

SN-IPS8641YDS-Z30

5-inch 4MP Smart Dual Light Network PTZ Camera



Key Features

- 1/1.8" progressive scan CMOS
- 30x optical zoom, 16x digital zoom
- Support face, human and vehicle detection and capture
- Support smoke and fire detection as well as smart motion detection
- Auto tracking and perimeter protection based on deep learning
- Intelligent analysis: intrusion, single line crossing, double line crossing, loitering, wrong-way, illegal parking and people counting
- True WDR, 3D DNR, ICR, Optical Defog and EIS
- Built-in Microphone and Speaker
- Smart Illumination, Up to 250 m IR and 60 m warm light distance
- Built-in SD card slot, up to 256GB
- IP66

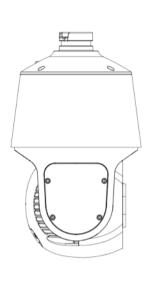
Specification

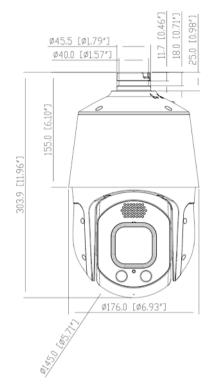
Camera					
Image Sensor	1/1.8" Progressive Scan CMOS				
Max. Resolution	2592(H) × 1520(V)				
Electronic Shutter	Auto/Manual, 1/5 to 1/20	Auto/Manual, 1/5 to 1/20,000s			
Min. illumination	Color: 0.007 Lux @ (F1.6, AGC ON), B/W: 0.002 Lux @ (F1.6, AGC ON), 0 Lux with light				
Day & Night	Auto (ICR)				
Lens					
Focal Length	7 to 210 mm				
Max. Aperture	F1.61 to F5.15				
Angle of View	H: 59.2° to 2.5°, V: 34.6° to 1.4°				
Optical Zoom	30x				
Digital Zoom	16x				
Iris Control	Auto/Manual				
Focus Control	Auto/Manual/Semi-automatic				
DORI Distance					
Lens	Detect	Observe	Recognize	Identify	
7 mm	95 m (311.7 ft)	38 m (136.5 ft)	19 m (62.3 ft)	9.5 m (31.2 ft)	
210 mm	2,240 m (7,349.1 ft)	896 m (2,939.6 ft)	448 m (1,469.8 ft)	224 m (734.9 ft)	
Illuminator					
Illuminator Type	IR, Warm light				
Illumination Distance	IR distance up to 250m (820.21ft) Warm lights distance up to 60m (196.85ft)				
Illuminator On/Off Control	Auto/Manual				
РТZ					
Pan/Tilt Range	Pan: 0° to 360° endless, Tilt: -15° to +90°				
Pan Speed	Pan speed: 0.1° to 180°/s, preset speed: 180°/s				
Tilt Speed	Tilt speed: 0.1° to 90°/s, preset speed: 90°/s				
Presets	400	400			
Patrol Scan	6 Track, 12 Scan, 12 Patro	I (up to 32 presets each patr	rol)		

