# SNIPP8086QASB

## 8MP Dual-sensor Panoramic Bullet Network Camera

## Key Features

- 2×5MP 1/2.8" STARVIS™ CMOS

- Output 180° wide angle splicing image

- Outputs max. 8MP (4224×1848)@25/30 fps, and supports 2592×1944 @25/30fps

- Support human and vehicle detection and capture

- Intelligent analysis: intrusion, single line crossing, double line crossing, loitering, wrong-way, smart motion detection, people counting and heat map

- True WDR, 3D DNR, ROI, Defog, HLC

- Built-in warm light and IR light, the max. illumination distance up to 30 m (98.4 ft)

- Audio: 1ch in,1ch out; built-in Mic and speaker; support two-way talk

- Alarm: 1ch in,1ch out; built-in SD card slot, up to 1 TB
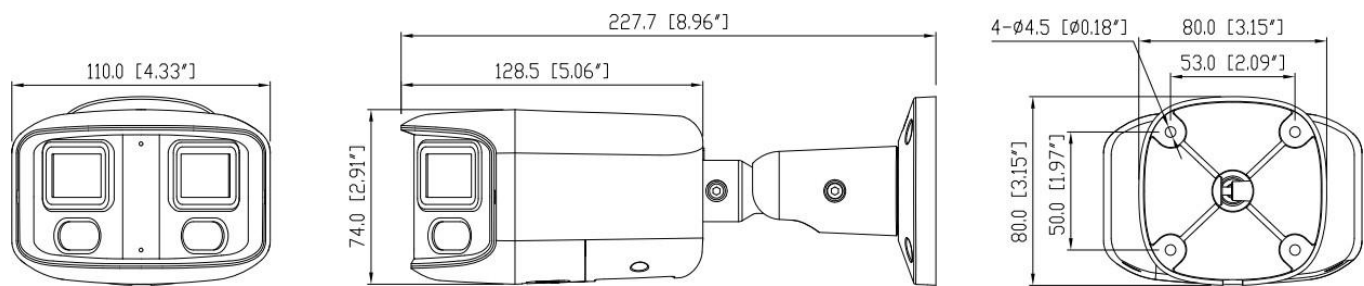
- IP66

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# Specification

## Camera

| | |
|---|---|
| Image Sensor | Dual 1/2.8" Progressive Scan CMOS |
| Max. Resolution | 8MP, 4224(H) × 1848(V) |
| Electronic Shutter | Auto/Manual, 1/5 to 1/100,000s |
| Min. illumination | Color: 0.01 Lux @ (F1.6, AGC ON)<br>B/W: 0.001 Lux @ (F1.6, AGC ON), 0 Lux with light on |
| Day & Night | Auto (ICR) |
| Angle Adjustment | Pan: 0˚ to 360˚, Tilt: 0˚ to 90˚, Rotation: 0˚ to 360˚ |

## Lens

| | |
|---|---|
| Lens Type | Fixed-focal lens, Dual lens |
| Iris | Fixed Iris |
| Focal Length | 2.8 mm |
| Max. Aperture | F1.6 |
| Field of View (FOV) | H: 185.8°, V: 65.3° |

## DORI Distance

| | |
|---|---|
| Detect | 66 m (216.5 ft) |
| Observe | 26.4 m (86.6 ft) |
| Recognize | 13.2 m (43.3 ft) |
| Identify | 6.6 m (21.7 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 | 2 (IR LED), 2 (Warm Light) |
| Illumination Distance | IR distance up to 30 m (98.4 ft)<br>Warm light distance up to 20 m (65.6 ft) |
| Illumination Control | IR mode, White mode, Intelligent mode, None |
| 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. |
| Intelligent Analysis | Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Illegal parking, and Smart motion detection.<br>Support alarm triggering by specified target types (human and vehicle). |

