# SN-IPV57/80HDR

## 12MP Fisheye Network Camera



- 1/1.7" Progressive Scan CMOS
- 12MP(4000*3000)
- Triple Streams
- Unique De-warping Image
- Support Camera & Software De-warping
- Low bitrate ,Excellent   low light performance
- dWDR,3D DNR
- ROI, Defog, HLC, Corridor mode, DIS
- IP67

## System Overview

Sunell fisheye camera is an expert at panoramic surveillance with high-profile design. With a fisheye lens, the camera can provide a high quality 180°or 360°panoramic views without blind spots, making it ideal for wide and open areas, such as airports, shopping malls, banks, hotels, stores, offices and more. The camera can offer different views including 360°overview and de-warp views such as panorama view, double views and quad views.

## Functions

### Panoramic

Panoramic cameras provide 180 °, 360 ° full range of video scene, and also provide some de-warp mode to bringing people a new sense of real live and interactive experience.

### 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 +60 °C (-22 °F to +140 °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. For environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

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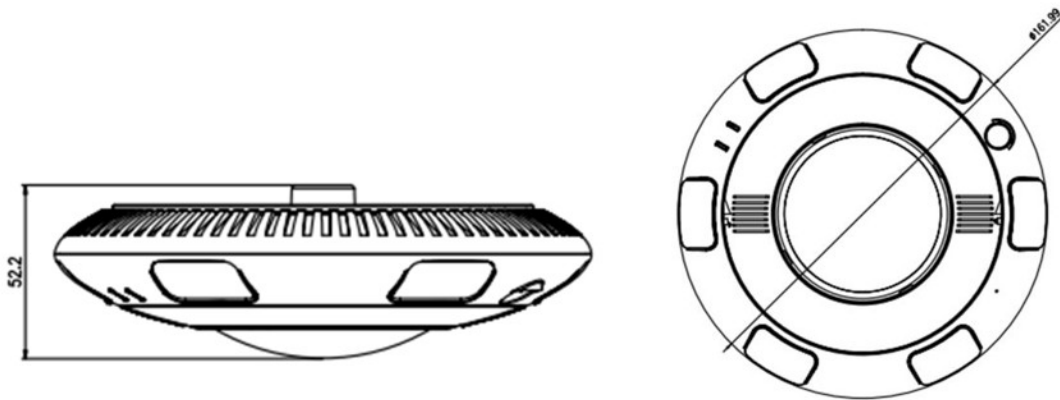
H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264 , some retain the original technology , while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between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

| Camera | |
|---|---|
| Image Sensor | 1/1.7" Progressive Scan CMOS |
| Effective Pixels | 4000(H)×3000 (V) |
| Scanning System | Progressive |
| Electronic Shutter | 1/5-1/20000s |
| Min. illumination | Color:0.009Lux@(F1.2,AGC ON)<br>B/W:0Lux@(IR LED ON) |
| S/N Ratio | 55dB |
| IR Range | Up to 15m |
| IR On/Off Control | Auto/ Manual |
| IR LEDs | 6pcs |
| Pan/Tilt/Rotation Range | N/A |

| Lens | |
|---|---|
| Lens Type | Fixed |
| Iris | Fixed Iris |
| Focal Length | 1.83mm |
| F Number | F2.4 |
| Angle of View | 360° |
| Focus Control | Fixed |
| Close Focus Distance | N/A |

| Video | |
|---|---|
| Compression | H.265,H.264,MJPEG |
| Max. Resolution | 12MP(4000×3000) |
| Streaming Capability | 2 Streams |
| Stream / Frame Rate | Stream1: 4000*3000 @20fps, 4096*2160/ 3840*2160/ 3000*3000/ 2560*2560/ 1920*1080 @25fps<br>Stream2: 1280*960/ 720*720/ D1 @25fps |
| Bit Rate Control | CBR/VBR |
| Bit Rate | Stream1: 500kbps~16000kbps<br>Stream2: 100kbps~8000kbps |
| Day/Night | ICR |
| Image Enhancement | HLC / Defog / dWDR |
| White Balance | Support |
| Gain Control | Auto/Manual |
| Noise Reduction | 2D/3D DNR |
| Electronic Image Stabilization(EIS) | Support |
| Smart IR | Support |
| Mirror | Support |

| | |
|---|---|
| Region of Interest | Support |
| Motion Detection | Support |
| Privacy Masking | Support |

| Audio | |
|---|---|
| Compression | G.711 ,RAW_PCM |
| Bit Rate | 64kbps (G.711), 128kps (RAW_PCM) |

| Network | |
|---|---|
| Protocols: | IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/RTP, PPPoE, SMTP, DNS, UPnP, FTP, APR, SNMP |
| Interoperability | ONVIF |
| Streaming Method | Unicast |
| 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 | 1ch Audio In,1ch Audio Out, 1ch Built-in MIC |
| Alarm | 1ch Alarm In,1ch Alarm Out |
| RS485 | N/A |
| BNC Output | N/A |
| Reset Button | Support |
| Edge Storage | Micro SD/SDHC/SDXC slot ,Max 128GB |

| Electrical | |
|---|---|
| Power Supply | DC12V/POE/AC24V |
| Power Consumption | 5W(IR LED OFF), 8W（IR LED ON） |
| Operating Temperature | Starting Temperature: -30°C ~ 60°C (-22°F ~ 140°F )<br>Working Temperature: -40°C ~ 60°C (-40°F ~ 140°F) |
| Operating Humidity | Less than 90% RH |
| Ingress Protection | IP67 |
| Certifications | CE / FCC |
| Casing | Metal |
| Dimensions | Φ162×52.2mm |
| Net Weight | 700g |

# Dimensions(mm)



# Accessories

**Optional：**



SN-CBK636
Wall Mount



SN-CBK637
Pendant Mount



SN-CBK645A
Junction Box



SN-CBK633
Corner Mount



SN-CBK627B
Pole Mount



SN-CBK633
Junction Box