

SN-IPR57/04ACDN

4MP Network IR Mini Eyeball



- 1/3" Progressive Scan CMOS
- 2.8mm(3.6mm optional)
- 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
- IP67

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)

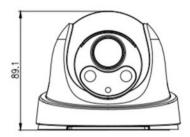
H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264, some retain the original technology, while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the 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.

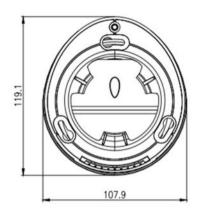
Technical Specification

Image Sensor 1/3" Progressive Scan CMOS Effective Pixels 2592(H)x1520(V) Scanning System Progressive Electronic Shutter 1/5-1/20000s Min. illumination SM:0Lux@ (IR LED ON) S/N Ratio 55dB IR Range Up to 30m IR Con/Off Control Auto/ Manual IR LEDs 2pcs Pan:0"-355", Tilt:0"-90", Rotation:0"-360" Lens Fixed Iris Fixed Iris Focal Length 2.8mm(3.6mm optional) F Number F2.0 Angle of View 90" Focus Control Fixed Close Focus 0.5m Distance 0.5m Video Video Compression H.265.H.265.MJPEG Max. Resolution 4MP(2592x1520) Streaming 3 Streams Streaming 3 Streams Streaming 25/301ps Streaming 25/301ps Streaming 25/301ps Streaming 25/301ps	Camera	
Scanning System Progressive Electronic Shutter 1/5-1/20000s 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 2pcs Pan/Tilt/Rotation Range Elens Lens Lens Lens Lens Type Fixed Iris Fixed Iris Focal Length 2.8mm(3.6mm optional) F Number F2.0 Angle of View 90° Focus Control Fixed Close Focus Distance 0.5m Video Compression H.265,H.265,MJPEG Max. Resolution 4MP(2592×1520) Streaming Capability 3 Streams 2.592×1520/2560×1440/2304×1296/1920×1080/1280×720 @25/30fps Stream Rate Stream: 1.500kbps-12000kbps Stream: 1.00kbps-6000kbps Stream: 1.00kbps-6000kbps Stream: 1.00kbps-3000kbps Stream: Capital PLC / Defog / WDR (120dB) White Balance Support Electronic Image Stabilization(EIS) Smart IR Support	Image Sensor	1/3" Progressive Scan CMOS
Electronic Shutter	Effective Pixels	2592(H)×1520(V)
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Angle of View 90° Focus Control Fixed Close Focus Distance 0.5m Video Compression H.265,H.265,MJPEG Max. Resolution 4MP(2592×1520) Streaming Capability 3 Streams Capability 3 Streams Stream? Stream2: D1/VGA/640×360/CIF/QVGA @25/30fps Stream2: D1/VGA/640×360/CIF/QVGA @25/30fps Stream / 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~3000kbps Stream3: 100kbps~3000kbps	Focal Length	2.8mm(3.6mm optional)
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Noise Reduction 2D/3D DNR Electronic Image Stabilization(EIS) Smart IR Support	White Balance	Support
Electronic Image Stabilization(EIS) Smart IR Support	Gain Control	Auto/Manual
Stabilization(EIS) Smart IR Support	Noise Reduction	2D/3D DNR
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Mirror Support	Smart IR	Support
	Mirror	Support

