



# SN-IPP8087RAR-VZ-C

4 × 8MP 4-Directional Multi-sensor Network Camera



## Key Features

- Four 8MP 1/2.8" STARVIS CMOS image sensor
- 4 adjustable lenses in one camera, each lens up to 8 MP (3840 × 2160) @25/30 fps
- True WDR, 3D DNR, ROI, HLC, BLC, Defog
- Support face, human, vehicle detection and capture
- Intelligent analytics: intrusion, single line crossing, double line crossing, loitering, wrong-way, illegal parking, enter area, leave area, and smart motion detection and people counting
- Built-in microphone, 1/1 audio in/out, 4/2 alarm in/out
- Built-in SD card slot, up to 1TB
- Smart IR distance up to 40 m
- TPM, FIPS 140-3 level 3 compliant
- IP67, IK10



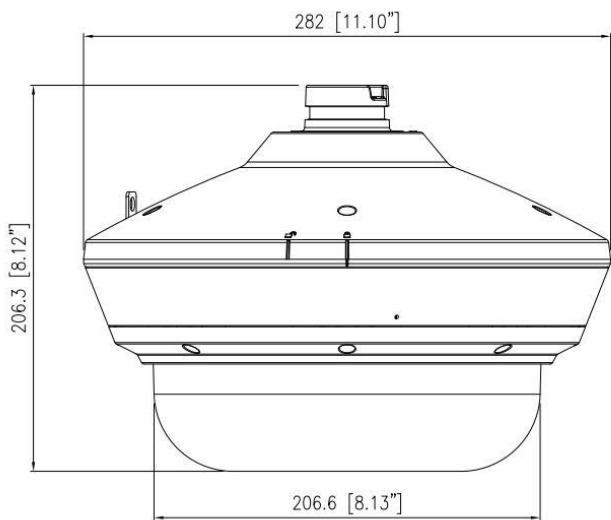
## Specification

| Camera                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor                                                                                                                                                                                                                                                               | 4 × 1/2.8" Progressive Scan CMOS                                                                                                                                                                                                     |
| Max. Resolution                                                                                                                                                                                                                                                            | 8MP, 3840(H) × 2160(V)                                                                                                                                                                                                               |
| Electronic Shutter                                                                                                                                                                                                                                                         | Auto/Manual, 1/5 to 1/100,000s                                                                                                                                                                                                       |
| Min. illumination                                                                                                                                                                                                                                                          | Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR                                                                                                                                                                                |
| Day & Night                                                                                                                                                                                                                                                                | IR cut filter                                                                                                                                                                                                                        |
| Wide Dynamic Range                                                                                                                                                                                                                                                         | True WDR                                                                                                                                                                                                                             |
| Angle Adjustment                                                                                                                                                                                                                                                           | Pan: -180° to 180°, Tilt: 0° to 130°, Rotation: 0° to 355°                                                                                                                                                                           |
| Lens                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                      |
| Lens Type                                                                                                                                                                                                                                                                  | Varifocal lens, Motorized focal                                                                                                                                                                                                      |
| Iris                                                                                                                                                                                                                                                                       | DC- Iris                                                                                                                                                                                                                             |
| Focal Length                                                                                                                                                                                                                                                               | 2.7 to 13.5 mm                                                                                                                                                                                                                       |
| Max. Aperture                                                                                                                                                                                                                                                              | F1.6                                                                                                                                                                                                                                 |
| Field of View (FOV)                                                                                                                                                                                                                                                        | H: 108.0° to 31.4°, V: 56.1° to 17.6°                                                                                                                                                                                                |
| DORI Distance                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                      |
| Detect                                                                                                                                                                                                                                                                     | 95 to 290 m (311.7 to 951.4 ft)                                                                                                                                                                                                      |
| Observe                                                                                                                                                                                                                                                                    | 38 to 116 m (124.7 to 380.6 ft)                                                                                                                                                                                                      |
| Recognize                                                                                                                                                                                                                                                                  | 19 to 58 m (62.3 to 190.3 ft)                                                                                                                                                                                                        |
| Identify                                                                                                                                                                                                                                                                   | 9.5 to 29 m (31.2 to 95.1 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                                                                                                                                                                                                                                                      | IR distance up to 40 m (131.2 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.                                                                                                    |
| Intelligent Analysis                                                                                                                                                                                                                                                       | Intrusion, Smart motion detection, Single line crossing, Double line crossing, Loitering, Wrong-way detection, Illegal parking, Enter area, and Leave area<br>Support alarm triggering by specified target types (human and vehicle) |
| People Counting                                                                                                                                                                                                                                                            | Supported                                                                                                                                                                                                                            |

