

# SN-IPT8650PAR-Z30

**5MP IR Explosion-proof Network PT Camera** 



#### **Key Features**

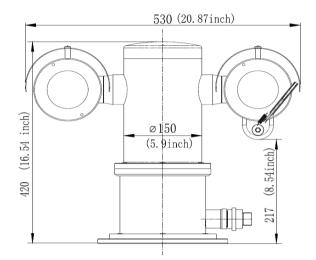
- 1/2.8" progressive scan CMOS
- 30x optical zoom,16x digital zoom
- 5MP(2592×1944) @ 25/30fps
- Support face, human and vehicle detection and capture
- Intelligent analysis: intrusion, single line crossing, double line crossing, loitering, wrong way, people counting
- WDR, 3D DNR, ICR, HLC, BLC, Defog
- IR distance up to 200m
- IP66
- ATEX: II 2 G Ex db op is IIC T6 Gb, Ex II 2 D Ex tb op is IIIC T80°C Db

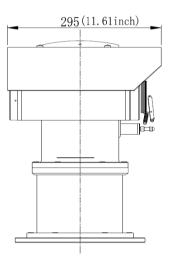
## **Specification**

Camera		
Image Sensor	1/2.8" Progressive Scan CMOS	
Max. Resolution		
Electronic Shutter	5MP (2592×1944)	
	Auto/Manual, 1/5 ~ 1/20,000s Color: 0.07 Lux @ (F1.6, AGC ON)	
Min. illumination	B/W: 0.02 Lux, 0 Lux with IR on	
Day & Night	IR cut filter	
IR Distance	Up to 200m	
IR On/Off Control	Auto/Manual	
Wiper	Support	
Lens		
Focal Length	5.3 to 159mm	
Max. Aperture	F1.6 to F4.3	
Angle of View	H: 56.62° ~ 2.48°, V: 42.76° ~ 1.91°	
Optical Zoom	30x	
Digital Zoom	16x	
Focus Control	Auto/Manual	
РТΖ		
Pan/Tilt Range	Pan: 0° ~ 360° endless, Tilt: -90° ~ +90°	
Pan Speed	Pan: 0.1° ~ 30°/s, Pan preset speed: 30°/s	
Tilt Speed	Tilt: 0.1° ~ 20°/s, Tilt preset speed: 30°/s	
Proportional Zoom	Support	
Presets	400	
Scan	Support	
Tour	Support	
3D Positioning	Support	
Power-Off Memory	Support	
PTZ Status Display	Support	
Video and Audio		
Streaming Capability	3 Streams	
Stream/Frame Rate	Stream1: 2592×1944, 2560×1520, 1920×1080, 1280×720 @ 25/30fps Stream2: D1, VGA, CIF @ 25/30fps Stream3: VGA, CIF, QVGA @ 25/30fps	
Bit Rate Control	CBR/VBR	
Bit Rate	Stream1: 200kbps~12Mbps Stream2: 100kbps~6Mbps Stream3: 100kbps~3Mbps	
Smart Encoder	Support	
Region of Interest	Off/On (8 Zone, Rectangle)	
Audio Compression	G.711: 8kbps	
Image		
Image Adjustment	Brightness, Sharpness, Contrast, Saturation adjustable	
Mirror	Support	

