

# SNCHP8681EBRKZ40SS

8MP 40x Starlight IR Explosion-proof Network Camera



## Key Features

- 1/1.8" STARVIS™ CMOS
- Max. 8MP(3840×2160) @25/30fps resolution
- 40x optical zoom, 16x digital zoom
- Supports detection and capture of faces, humans, and vehicles, as well as smoke and flame detection.
- Intelligent analysis: intrusion, single line crossing, double line crossing, loitering, wrong-way, illegal parking, and people counting.
- True WDR, 3D DNR, ICR, HLC, BLC, Defog
- IR distance up to 200m
- -K: Support fiber optical interface
- Material: 316L Stainless steel, IP68 water resistant
- ATEX: II 2 G Ex db IIC T6 Gb, Ex II 2 D Ex tb IIIC T80°C Db



## Specification

### Camera

|                    |                                                                    |
|--------------------|--------------------------------------------------------------------|
| Image Sensor       | 1/1.8" Progressive Scan CMOS                                       |
| Max. Resolution    | 8MP, 3840(H) × 2160 (V)                                            |
| Electronic Shutter | Auto/Manual, 1/5 to 1/20,000s                                      |
| Min. illumination  | Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0.001 Lux @ (F1.6, AGC ON) |
| Day & Night        | Auto (ICR)                                                         |
| Wide Dynamic Range | True WDR                                                           |
| Wiper              | Support                                                            |

### Lens

|               |                                    |
|---------------|------------------------------------|
| Focal Length  | 6.8 to 272 mm, 40x Optical Zoom    |
| Max. Aperture | F1.63 to F4.94                     |
| Angle of View | H: 62.0° to 2.4°, V: 36.6° to 1.3° |
| Zoom Speed    | Approx. 3.5 s                      |
| Digital Zoom  | 16x                                |
| Iris Control  | Auto/Manual                        |
| Focus Control | Auto/Manual/Semi-automatic         |

### DORI Distance

|           |                                        |
|-----------|----------------------------------------|
| Detection | 140 to 5,600 m (459.32 to 18,372.7 ft) |
| Observe   | 56 to 2,240 m (183.73 to 7,349.08 ft)  |
| Recognize | 28 to 1,120 m (91.86 to 3,674.54 ft)   |
| Identify  | 14 to 560 m (45.93 to 1,837.27 ft)     |

DORI (Detect, Observe, Recognize, and Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances.

### Illuminator

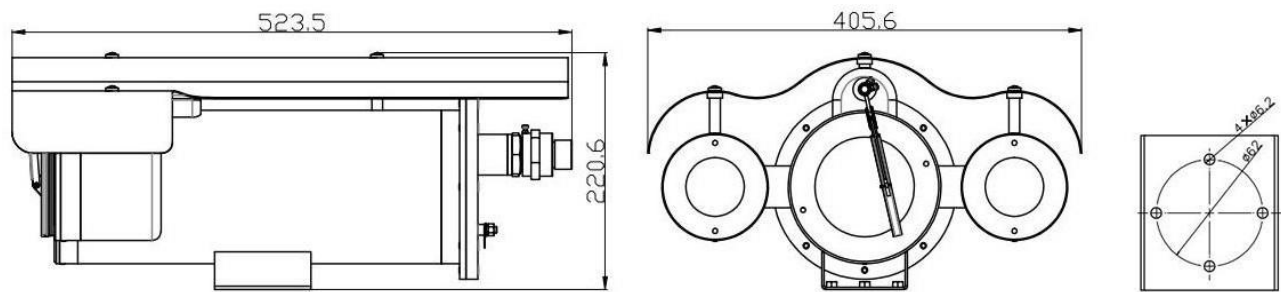
|                             |                         |
|-----------------------------|-------------------------|
| Illuminator Type            | IR                      |
| Illumination Distance       | Up to 200 m (656.17 ft) |
| Illumination On/Off Control | Auto/Manual             |
| IR wavelength               | 850 nm                  |

