



# 4MP IR Vari-focal Dome Network Camera

## IP-D4MWAIC-WS

### Features

- 1/1.8" 4Megapixel progressive scan CMOS
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- 25/30 fps@2688 × 1520, 50/60 fps@1080P (1920 × 1080)
- WDR (140 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- 2.7 mm-12.0 mm motorized lens
- 1/1 Alarm in/out, 1/1 audio in/out
- Max. IR LEDs Length 40 m
- Micro SD memory, IP67, IK10

### System Overview

Launched by Snappy Technology, Snappy a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, provides precise, reliable and comprehensive AI solutions for verticals.

With starlight solution and deep learning algorithm, Snappy 5 Series network camera has various intelligent functions, including face capture, perimeter protection and people counting, which greatly improve the accuracy of video analysis. The series camera supports dustproof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

### Functions

#### Face Detection

Snappy Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

#### Face Attributes

With deep learning algorithm, the network camera can recognize face attributes, such as gender, age, expression, glasses, mouth mask, and beard.

#### Perimeter Protection

With deep learning algorithm, Snappy Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

#### People Counting

With deep learning algorithm, Snappy People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/daily reports to meet your requirements.

#### ePoE

Snappy ePoE technology provides a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

#### Protection (IP67, IK10, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J).

Wide voltage: The camera allows  $\pm 30\%$  input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

# Technical Specification

| Camera                   |   |            |           |           |          |
|--------------------------|---|------------|-----------|-----------|----------|
| Image Sensor             | 1/1.8" 4Megapixel progressive scan CMOS   |            |           |           |          |
| Effective Pixels         | 2688 (H) × 1520 (V)   |            |           |           |          |
| RAM/ROM                  | 1 GB/128 MB   |            |           |           |          |
| Scanning System          | Progressive   |            |           |           |          |
| Electronic Shutter Speed | Auto/Manual, 1/3 s–1/1000000 s  |            |           |           |          |
| Minimum Illumination     | 0.003 Lux@F1.8  |            |           |           |          |
| IR Distance              | Distance up to 40 m (131')  |            |           |           |          |
| IR On/Off Control        | Auto/Manual   |            |           |           |          |
| IR LEDs                  | 3 (IR LED)  |            |           |           |          |
| S/N Ratio                | > 56 dB   |            |           |           |          |
| Pan/Tilt/Rotation Range  |   |            |           |           |          |
| Pan/Tilt/Rotation Range  | Pan: 0°–355°; Tilt: 0°–65°; Rotation: 0°–355°   |            |           |           |          |
| Lens                     |   |            |           |           |          |
| Lens Type                | Motorized vari-focal  |            |           |           |          |
| Mount Type               | Board-in  |            |           |           |          |
| Focal Length             | 2.7 mm–12.0 mm  |            |           |           |          |
| Max. Aperture            | F1.8  |            |           |           |          |
| Angle of View            | H: 114°–47°, V: 62°–26°   |            |           |           |          |
| Iris Type                | Auto  |            |           |           |          |
| Close Focus Distance     | 1.2 m (3.94')   |            |           |           |          |
| DORI Distance            | Lens  | Detect     | Observe   | Recognize | Identify |
|                          | W   | 58m(190')  | 23m(75')  | 12m(39')  | 6m(20')  |
|                          | T   | 131m(430') | 52m(171') | 26m(85')  | 13m(43') |
| General Intelligence     |   |            |           |           |          |
| Event Trigger            | Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly                                      |            |           |           |          |
| General Intelligence     | Object Abandoned/Missing  |            |           |           |          |
| Heat Map                 | Yes   |            |           |           |          |
| Video                    |   |            |           |           |          |
| Compression              | H.265, H.264, H.264B, H.264H, MJPEG (sub stream)  |            |           |           |          |
| Smart Codec              | Smart H.265+ / Smart H.264+   |            |           |           |          |
| Streaming Capability     | 3 Streams   |            |           |           |          |
| Resolution               | 2688 × 1520/2560 × 1440/2304 × 1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240)      |            |           |           |          |
| Frame Rate               | Main Stream: 2688 × 1520 (1 fps–25/30 fps)<br>2560 × 1440 (1 fps–25/30 fps)<br>1920 × 1080 (1 fps–50/60 fps)  |            |           |           |          |
|                          | Sub Stream: D1 (1 fps–25/30 fps)<br>D1 (1 fps–50/60 fps)  |            |           |           |          |
|                          | Third Stream: 1080P (1 fps–16 fps)  |            |           |           |          |
| Resolution               | 4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) |            |           |           |          |
| Bit Rate Control         | CBR/VBR   |            |           |           |          |
| Bit Rate                 | H.264: 32 Kbps–8192 Kbps  |            |           |           |          |
|                          | H.265: 19 Kbps–8192 Kbps  |            |           |           |          |