LanguageRussian, French, Czech, Hungarian. Default: EnglishInterfaceNetwork Interface1 x RJ-45, 10/100 Mbps self-adaptive Ethernet portAudio Interface1ch Input, 1ch OutputAlarm Interface5ch Input, 1ch OutputAlarm Interface5ch Input, 1ch OutputRS485SupportCVBS InterfaceSupportSD Card SlotBuilt-in, up to 256GBReset ButtonSupportElectricalElectricalPower ConsumptionLess than 75 WOperating Temperature-40°C ~ 60°C (-40°F ~ 140 °F)Operating HumidityLess than 90% RHIngress ProtectionIP66CertificationsATEX: Ex II 2G Ex db op is IIC T6 Gb /Ex 2D tb op is IIIC T80°C Db,			
Smart IRSupportSmart IRSupportNoise Reduction2D/3D DNRImage EnhancementHLC, BLC, DefogWide Dynamic RangeTrue WDRPrivacy MaskingSupportSmart FunctionSupports face, human, vehicle detection and captureMulti-ObjectSupports face, human, vehicle detection and captureIntelligent AnalysisIntrusion, Single line crossing, Double line crossing, Unitering, Wrong way, People counting Support alarm triggering by specified target types (human and vehicle)NetworkIPV4, IPV6, TCP / IP, HTTP, HTTPS, UPDP, NTSP, DNS, DDNS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, TLSInterface ProtocolONVIF, SDK, CGIMax. User Access10 UsersLanguageEnglish, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Caech, Hungarian. Default: English Chinese, Colesh, Halian, Portuguese, Spanish, Russian, French, Caech, Hungarian. Default: English Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Caech, Hungarian. Default: English Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Caech, Hungarian. Default: English Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Caech, Hungarian, Default: English Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Caech, Hungarian, Default: English Russian, French, Caech, Hu	White Balance	Auto/Manual	
Noise Reduction2D/3D DNRImage EnhancementHLC, BLC, DefogWide Dynamic RangeTrue WDRPrivacy MaskingSupportSmart FunctionSupports face, human, vehicle detection and captureMuli-ObjectSupports face, human, vehicle detection and captureIntrusion, Single line crossing, Double line crossing, Unitering, Wrong way, People countingNotexorkProtocolsProtocolsIPV4, IPV6, TCP / IP, HTTP, HTTPS, UPNP, RTSP / RTP / RTCP, IGMP / Multicast, SMTP, DHCP, MTP, NTSP / ISInterface ProtocolONVIF, SDK, CGIMax. User Access10 UsersWeb Viewer <le>clinglish, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: EnglishAudio Interface1 x RJ-45, 10/100 Mbps self-adaptive Ethernet portAduidi InterfaceSupportSupportSupportAudio InterfaceSupportSupportSupportProtocolsJ x RJ-45, 10/100 Mbps self-adaptive Ethernet portAudio InterfaceSupportSupportSupportAudio InterfaceSupportSupportSupportCVBS InterfaceSupportSD Card SlotBuilt-in, up to 256GBReset ButtonLess than 75 WOperating-40°C - 60°C (-40°F - 140 °F)Premperature-40°C - 60°C (-40°F - 140 °F)Operating HumidityLess than 90% RHIngrass ProtectionIP66CertificationsIP66</le>	Day/Night Setting	Auto, Day, Night, Time	
InterfaceHLC, BLC, DefogImage EnhancementHLC, BLC, DefogWide Dynamic RangeTrue WDRPrivacy MaskingSupportSmart FunctionSupports face, human, vehicle detection and captureMulti-ObjectSupports face, human, vehicle detection and captureIntelligent AnalysisSupports face, human, vehicle detection and captureNetworkIntrusion, Single line crossing, Double line crossing, Unitering, Wrong way, People counting Support alarm triggering by specified target types (human and vehicle)NetworkIPv4, IPv6, TCP / IP, HTTP, HTTPS, UDPP, RTSP / TTP / RTCP, IGMP / Multicast, SMTP, DHCP, NTP, DNS, DDNS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, TLSInterface ProtocolONVIF, SDK, CGIMax. User Access10 UsersVeb Viewer <ie11, chrome,="" edge<="" firefox,="" microsoft="" td="">LanguageEnglish, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: English Nasian, French, Czech, Hungarian. Default: EnglishAudio Interface1 x RJ-45, 10/100 Mbps self-adaptive Ethernet portAudio InterfaceSupportSupportSupportCVBS InterfaceSupportSupportSupportSupportSupportProver ConsumptionLess than 75 WOperating Temperature40°C - 60°C (-40°F - 140°F)Operating HumidityLess than 90% RHIngress ProtectionIP66CertificationsIP66</ie11,>	Smart IR	Support	