| Video and Audio          |                                                                                                                                                                                        |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Streaming Capability     | 3 Streams                                                                                                                                                                              |
| Stream/Frame Rate        | Stream1: 3840 × 2160, 2592 × 1944, 2592 × 1520, 2560 × 1440, 2304 × 1296, 1920 × 1080, 1280 × 720 @25/30 fps<br>Stream2: D1, VGA, CIF @25/30 fps<br>Stream3: VGA, CIF, QVGA @25/30 fps |
| 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            | Supported                                                                                                                                                                              |
| Region of Interest (ROI) | Supported                                                                                                                                                                              |
| Audio Compression        | G.711 A-law, G.711 μ-law, RAW_PCM                                                                                                                                                      |
| Audio Bit Rate           | 64 Kbps (G.711), 128 Kbps (RAW_PCM)                                                                                                                                                    |
| Image                    |                                                                                                                                                                                        |
| Image Adjustment         | Brightness, Sharpness, Contrast, Saturation adjustable                                                                                                                                 |
| Scene Setting            | Indoor, Outdoor, Mirror, Corridor Mode                                                                                                                                                 |
| 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          | Up to 4 × 4 areas                                                                                                                                                                      |
| Event                    |                                                                                                                                                                                        |
| Alarm Triggers           | IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Day/Night switch alarm, Abnormal sound detection                                                                        |
| Event Actions            | Alarm record, FTP upload, SMTP upload, Alarm output, Audible 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                                                                                                                               |
| Web Viewer               | <IE11, Chrome, Firefox, Microsoft Edge                                                                                                                                                 |
| Security                 |                                                                                                                                                                                        |
| OS / Firmware Protect    | Encrypted firmware, Secure boot, Signed firmware                                                                                                                                       |
| User Authentication      | Digest authentication, Prevent brute-force attack                                                                                                                                      |

|                        |                                                                                                                                                    |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Network Authentication | IEEE 802.1X(EAP-TLS)                                                                                                                               |
| Secure Communication   | HTTPS, WSS(WebSocket Secure), SRTP                                                                                                                 |
| Access Control         | IP-based access control, Auto logout                                                                                                               |
| Data Protect           | Encryption credentials                                                                                                                             |
| Audit                  | Access / System / Event Log management                                                                                                             |
| Secure Storage         | SDcard partition encrypt(AES-256), Secure element                                                                                                  |
| Supply Chain Security  | SBOM                                                                                                                                               |
| Security Certificate   | Secure element(FIPS 140-3 level 3)                                                                                                                 |
| <b>Interface</b>       |                                                                                                                                                    |
| Network Interface      | 1 Ethernet (100/1000 Base-T) RJ-45 Connector                                                                                                       |
| Built-in Microphone    | Supported                                                                                                                                          |
| Audio Interface        | 1ch Input, 1ch Output                                                                                                                              |
| Alarm Interface        | 4ch Input, 2ch Output                                                                                                                              |
| RS-485                 | 1 RS-485                                                                                                                                           |
| CVBS Interface         | 1 BNC interface                                                                                                                                    |
| SD Card Slot           | Built-in, up to 1 TB                                                                                                                               |
| Reset Button           | Supported                                                                                                                                          |
| <b>General</b>         |                                                                                                                                                    |
| Language               | English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English |
| Power Supply           | 12 VDC (-15% to +25%) / PoE+ (802.3at)                                                                                                             |
| Power Consumption      | Typical: 10.8 W (12 VDC) / approx. 13.5 W (PoE)<br>Max (IR on): 20.2 W (12 VDC) / approx. 25.3 W (PoE)                                             |
| Operating Temperature  | -40°C to 60°C (-40°F to 140°F )                                                                                                                    |
| Operating Humidity     | Less than 90% RH                                                                                                                                   |
| Ingress Protection     | IP67, IK10                                                                                                                                         |
| 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               | Aluminum alloy body, bubble: plastic                                                                                                               |
| Dimensions             | Φ282 × 206.3 mm (φ11.1 × 8.12 inch) , (Bracket not included)                                                                                       |
| Net Weight             | 4 kg (8.82 lb), (Bracket not included)                                                                                                             |

Dimensions (mm)



Accessories

Included:



Optional:

| SN-BK348A<br>Ceiling Bracket                                                        | SN-BK605<br>Corner Mount                                                            | SN-BK604B<br>Pole Mount                                                             | SN-BK367<br>Junction Box                                                            | SN-BK358<br>Corner Mount                                                              | SN-BK359<br>Pole Mount                                                                |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
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