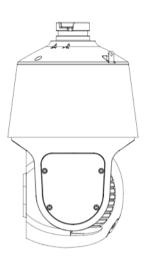
30 PostBoning Support Status Display Support Inte can be set (1-240 minutes), and functions such as preset positions, patrols, scans, and tracks can be run. **Total Motion** **Total Motion** **Total Motion** **Streaming Capability** **Streaming Ca	Power-Off Memory	Support		
PTZ Status Display Support				
Intelligent Analysis of Entire Can be set (1-240 minutes), and functions such as preset positions, patrok, scans, and tracks can be run. The time can be set (1-240 minutes), and functions such as preset positions, patrok, scans, and tracks can be run. The time can be set (1-240 minutes), and functions such as preset positions, patrok, scans, and tracks can be run. The time can be set (1-240 minutes), and functions such as preset positions, patrok, scans, and tracks can be run. The time can be set (1-240 minutes), and functions such as preset positions, patrok, scans, and tracks can be run. The time can be set (1-240 minutes). The time can be stored. The time can be set (1-240 minutes). The time can be set (1-240 minutes). The time can be stored. The time can be store				
Stream/Frame Rate Stream/Frame				
Streaming Capability 3 Streams Streamit 2592×1520, 2304×1296, 1920×1080, 1280×720 @25/30fps Streamit 2592×1520, 2304×1296, 1920×1080, 1280×720 @25/30fps Streamit 2592×1520, 2304×1296, 1920×1080, 1280×720 @25/30fps Bit Rate Control CBR/VBR Streamit 2000kbps to 15Mbps Streamit 2000kbps to 12Mbps Streamit 2000kbps Streamit 2000kbps to 12Mbps Streamit 2000kbps Streamit 2000kbp	Idle Motion			
Stream/Frame Rate Stream/2 Stream/2 D1, VGA, CIF @25/30/fps Stream/2 VGA, CIF, QVGA @25/30/fps Stream/2 VGA, CIF, QVGA @25/30/fps Stream/2 VGA, CIF, QVGA @25/30/fps Stream/2 SOMbps to 12Mbps Smart Encoder Region of Interest (ROI) Support Audio Compression G.711: 64Kbps, RAW_PCM: 128Kbps Sound Warning Sound warning alarm: Customizable voice and alarm sounds Image Image Adjustment Brightness, Sharpness, Contrast, Saturation Mirror Support Exposure Mode Auto/Manual White Balance Auto/Manual White Balance Auto/Manual Day/Night Setting Auto, Day, Night, Time Noise Reduction 2D/3D DNR Image Enhancement HLC, BLC, Defog, EIS Wide Dynamic Range True WDR S/N Ratio S5dB Motion Detection Support Privacy Masking Support 40 zones, mask color configurable Smart Function Multi-Object Detection Support face, human, vehicle detection and capture Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection Intelligent Analysis	Video			
Stream/Frame Rate Stream/Frame Rate Stream/Frame Rate Stream/Frame Rate Stream/Frame Rate CER/VBR Bit Rate Control CER/VBR Stream/Frame Rate Stream/Frace, human, wehicle detection and capture Intelligent Analysis Intelligent Analysis	Streaming Capability			
Stream:: 500kbps to 16Mbps Stream:: 200kbps to 12Mbps Stream:: 200kbps to 12Mbps Stream:: 200kbps to 12Mbps Smart Encoder Support Region of Interest (ROI) Support Audio Compression G.711: 64Kbps, RAW_PCM: 128Kbps Sound Warning Sound warning alarm: Customizable voice and alarm sounds Image Image Adjustment Brightness, Sharpness, Contrast, Saturation Mirror Support Exposure Mode Auto/Manual White Balance Auto/Manual Day/Night Setting Auto, Day, Night, Time Noise Reduction 2D/3D DNR Image Enhancement HLC, BLC, Defog, EIS Wide Dynamic Range True WDR SyN Ratio S5dB Motion Detection Support Privacy Masking Support 40 zones, mask color configurable Smart Function Intelligent Analysis detection Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection	Stream/Frame Rate	Stream2: D1, VGA, CIF @25/30fps		
Bit Rate Stream2: 200kbps to 12Mbps Smart Encoder Support Region of Interest (ROI) Support Audio Compression G.711: 64Kbps, RAW_PCM: 128Kbps Sound Warning Sound warning alarm: Customizable voice and alarm sounds Image Image Adjustment Brightness, Sharpness, Contrast, Saturation Mirror Support Exposure Mode Auto/Manual White Balance Auto/Manual Day/Night Setting Auto, Day, Night, Time Noise Reduction 2D/3D DNR Image Enhancement HLC, BLC, Defog, EIS Wide Dynamic Range True WDR S/N Ratio 55dB Motion Detection Support 40 zones, mask color configurable Smart Function Support face, human, vehicle detection and capture Intelligent Analysis detection	Bit Rate Control			
Region of Interest (ROI) Support Audio Compression G.711: 64Kbps, RAW_PCM: 128Kbps Sound Warning Sound warning alarm: Customizable voice and alarm sounds Image Image Adjustment Brightness, Sharpness, Contrast, Saturation Mirror Support Exposure Mode Auto/Manual White Balance Auto/Manual Day/Night Setting Auto, Day, Night, Time Noise Reduction 2D/3D DNR Image Enhancement HLC, BLC, Defog. EIS Wide Dynamic Range True WDR S/N Ratio S5dB Motion Detection Support Smart Function Multi-Object Detection Support face, human, vehicle detection and capture Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection Intelligent Analysis	Bit Rate	Stream2: 200kbps to 12Mbps		
Compression G.711: 64Kbps, RAW_PCM: 128Kbps Sound Warning Sound warning alarm: Customizable voice and alarm sounds Image Image Adjustment Brightness, Sharpness, Contrast, Saturation Mirror Support Exposure Mode Auto/Manual White Balance Auto/Manual White Balance Auto/Manual Day/Night Setting Auto, Day, Night, Time Noise Reduction 2D/3D DNR Image Enhancement HLC, BLC, Defog, EIS Wide Dynamic Range True WDR S/N Ratio S5dB Motion Detection Support Privacy Masking Support 40 zones, mask color configurable Smart Function Multi-Object Detection Support face, human, vehicle detection and capture Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection	Smart Encoder	Support		
