and Fire point detection (Ship detection optional)	
Intelligent Analysis	Intrusion, Single / Double line crossing, Loitering, Wrong-way, Enter / Leave area, and People counting		Intrusion, Single / Double line crossing, Loitering, Wrong-way, Enter / Leave area, and People counting	
Audio In/Out	2/2	2/2	2/2	2/2
Alarm In/Out	9/4	9/4	9/4	9/4
Memory Slot	Micro SD, Max. 512 GB	Micro SD, Max. 512 GB	Micro SD, Max. 512 GB	Micro SD, Max. 512 GB
Ingress Protection	IP66	IP66	IP66	IP66
Operating Temperature	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)
Power	36 VDC, Max. 100W	36 VDC, Max. 100W	36 VDC, Max. 150W	36 VDC, Max. 150W
Product Size	294 × 420 × 536 mm	294 × 420 × 536 mm	594 × 350 × 337 mm	594 × 350 × 337 mm

Thermal Cameras

	PTZ Thermal Series		
Model	SN-TPT4233HZ-M	SN-TPT6436HZ-M	SN-TPT6436HZ-Z
Appearance			
Sensor (Thermal)	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays
Pixel Pitch (Thermal)	17μm	12μm	12μm
Sensitivity (NETD)	≤ 40mK	≤ 40mK	≤ 40mK
Resolution (Thermal)	400 × 300	640 × 512	640 × 512
Sensor (Optical)	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/1.8" STARVIS™ CMOS
Max. Resolution (Optical)	2560 × 1440	2560 × 1440	2560 × 1440
Lens	Thermal: 75 or 100 mm Optical: 12.5 to 400, 15.6 to 500, 12.5 to 750 or 16.7 to 1000 mm	Thermal: 75 or 100 mm Optical: 12.5 to 400, 15.6 to 500, 12.5 to 750 or 16.7 to 1000 mm	Thermal: 30 to 150 mm Optical: 10 to 860 mm
FOV (Thermal)	8 mm: 46° × 35.3°, 15 mm: 25.5° × 19.2° 25 mm: 15.4° × 11.6°, 35 mm: 11° × 8.3° 50 mm: 7.7° × 5.8°	9 mm: 48° × 38°, 15 mm: 32° × 26° 25 mm: 17° × 14°, 35 mm: 12° × 10° 50 mm: 8° × 7°	H: 14.5° to 2.9°, V: 11.6° to 2.3°
Temperature Range	-20° C to 150° C (-4° F to 302° F)	-20° C to 150° C (-4° F to 302° F)	-20° C to 150° C (-4° F to 302° F)
Temperature Alarm	Threshold alarm, Temperature difference alarm, Temperature section alarm, Temperature rise alarm		
Measurement Rule	3 temperature measurement rule types (spot, areas, line)		
Smart Function	Human / Vehicle, Smoke & Flame, and Fire point detection (Ship detection optional)		
Intelligent Analysis	Intrusion, Single / Double line crossing, Loitering, Wrong-way, Enter / Leave area, and People counting		
Audio In/Out	2/2	2/2	2/2
Alarm In/Out	3/3	3/3	3/3
Memory Slot	Micro SD, Max. 512 GB	Micro SD, Max. 512 GB	Micro SD, Max. 512 GB
Ingress Protection	IP66	IP66	IP66
Operating Temperature	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)
Power	36 VDC, Max. 150W	36 VDC, Max. 150W	36 VDC, Max. 150W
Product Size	730 × 443 × 636 mm	730 × 443 × 636 mm	730 × 443 × 636 mm

Thermal Cameras

	Thermography Speed Dome Series			
Model	SN-TPS4157ET-F	SN-TPS4157ET-M	SN-TPS6457ET-M	SN-TPS6457ELT-M
Appearance				 4G
Sensor (Thermal)	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays
Pixel Pitch (Thermal)	12μm	12μm	12μm	12μm
Sensitivity (NETD)	≤ 40mK	≤ 40mK	≤ 40mK	≤ 40mK
Resolution (Thermal)	384 × 288	384 × 288	640 × 512	640 × 512
Sensor (Optical)	1/1.8"STARVIS™ CMOS	1/1.8"STARVIS™ CMOS	1/1.8"STARVIS™ CMOS	1/1.8"STARVIS™ CMOS
Max. Resolution (Optical)	2688 × 1520	2688 × 1520	2688 × 1520	2688 × 1520
Lens	Thermal: 5, 7 or 15 mm Fixed lens Optical: 6.8 to 251 mm, 40x optical zoom	Thermal: 25 mm Motorized lens Optical: 6.8 to 251 mm, 40x optical zoom	Thermal: 25 mm Motorized lens Optical: 6.8 to 251 mm, 40x optical zoom	Thermal: 25 mm Motorized lens Optical: 6.8 to 251 mm, 40x optical zoom
FOV (Thermal)	5 mm: H: 56°, V: 40°, 7 mm: H: 44°, V: 33° 15 mm: 21° × 16°	25 mm: H: 10.5°, V: 7.9°	25 mm: H: 17°, V: 14°	25 mm: H: 17°, V: 14°
Temperature Range	-20° C to 150° C (-4° F to 302° F) or 0° C to 550° C (32° F to 1022° F), Accuracy: ±2° C / ±2%		-20° C to 150° C (-4° F to 302° F) or 0° C to 550° C (32° F to 1022° F), Accuracy: ±2° C / ±2%	
Temperature Alarm	Threshold alarm, Temperature difference alarm, Temperature section alarm, Temperature rise alarm		Threshold alarm, Temperature difference alarm, Temperature section alarm, Temperature rise alarm	
Measurement Rule	3 temperature measurement rule types (spot, areas, line)		3 temperature measurement rule types (spot, areas, line)	
Mobile Communication	-	-	-	4G Wireless Network Transmission
Intelligent Video	Human/Vehicle detection, fire point detection, smoking detection and smoke & flame detection, IVS, Cold/hot spot tracking, Human/Vehicle tracking		Human/Vehicle detection, fire point detection, smoking detection and smoke & flame detection, IVS, Cold/hot spot tracking, Human/Vehicle/Ship tracking	
Audio In/Out	1/1	1/1	1/1	1/1
Alarm In/Out	7/2	7/2	7/2	7/2
Memory Slot	Micro SD, Max. 1TB	Micro SD, Max. 1TB	Micro SD, Max. 1TB	Micro SD, Max. 1TB
Ingress Protection	IP66	IP66	IP66	IP66
Operating Temperature	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)
Power	24 VAC/36 VDC/PoE++ (802.3bt), Max. 45W	24 VAC/36 VDC/PoE++ (802.3bt), Max. 45W	24 VAC/36 VDC/PoE++ (802.3bt), Max. 45W	24 VAC/36 VDC/PoE++ (802.3bt), Max. 45W

Thermal Cameras

	Security Speed Dome Series			
Model	SN-TPS4157EV-F	SN-TPS4157EV-M	SN-TPS6457EV-M	SN-TPS6457ELV-M
Appearance				 4G
Sensor (Thermal)	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays
Pixel Pitch (Thermal)	12μm	12μm	12μm	12μm
Sensitivity (NETD)	≤ 40mK	≤ 40mK	≤ 40mK	≤ 40mK
Resolution (Thermal)	384 × 288	384 × 288	640 × 512	640 × 512
Sensor (Optical)	1/1.8"STARVIS™ CMOS	1/1.8"STARVIS™ CMOS	1/1.8"STARVIS™ CMOS	1/1.8"STARVIS™ CMOS
Max. Resolution (Optical)	2688 × 1520	2688 × 1520	2688 × 1520	2688 × 1520
Lens	Thermal: 5, 7 or 15 mm Fixed lens Optical: 6.8 to 251 mm, 40x optical zoom	Thermal: 25 mm Motorized lens Optical: 6.8 to 251 mm, 40x optical zoom	Thermal: 25 mm Motorized lens Optical: 6.8 to 251 mm, 40x optical zoom	Thermal: 25 mm Motorized lens Optical: 6.8 to 251 mm, 40x optical zoom
FOV (Thermal)	5 mm: H: 56°, V: 40°, 7 mm: H: 44°, V: 33°, 15 mm: 21° × 16°	25 mm: H: 10.5°, V: 7.9°	25 mm: H: 17°, V: 14°	25 mm: H: 17°, V: 14°
Temperature Range	-20° C to 150° C (-4° F to 302° F), Accuracy: ±8°C		-20° C to 150° C (-4° F to 302° F), Accuracy: ±8°C	
Temperature Alarm	Threshold alarm, Temperature difference alarm, Temperature section alarm, Temperature rise alarm		Threshold alarm, Temperature difference alarm, Temperature section alarm, Temperature rise alarm	
Measurement Rule	3 temperature measurement rule types (spot, areas, line)		3 temperature measurement rule types (spot, areas, line)	
Mobile Communication	-	-	-	4G Wireless Network Transmission
Intelligent Video	Human/Vehicle detection, fire point detection, smoking detection and smoke & flame detection, IVS, Cold/hot spot tracking, Human/Vehicle tracking		Human/Vehicle detection, fire point detection, smoking detection and smoke & flame detection, IVS, Cold/hot spot tracking, Human/Vehicle/Ship tracking	
Audio In/Out	1/1	1/1	1/1	1/1
Alarm In/Out	7/2	7/2	7/2	7/2
Memory Slot	Micro SD, Max. 1TB	Micro SD, Max. 1TB	Micro SD, Max. 1TB	Micro SD, Max. 1TB
Ingress Protection	IP66	IP66	IP66	IP66
Operating Temperature	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)
Power	24 VAC/36 VDC/PoE++ (802.3bt), Max. 45W	24 VAC/36 VDC/PoE++ (802.3bt), Max. 45W	24 VAC/36 VDC/PoE++ (802.3bt), Max. 45W	24 VAC/36 VDC/PoE++ (802.3bt), Max. 45W