Region of Interest Motion Detection Support Audio Compression N/A Bit Rate N/A Network IPV4/IPV6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTOP/RTP, PPPoE, SMTP, DNS, UPnP, FTP, ARP, SNMP Interoperability ONVIF Streaming Method Unicast Max. User Access 10 Users Web Viewer AlE11, Chrome, Firefox 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 Reset Button N/A Reset Button N/A Edge Storage N/A Power Supply DC12V/POE Power Consumption Operating Temperature: -30°C - 50°C (-22°F - 122°F) Operating Hurnicity Less than 90% RH Ingress Protection IP67 Certifications CE / FCC Casing Metal Dimensions 119.1×107.9×89.1mm Net Weicht A30n			
Audio Compression N/A Bit Rate N/A Network 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, (10="" (ir="" 1="" 100="" 1119.1×107.9×89.1mm<="" 3.0="" 90%="" a="" abnormal="" alarm="" android="" audio="" bad="" base-t)="" bnc="" button="" casing="" ce="" certifications="" chrome,="" connector="" consumption="" converse,="" dc12v="" dimensions="" double="" edge="" electrical="" ethernet="" fcc="" fences,="" firefox="" hermidity="" illegal="" ims="" ingress="" intelligence="" interface="" ios,="" ip67="" ivs="" led="" left,="" less="" loiter,="" management="" metal="" multi="" n="" object="" off),="" on)="" operating="" output="" parking,="" perimeter,="" phone="" poe="" power="" protection="" removed,="" reset="" rh="" rj-45="" rs485="" signal="" single="" smart="" speed,="" storage="" supply="" sw(ir="" td="" than="" tw="" virtual=""><td>Region of Interest</td><td>Support</td></ie11,>	Region of Interest	Support	
Audio Compression N/A Bit Rate N/A Network Protocols: IPV4/IPV6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTSP/IPT, DPNS, UPnP, FTP, ARP, SNMP Interoperability ONVIF Streaming Method Unicast Max. User Access 10 Users Web Viewer <ie11, (-22°f="" (10="" (ir="" -="" -30°c="" 1="" 100="" 1119.1x107.9x89.1mm<="" 122°f)="" 3.0="" 50°c="" 7w="" 90%="" a="" abnormal="" alarm="" android="" audio="" bad="" base-t)="" bnc="" button="" casing="" ce="" certifications="" chrome,="" connector="" consumption="" converse,="" dc12v="" dimensions="" double="" edge="" electrical="" ethernet="" fcc="" fences,="" firefox="" humidity="" illegal="" ims="" ingress="" intelligence="" interface="" ios,="" ip67="" ivs="" led="" left,="" less="" lolter,="" loter,="" management="" metal="" multi="" n="" object="" off),="" on)="" operating="" output="" parking,="" perimeter,="" phone="" poe="" power="" protection="" removed,="" reset="" rh="" rj-45="" rs485="" signal="" single="" smart="" software="" speed,="" storage="" supply="" sw(ir="" td="" temperature:="" than="" virtual=""><td>Motion Detection</td><td>Support</td></ie11,>	Motion Detection	Support	
Compression N/A Bit Rate N/A Network Protocols: IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/RTP, PPDE, SMTP, DNS, UPPP, FTP, ARP, SNMP Interoperability ONVIF Streaming Method Unicast Max. User Access 10 Users Web Viewer < E11, Chrome, Firefox Management Software IMS 3.0 Smart Phone IOS, Android Intelligence IVS Perimeter, Single Virtual Fences, Double Virtual Fences, Loter, Multi Lotter, 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 Sturting Temperature: -30°C ~ 50°C (-22°F ~ 122°F) Temperature Working Temperature: -30°C ~ 50°C (-22°F ~ 122°F) Operating Less than 90% RH Ingress Protection IP67 Certifications CE / FCC Casing Metal Dimensions 119.1×107.9×89.1mm	Privacy Masking	Support	
Bit Rate N/A Network Protocols: IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/RTP, PPPOE, SMTP, DNS, UPP, FTP, ARP, SNIMP Interoperability ONVIF Streaming Method Unicast Max. User Access 10 Users Web Viewer <	Audio		
Network Protocols: IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/RTP, PPPoE, SMTP, DNS, UPnP, FTP, ARP, SNMP ONVIF Streaming Method Unicast Max. User Access 10 Users Web Viewer <	Compression	N/A	
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Streaming Method Unicast Max. User Access 10 Users Web Viewer	Protocols:	RTSP, DHCP, NTP, RTCP/RTP, PPPoE, SMTP, DNS,	
Max. User Access 10 Users Web Viewer < IE11, Chrome, Firefox 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 SW(IR LED OFF), 7W (IR LED ON) Operating 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 IP67 Certifications CE / FCC Casing Metal Dimensions 119.1×107.9×89.1mm	Interoperability	ONVIF	
Web Viewer <ie11, chrome,="" firefox<="" td=""> 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 5W(IR LED OFF), 7W (IR LED ON) Operating Temperature: -30°C ~ 50°C (-22°F ~ 122°F) Operating Humidity Less than 90% RH Ingress Protection IP67 Certifications CE / FCC Casing Metal Dimensions 119.1×107.9×89.1mm</ie11,>	Streaming Method	Unicast	
Management Software 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 Operating Temperature: -30°C ~ 50°C (-22°F ~ 122°F) Working Temperature: -30°C ~ 50°C (-22°F ~ 122°F) Uperating Humidity Ingress Protection IP67 Certifications CE / FCC Casing Metal Dimensions I19.1×107.9×89.1mm	Max. User Access	10 Users	