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Sound Warning Sound warning alarm: Customizable voice and alarm sounds Image Image Adjustment Brightness, Sharpness, Contrast, Saturation Mirror Support Exposure Mode Auto/Manual White Balance Auto/Manual Auto, Day, Night, Time Noise Reduction 2D/3D DNR Image Enhancement HLC, BLC, Defog, EIS Wide Dynamic Range True WDR S/N Ratio S5dB Motion Detection Support Privacy Masking Support 40 zones, mask color configurable Smart Function Multi-Object Detection Support face, human, vehicle detection and capture Intelligent Analysis Intelligent Analysis Sound warning alarm: Customizable voice and alarm sounds Sound warning alarm: Customizable voice and alarm sounds Sound warning alarm: Customizable voice and alarm sounds Support Autority Saturation Multi-Object Detection Sound warning alarm: Customizable voice and alarm sounds Sound warning alarm: Customizable voice and alarm sounds Sounds Sounds Sound warning alarm: Customizable voice and alarm sounds Sounds Autority Saturation Autority Saturation Autority Saturation Autority Saturation Sounds Sounds Autority Saturation Support 40 zones, mask color configurable Smart Function Intelligent Analysis	Audio			
Image Adjustment Brightness, Sharpness, Contrast, Saturation Mirror Support Exposure Mode Auto/Manual White Balance Auto/Manual Auto, Day, Night, Time Noise Reduction 2D/3D DNR Image Enhancement HLC, BLC, Defog, EIS Wide Dynamic Range True WDR S/N Ratio 55dB Motion Detection Support Privacy Masking Support 40 zones, mask color configurable Smart Function Multi-Object Detection Support face, human, vehicle detection and capture Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection	Compression	G.711: 64Kbps, RAW_PCM: 128Kbps		
Image Adjustment Brightness, Sharpness, Contrast, Saturation Mirror Support Exposure Mode Auto/Manual White Balance Auto/Manual Day/Night Setting Auto, Day, Night, Time Noise Reduction 2D/3D DNR Image Enhancement HLC, BLC, Defog, EIS Wide Dynamic Range True WDR S/N Ratio 55dB Motion Detection Support Privacy Masking Support 40 zones, mask color configurable Smart Function Multi-Object Detection Support face, human, vehicle detection and capture Intrusion, Single line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection	Sound Warning	Sound warning alarm: Customizable voice and alarm sounds		
Mirror Support Exposure Mode Auto/Manual White Balance Auto/Manual Day/Night Setting Auto, Day, Night, Time Noise Reduction 2D/3D DNR Image Enhancement HLC, BLC, Defog, EIS Wide Dynamic Range True WDR S/N Ratio 55dB Motion Detection Support Privacy Masking Support 40 zones, mask color configurable Smart Function Multi-Object Detection Support face, human, vehicle detection and capture Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection	Image			
Exposure Mode Auto/Manual White Balance Auto/Manual Day/Night Setting Auto, Day, Night, Time Noise Reduction 2D/3D DNR Image Enhancement HLC, BLC, Defog, EIS Wide Dynamic Range True WDR S/N Ratio 55dB Motion Detection Support Privacy Masking Support 40 zones, mask color configurable Smart Function Multi-Object Detection Support face, human, vehicle detection and capture Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection	Image Adjustment	Brightness, Sharpness, Contrast, Saturation		
White Balance Auto/Manual Day/Night Setting Auto, Day, Night, Time Noise Reduction 2D/3D DNR Image Enhancement HLC, BLC, Defog, EIS Wide Dynamic Range True WDR S/N Ratio 55dB Motion Detection Support Privacy Masking Support 40 zones, mask color configurable Smart Function Multi-Object Detection Support face, human, vehicle detection and capture Intelligent Analysis Intelligent Analysis	Mirror	Support		
Day/Night Setting Auto, Day, Night, Time Noise Reduction 2D/3D DNR Image Enhancement HLC, BLC, Defog, EIS Wide Dynamic Range True WDR S/N Ratio 55dB Motion Detection Support Privacy Masking Support 40 zones, mask color configurable Smart Function Multi-Object Detection Support face, human, vehicle detection and capture Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection	Exposure Mode	Auto/Manual		
Noise Reduction 2D/3D DNR Image Enhancement HLC, BLC, Defog, EIS Wide Dynamic Range True WDR 5/N Ratio 55dB Motion Detection Support Privacy Masking Support 40 zones, mask color configurable Smart Function Multi-Object Detection Support face, human, vehicle detection and capture Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection	White Balance	Auto/Manual		
Image Enhancement HLC, BLC, Defog, EIS Wide Dynamic Range True WDR S/N Ratio 55dB Motion Detection Support Privacy Masking Support 40 zones, mask color configurable Smart Function Multi-Object Detection Support face, human, vehicle detection and capture Intelligent Analysis Intelligent Analysis	Day/Night Setting	Auto, Day, Night, Time		
Wide Dynamic Range True WDR 5/N Ratio 55dB Motion Detection Support Privacy Masking Support 40 zones, mask color configurable Smart Function Multi-Object Detection Support face, human, vehicle detection and capture Intelligent Analysis Intelligent Analysis	Noise Reduction	2D/3D DNR		
S/N Ratio 55dB Motion Detection Support Privacy Masking Support 40 zones, mask color configurable Smart Function Multi-Object Detection Support face, human, vehicle detection and capture Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection	Image Enhancement	HLC, BLC, Defog, EIS		
Motion Detection Support Support 40 zones, mask color configurable Smart Function Multi-Object Detection Support face, human, vehicle detection and capture Intrusion, Single line crossing, Double line crossing, Wrong-way, Illegal parking, Smart motion detection	Wide Dynamic Range	True WDR		
Privacy Masking Support 40 zones, mask color configurable Smart Function Multi-Object Detection Support face, human, vehicle detection and capture Intrusion, Single line crossing, Double line crossing, Wrong-way, Illegal parking, Smart motion detection	S/N Ratio	55dB		
Smart Function Multi-Object Detection Support face, human, vehicle detection and capture Intrusion, Single line crossing, Double line crossing, Wrong-way, Illegal parking, Smart motion detection	Motion Detection	Support		
Multi-Object Detection Support face, human, vehicle detection and capture Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection	Privacy Masking	Support 40 zones, mask color configurable		
Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection	Smart Function			
Intelligent Analysis detection	Multi-Object Detection	Support face, human, vehicle detection and capture		
	Intelligent Analysis	detection		