### Intelligent Analytics

|                           |                                                                                                                                                                               |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Multi-Object Detection    | Supports face, human, vehicle detection and capture.<br>Supports multiple frame modes: Full Frame, Four-corner Frame, and Mosaic.                                             |
| Smoke and Flame Detection | Support                                                                                                                                                                       |
| Intelligent Analysis      | Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Illegal parking, Smart Motion Detection<br>(support the accurate detection of vehicle and human) |
| People Counting           | Support                                                                                                                                                                       |
| <b>Video and Audio</b>    |                                                                                                                                                                               |
| Streaming Capability      | 3 Streams                                                                                                                                                                     |
| Stream/Frame Rate         | Stream1: 3840×2160, 2592×1520, 2304×1296, 1920×1080, 1280×720 @25/30fps<br>Stream2: D1, VGA, CIF @25/30fps<br>Stream3: VGA, CIF, QVGA @25/30fps                               |
| Bit Rate Control          | CBR/VBR                                                                                                                                                                       |
| Bit Rate                  | Stream1: 200 kbps to 16 Mbps<br>Stream2: 100 kbps to 6 Mbps<br>Stream3: 100 kbps to 3 Mbps                                                                                    |
| Smart Encoder             | Support                                                                                                                                                                       |
| Region of Interest (ROI)  | Support                                                                                                                                                                       |
| Audio Compression         | G.711 A-law, G.711 $\mu$ -law, RAW_PCM                                                                                                                                        |
| Audio Bit Rate            | 64 kbps (G.711), 128 kbps (RAW_PCM)                                                                                                                                           |
| <b>Image</b>              |                                                                                                                                                                               |
| Image Adjustment          | Brightness, Sharpness, Contrast, Saturation adjustable                                                                                                                        |
| Scene Setting             | Indoor, Outdoor, Mirror                                                                                                                                                       |
| Exposure Mode             | Auto, Manual, Shutter priority, Iris priority                                                                                                                                 |
| White Balance             | Auto, Tungsten, Fluorescent, Daylight, Shadow, Manual                                                                                                                         |
| Day/Night Setting         | Auto, Day, Night, Timer                                                                                                                                                       |
| Noise Reduction           | 2D/3D DNR                                                                                                                                                                     |
| Image Enhancement         | HLC, BLC, Defog, WDR, Anti-shake                                                                                                                                              |
| Privacy Masking           | Support 8 zones, mask color configurable                                                                                                                                      |
|                           |                                                                                                                                                                               |
| Alarm Triggers            | IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Day/Night switch alarm, Abnormal sound detection                                                               |
| Event Actions             | Alarm record, SMTP upload, FTP upload, Alarm output, Audible alarm output                                                                                                     |
| <b>Network</b>            |                                                                                                                                                                               |
| Protocols                 | IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/ RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, SMTP, 802.1x, SNMP, Multicast                             |
| Interoperability          | ONVIF (Profile S/T/G/M), SDK, CGI                                                                                                                                             |

|                        |                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Max Concurrent Streams | 10 channels                                                                                                                                                                                                                                                                                                                                                                                 |
| User/Host Level        | 32+ users, 3 levels: Administrator, Operator, Media user                                                                                                                                                                                                                                                                                                                                    |
| Security               | IP address filter, HTTPS, Illegal login lock, IEEE 802.1x                                                                                                                                                                                                                                                                                                                                   |
| Web Viewer             | <IE11, Chrome, Firefox, Microsoft Edge                                                                                                                                                                                                                                                                                                                                                      |
| Cyber Security         | Network protocols IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS 2, TLS3 , HTTP/ QoS Layer 3 / DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP ® , SNMP v1/v2c/v3 (MIB II), DNS/DNSv6, DDNS, NTP, PTP, NTS, RTSP, RTP, SRTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)" |
| <b>Interface</b>       |                                                                                                                                                                                                                                                                                                                                                                                             |
| Network Interface      | 1 × RJ-45, 10/100 Mbps self-adaptive Ethernet port                                                                                                                                                                                                                                                                                                                                          |
| Fiber Optical          | -K: 1 single module fiber interface                                                                                                                                                                                                                                                                                                                                                         |
| Audio Interface        | 1ch Input, 1ch Output                                                                                                                                                                                                                                                                                                                                                                       |
| Alarm Interface        | 2ch Input, 1ch Output                                                                                                                                                                                                                                                                                                                                                                       |
| RS-485                 | Support                                                                                                                                                                                                                                                                                                                                                                                     |
| CVBS Interface         | Support                                                                                                                                                                                                                                                                                                                                                                                     |
| SD Card Slot           | Built-in, up to 1 TB                                                                                                                                                                                                                                                                                                                                                                        |
| Reset Button           | Built-in                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>General</b>         |                                                                                                                                                                                                                                                                                                                                                                                             |
| Language               | English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English                                                                                                                                                                                                                                          |
| Power Supply           | 100 to 240VAC                                                                                                                                                                                                                                                                                                                                                                               |
| Power Consumption      | Less than 36W                                                                                                                                                                                                                                                                                                                                                                               |
| Operating Temperature  | -40°C to 60°C (-40°F to 140 °F)                                                                                                                                                                                                                                                                                                                                                             |
| Operating Humidity     | Less than 90% RH                                                                                                                                                                                                                                                                                                                                                                            |
| Ingress Protection     | IP68                                                                                                                                                                                                                                                                                                                                                                                        |
| Certifications         | ATEX: Ex II 2GD Ex db IIC T6 Gb /Ex tb IIIC T80°C Db;<br>IECEX: Ex db IIC T6 Gb /Ex tb IIIC T80°C Db                                                                                                                                                                                                                                                                                        |
| Material               | SUS316L                                                                                                                                                                                                                                                                                                                                                                                     |
| Dimensions             | 523.5 × 405.6 × 220.6 mm (20.6 × 16 × 8.7 inch)                                                                                                                                                                                                                                                                                                                                             |
| Net Weight             | 18 kg (39.68 lb)                                                                                                                                                                                                                                                                                                                                                                            |

Dimensions (mm)



Accessories

Optional:



SN-BK401A-SS  
Wall Mount



SN-BK406-SS  
Pole Mount



SN-BK407-SS  
Corner Mount



SN-BK400-SS(P/F/D)  
Junction Box



SN-CPL10A-SS  
Washing Tank



Flexible Tube