|                                      |   |
|--------------------------------------|---|
| Day/Night                            | Auto(ICR)/Color/B/W                     |
| BLC Mode                             | BLC/HLC/WDR (140 dB)                    |
| White Balance                        | Auto/Natural/Street Lamp/Outdoor/Manual |
| Gain Control                         | Auto/Manual                             |
| Noise Reduction                      | 3D DNR                                  |
| Motion Detection                     | Off/On (4 Area, Rectangle)              |
| Region of Interest                   | Off/On (4 Zone)                         |
| Electronic Image Stabilization (EIS) | Yes                                     |
| Defog                                | Yes                                     |
| Smart IR                             | Yes                                     |
| Flip                                 | 0°/90°/180°/270°                        |
| Mirror                               | Off/On                                  |
| Privacy Masking                      | Off/On (4 Area, Rectangle)              |

| Audio       |                                    |
|-------------|------------------------------------|
| Compression | G.711a; G.711Mu; G.726; AAC; G.723 |

| Alarm       |   |
|-------------|---|
| Alarm Event | No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; input abnormal; intensity change; tripwire; intrusion; SMD |

| Network             |  |
|---------------------|--|
| Ethernet            | RJ-45 (10/100 Base-T)  |
| SDK and API         | Yes  |
| Protocol            | IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; SNMP |
| Interoperability    | ONVIF Profile S/Profile G/Profile T, CGI, Milestone, Genetec, P2P  |
| Streaming Method    | Unicast/Multicast  |
| User/Host           | 20 Users   |
| Edge Storage        | NAS; FTP; SFTP; Snappy Cloud; Micro SD card 256 GB   |
| Web Viewer          | IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)  |
| Management Software | Smart PSS, DSS, DMSS   |
| Smart Phone         | iOS, Android   |

| Certification  |  |
|----------------|--|
| Certifications | CE-LVD: EN60950-1<br>CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU<br>FCC: 47 CFR FCC Part 15, Subpart B<br>UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07 |

| Interface       |   |
|-----------------|---|
| Audio Interface | 1/1 channel In/Out                                  |
| Alarm           | 1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC |

| Electrical        |   |
|-------------------|---|
| Power Supply      | DC 12V (±30%), AC 24V (±30%), PoE (802.3af) |
| Power Consumption | <12.4W                                      |

| Environment          |  |
|----------------------|--|
| Operating Conditions | -30°C to +60°C (-22°F to +140°F)/less than 95%RH |
| Storage Conditions   | -40°C to +60°C (-40°F to +140°F)                 |
| Protection Grade     | IP67, IK10                                       |

| Construction |                                      |
|--------------|--------------------------------------|
| Casing       | Metal                                |
| Dimensions   | Φ159.0 mm × 117.9 mm (6.26" × 4.64") |
| Net Weight   | 0.95 kg (2.09 lb)                    |
| Gross Weight | 1.20 kg (2.65 lb)                    |

## Mailing Address

**VOSTOK Trading L.L.C.**  
304, 3rd Floor, Al Tawhidi Building,  
Khaleed Bin Waleed Road,  
P.O. Box: 27106 - Dubai,  
UNITED ARAB EMIRATES.

## Contact Details

Tel: (+971 4) 3558816  
Fax: (+971 4) 3558817  
Email: sales1@snappy.ae /  
sales2@snappy.ae /  
sales3@snappy.ae