Smoke and Fire Detection	Support
People Counting	Support
Smart Tracking	Support
Network	
Protocols	IPv4, IPv6, TCP/IP, HTTP, HTTPS, RTSP/RTP/RTCP, IGMP/Multicast, SMTP, DHCP, NTP, DNS, DDNS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, TLS
Interoperability	ONVIF, SDK, CGI
Streaming Method	Multicast
Max. User Access	10 Users
Web Viewer	<ie11, chrome,="" edge<="" firefox,="" microsoft="" td=""></ie11,>
Language	English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: English
Interface	
Network Interface	1 Ethernet (10/100 Base-T) RJ-45 Connector
Built-in Microphone	Support
Built-in Speaker	Support
Audio Interface	1ch Input, 1ch Output
Alarm Interface	2ch Input, 2ch Output
Reset Button	Support
SD Card Slot	Built-in, up to 256GB
Electrical	
Power Supply	24VAC/36VDC/PoE+ (IEEE 802.3at), Standard Equipped: 36VDC
Power Consumption	Less than 25 W (illuminator + speaker + PTZ working + glass defogging)
Operating Temperature	-40°C to 60°C (-40°F to 140 °F)
Operating Humidity	Less than 90% RH
Ingress Protection	IP66
Certifications	CE/FCC
Casing	Metal
Dimensions	φ176.0 × 303.9 mm (φ6.93 × 11.96 inch)
Net Weight	4 Kg (8.82 lb)

Dimensions (mm)







Accessories

Optional:



SN-CBK504A Wall Bracket



SN-BK367 Junction Box



SN-BK348A Ceiling Bracket



SN-BK359 Pole Mount



SN-BK605 Corner Mount



SN-BK358 Corner Mount



SN-BK604B Pole Mount