Thermal Cameras

	Security Speed Dome Series			
Model	SN-TPS4157ED-F	SN-TPS4157ED-M	SN-TPS6457ED-M	SN-TPS6457ELD-M
Appearance	 	 	 	  
Sensor (Thermal)	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays
Pixel Pitch (Thermal)	12μm	12μm	12μm	12μm
Sensitivity (NETD)	≤ 40mK	≤ 40mK	≤ 40mK	≤ 40mK
Resolution (Thermal)	384 × 288	384 × 288	640 × 512	640 × 512
Sensor (Optical)	1/1.8"STARVIS™ CMOS	1/1.8"STARVIS™ CMOS	1/1.8"STARVIS™ CMOS	1/1.8"STARVIS™ CMOS
Max. Resolution (Optical)	2688 × 1520	2688 × 1520	2688 × 1520	2688 × 1520
Lens	Thermal: 5, 7 or 15 mm Fixed lens Optical: 6.8 to 251 mm, 40x optical zoom	Thermal: 25 mm Motorized lens Optical: 6.8 to 251 mm, 40x optical zoom	Thermal: 25 mm Motorized lens Optical: 6.8 to 251 mm, 40x optical zoom	Thermal: 25 mm Motorized lens Optical: 6.8 to 251 mm, 40x optical zoom
FOV (Thermal)	5 mm: H: 56°, V: 40°, 7 mm: H: 44°, V: 33° 15 mm: 21° × 16°	25 mm: H: 10.5°, V: 7.9°	25 mm: H: 17°, V: 14°	25 mm: H: 17°, V: 14°
Temperature Range	-20° C to 150° C (-4° F to 302° F), Accuracy: ±8°C		-20° C to 150° C (-4° F to 302° F), Accuracy: ±8°C	
Temperature Alarm	Threshold alarm, Temperature difference alarm, Temperature section alarm, Temperature rise alarm		Threshold alarm, Temperature difference alarm, Temperature section alarm, Temperature rise alarm	
Measurement Rule	3 temperature measurement rule types (spot, areas, line)		3 temperature measurement rule types (spot, areas, line)	
Mobile Communication	-	-	-	4G Wireless Network Transmission
Intelligent Video	Human/Vehicle detection, fire point detection, smoking detection and smoke & flame detection, IVS, Cold/hot spot tracking, Human/Vehicle tracking		Human/Vehicle detection, fire point detection, smoking detection and smoke & flame detection, IVS, Cold/hot spot tracking, Human/Vehicle/Ship tracking	
Radar-Linked PTZ	Support	Support	Support	Support
Audio In/Out	1/1	1/1	1/1	1/1
Alarm In/Out	7/2	7/2	7/2	7/2
Memory Slot	Micro SD, Max. 1TB	Micro SD, Max. 1TB	Micro SD, Max. 1TB	Micro SD, Max. 1TB
Ingress Protection	IP66	IP66	IP66	IP66
Operating Temperature	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)
Power	24 VAC/36 VDC/PoE++ (802.3bt), Max. 45W	24 VAC/36 VDC/PoE++ (802.3bt), Max. 45W	24 VAC/36 VDC/PoE++ (802.3bt), Max. 45W	24 VAC/36 VDC/PoE++ (802.3bt), Max. 45W

Explosion-proof Thermal Cameras

	Explosion-proof Series			
Model	SN-TPH4203DA-F/M	SN-TPH6406DA-F/M	SN-TPT4233PA-F/M	SN-TPH6436PA-F/M
Appearance				
Sensor (Thermal)	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays
Pixel Pitch (Thermal)	17μm	12μm	17μm	12μm
Sensitivity (NETD)	≤ 40mK	≤ 40mK	≤ 40mK	≤ 40mK
Resolution (Thermal)	400 × 300	640 × 512	400 × 300	640 × 512
Sensor (Optical)	-	-	1/2.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS
Max. Resolution (Optical)	-	-	2592 × 1520	2592 × 1520
Lens	-F: 8, 15, 25, 35 or 50 mm, -M: 25 or 50 mm	-F: 9, 15, 25, 35 or 50 mm, -M: 25 or 50 mm	Thermal: -F: 8, 15, 25, 35 or 50 mm -M: 25 or 50 mm, Optical: 5.3 to 159 mm	Thermal: -F: 9, 15, 25, 35 or 50 mm -M: 25 or 50 mm, Optical: 5.3 to 159 mm
FOV (Thermal)	8 mm: 46° × 35.3°, 15 mm: 25.5° × 19.2° 25 mm: 15.4° × 11.6°, 35 mm: 11° × 8.3° 50 mm: 7.7° × 5.8°	9 mm: 48° × 38°, 15 mm: 32° × 26° 25 mm: 17° × 14°, 35 mm: 12° × 10° 50 mm: 8° × 7°	8 mm: 46° × 35.3°, 15 mm: 25.5° × 19.2° 25 mm: 15.4° × 11.6°, 35 mm: 11° × 8.3° 50 mm: 7.7° × 5.8°	9 mm: 48° × 38°, 15 mm: 32° × 26° 25 mm: 17° × 14°, 35 mm: 12° × 10° 50 mm: 8° × 7°
Temperature Range	-20° C to 150° C (-4° F to 302° F)	-20° C to 150° C (-4° F to 302° F)	-20° C to 150° C (-4° F to 302° F)	-20° C to 150° C (-4° F to 302° F)
Temperature Alarm	Threshold alarm, Temperature difference alarm, Temperature section alarm, Temperature rise alarm		Threshold alarm, Temperature difference alarm, Temperature section alarm, Temperature rise alarm	
Measurement Rule	3 temperature measurement rule types (spot, areas, line)	3 temperature measurement rule types (spot, areas, line)	3 temperature measurement rule types (spot, areas, line)	3 temperature measurement rule types (spot, areas, line)
Smart Function	Human / Vehicle, Smoking, and Fire point detection (Ship detection optional)		Human / Vehicle, Smoke & Flame, Smoking, and Fire point detection (Ship detection optional)	
Intelligent Analysis	Intrusion, Single / Double line crossing, Loitering, Wrong-way, Enter / Leave area, and People counting			
Audio In/Out	1/1	1/1	1/1	1/1
Alarm In/Out	2/1	2/1	5/1	5/1
Memory Slot	Micro SD, Max. 256 GB	Micro SD, Max. 256 GB	Micro SD, Max. 256 GB	Micro SD, Max. 256 GB
Ingress Protection	IP68	IP68	IP68	IP68
Operating Temperature	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)	From -40° C to 60° C (-40° F to 140° F)
Power	100 to 240 VAC, Max. 25W	100 to 240 VAC, Max. 25W	100 to 240 VAC, Max. 75W	100 to 240 VAC, Max. 75W
Product Size	464 × 166 × 171 mm	464 × 166 × 171 mm	567 × 360 × 494 mm	567 × 360 × 494 mm

NVR



NVR

Pro Series

- AI cameras, thermal cameras, fisheye and other types of IPC cameras access
- Excellent user interface, easy operation
- Comprehensive HD, powerful, intelligent, stable and reliable
- Meets the professional security surveillance industry requirements



2/4/8 HDD



4K Display



RAID



Spot Monitor



Real-time
Comparison



Smart Event
Alarm



Alarm Classification
Retrieval



Database



People Counting



Attendance
Management



Temperature
Graph Display



Picture Grid

Pro Series

	8HDD NVR				
Model	SN-NVR3932E8-J	SN-NVR3932E8-JA	SN-NVR3964E8-J	SN-NVR3964E8-P16-J	SN-NVR3964E8-JR
Appearance					
Video Inputs	32 Channels	32 Channels	64 Channels	64 Channels	64 Channels
Incoming/Outgoing Bandwidth	320Mbps/320Mbps	320Mbps/320Mbps	400Mbps/400Mbps	400Mbps/400Mbps	400Mbps/400Mbps
Max. Decoding	1ch 12MP, 4ch 8MP, 8ch 4MP, 16ch 1080P, 32ch D1	4ch 12MP, 8ch 8MP, 16ch 4MP, 32ch 1080P	1ch 12MP, 4ch 8MP, 8ch 4MP, 16ch 1080P, 32ch D1, 64ch D1	1ch 12MP, 4ch 8MP, 8ch 4MP, 16ch 1080P, 32ch D1, 64ch D1	1ch 12MP, 4ch 8MP, 8ch 4MP, 16ch 1080P, 32ch D1, 64ch D1
Recording Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.
Display	2HDMI, 1VGA	2HDMI, 1VGA	2HDMI, 1VGA	2HDMI, 1VGA	2HDMI, 1VGA
Max. HDD	8×16TB	8×16TB	8×16TB	8×16TB	8×16TB
RAID	RAID 0/1/5/6/10	RAID 0/1/5/6/10	RAID 0/1/5/6/10	RAID 0/1/5/6/10	RAID 0/1/5/6/10
eSATA	1 eSATA interface	1 eSATA interface	1 eSATA interface	1 eSATA interface	1 eSATA interface
Audio In/Out	1/1	1/1	1/1	1/1	1/1
Alarm In/Out	16/6	16/6	16/6	16/6	16/6
Network Interface	2×1000M Ports	2×1000M Ports	2×1000M Ports	2×1000M Ports	2×1000M Ports
PoE Port	–	–	–	16 Ports (IEEE802.3at/af), Max 140W	–
USB Port	2×USB 2.0, 2×USB3.0	2×USB 2.0, 2×USB3.0	2×USB 2.0, 2×USB3.0	2×USB 2.0, 2×USB3.0	2×USB 2.0, 2×USB3.0
Power	100 to 240 VAC ≤ 15W (Without HDD)	100 to 240 VAC ≤ 15W (Without HDD)	100 to 240 VAC ≤ 15W (Without HDD)	100 to 240 VAC ≤ 15W (Without HDD)	100 to 240 VAC, Redundant power supply ≤ 15W (Without HDD)
Smart Function	Deep learning-based video analysis, AI recognition, or intrusion detection with 4 channels based on human and vehicle detection.	Deep learning-based video analysis, AI recognition, or intrusion detection with 4 channels based on human and vehicle detection.	Deep learning-based video analysis, AI recognition, or intrusion detection with 4 channels based on human and vehicle detection.	Deep learning-based video analysis, AI recognition, or intrusion detection with 4 channels based on human and vehicle detection.	Deep learning-based video analysis, AI recognition, or intrusion detection with 4 channels based on human and vehicle detection.