Wide Dynamic RangeTrue WDRPrivacy MaskingSupportSmart FunctionSupports face, human, vehicle detection and captureMulti-ObjectSupports face, human, vehicle detection and captureDetectionIntrusion, Single line crossing, Double line crossing, Loitering, Wrong way, People counting Support alarm triggering by specified target types (human and vehicle)NetworkPv4, IPv6, TCP / IP, HTTP, HTTPS, UPnP, RTSP / RTP / RTCP, IGMP / Multicast, SMTP, DHCP, NTP, DNS, DDNS, QS, SNMP, 802.1X, UDP, ICMP, ARP, TLSInterface ProtocolONVIF, SDK, CGIMax. User Access10 UsersVeb Viewer <ei11, chrome,="" edge<="" firefox,="" microsoft="" td="">LanguageRussian, French, Czech, Hungarian. Default: English Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: EnglishAudio Interface1 x RJ-45, 10/100 Mbps self-adaptive Ethernet portAudio InterfaceSupportSupportSupportCVBS InterfaceSupportSupportSupportSD Card StotBuilt-in, up to 256GBReset ButtonSupportPower ConsumptionLess than 75 WOperating Temperature-40°C - 60°C (-40°F - 140 °F)Operating HumidityLess than 90% RHIngress ProtectionIP66ATEX: Ex II 2G Ex db op is IIC T6 Gb /Ex 2D tho pis IIC T8 GC Db,</ei11,>	Noise Reduction	2D/3D DNR	
Privacy MaskingSupportSmart FunctionSmart AlarmMotion detection, Disk alarm, Event alarmMulti-ObjectSupports face, human, vehicle detection and captureIntelligent AnalysisIntrusion, Single line crossing, Double line crossing, Loitering, Wrong way, People counting Support alarm triggering by specified target types (human and vehicle)NetworkIPv4, IPv6, TCP / IP, HTTP, HTTPS, UPnP, RTSP / RTP / RTCP, IGMP / Multicast, SMTP, DHCP, NTP, DNS, DDNS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, TLSInterface ProtocolONVIF, SDK, CGIMax. User Access10 UsersWeb Viewer <ie11, chrome,="" edge<="" firefox,="" microsoft="" td="">LanguageEnglish, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: EnglishNetwork Interface1 × RJ-45, 10/100 Mbps self-adaptive Ethernet portAudio Interface5ch Input, 1ch OutputAlarm InterfaceSupportSD Card SlotBuilt-in, up to 256GBReset ButtonSupportPower ConsumptionLess than 75 WOperating HumidityLess than 90% RHIngress ProtectionIP66Alter St. Ex II 2G Ex db op is IIC T6 Gb /Ex 2D tb op is</ie11,>	Image Enhancement	HLC, BLC, Defog	
Smart FunctionSmart AlarmMotion detection, Disk alarm, Event alarmMulti-ObjectSupports face, human, vehicle detection and captureDetectionIntrusion, Single line crossing, Double line crossing, Loitering, Wrong way, People counting Support alarm triggering by specified target types (human and vehicle)NetworkIPv4, IPv6, TCP / IP, HTTP, HTTPS, UPnP, RTSP / RTP / RTCP, IGMP / Multicast, SMTP, DHCP, NTP, DNS, DDNS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, TLSInterface ProtocolONVIF, SDK, CGIMax. User Access10 UsersWeb Viewer <ie11, chrome,="" edge<="" firefox,="" microsoft="" th="">LanguageEnglish, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: EnglishInterface1 x RJ-45, 10/100 Mbps self-adaptive Ethernet portAudio Interface1 sch Input, 1ch OutputAlarm InterfaceSch Input, 1ch OutputRS485SupportSD Card SlotBuilt-in, up to 256GBReset ButtonSupportOperating Temperature40°C - 60°C (-40°F - 140 °F)Operating HumidityLess than 75 WOperating HumidityLess than 90%, RHIngress ProtectionIP66AITE: Ex II 2G Ex db op is IIC T6 Gb /Ex 2D tb op is</ie11,>	Wide Dynamic Range	True WDR	