| | |
|---|---|
| People Counting | Support |
| Heat Map | Support |

| **Video and Audio** | |
|---|---|
| Streaming Capability | 3 Streams |
| Stream/Frame Rate | **Splicing mode:**<br>- Stream1: 4224×1848, 3072×1760, 3072×1536, 2880×1440, 2560×1280, 2048×1024 @ 25/30fps<br>- Stream2: 1920×832, 1536×576 @ 25/30fps<br>- Stream3: 1920×832, 1280×560 @25/30fps<br>**Multi-channel mode:**<br>- Stream1: 2592×1944,2592×1520, 1920×1080,1280×720 @25/30fps,<br>- Stream2: D1, VGA, CIF, QVGA @ 25/30fps |
| Bit Rate Control | CBR/VBR |
| Bit Rate | **Splicing mode:**<br>- Stream1: 500 kbps to 16 Mbps<br>- Stream2: 200 kbps to 8 Mbps<br>- Stream3: 200 kbps to 8 Mbps<br>**Multi-channel mode:**<br>- Stream1: 200 kbps to 16 Mbps<br>- Stream2: 100 kbps to 6 Mbps |
| Smart Encoder | Support |
| Region of Interest (ROI) | Support |
| Audio Compression | G.711 A-law, G.711 μ-law, RAM PCM |
| Audio Bit Rate | 64 Kbps (G.711), 128 Kbps (RAW_PCM) |

| **Image** | |
|---|---|
| Image Adjustment | Brightness, Sharpness, Contrast, Saturation adjustable |
| Scene Setting | Indoor, Outdoor |
| Exposure Mode | Auto, Manual, Shutter priority |
| White Balance | Auto, Tungsten, Fluorescent, Daylight, Shadow, Manual |
| Day/Night Setting | Auto, Day, Night, Timer |
| Noise Reduction | 2D/3D DNR |
| Image Enhancement | WDR, HLC, BLC, Defog |
| Privacy Masking | Support |

| **Event** | |
|---|---|
| Alarm Triggers | IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Day/Night switch alarm, Abnormal sound detection |
| Events Actions | Alarm record, Alarm output, FTP upload, SMTP upload, Audible alarm output, White light alarm output |

| **Network** | |
|---|---|
| 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 |
| Cyber Security | ETSI EN 303 645, BSI IT Security Label, FIPS 140-3 Edge security Software: Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 Client Credential Flow/OpenID Authorization Code Flow for centralized ADFS account management, password protection, Sunell Cryptographic Module (FIPS 140-3 level 1), AES-XTS-Plain64 256bit SD card encryption Hardware: Axis Edge Vault cybersecurity platform TPM 2.0 (CC EAL4+, FIPS 140-3 Level 2), secure element (CC EAL 6+), system-on-chip security (TEE), Axis device ID, secure keystore, signed video, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit) |
| Web Viewer | <IE11, Chrome, Firefox, Microsoft Edge |

## Interface

| | |
|---|---|
| Network Interface | 1 Ethernet (10/100 Base-T) RJ-45 Connector |
| Built-in Microphone | Support |
| Built-in Speaker | Support |
| Audio Interface | 1ch Input, 1ch Output |
| Alarm Interface | 1ch Input, 1ch Output |
| SD Card Slot | Built-in, up to 1 TB |
| Reset Button | Support |

## General

| | |
|---|---|
| Language | English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English |
| Power Supply | 12 VDC (-15% to +20%) / PoE (802.3af) |
| Power Consumption | Max. 4 W (without IR)<br>Max. 11.5 W (IR on + Speaker) |
| Operating Temperature | -40°C to 60°C (-40°F to 140°F ) |
| Operating Humidity | Less than 90% RH |
| Ingress Protection | IP66 |
| Certifications | CE-EMC<br>- EN 55032, EN IEC 61000-6-4, EN IEC 61000-3-2, EN 61000-3-3, EN 55035, EN 50130-4<br>FCC 47 CFR Part 15 Subpart B |
| Material | Metal |
| Dimensions | 227.7 × 110 × 80 mm (8.96 × 4.33 × 3.15 inch) |
| Net Weight | 0.82 kg (1.81 lb) |

# Dimensions (mm)

110.0 [4.33"]

227.7 [8.96"]

128.5 [5.06"]

74.0 [2.91"]

4-Ø4.5 [Ø0.18"]    80.0 [3.15"]

53.0 [2.09"]

80.0 [3.15"]    50.0 [1.97"]

# Accessories

**Optional:**

SN-CBK656A
Junction Box

SN-CBK627D
Pole Mount