Pro Series

	4HDD NVR			
Model	SN-NVR3932E4-JA	SN-NVR3932E4-P16-JA	SN-NVR3964E4-J	SN-NVR3964E4-P16-J
Appearance				
Video Inputs	32 Channels	32 Channels	64 Channels	64 Channels
Incoming/Outgoing Bandwidth	320Mbps/320Mbps	320Mbps/320Mbps	400Mbps/400Mbps	400Mbps/400Mbps
Max. Decoding	1ch 12MP, 4ch 8MP, 8ch 4MP, 16ch 1080P, 32ch D1	1ch 12MP, 4ch 8MP, 8ch 4MP, 16ch 1080P, 32ch D1	1ch 12MP, 4ch 8MP, 8ch 4MP, 16ch 1080P, 32ch D1, 64ch D1	1ch 12MP, 4ch 8MP, 8ch 4MP, 16ch 1080P, 32ch D1, 64ch D1
Recording Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.
Display	2HDMI, 1VGA	2HDMI, 1VGA	2HDMI, 1VGA	2HDMI, 1VGA
Max. HDD	4×16TB	4×16TB	4×16TB	4×16TB
RAID	RAID 0/1/5/6/10	RAID 0/1/5/6/10	RAID 0/1/5/6/10	RAID 0/1/5/6/10
eSATA	1 eSATA interface	1 eSATA interface	1 eSATA interface	1 eSATA interface
Audio In/Out	1/1	1/1	1/1	1/1
Alarm In/Out	16/4	6/2	16/6	16/6
Network Interface	2×1000M Ports	2×1000M Ports	2×1000M Ports	2×1000M Ports
PoE Port	–	16 Ports (IEEE802.3at/af), Max 140W	–	16 Ports (IEEE802.3at/af), Max 140W
USB Port	2×USB 2.0, 1×USB3.0	2×USB 2.0, 1×USB3.0	2×USB 2.0, 2×USB3.0	2×USB 2.0, 2×USB3.0
Power	100 to 240 VAC ≤ 15W (Without HDD)	100 to 240 VAC ≤ 15W (Without HDD)	100 to 240 VAC ≤ 15W (Without HDD)	100 to 240 VAC ≤ 15W (Without HDD)
Smart Function	Deep learning-based video analysis, AI recognition, or intrusion detection with 4 channels based on human and vehicle detection.	Deep learning-based video analysis, AI recognition, or intrusion detection with 4 channels based on human and vehicle detection.	Deep learning-based video analysis, AI recognition, or intrusion detection with 4 channels based on human and vehicle detection.	Deep learning-based video analysis, AI recognition, or intrusion detection with 4 channels based on human and vehicle detection.

Pro Series

	2HDD NVR		
Model	SN-NVR3908E2-J	SN-NVR3916E2-J	SN-NVR3932E2-J
Appearance			
Video Inputs	8 Channels	16 Channels	32 Channels
Incoming/Outgoing Bandwidth	160Mbps/160Mbps	288Mbps/288Mbps (160Mbps with AI enabled)	320Mbps/320Mbps
Max. Decoding	1ch 12MP, 4ch 8MP, 8ch 4MP	1ch 12MP, 4ch 8MP, 8ch 4MP, 16ch 1080P	1ch 12MP, 4ch 8MP, 8ch 4MP, 16ch 1080P, 32ch D1
Recording Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.
Display	2HDMI, 1VGA	2HDMI, 1VGA	2HDMI, 1VGA
Max. HDD	2×12TB	2×12TB	2×12TB
RAID	–	–	–
eSATA	1 eSATA interface	1 eSATA interface	1 eSATA interface
Audio In/Out	1/1	1/1	1/1
Alarm In/Out	6/2	6/2	6/2
Network Interface	2×1000M Ports	2×1000M Ports	2×1000M Ports
PoE Port	–	–	–
USB Port	2×USB 2.0, 1×USB3.0	2×USB 2.0, 1×USB3.0	2×USB 2.0, 1×USB3.0
Power	12 VDC/3A ≤ 15W (Without HDD)	12 VDC/3A ≤ 15W (Without HDD)	12 VDC/3A ≤ 15W (Without HDD)
Smart Function	Deep learning-based video analysis, AI recognition, or intrusion detection with 8 channels based on human and vehicle detection.	Deep learning-based video analysis, AI recognition, or intrusion detection with 16 channels based on human and vehicle detection.	Deep learning-based video analysis, AI recognition, or intrusion detection with 4 channels based on human and vehicle detection.

Pro Series

	2HDD NVR		
Model	SN-NVR3908E2-P8-JA	SN-NVR3916E2-P16-JA	SN-NVR3916E2-P16-JB
Appearance			
Video Inputs	8 Channels	16 Channels	16 Channels
Incoming/Outgoing Bandwidth	160Mbps/160Mbps	288Mbps/288Mbps (160Mbps with AI enabled)	288Mbps/288Mbps (160Mbps with AI enabled)
Max. Decoding	1ch 12MP, 4ch 8MP, 8ch 4MP	1ch 12MP, 4ch 8MP, 8ch 4MP, 16ch 1080P	1ch 12MP, 4ch 8MP, 8ch 4MP, 16ch 1080P
Recording Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.
Display	1HDMI, 1VGA	1HDMI, 1VGA	2HDMI, 1VGA
Max. HDD	2×12TB	2×12TB	2×16TB
RAID	–	–	–
eSATA	1 eSATA interface	1 eSATA interface	1 eSATA interface
Audio In/Out	1/1	1/1	1/1
Alarm In/Out	6/2	6/2	6/2
Network Interface	2×1000M Ports	2×1000M Ports	2×1000M Ports
PoE Port	8 Ports (IEEE802.3at/af), Max 80W	16 Ports (IEEE802.3at/af), Max 128W	16 Ports, (IEEE802.3af/at), Max 240W
USB Port	2×USB 2.0, 1×USB3.0	2×USB 2.0, 1×USB3.0	2×USB 2.0, 1×USB3.0
Power	100 to 240 VAC ≤ 15W (Without HDD)	100 to 240 VAC ≤ 15W (Without HDD)	100 to 240 VAC ≤ 15W (Without HDD)
Smart Function	Deep learning-based video analysis, AI recognition, or intrusion detection with 8 channels based on human and vehicle detection.	Deep learning-based video analysis, AI recognition, or intrusion detection with 16 channels based on human and vehicle detection.	Deep learning-based video analysis, AI recognition, or intrusion detection with 16 channels based on human and vehicle detection.

NVR

Eco Series

- Supports 4K camera access, storage and playback
- Multiple intelligent analysis of different alarm types and linkage strategies
- Meets the professional security surveillance industry requirements



1/2 HDD Slot



4K Display



S.M.A.R.T



Spot Monitor



Abnormal Alarm



Smart Event Alarm



Alarm Classification Retrieval



PoE Status



Disk Group



Record Backup



Picture Grid



Attendance Management



Eco Series

	2HDD NVR				
Model	SN-NVR3808E2-P8-J (III)	SN-NVR3816E2-J (III)	SN-NVR3816E2-P16-J (III)	SN-NVR3832E2 (III)	SN-NVR3832E2-P16 (III)
Appearance					
Video Inputs	8 Channels	16 Channels	16 Channels	32 Channels	32 Channels
Incoming/Outgoing Bandwidth	80Mbps/80Mbps	160Mbps/160Mbps 112Mbps/112Mbps with AI on	160Mbps/160Mbps 112Mbps/112Mbps with AI on	160Mbps/80Mbps	160Mbps/80Mbps
Max. Decoding	1ch 12MP, 4ch 4MP, 8ch 1080P	1ch 12MP, 4ch 4MP, 8ch 1080P, 16ch D1	1ch 12MP, 4ch 4MP, 8ch 1080P, 16ch D1	1ch 12MP, 4ch 4MP, 8ch 1080P, 16ch D1, 32ch D1	1ch 12MP, 4ch 4MP, 8ch 1080P, 16ch D1, 32ch D1
Recording Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max. HDD	2×12TB	2×12TB	2×12TB	2×12TB	2×12TB
RAID	-	-	-	-	-
eSATA	-	-	-	-	-
Audio In/Out	1/1	1/1	1/1	1/1	1/1
Alarm In/Out	8/1	8/1	8/2	8/1	8/2
Network Interface	1×1000M Ports	2×1000M Ports	1×1000M Ports	2×1000M Ports	1×1000M Ports
PoE Port	8 Ports (IEEE802.3af/at), Max 128W	-	16 Ports (IEEE802.3af/at), Max 128W	-	16 Ports (IEEE802.3af/at), Max 128W
USB Port	3×USB 2.0	2×USB 2.0	3×USB 2.0	2×USB 2.0	3×USB 2.0
Power	100 to 240 VAC ≤ 15W (Without HDD)	DC12V/3A ≤ 15W (Without HDD)	100 to 240 VAC ≤ 15W (Without HDD)	DC12V/3A ≤ 15W (Without HDD)	100 to 240 VAC ≤ 15W (Without HDD)
Smart Function	Deep learning-based video analysis, AI recognition, or intrusion detection with 4 channels based on human and vehicle detection.	Deep learning-based video analysis, AI recognition, or intrusion detection with 4 channels based on human and vehicle detection.	Deep learning-based video analysis, AI recognition, or intrusion detection with 4 channels based on human and vehicle detection.	-	-

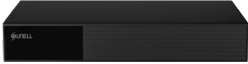
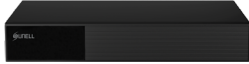
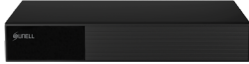
Eco Series

