

SN-IPR57/04ALDN/Z

4MP Motorized Network IR Eyeball



- 1/3" Progressive Scan CMOS
- Motorized lens 2.7~13.5mm
- 25fps/30fps@4MP(2592*1520)
- Triple Streams
- Smart IR Up to 30m
- Low bitrate ,Excellent low light performance
- WDR.3D DNR
- ROI, Defog, HLC, Corridor mode, DIS
- IP66

System Overview

Eco series products by upgrading H.265 encoding technology, bringing high efficient video compression. It saves bandwidth and storage, energy-saving design to enhance the monitoring system. Meanwhile, the series offers features such as Smart IR technology, intelligent image analysis techniques. It provides excellent image quality and intelligent and efficient event reminders. This series provides IP66 weatherproof and IK10 vandal-proof protection feature.

Functions

Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, true WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Intelligent Video System (IVS)

With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides optional standard intelligence at the edge allowing detection of Perimeter, Single Virtual Fences, Double Virtual Fences, Loiter, Multi Loiter, Object Left, Object Removed, Abnormal Speed, Converse, Illegal Parking, Signal Bad.

Environmental

With a temperature range of -30 °C to +50 °C (-22 °F to +122 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

Smart Encode (H.265+)

Deliver high quality video without straining the network, Smart Encode H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265.

HEVC (H.265)

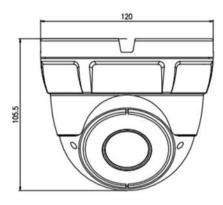
H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264, some retain the original technology, while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream, encoding quality, and the delay between algorithm complexity, optimize settings specific contents include: Improve compression efficiency, improve the robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay, reduce complexity.