Smart Alarm   Motion detection, Disk alarm, Event alarm     Multi-Object   Supports face, human, vehicle detection and capture     Intelligent Analysis   Intrusion, Single line crossing, Double line crossing, Loitering, Wrong way, People counting Support alarm triggering by specified target types (human and vehicle)     Network   IPV4, IPV6, TCP / IP, HTTP, HTTPS, UPnP, RTSP / RTP / RTCP, IGMP / Multicast, SMTP, DHCP, NTP, DNS, DDNS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, TLS     Interface Protocol   ONVIF, SDK, CGI     Max. User Access   10 Users     Web Viewer <ie11, chrome,="" edge<="" firefox,="" microsoft="" td="">     Language   English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: English     Interface   1ch Input, 1ch Output     Alarm Interface   5ch Input, 1ch Output     Rs485   Support     SD Card Slot   Built-in, up to 256GB     Reset Button   Support     Power Consumption   Less than 75 W     Operating   -40°C - 60°C (-40°F - 140 °F)     Operating Humidity   Less than 90% RH     Ingress Protection   IP66     ATEX: Ex II 2G Ex db op is IIC T6 Gb /Ex 2D tb op is IIC T6 Gb /Ex 2</ie11,>	Privacy Masking	Support	
Multi-Object DetectionSupports face, human, vehicle detection and captureMulti-Object DetectionIntrusion, Single line crossing, Double line crossing, Loitering, Wrong way, People counting Support alarm triggering by specified target types (human and vehicle)NetworkInterfaceProtocolsIPV4, IPV6, TCP / IP, HTTP, HTTPS, UPNP, RTSP / RTP / RTCP, IGMP / Multicast, SMTP, DHCP, NTP, DNS, DDNS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, TLSInterface ProtocolONVIF, SDK, CGIMax. User Access10 UsersWeb Viewer <ie11, chrome,="" edge<="" firefox,="" microsoft="" td="">LanguageEnglish, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: EnglishInterface1ch Input, 1ch OutputAudio Interface1ch Input, 1ch OutputAudio InterfaceSupportSD Card SlotBuilt-in, up to 256GBReset ButtonSupportPower SupplyAC100-240VPower ConsumptionLess than 75 WOperating Temperature-40°C ~ 60°C (-40°F - 140 °F)Operating HumidityLess than 90% RHIngress ProtectionIP66ATEX: Ex II 2G Ex db op is IIC T6 Gb /Ex 2D tb op is IIIC T80°C Db,</ie11,>	Smart Function		
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ProtocolsIPv4, IPv6, TCP / IP, HTTP, HTTPS, UPnP, RTSP / RTP / RTCP, IGMP / Multicast, SMTP, DHCP, NTP, DNS, DDNS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, TLSInterface ProtocolONVIF, SDK, CGIMax. User Access10 UsersWeb Viewer <ie11, chrome,="" edge<="" firefox,="" microsoft="" td="">LanguageEnglish, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: EnglishInterface1 x RJ-45, 10/100 Mbps self-adaptive Ethernet portAudio Interface1 ch Input, 1ch OutputAlarm Interface5ch Input, 1ch OutputRS485SupportSD Card SlotBuilt-in, up to 256GBReset ButtonSupportPower SupplyAC100-240VPower ConsumptionLess than 75 WOperating Temperature-40°C ~ 60°C (-40°F ~ 140 °F)Operating HumidityLess than 90% RHIngress ProtectionIP66CertificationsIIIC T80°C Db,</ie11,>	Intelligent Analysis	Loitering, Wrong way, People counting Support alarm triggering by specified target types	
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Max. User Access10 UsersWeb Viewer <ie11, chrome,="" edge<="" firefox,="" microsoft="" td="">LanguageEnglish, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: EnglishInterfaceInterfaceNetwork Interface1 × RJ-45, 10/100 Mbps self-adaptive Ethernet portAudio Interface1 ch Input, 1ch OutputAlarm Interface5ch Input, 1ch OutputRS485SupportCVBS InterfaceSupportSD Card SlotBuilt-in, up to 256GBReset ButtonSupportElectricalPower SupplyAC100-240VPower ConsumptionLess than 75 WOperating Temperature-40°C ~ 60°C (-40°F ~ 140 °F)Operating HumidityLess than 90% RHIngress ProtectionIP66ATEX: Ex II 2G Ex db op is IIC T6 Gb /Ex 2D tb op is IIIC T80°C Db,</ie11,>	Protocols	RTP / RTCP, IGMP / Multicast, SMTP, DHCP, NTP, DNS, DDNS, QoS, SNMP, 802.1X, UDP, ICMP, ARP,	