	1HDD NVR			
Model	SN-NVR3804E1-J (III)	SN-NVR3804E1-P4-J (III)	SN-NVR3808E1-J (III)	SN-NVR3808E1-P8-J (III)
Appearance				
Video Inputs	4 Channels	4 Channels	8 Channels	8 Channels
Incoming/Outgoing Bandwidth	40Mbps/40Mbps	40Mbps/40Mbps	80Mbps/80Mbps	80Mbps/80Mbps
Max. Decoding	1ch 12MP, 4ch 4MP	1ch 12MP, 4ch 4MP	1ch 12MP, 4ch 4MP, 8ch 1080P	1ch 12MP, 4ch 4MP, 8ch 1080P
Recording Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max. HDD	1×12TB	1×12TB	1×12TB	1×12TB
RAID	-	-	-	-
eSATA	-	-	-	-
Audio In/Out	1/1	1/1	1/1	1/1
Alarm In/Out	4/1	4/1	4/1	8/1
Network Interface	2×100M Ports	1×100M Ports	2×100M Ports	1×1000M Ports
PoE Port	-	4 Ports (IEEE802.3af), Max 32W	-	8 Ports (IEEE802.3af), Max 72W
USB Port	2×USB 2.0	3×USB 2.0	2×USB 2.0	3×USB 2.0
Power	DC12V/3A ≤ 15W (Without HDD)	DC48V/1.25A ≤ 15W (Without HDD)	DC12V/3A ≤ 15W (Without HDD)	DC48V/2A ≤ 15W (Without HDD)
Smart Function	Deep learning-based video analysis, AI recognition, or intrusion detection with 4 channels based on human and vehicle detection.	Deep learning-based video analysis, AI recognition, or intrusion detection with 4 channels based on human and vehicle detection.	Deep learning-based video analysis, AI recognition, or intrusion detection with 4 channels based on human and vehicle detection.	Deep learning-based video analysis, AI recognition, or intrusion detection with 4 channels based on human and vehicle detection.

Lite Series

	1HDD NVR			
Model	SN-NVR3704E1-P4	SN-NVR5004E1-P4	SN-NVR3708E1-P8	SN-NVR5008E1-P8
Appearance				
Video Inputs	4 Channels	4 Channels	8 Channels	8 Channels
Incoming/Outgoing Bandwidth	40Mbps/40Mbps	40Mbps/40Mbps	40Mbps/40Mbps	64Mbps/64Mbps
Max. Decoding	1ch 8MP, 4ch 1080P	1ch 6MP, 4ch 1080P	1ch 8MP, 4ch 1080P, 8ch D1	1ch 6MP, 4ch 1080P, 8ch D1
Recording Resolution	8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max. HDD	1×8TB	1×8TB	1×8TB	1×8TB
RAID	-	-	-	-
eSATA	-	-	-	-
Audio In/Out	-/1	-/-	-/1	-/-
Alarm In/Out	-/-	-/-	-/-	-/-
Network Interface	1×100M Ports	1×100M Ports	1×100M Ports	1×100M Ports
PoE Port	4 Ports (IEEE802.3af), Max 24W	4 Ports (802.3af), Max 40W	8 Ports (IEEE802.3af), Max 40W	8 Ports (802.3af), Max 72W
USB Port	3×USB 2.0	2×USB 2.0	3×USB 2.0	2×USB 2.0
Power	DC48V/1.25A ≤ 5W (Without HDD)	48 VDC/1.36A ≤ 5W (Without HDD)	DC48V/1.25A ≤ 5W (Without HDD)	48 VDC/1.8A ≤ 5W (Without HDD)
Smart Function	-	-	-	-

Lite Series

	1HDD NVR		
Model	SN-NVR5004E1	SN-NVR5008E1	SN-NVR5016E1
Appearance			
Video Inputs	4 Channels	8 Channels	16 Channels
Incoming/Outgoing Bandwidth	40Mbps/40Mbps	64Mbps/64Mbps	64Mbps/64Mbps
Max. Decoding	1ch 6MP, 4ch 1080P	1ch 6MP, 4ch 1080P	1ch 6MP, 4ch 1080P
Recording Resolution	6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max. HDD	1×8TB	1×8TB	1×8TB
RAID	-	-	-
eSATA	-	-	-
Audio In/Out	-/-	-/-	-/-
Alarm In/Out	-/-	-/-	-/-
Network Interface	1×100M Ports	1×100M Ports	1×100M Ports
PoE Port	-	-	-
USB Port	2×USB 2.0	2×USB 2.0	2×USB 2.0
Power	12 VDC/2A ≤ 5W (Without HDD)	12 VDC/2A ≤ 5W (Without HDD)	12 VDC/2A ≤ 5W (Without HDD)
Smart Function	-	-	-

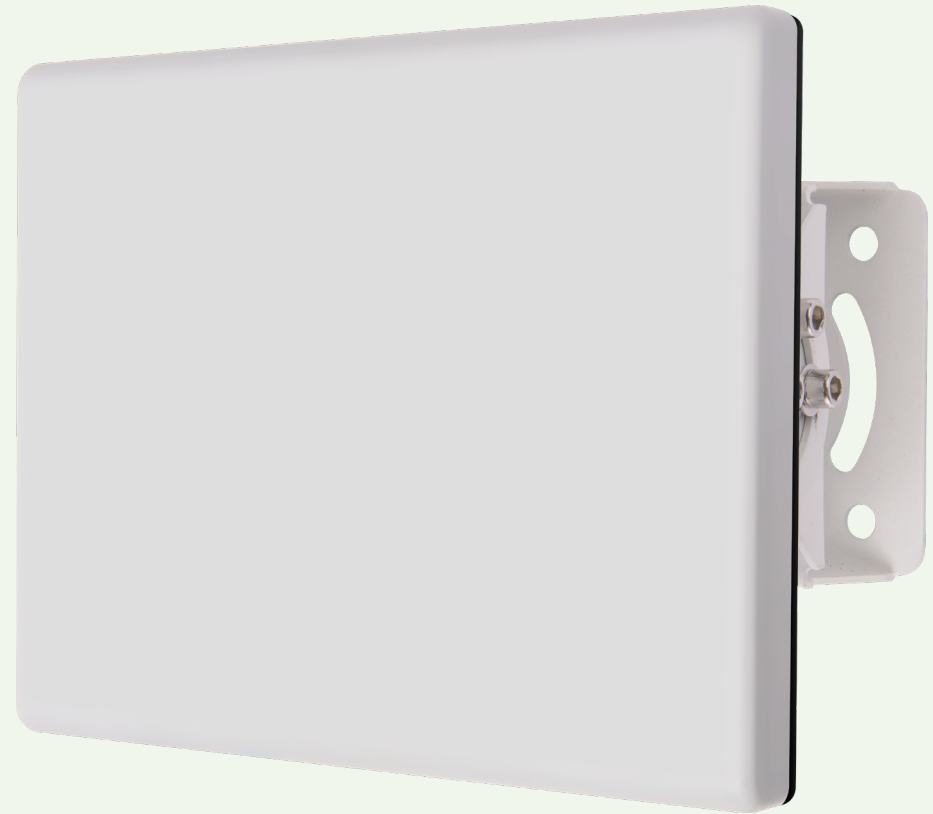
SECURITY RADAR



SECURITY RADAR

Security Radar

- 24/7 all-weather and all-environment detection
- High accuracy; low false alarm rate, zero false negative rate
- Real-time trajectory tracking; graded alarm set
- Movement tracking display; target filtering (human and vehicle)
- Centralized platform management



1500 m (4900 ft)
Detection Range(Boat)



±3 m
Distance Accuracy



**Voyage Track
Record**

Security Radar

	Security Radar				
Model	SN-SMWR01A	SN-SMWR02A	SN-SMWR03A	SN-SMWR03W	SN-SMWR21A-P
Appearance					
Max. Number of Targets	16	32	32	32	32
Detection Target Type	Human and vehicle	Human and vehicle	Human and vehicle	Ship	Human and vehicle
Detection Distance	Human: up to 60 m Vehicle: up to 60 m	Human: up to 150 m Vehicle: up to 180 m	Human: up to 450 m Vehicle: up to 600 m	Ship (5 to 10 m) : up to 800 m Ship (10 to 50 m) : up to 1,200 m Ship (50 m) : up to 1,500 m	Human: up to 300 m Walk/run across: up to 200 m Climb/squat across: up to 150 m Vehicle: up to 300 m
Detection Angle	Horizontal: 120° , Vertical: 22°	Horizontal: 90° , Vertical: 13°	Horizontal: 90° , Vertical: 13°	Horizontal: 90° , Vertical: 13°	Horizontal: 20° , Vertical: 13°
Detection Speed Range	0.5 to 30 m/s	0.5 to 30 m/s	0.5 to 30 m/s	0.5 to 30 m/s	0.03 to 30 m/s
Distance Accuracy	±0.5 m	±0.5 m	±0.75 m	±0.75 m	±0.75 m
Speed Accuracy	0.03 m/s	0.03 m/s	0.006 m/s	0.006 m/s	0.03 m/s
Angle Accuracy	±1°	±1°	±1°	±1°	±1°
Scan Frequency	10 Hz	8 Hz	8 Hz	8 Hz	8 Hz
Transmit Frequency	60 GHz	24 GHz	24 GHz	24 GHz	24 GHz
Modulation Type	FMCW	FMCW	FMCW	FMCW	FMCW
Radar + PTZ Smart Tracking	SunView CMS	SunView CMS	SunView CMS	SunView CMS	SunView CMS
Recognition Pattern	Radar triggers an alarm, linkage video review	Radar triggers an alarm, linkage video review	Radar triggers an alarm, linkage video review	Radar triggers an alarm, linkage video review	Radar triggers an alarm, linkage video review
Operating Temperature	From -40° C to 65° C (-40° F to 149° F)	From -40° C to 65° C (-40° F to 149° F)	From -40° C to 65° C (-40° F to 149° F)	From -40° C to 65° C (-40° F to 149° F)	From -40° C to 75° C (-40° F to 167° F)
Power Supply	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC/PoE+(802.3at)	12 VDC/PoE+(802.3at)	12 VDC/PoE (802.3af)

