

## RDO8084EEAR-VZ

8MP IR Varifocal Dome Network Camera



### Key Features

- 1/1.8" progressive scan SONY STARVIS II™ CMOS
- Max. 8MP(3840×2160) @25/30fps resolution
- 3.6 to 11 mm motorized focal lens
- Support face, human, vehicle detection and capture
- Intelligent analysis: intrusion, single / double line crossing, loitering, wrong-way detection, Illegal parking, smart motion detection (SMD), and people counting
- True WDR, 3D DNR, ROI, Defog, HLC
- Smart IR distance up to 50 m
- 1/1 audio input/output, 1/1 alarm input/output
- Built-in micro SD card slot (up to 1 TB)
- IP66, IK10 protection

## Technical Specification

### Camera

|                    |                                                        |
|--------------------|--------------------------------------------------------|
| Image Sensor       | 1/1.8" Progressive Scan SONY STARVIS II™ CMOS          |
| Max. Resolution    | 8MP, 3840(H) × 2160(V)                                 |
| Electronic Shutter | Auto/Manual, 1/5 to 1/20,000s                          |
| Min. illumination  | Color: 0.003 Lux @ (F1.3, AGC ON) , B/W: 0 Lux with IR |
| Day & Night        | Auto (ICR)                                             |
| Wide Dynamic Range | True WDR 120DB                                         |
| Angle Adjustment   | Pan: 0° to 355°, Tilt: 0° to 75°, Rotation: 0° to 355° |

### Lens

|                     |                                        |
|---------------------|----------------------------------------|
| Lens Type           | Varifocal lens, Motorized focal        |
| Iris                | DC Iris                                |
| Focal Length        | 3.6 to 11 mm                           |
| Max. Aperture       | F1.3                                   |
| Field of View (FOV) | H: 113.4° to 48.9°, V: H: 59° to 26.6° |

### DORI Distance

| Lens          | Detect             | Observe           | Recognize        | Identify         |
|---------------|--------------------|-------------------|------------------|------------------|
| Wide (3.6 mm) | 85.4 m (280.2 ft)  | 34.2 m (112.2 ft) | 17.1 m (56.1 ft) | 8.5 m (27.9 ft)  |
| Tele (11 mm)  | 184.8 m (606.3 ft) | 73.9 m (242.5 ft) | 37 m (121.4 ft)  | 18.5 m (60.7 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            | IR                                                                                                                                                                                                     |
| Illumination Distance       | Up to 50 m (164.0 ft)                                                                                                                                                                                  |
| Illumination On/Off Control | Auto/Manual                                                                                                                                                                                            |
| Intelligent Analytics       |                                                                                                                                                                                                        |
| Multi-Object Detection      | Supports face, human, vehicle detection and capture                                                                                                                                                    |
| Intelligent Analysis        | Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Illegal parking, and Smart motion detection<br><br>Support alarm triggering by specified target types (human and vehicle) |
| People Counting             | Support                                                                                                                                                                                                |

## Video and Audio

|                          |                                                                                                                                                                               |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video Compression        | Support H.265+/H.265/H.264+/H.264                                                                                                                                             |
| Streaming Capability     | 3 Streams                                                                                                                                                                     |
| Stream/Frame Rate        | Stream1: 3840×2160, 2592×1944, 2592×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 @25/30fps<br><br>Stream2: D1, VGA, CIF @25/30fps<br><br>Stream3: VGA, CIF, QVGA @25/30fps |
| Bit Rate Control         | CBR/VBR                                                                                                                                                                       |
| Bit Rate                 | Stream1: 200 Kbps to 16 Mbps<br><br>Stream2: 100 Kbps to 6 Mbps<br><br>Stream3: 100 Kbps to 3 Mbps                                                                            |
| Smart Encoder            | Support                                                                                                                                                                       |
| Region of Interest (ROI) | Off/On (8 Zone, Rectangle)                                                                                                                                                    |
| Audio Compression        | G.711 A-law, G.711 $\mu$ -law, RAW PCM                                                                                                                                        |
| Audio Bit Rate           | 64 Kbps (G.711), 128 Kbps (RAW_PCM)                                                                                                                                           |