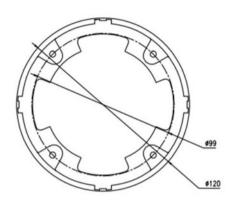
Technical Specification

Image Sensor 1/3" Progressive Scan CMOS Effective Pixels 2592(H)x1520(V) Scanning System Progressive Electronic Shutter 1/5-1/20000s Min. illumination Color:0.05Lux@ (F1.2,AGC ON) S/N Ratio 55dB IR Range Up to 30m IR Cn/Off Control Auto/ Manual IR LEDs 4pcs Pan:0"-360", Tilt:0"-90", Rotation:0"-360" Lens Fixed Iris Foxal Length 2.7-13.5mm F Number F1.3 (W) ~ F2.3 (T) Angle of View 100.7"~ 28.2" Focus Control Motorized Close Focus Distance 0.2m Video Video Compression H.265,H.264,MJPEG Max. Resolution 4MP(2592x1520) Stream 1920x1080/1280x720 @25/30fps Stream / 1920x1080/1280x720 @25/30fps Frame Rate Stream: 1:2592x1520/2560x1440/2304x1296/1920x120x120x120x120x120x120x120x120x120x1	Camera	
Scanning System Progressive	Image Sensor	1/3" Progressive Scan CMOS
Electronic Shutter	Effective Pixels	2592(H)×1520(V)
Min. illumination Color:0.05Lux@(F1:2,AGC ON) BW:0Lux@(IR LED ON) S/N Ratio 55dB IR Range Up to 30m IR On/Off Control Auto/ Manual IR LEDs 4pcs Pan/Titl/Rotation Range Pan:0'~360', Tilt:0'~90', Rotation:0'~360' Lens Lens Lens Type Motorized Iris Fixed Iris Focal Length 2.7~13.5mm F Number F1.3 (W) ~ F2.3 (T) Angle of View 100.7°~ 28.2° Focus Control Motorized Close Focus Distance 0.2m Video Video Compression H.265,H.264,MJPEG Max. Resolution 4MP(2592×1520) Streaming apability 3 Streams Streaming Stream2: D1/VGA/640x360/C1F/QVGA @25/30fps Stream / Frame Rate Stream1: 500kbps-1200kbps Stream3: 100kbps-3000kbps Bit Rate Stream1: 500kbps-12000kbps Stream3: 100kbps-3000kbps Bit Rate Support Gain Control Auto/Manual Noise Reduction 2D/3D DNR Electronic Image Stab	Scanning System	Progressive
S/N Ratio 55dB IR Range Up to 30m IR On/Off Control Auto/ Manual IR LEDs 4pcs Pan/Tit/Rotation Range Pan:0'~360', Titt:0'~90', Rotation:0'~360' Lens Lens Lens Type Motorized Iris Fixed Iris Focal Length 2.7~13.5mm F Number F1.3 (W) ~ F2.3 (T) Angle of View 100.7°~28.2° Focus Control Motorized Close Focus Distance 0.2m Video Video Compression H.265,H.264,MJPEG Max. Resolution 4MP(2592×1520) Streaming Capability 3 Streams Stream / 1920x1080/1280x720 @25/30fps Stream / 1920x1080/1280x720 @25/30fps Stream / 1920x1080/1280x720 @25/30fps Stream / 1920x1080/1280x720 @25/30fps Bit Rate Control CBR/VBR Bit Rate Control CBR/VBR Bit Rate Control CBR/VBR Bit Rate Stream: 100kbps-3000kbps Stream: 100kbps-3000kbps Stream: 100kbps-3000kbps Stream: 100kbps-3000kbps	Electronic Shutter	1/5-1/20000s
IR Range	Min. illumination	
IR On/Off Control Auto/ Manual IR LEDs 4pcs Pan/Titt/Rotation Range Pan:0'~360', Titt:0'~90', Rotation:0'~360' Lens Lens Type Motorized Iris Fixed Iris Focal Length 2.7~13.5mm F Number F1.3 (W) ~ F2.3 (T) Angle of View 100.7°~28.2° Focus Control Motorized Close Focus Distance Video Compression H.265,H.264,MJPEG Max. Resolution 4MP(2592×1520) Streaming Capability 3 Streams Stream / Stream? Strea	S/N Ratio	55dB
R LEDs	IR Range	Up to 30m
Pan/Tilt/Rotation Range Pan:0'-360', Tilt:0'-90', Rotation:0'-360' Lens Lens Type Motorized Iris Fixed Iris Focal Length 2.7-13.5mm F Number F1.3 (W) ~ F2.3 (T) Angle of View 100.7°- 28.2° Focus Control Motorized Close Focus Distance 0.2m Video Compression H.265,H.264,MJPEG Max. Resolution 4MP(2592×1520) Streaming Capability 3 Streams Capability 3 Streams Stream? 1920×1080/1280×720 @25/30fps Frame Rate Stream2: 101/KGA/GAV360/CIF/QVGA @25/30fps Stream3: 101/KGA/GAV360/CIF/QVGA @25/30fps Bit Rate Control CBR/VBR Bit Rate Stream2: 100kbps-12000kbps Stream3: 100kbps-12000kbps Stream3: 100kbps-3000kbps Day/Night ICR Image Enhancement HLC / Defog / WDR (120dB) White Balance Support Electronic Image Stabilization(EIS) Smart IR Support	IR On/Off Control	Auto/ Manual
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Lens Type Motorized Iris Fixed Iris Focal Length 2.7~13.5mm F Number F1.3 (W) ~ F2.3 (T) Angle of View 100.7°~ 28.2° Focus Control Motorized Close Focus Distance 0.2m Video Compression H.265,H.264,MJPEG Max. Resolution 4MP(2592×1520) Streaming Capability 3 Streams Capability 3 Streams Stream / Stream1: 2592×1520/2560×1440/2304×1296/1920×1080/1280×720 @25/30fps Stream 2: D1/NGA/640×360/CIF/QVGA @25/30fps Stream3: VGA/CIF/QVGA @25/30fps Bit Rate Control CBR/VBR Bit Rate Stream1: 500kbps~12000kbps Stream2: 100kbps~6000kbps Stream3: 100kbps~3000kbps Stream3: 100kbps~3000kbps Stream3: 100kbps~3000kbps Stream3: VGA/CIF/QVGA @25/30fps Stream3: 100kbps~3000kbps		Pan:0°~360°, Tilt:0°~90°, Rotation:0°~360°