Software INS 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 5W(IR LED OFF), 7W (IR LED ON) Operating 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 IP67 Certifications CE / FCC Casing Metal Dimensions 119.1×107.9×89.1mm	Web Viewer	<ie11, chrome,="" firefox<="" td=""></ie11,>	
Intelligence 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 5W (IR LED OFF), 7W (IR LED ON) Operating 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 IP67 Certifications CE / FCC Casing Metal Dimensions 119.1×107.9×89.1mm		IMS 3.0	
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 Starting Temperature: -30°C ~ 50°C (-22°F ~ 122°F) Operating Temperature Operating Humidity Less than 90% RH Ingress Protection IP67 Certifications CE / FCC Casing Metal Dimensions 119.1x107.9x89.1mm	Smart Phone	IOS, Android	
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 Electrical Power Supply DC12V/POE Power Consumption 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 IP67 Certifications CE / FCC Casing Metal Dimensions 119.1×107.9×89.1mm	Intelligence		
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 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 IP67 Certifications CE / FCC Casing Metal Dimensions 119.1×107.9×89.1mm	IVS	Loiter, Multi Loiter, Object Left, Object Removed,	
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 SW(IR LED OFF), 7W (IR LED ON) Operating 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 IP67 Certifications CE / FCC Casing Metal Dimensions 119.1×107.9×89.1mm	Interface		
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 5W(IR LED OFF), 7W (IR LED ON) Operating Temperature: -30°C ~ 50°C (-22°F ~ 122°F) Temperature Working Temperature: -30°C ~ 50°C (-22°F ~ 122°F) Operating Humidity Less than 90% RH Ingress Protection IP67 Certifications CE / FCC Casing Metal Dimensions 119.1×107.9×89.1mm	Ethernet	1 Ethernet (10/100 Base-T) RJ-45 Connector	
RS485 N/A BNC Output N/A Reset Button N/A Edge Storage N/A Electrical Power Supply DC12V/POE Power Consumption Sw(IR LED OFF), 7W (IR LED ON) Operating Temperature: -30°C ~ 50°C (-22°F ~ 122°F) Temperature Working Temperature: -30°C ~ 50°C (-22°F ~ 122°F) Operating Humidity Less than 90% RH Ingress Protection IP67 Certifications CE / FCC Casing Metal Dimensions 119.1×107.9×89.1mm	Audio Interface	N/A	
BNC Output N/A Reset Button N/A Edge Storage N/A Electrical Power Supply DC12V/POE Power Consumption 5W(IR LED OFF), 7W (IR LED ON) Operating Temperature: -30°C ~ 50°C (-22°F ~ 122°F) Temperature Working Temperature: -30°C ~ 50°C (-22°F ~ 122°F) Operating Humidity Less than 90% RH Ingress Protection IP67 Certifications CE / FCC Casing Metal Dimensions 119.1×107.9×89.1mm	Alarm	N/A	
Reset Button N/A Edge Storage N/A Electrical Power Supply DC12V/POE Power Consumption SW(IR LED OFF), 7W (IR LED ON) Operating 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 IP67 Certifications CE / FCC Casing Metal Dimensions 119.1×107.9×89.1mm	RS485	N/A	
Edge Storage N/A Electrical Power Supply DC12V/POE Power Consumption 5W(IR LED OFF), 7W (IR LED ON) Operating 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 IP67 Certifications CE / FCC Casing Metal Dimensions 119.1×107.9×89.1mm	BNC Output	N/A	
Electrical Power Supply DC12V/POE Power Consumption 5W(IR LED OFF), 7W (IR LED ON) Operating 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 IP67 Certifications CE / FCC Casing Metal Dimensions 119.1×107.9×89.1mm	Reset Button	N/A	
Power Supply DC12V/POE Power Consumption 5W(IR LED OFF), 7W (IR LED ON) Operating Starting Temperature: -30°C ~ 50°C (-22°F ~ 122°F) Temperature Working Temperature: -30°C ~ 50°C (-22°F ~ 122°F) Operating Humidity Less than 90% RH Ingress Protection IP67 Certifications CE / FCC Casing Metal Dimensions 119.1×107.9×89.1mm	Edge Storage	N/A	
Power Consumption 5W(IR LED OFF), 7W (IR LED ON) Operating Starting Temperature: -30°C ~ 50°C (-22°F ~ 122°F) Temperature Working Temperature: -30°C ~ 50°C (-22°F ~ 122°F) Operating Humidity Less than 90% RH Ingress Protection IP67 Certifications CE / FCC Casing Metal Dimensions 119.1×107.9×89.1mm	Electrical		
Consumption SW(IR LED OFF), 7W (IR LED ON) Operating 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 IP67 Certifications CE / FCC Casing Metal Dimensions 119.1×107.9×89.1mm	Power Supply	DC12V/POE	
Operating 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 IP67 Certifications CE / FCC Casing Metal Dimensions 119.1×107.9×89.1mm		5W(IR LED OFF), 7W(IR LED ON)	
Operating Humidity Less than 90% RH Ingress Protection IP67 Certifications CE / FCC Casing Metal Dimensions 119.1×107.9×89.1mm	Operating		
Ingress Protection IP67 Certifications CE / FCC Casing Metal Dimensions 119.1×107.9×89.1mm	Operating	Less than 90% RH	
Casing Metal Dimensions 119.1×107.9×89.1mm		IP67	
Dimensions 119.1×107.9×89.1mm	Certifications	CE / FCC	
	Casing	Metal	
Net Weight 430g	Dimensions	119.1×107.9×89.1mm	
400g	Net Weight	430g	

Dimensions(mm)





Accessories

Optional:







SN-CBK646A Junction Box