| Image             |                                                                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Adjustment  | Brightness, Sharpness, Contrast, Saturation adjustable                                                                                            |
| Aisle Mode        | Support                                                                                                                                           |
| Mirror            | Support                                                                                                                                           |
| White Balance     | Auto/Manual                                                                                                                                       |
| Day/Night Setting | Auto, Day, Night, Time                                                                                                                            |
| Noise Reduction   | 2D/3D DNR                                                                                                                                         |
| Image Enhancement | HLC, BLC, Defog, WDR                                                                                                                              |
| Privacy Masking   | 4 areas                                                                                                                                           |
| Event             |                                                                                                                                                   |
| Alarm Triggers    | IVS, Motion detection, Network alarm, Disk alarm                                                                                                  |
| Alarm Events      | Alarm record, FTP upload, SMTP upload                                                                                                             |
| 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                                                                                                                 |
| User/Host Level   | Up to 10 users, 3 levels: Administrator, Operator, Media user                                                                                     |
| Security          | IP address filter, encrypted HTTPS, Illegal login lock, IEEE 802.1x                                                                               |
| Web Viewer        | <IE11, Chrome, Firefox, Microsoft Edge                                                                                                            |

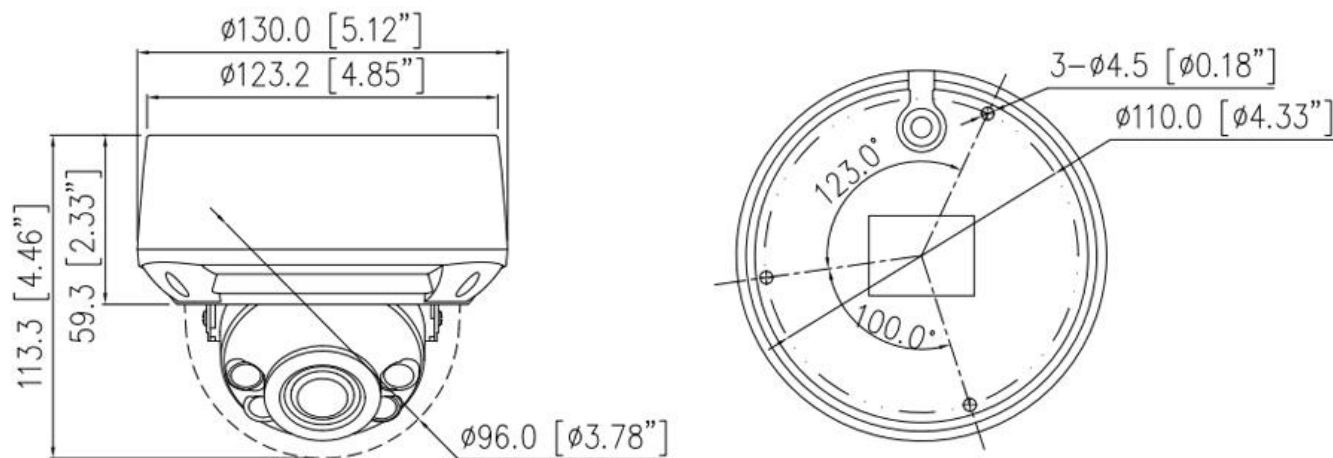
## Interface

|                   |                                            |
|-------------------|--------------------------------------------|
| Network Interface | 1 Ethernet (10/100 Base-T) RJ-45 Connector |
| 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, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: English                                                                                                            |
| Power Supply          | 12 VDC (-10% to +25%)/PoE (802.3af)                                                                                                                                                                                    |
| Power Consumption     | Max. 3.3 W (without IR), Max. 7.2 W (with IR)                                                                                                                                                                          |
| Operating Temperature | -40°C to 60°C (-40°F to 140°F )                                                                                                                                                                                        |
| Operating Humidity    | Less than 90% RH                                                                                                                                                                                                       |
| Ingress Protection    | IP66, IK10                                                                                                                                                                                                             |
| Certifications        | CE-EMC (EN 55032:2015+A1:2020, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A12021, EN 61000-3-3:2013+A2:2021, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014)<br><br>FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014) |
| Material              | Aluminum alloy body, bubble: plastic                                                                                                                                                                                   |
| Dimensions            | φ130 × 113.3 mm (φ5.12 × 4.46 inch)                                                                                                                                                                                    |
| Net Weight            | 0.8 kg (1.76 lb)                                                                                                                                                                                                       |

## Dimensions (mm)



## Accessories

|                                                                                     |                                                                                     |                                                                                     |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |
| RSN-CBK657 Junction Box                                                             | RSN-CBK201 Pendant Cap                                                              | RSN-CBK402 Pendant Mount                                                            | RSN-CBK901 Recessed Mount                                                             |
|  |  |  |  |
| RSN-CBK501 Wall Mount                                                               | RSN-CBK502 Wall Mount                                                               | RSN-CBK101 Pole Mount                                                               | RSN-CBK102 Corner Mount                                                               |