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LanguageRussian, French, Czech, Hungarian. Default: EnglishInterfaceNetwork Interface1 x RJ-45, 10/100 Mbps self-adaptive Ethernet portAudio Interface1ch Input, 1ch OutputAlarm Interface5ch Input, 1ch OutputAlarm Interface5ch Input, 1ch OutputRS485SupportCVBS InterfaceSupportSD Card SlotBuilt-in, up to 256GBReset ButtonSupportElectricalElectricalPower ConsumptionLess than 75 WOperating Temperature-40°C ~ 60°C (-40°F ~ 140 °F)Operating HumidityLess than 90% RHIngress ProtectionIP66CertificationsATEX: Ex II 2G Ex db op is IIC T6 Gb /Ex 2D tb op is IIIC T80°C Db,	Web Viewer	<ie11, chrome,="" edge<="" firefox,="" microsoft="" td=""></ie11,>	
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Alarm Interface5ch Input, 1ch OutputRS485SupportCVBS InterfaceSupportSD Card SlotBuilt-in, up to 256GBReset ButtonSupportElectricalPower SupplyAC100-240VPower ConsumptionLess than 75 WOperating Temperature-40°C ~ 60°C (-40°F ~ 140 °F)Operating HumidityLess than 90% RHIngress ProtectionIP66CertificationsATEX: Ex II 2G Ex db op is IIC T6 Gb /Ex 2D tb op is IIIC T80°C Db,	Network Interface	1 x RJ-45, 10/100 Mbps self-adaptive Ethernet port	
RS485SupportCVBS InterfaceSupportSD Card SlotBuilt-in, up to 256GBReset ButtonSupportElectricalSupportPower SupplyAC100-240VPower ConsumptionLess than 75 WOperating Temperature-40°C ~ 60°C (-40°F ~ 140 °F)Operating HumidityLess than 90% RHIngress ProtectionIP66CertificationsATEX: Ex II 2G Ex db op is IIC T6 Gb /Ex 2D tb op is IIIC T80°C Db,	Audio Interface	1ch Input, 1ch Output	
CVBS InterfaceSupportSD Card SlotBuilt-in, up to 256GBReset ButtonSupportElectricalElectricalPower SupplyAC100-240VPower ConsumptionLess than 75 WOperating Temperature-40°C ~ 60°C (-40°F ~ 140 °F)Operating HumidityLess than 90% RHIngress ProtectionIP66CertificationsATEX: Ex II 2G Ex db op is IIC T6 Gb /Ex 2D tb op is IIIC T80°C Db,	Alarm Interface	5ch Input, 1ch Output	
SD Card SlotBuilt-in, up to 256GBReset ButtonSupportElectricalElectricalPower SupplyAC100-240VPower ConsumptionLess than 75 WOperating Temperature-40°C ~ 60°C (-40°F ~ 140 °F)Operating HumidityLess than 90% RHIngress ProtectionIP66CertificationsATEX: Ex II 2G Ex db op is IIC T6 Gb /Ex 2D tb op is IIIC T80°C Db,	RS485	Support	
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Electrical   Power Supply AC100~240V   Power Consumption Less than 75 W   Operating Temperature -40°C ~ 60°C (-40°F ~ 140 °F)   Operating Humidity Less than 90% RH   Ingress Protection IP66   Certifications ATEX: Ex II 2G Ex db op is IIC T6 Gb /Ex 2D tb op is IIC T80°C Db,	SD Card Slot	Built-in, up to 256GB	
Power Supply AC100~240V   Power Consumption Less than 75 W   Operating Temperature -40°C ~ 60°C (-40°F ~ 140 °F)   Operating Humidity Less than 90% RH   Ingress Protection IP66   Certifications ATEX: Ex II 2G Ex db op is IIC T6 Gb /Ex 2D tb op is IIIC T80°C Db,	Reset Button	Support	
Power Consumption Less than 75 W   Operating Temperature -40°C ~ 60°C (-40°F ~ 140 °F)   Operating Humidity Less than 90% RH   Ingress Protection IP66   Certifications ATEX: Ex II 2G Ex db op is IIC T6 Gb /Ex 2D tb op is IIIC T80°C Db,	Electrical		
Operating Temperature -40°C ~ 60°C (-40°F ~ 140 °F)   Operating Humidity Less than 90% RH   Ingress Protection IP66   Certifications ATEX: Ex II 2G Ex db op is IIC T6 Gb /Ex 2D tb op is IIIC T80°C Db,	Power Supply	AC100~240V	
Temperature -40°C ~ 60°C (-40°F ~ 140°F)   Operating Humidity Less than 90% RH   Ingress Protection IP66   Certifications ATEX: Ex II 2G Ex db op is IIC T6 Gb /Ex 2D tb op is IIIC T80°C Db,	Power Consumption	Less than 75 W	
Operating Humidity Less than 90% RH   Ingress Protection IP66   Certifications ATEX: Ex II 2G Ex db op is IIC T6 Gb /Ex 2D tb op is IIC T80°C Db,		-40°C ~ 60°C (-40°F ~ 140 °F)	
ATEX: Ex II 2G Ex db op is IIC T6 Gb /Ex 2D tb op is       IIIC T80°C Db,		Less than 90% RH	
Certifications IIIC T80 °C Db,	Ingress Protection	IP66	
	Certifications		
Casing SUS316L	Casing	SUS316L	
Dimensions 530×295×420mm	Dimensions	530×295×420mm	
Net Weight 38 kg	Net Weight	38 kg	

## **Dimensions (mm)**





### Accessories

**Optional:** 



SN-BK402-SS Wall Mount



SN-BK400-SS(P/F/D) Junction Box



SN-CPL10A-SS Washing Tank



Flexible Tube