NETWORK AUDIO

- Real-time broadcasting
- Alarm event
- Timer broadcasting
- Customized voice



Network Audio

	IP Speaker			
Model	SN-PA1C01-15	SN-PA1C01-M-15	SN-PA1C01(-M)-30	SN-PA1C01-50
Appearance				
Rated Power	15 W	15 W	30 W	50 W
Max. Acoustic Pressure	96 dB SPL	96 dB SPL	110 dB SPL	96 dB SPL
Frequency Response	100 Hz to 18 KHz	100 Hz to 18 KHz	93 Hz to 20 KHz	100 Hz to 18 KHz
Harmonic Distortion	0.1@ 1 KHz	0.1@ 1 KHz	0.1@ 1 KHz	0.1@ 1 KHz
Signal to Noise Ratio	91dB	91dB	91dB	91dB
Security	Password protection, IP address filtering, Digest authentication, User access log, firewall	Password protection, IP address filtering, Digest authentication, User access log, firewall	Password protection, IP address filtering, Digest authentication, User access log, firewall	Password protection, IP address filtering, Digest authentication, User access log, firewall
Compatibility	SIP, ONVIF	SIP, ONVIF	SIP, ONVIF	SIP, ONVIF
Audio	-	Built-in 1ch MIC	With -M: Built-in 1ch MIC	-
Alarm Input	1	1	-	-
Power	12 VDC/24 VDC/PoE (802.3af)	12 VDC/24 VDC/PoE (802.3af)	12 VDC/24 VDC/PoE+ (802.3at)	24 VDC or PoE++
Material	Metal	Metal	Metal	ABS
Protection	-	-	-	-
Installation	In Ceiling	In Ceiling	In Ceiling	In Ceiling

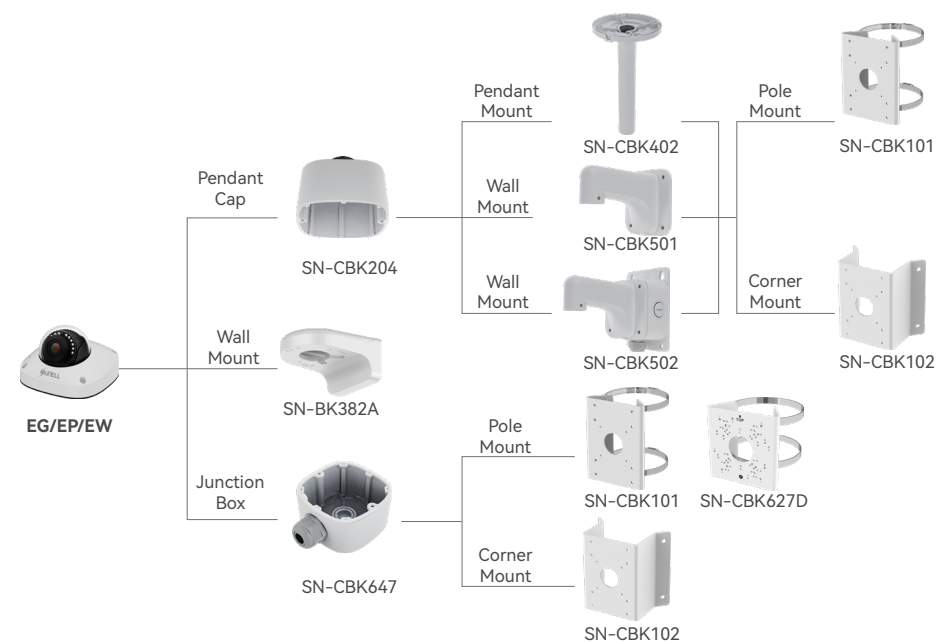
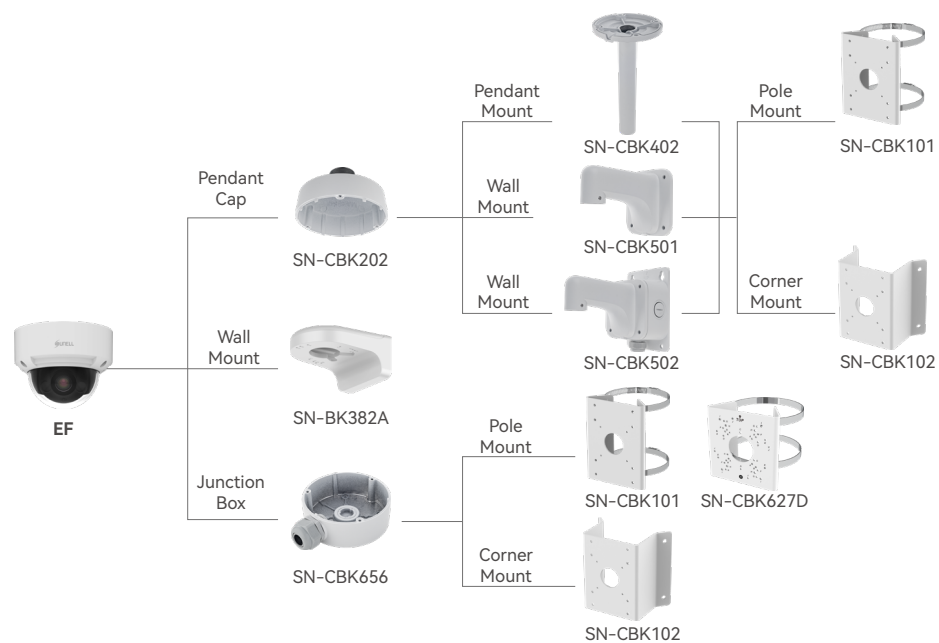
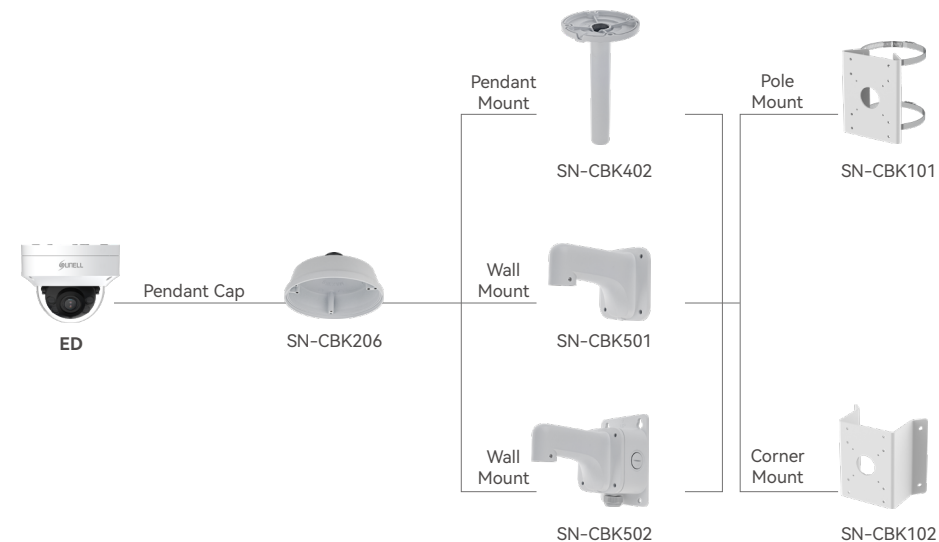
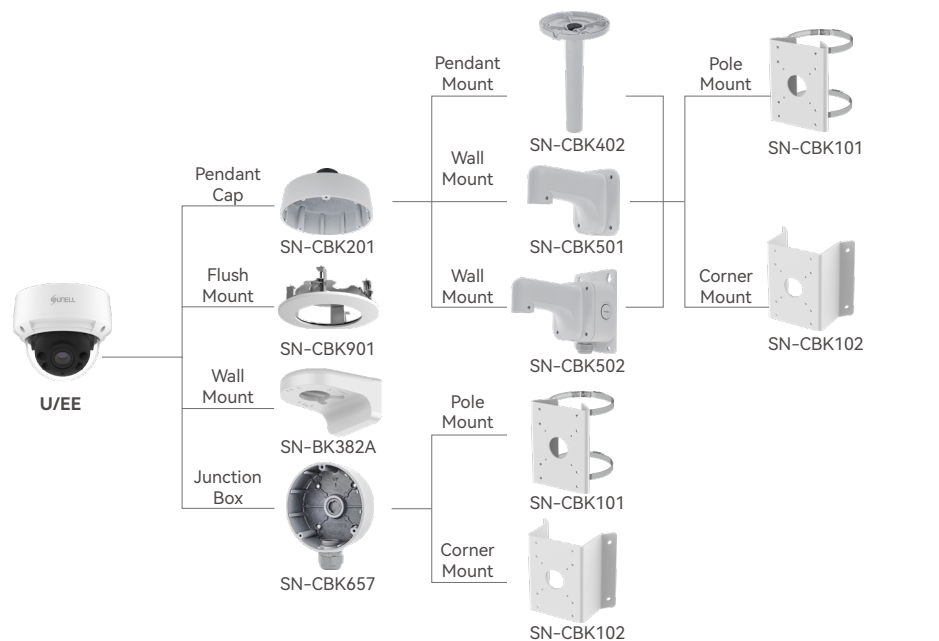
Network Audio

	IP Speaker				
Model	SN-PA1W01-15	SN-PA1W01-30	SN-PA1H01-15	SN-PA1H01-30	SN-PA1H01-M-30
Appearance					
Rated Power	15 W	30 W	15 W	30 W	30 W
Max. Acoustic Pressure	101 dB SPL	105 dB SPL	113 dB SPL	120 dB SPL	120 dB SPL
Frequency Response	80 Hz to 20 KHz	350 Hz to 8 KHz	300 Hz to 8 KHz	350 Hz to 8 KHz	350 Hz to 8 KHz
Harmonic Distortion	0.1@ 1 KHz	0.1@ 1 KHz	0.1@ 1 KHz	0.1@ 1 KHz	0.1@ 1 KHz
Signal to Noise Ratio	91dB	91dB	91dB	91dB	91dB
Security	Password protection, IP address filtering, Digest authentication, User access log, firewall	Password protection, IP address filtering, Digest authentication, User access log, firewall	Password protection, IP address filtering, Digest authentication, User access log, firewall	Password protection, IP address filtering, Digest authentication, User access log, firewall	Password protection, IP address filtering, Digest authentication, User access log, firewall
Compatibility	SIP, ONVIF	SIP, ONVIF	SIP, ONVIF	SIP, ONVIF	SIP, ONVIF
Audio	-	-	-	-	1ch Audio input, built-in 1ch MIC
Alarm Input	1	1	1	1	1
Power	12 VDC/24 VDC/PoE (802.3af)	12 VDC/24 VDC/PoE+ (802.3at)	12 VDC/24 VDC/PoE (802.3af)	12 VDC/24 VDC/PoE+ (802.3at)	12 VDC/24 VDC/PoE+ (802.3at)
Material	ABS + Metal	ABS + Metal	ABS + Metal	ABS + Metal	ABS + Metal
Protection	IP55	IP55	IP67	IP67	IP67
Installation	Wall Mounted	Wall Mounted	Wall Mounted	Wall Mounted	Wall Mounted