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Angle of View 100.7°~ 28.2° Focus Control Motorized 0.2m Close Focus Distance 0.2m Video Compression H.265,H.264,MJPEG Max. Resolution 4MP(2592×1520) Streaming Capability 3 Streams Capability 3 Streams Stream? Stream1: 2592×1520/2560×1440/2304×1296/1920×1080/1280×720 @25/30fps Stream2: D1/VGA/640×360/CIF/QVGA @25/30fps Stream2: D1/VGA/640×360/CIF/QVGA @25/30fps Bit Rate Control CBR/VBR Bit Rate Stream1: 500kbps~12000kbps Stream2: 100kbps~12000kbps Stream3: 100kbps~3000kbps Stream3: 100kbps~3000kbps Day/Night ICR Image Enhancement HLC / Defog / WDR (120dB) White Balance Support Gain Control Auto/Manual Noise Reduction 2D/3D DNR Electronic Image Stabilization(EIS) Support	Focal Length	2.7~13.5mm
Focus Control Motorized Close Focus Distance Video Compression H.265,H.264,MJPEG Max. Resolution 4MP(2592×1520) Streaming Capability 3 Streams Stream1: 2592×1520/2560×1440/2304×1296/1920×1080/1280×720 @25/30fps Stream2: D1/VGA/640×360/CIF/QVGA @25/30fps Stream3: VGA/CIF/QVGA @25/30fps Bit Rate Control CBR/VBR Bit Rate Stream2: 100kbps~12000kbps Stream3: 100kbps~3000kbps Stream3: 100kbps~3000kbps Stream3: 100kbps~3000kbps Stream3: 400kbps~3000kbps Stream3: 400kbps~3000kbps Stream3: 500kbps~3000kbps Stream3: 100kbps~3000kbps Stream3: 100kbps~3000kbps Stream3: 100kbps~3000kbps Stream3: 500kbps~3000kbps Stream3: 100kbps~3000kbps Stream3: 100kbps~3000kbps Stream3: 500kbps~3000kbps Stream3: 100kbps~3000kbps Stream3: 100kbps~3000kbps Stream3: 500kbps~3000kbps Stream3: 500kbps~3000kbps Stream3: 100kbps~3000kbps Stream3: 100kbps~3000kbps Stream3: 500kbps~3000kbps Stream3: 500kb	F Number	F1.3 (W) ~ F2.3 (T)
Close Focus Distance Video Compression H.265,H.264,MJPEG Max. Resolution 4MP(2592×1520) Streaming Capability 3 Streams Stream1: 2592×1520/2560×1440/2304×1296/1920×1080/1280×720 @25/30fps Stream2: D1/VGA/640×360/CIF/QVGA @25/30fps Stream3: VGA/CIF/QVGA @25/30fps Bit Rate Control CBR/VBR Stream1: 500kbps~12000kbps Stream2: 100kbps~6000kbps Stream3: 100kbps~3000kbps	Angle of View	100.7°~ 28.2°
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Streaming Capability Stream1: 2592x1520/2560x1440/2304x1296/ 1920x1080/1280x720 @25/30fps Stream2: D1/VGA/640x360/CIF/QVGA @25/30fps Stream3: VGA/CIF/QVGA @25/30fps Bit Rate Control CBR/VBR Stream1: 500kbps-12000kbps Stream2: 100kbps-6000kbps Stream3: 100kbps-3000kbps Stream3: 100kbps-3000kbps Day/Night ICR Image Enhancement HLC / Defog / WDR (120dB) White Balance Support Gain Control Auto/Manual Noise Reduction 2D/3D DNR Electronic Image Stabilization(EIS) Smart IR Support	Compression	H.265,H.264,MJPEG
Capability 3 Siteams Stream / Frame Rate Stream1: 2592×1520/2560×1440/2304×1296/ 1920×1080/1280x720 @ 25/30fps Stream2: D1/VGA/640×360/CIF/QVGA @ 25/30fps Stream3: VGA/CIF/QVGA @ 25/30fps Bit Rate Control CBR/VBR Bit Rate Stream1: 500kbps~12000kbps Stream2: 100kbps~6000kbps Stream3: 100kbps~3000kbps Day/Night ICR Image Enhancement HLC / Defog / WDR (120dB) White Balance Support Gain Control Auto/Manual Noise Reduction 2D/3D DNR Electronic Image Stabilization(EIS) Support Smart IR Support	Max. Resolution	4MP(2592×1520)
Stream / Frame Rate		3 Streams
Bit Rate Stream1: 500kbps-12000kbps Stream2: 100kbps-6000kbps Stream3: 100kbps-3000kbps Day/Night ICR Image Enhancement HLC / Defog / WDR (120dB) White Balance Support Gain Control Auto/Manual Noise Reduction 2D/3D DNR Electronic Image Stabilization(EIS) Smart IR Support		1920×1080/1280×720 @25/30fps Stream2: D1/VGA/640×360/CIF/QVGA @25/30fps
Bit Rate Stream2: 100kbps~6000kbps Stream3: 100kbps~3000kbps Day/Night ICR Image Enhancement HLC / Defog / WDR (120dB) White Balance Support Gain Control Auto/Manual Noise Reduction 2D/3D DNR Electronic Image Stabilization(EIS) Smart IR Support	Bit Rate Control	CBR/VBR
Image Enhancement HLC / Defog / WDR (120dB) White Balance Support Gain Control Auto/Manual Noise Reduction 2D/3D DNR Electronic Image Stabilization(EIS) Smart IR Support	Bit Rate	Stream2: 100kbps~6000kbps
Enhancement HLC / Delog / WDR (1200B) White Balance Support Gain Control Auto/Manual Noise Reduction 2D/3D DNR Electronic Image Stabilization(EIS) Smart IR Support	Day/Night	
Gain Control Auto/Manual Noise Reduction 2D/3D DNR Electronic Image Stabilization(EIS) Smart IR Support		HLC / Defog / WDR (120dB)
Noise Reduction 2D/3D DNR Electronic Image Stabilization(EIS) Support Smart IR Support	White Balance	Support
Electronic Image Stabilization(EIS) Smart IR Support	Gain Control	Auto/Manual
Stabilization(EÏS) Smart IR Support	Noise Reduction	2D/3D DNR
		Support
Mirror Support	Smart IR	Support
	Mirror	Support

