

SN-IPR5840CNDN

4MP Network IR Eyeball



- 1/3" Progressive Scan CMOS
- 2.8mm
- 25fps/30fps@4MP(2592*1520)
- Triple Streams
- Smart IR Up to 30m
- 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.

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, and 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)

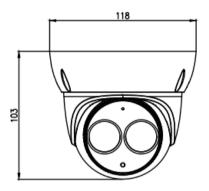
H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264, some retain the original technology, while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the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

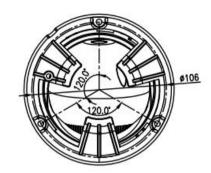
Technical Specification

Image Sensor 1/3" Progressive Scan CMOS Effective Pixels 2592(H)x1520(V) Scanning System Progressive Electronic Shutter 1/5-1/20,000s Min. illumination Color-0.05Lux@ (F1.2.AGC ON) , BW-0Lux@ (IR LED ON) S/N Ratio 55dB IR Range Up to 30m IR Cn/Off Control Auto/ Manual IR LEDs 1pcs Pan/Tit/Rotation Range Pan:0"~355", Tilt:0"~90", Rotation:0"~360" Lens Type Lens Type Fixed Iris Fixed Iris Focal Length 2.8mm F Number F2.0 Angle of View 100° Focus Control Fixed Close Focus Distance 0.5m Video Video Compression H.265,H.264,MJPEG Max. Resolution 4MP(2592x1520) Streaming Capability 3 Streams Stream / Stream : 2592x1520/2560x1440/2304x1296/ Stream / Stream : 200kbps-12000kbps Stream : 200kbps-12000kbps Stream : 200kbps-12000kbps	Camera	
Scanning System Progressive Electronic Shutter 1/5-1/20,000s Min. illumination Color-0.05Lux@ (F1-2,AGC ON), BW:OLux@ (IR LED ON) S/N Ratio 55dB IR Range Up to 30m IR On/Off Control Auto/ Manual IR LEDs 1pcs Pan/Till/Rotation Range Lens Lens Lens Type Fixed Iris Fixed Iris Focal Length 2.8mm F Number F2.0 Angle of View 100° Focus Control Fixed Close Focus Distance 0.5m Video Compression H.265,H.264,MJ/PEG Max. Resolution 4MP(2592x1520) Streaming Capability 3 Streams Stream 2.592x1520/2560x1440/2304x1296/1920x1080/1280x720 @25/30fps Stream Atte Control CBR/VBR Bit Rate Control CBR/VBR Bit Rate Control CBR/VBR Bit Rate Stream: 1.00kbps-3000kbps Stream: 1.00kbps-3000kbps Stream: 1.00kbps-3000kbps Stream: Capability ICR Image Enhancement HLC / Defog / WDR (120dB) White Balance Support Electronic Image Stabilization(EIS) Support Support	Image Sensor	1/3" Progressive Scan CMOS
Min. illumination	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 1pcs Pan/Titl/Rotation Pan:0'~355', Tilt:0'~90', Rotation:0'~360' Lens Lens Lens Type Fixed Iris Fixed Iris Focal Length 2.8mm F Number F2.0 Angle of View 100° Focus Control Fixed Close Focus Distance 0.5m Video Video Compression H.265,H.264,MJPEG Max. Resolution 4MP(2592x1520) Streaming 3 Streams Streaming Streaming	Scanning System	Progressive
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IR Range Up to 30m IR On/Off Control Auto/ Manual IR LEDS 1pcs Pan/Tilt/Rotation Pan:0'~355', Tilt:0'~90', Rotation:0'~360' Lens Lens Type Fixed Iris Fixed Iris Focal Length 2.8mm F Number F2.0 Angle of View 100° Focus Control Fixed Close Focus Distance 0.5m Distance Video Compression H.265,H.264,MJPEG Max. Resolution 4MP(2592×1520) Streaming Capability 3 Streams Stream / Stream: 2592×1520/2560×1440/2304×1296/1920×1080/1280×720 @25/30fps Stream 8 Stream: 2100kpps=6000kpps Stream: 100kpps=6000kpps Stream: 100kpps=6000kpps Stream: 100kpps=6000kpps Stream: 100kpps=6000kpps Stream: HLC / Defog / WDR (120dB) White Balance Support Gain Control Auto/Manual Noise Reduction 2D/3D DNR Electronic Image Support	Min. illumination	
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Pan/Tilt/Rotation Range Pan:0'~355', Tilt:0'~90', Rotation:0'~360' Lens Lens Type Fixed Iris Fixed Iris Focal Length 2.8mm F Number F2.0 Angle of View 100° Focus Control Fixed Close Focus Distance 0.5m Video Compression H.265,H.264,MJPEG Max. Resolution 4MP(2592×1520) Streaming Capability 3 Streams Capability 3 Streams Stream / Frame Rate 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 Stream2: 100kbps-12000kbps Stream3: 100kbps-3000kbps 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	IR On/Off Control	Auto/ Manual
Lens Lens Type Fixed Iris Fixed Iris Focal Length 2.8mm F Number F2.0 Angle of View 100° Focus Control Fixed Close Focus Distance 0.5m Video Compression H.265,H.264,MJPEG Max. Resolution 4MP(2592×1520) Streaming Capability 3 Streams Stream / Stream: 2592×1520/2560×1440/2304×1296/1920×1080/1280×720 @25/30fps Stream / Stream: 2D1/VGA/640×360/CIF/QVGA @25/30fps Bit Rate Control CBR/VBR Bit Rate Stream: 100kbps-3000kbps Stream: 100kbps-3000kbps Stream: HLC / Defog / WDR (120dB) White Balance Support Gain Control Auto/Manual Noise Reduction (EIS) Smart IR Support	IR LEDs	1pcs
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Angle of View 100° Focus Control Fixed Close Focus Distance 0.5m Video Compression H.265,H.264,MJPEG Max. Resolution 4MP(2592×1520) Streaming Capability 3 Streams Stream / Stream: 2592×1520/2560×1440/2304×1296/1920×1080/1280×720 @25/30fps Stream2: D1/VGA/640x360/CIF/QVGA @25/30fps Stream2: D1/VGA/640x360/CIF/QVGA @25/30fps Stream3: VGA/CIF/QVGA @25/30fps Stream3: VGA/CIF/QVGA @25/30fps Stream3: 100kbps-12000kbps Stream3: 100kbps-3000kbps Stream3: 10	Focal Length	2.8mm
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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 Stream1: 200kbps-12000kbps Stream2: 100kbps-6000kbps Stream3: 100kbps-3000kbps 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		0.5m
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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: 200kbps~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
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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 / Derog / WDR (120dB) White Balance Support Gain Control Auto/Manual Noise Reduction 2D/3D DNR Electronic Image Stabilization(EIS) Smart IR Support	Day/Night	ICR
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	SunView
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), 5.5W(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
Casing Dimensions	

Dimensions(mm)





Accessories

Optional:



SN-CBK648 Junction Box