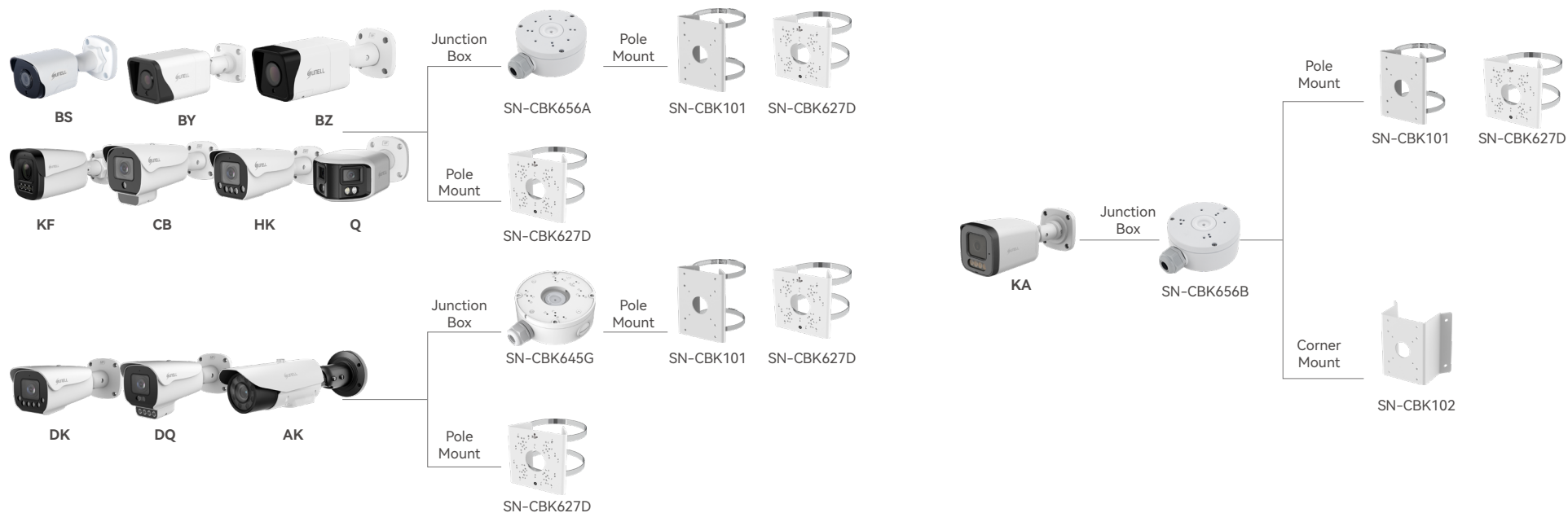
ACCESSORIES



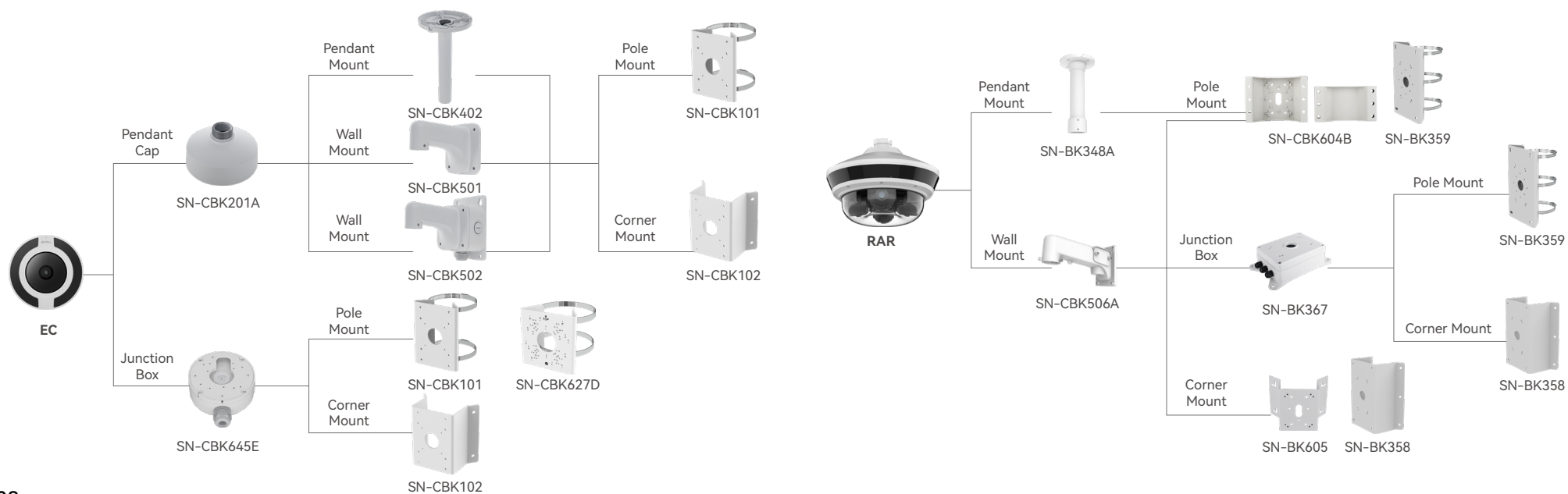
Dome Camera Mount



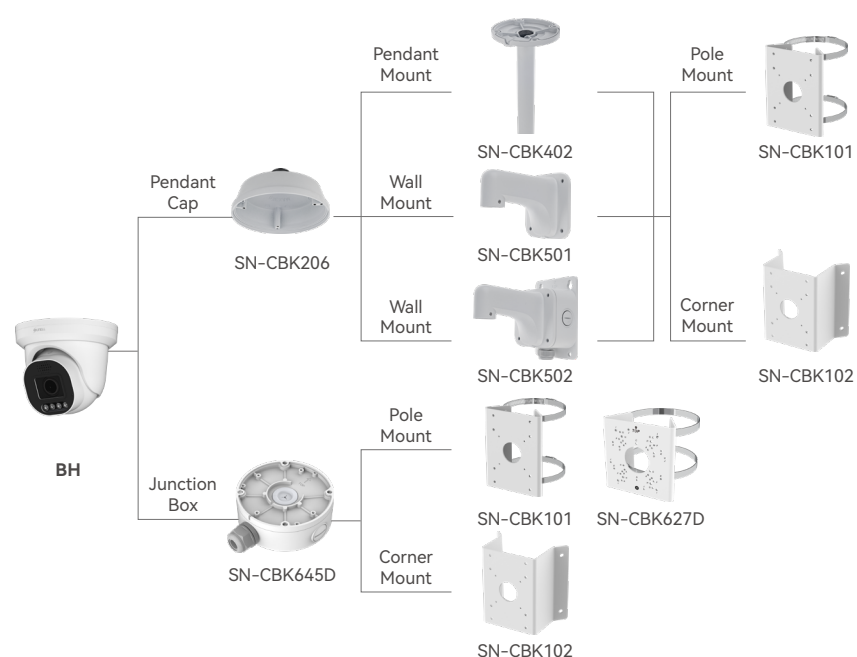
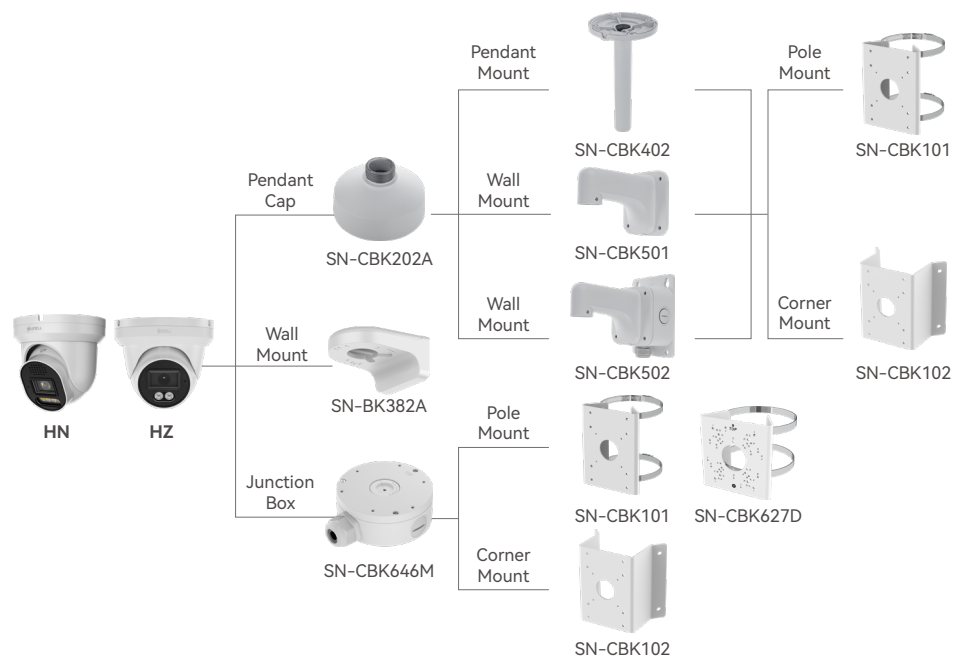
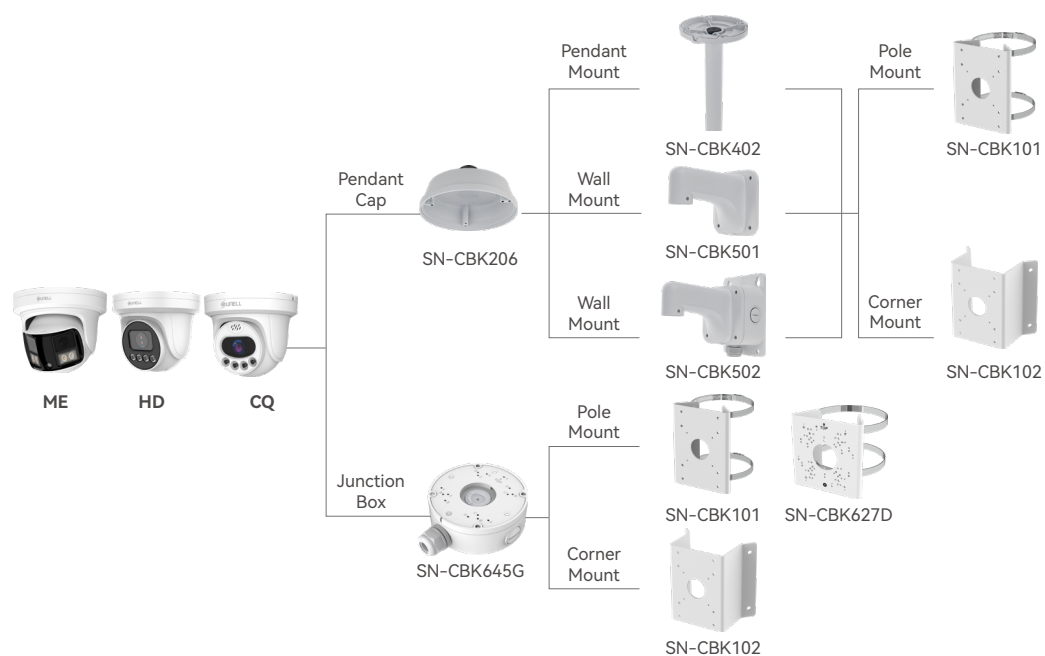