Region of Interest	Support	
Motion Detection	Support	
Privacy Masking	Support	
Audio		
Compression	N/A	
Bit Rate	N/A	
Network		
Protocols:	IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/RTP, PPPoE, SMTP, DNS, UPnP, FTP, ARP, SNMP	
Interoperability	ONVIF	
Streaming Method	Unicast	
Max. User Access	10 Users	
Web Viewer	<ie11, chrome,="" firefox<="" td=""></ie11,>	
Management Software	IMS 3.0	
Smart Phone	IOS, Android	
Intelligence		
IVS	Perimeter, Single Virtual Fences, Double Virtual Fences, Loiter, Multi Loiter, Object Left, Object Removed, Abnormal Speed, Converse, Illegal Parking, Signal Bad	
Interface		
Ethernet	1 Ethernet (10/100 Base-T) RJ-45 Connector	
Audio Interface	N/A	
Alarm	N/A	
RS485	N/A	
BNC Output	N/A	
Reset Button	N/A	
Edge Storage	N/A	
Electrical		
Power Supply	DC12V/POE	
Power Consumption	2.5W(IR LED OFF), 5W(IR LED ON)	
Operating Temperature	Starting Temperature: -30°C ~ 50°C (-22°F ~ 122°F) Working Temperature: -30°C ~ 50°C (-22°F ~ 122°F)	
Operating Humidity	Less than 90% RH	
Ingress Protection	IP66	
Certifications	CE / FCC	
Casing	Metal	
Dimensions	Ф120×105.5mm	
Net Weight	650g	

Dimensions(mm)





Accessories

Optional:



SN-CBK633 Junction Box



SN-CBK645A Junction Box



SN-BK345 Wall Mount