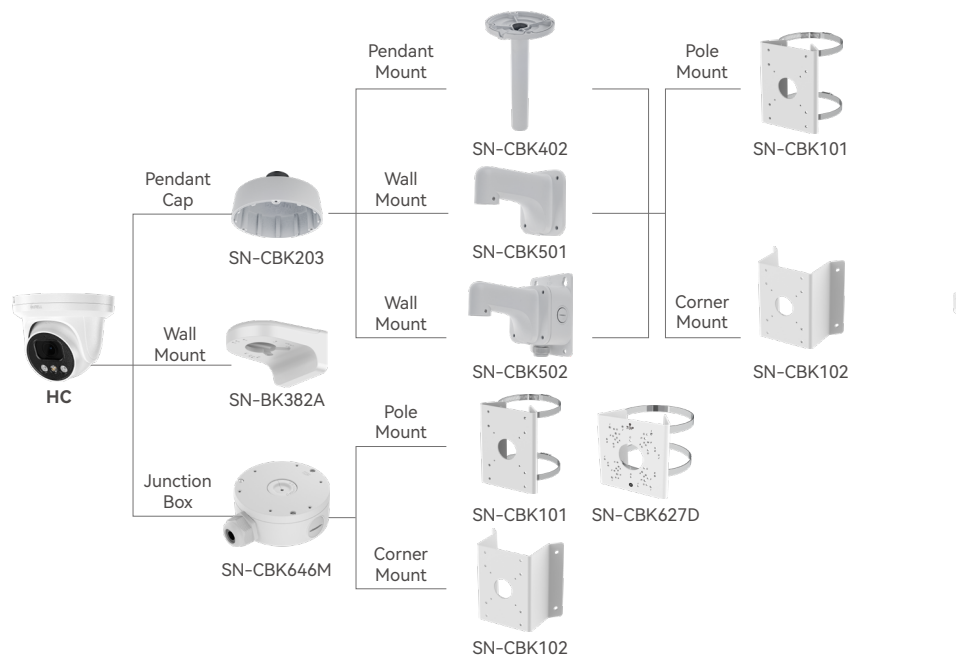
Bullet Camera Mount

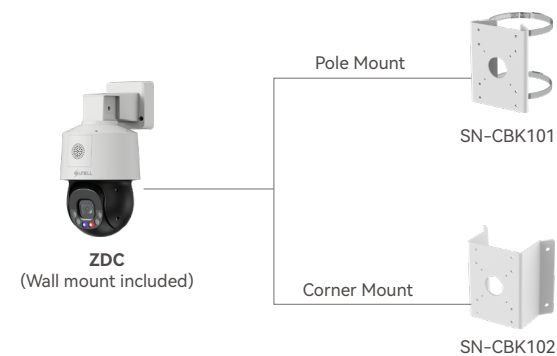
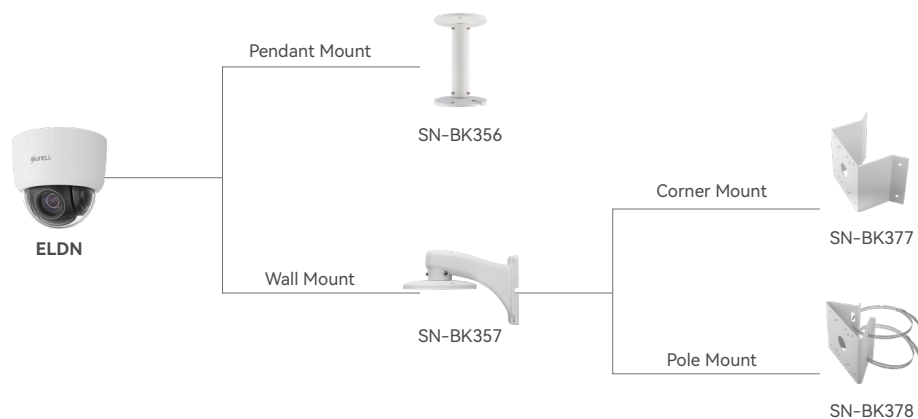
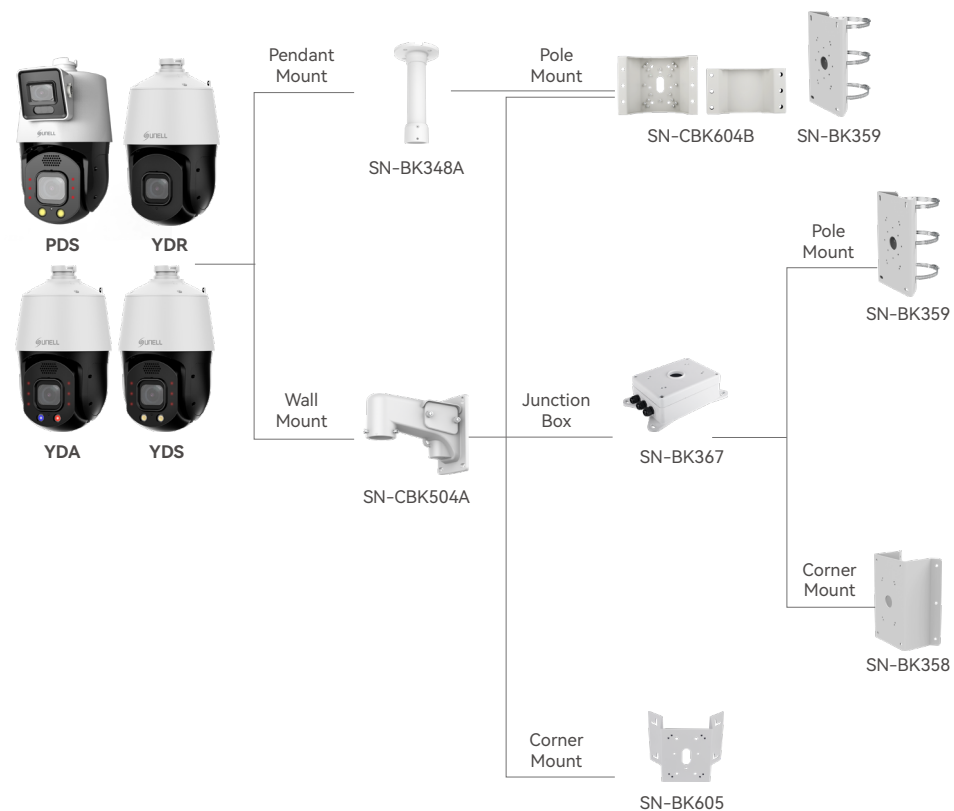
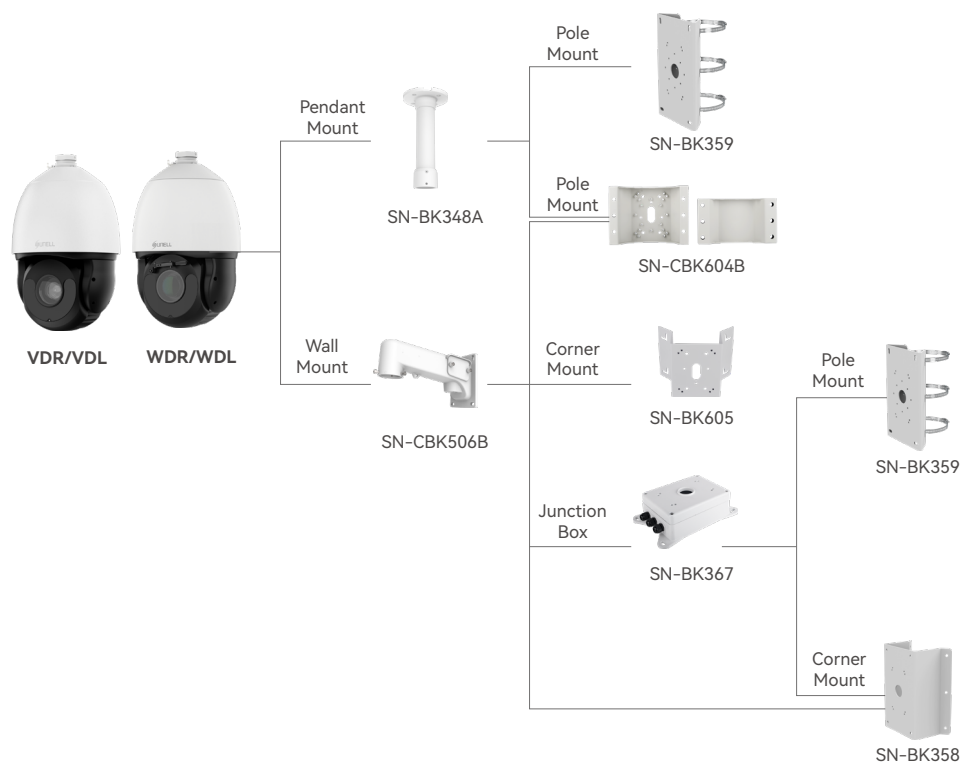


Panoramic Camera Mount

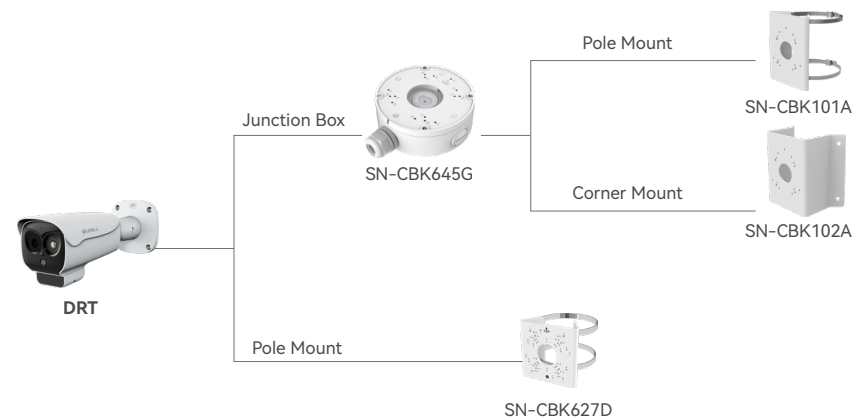
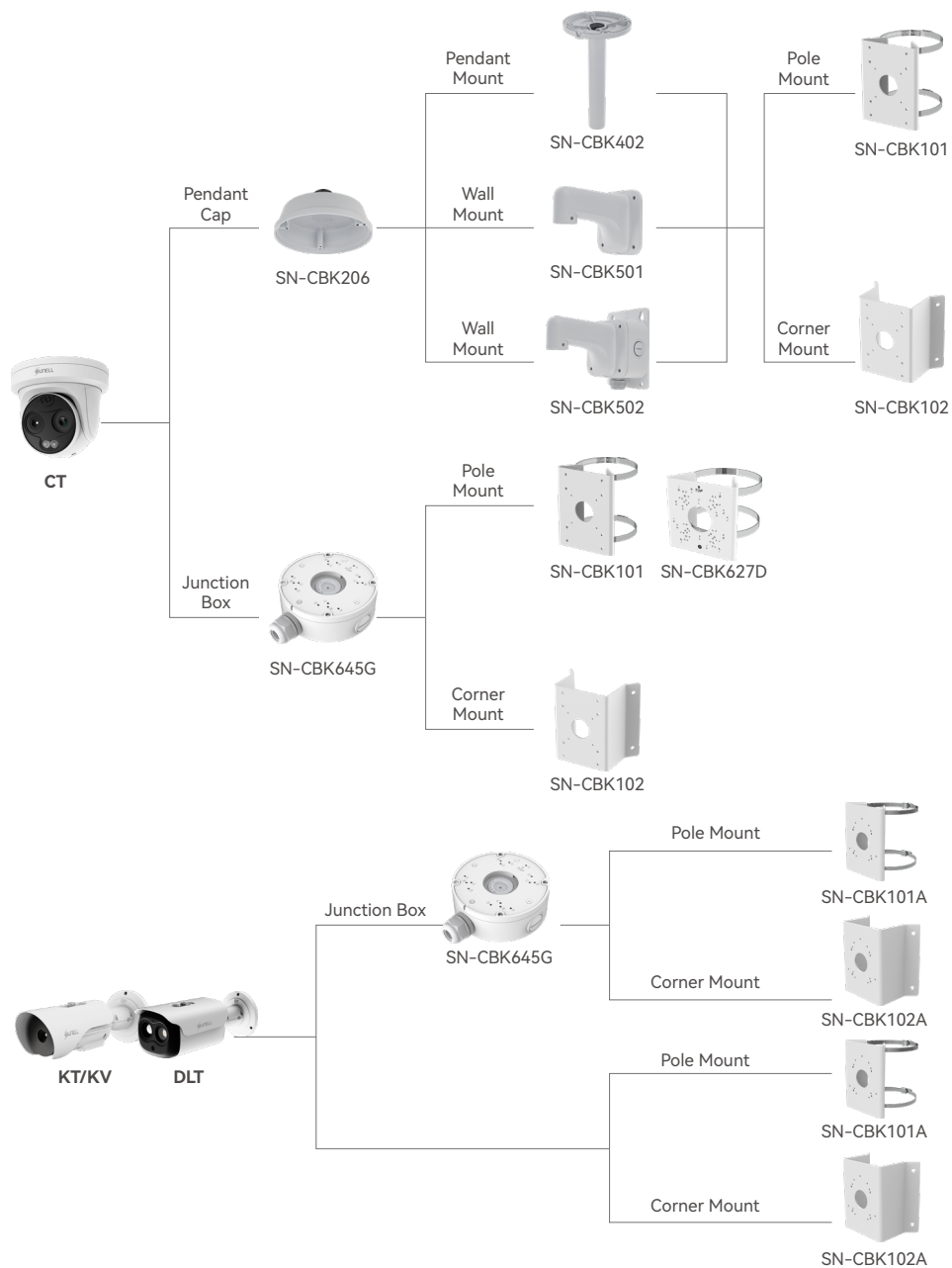


Turret Camera Mount

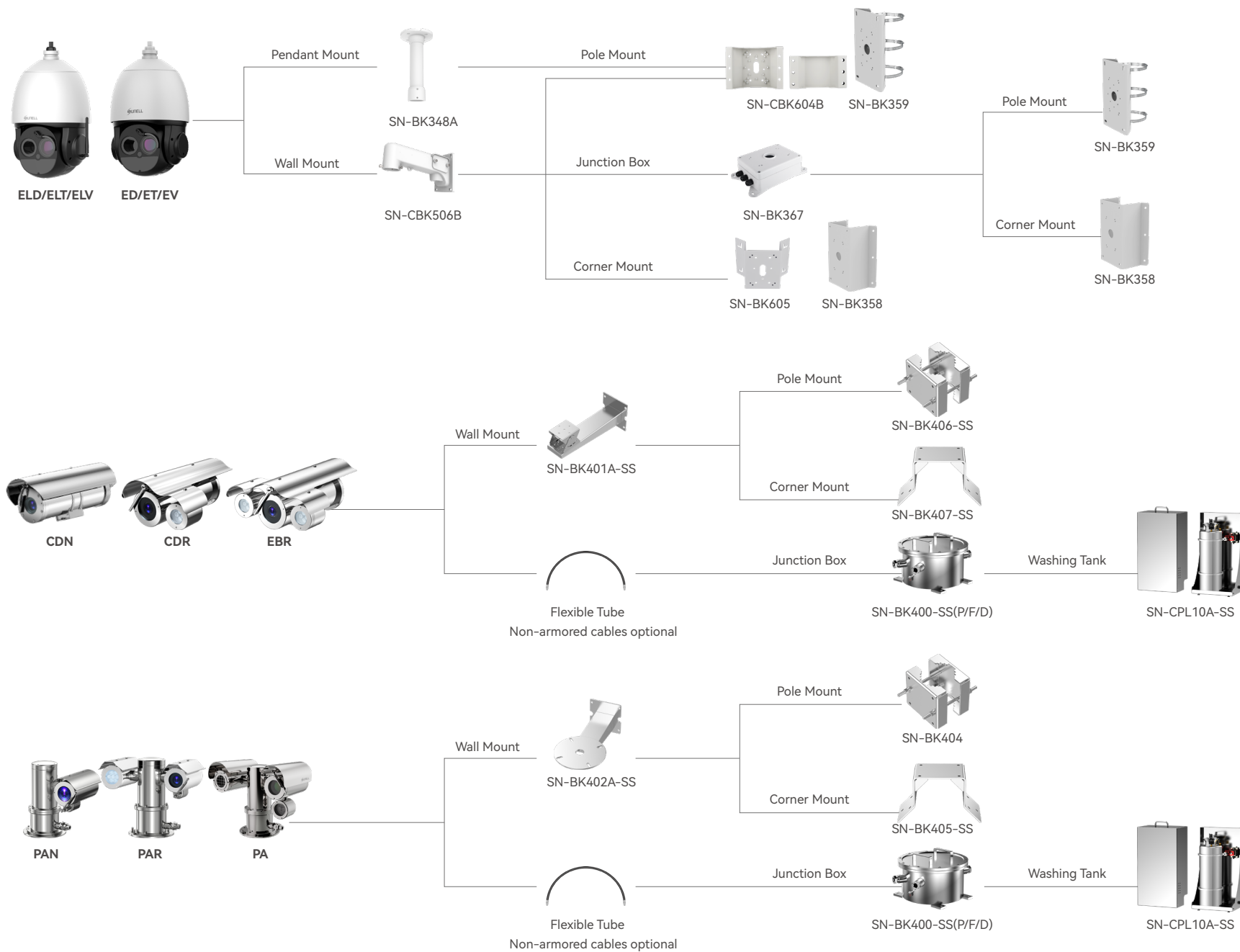




Thermal Camera Mount



Thermal Camera Mount





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