

Technical Specification

|                            |                                                                                           |
|----------------------------|-------------------------------------------------------------------------------------------|
| Camera                     |                                                                                           |
| Image Sensor               | 1/2.9" CMOS                                                                               |
| Max. Resolution            | 2560 (H) × 1440 (V)                                                                       |
| ROM                        | 128 MB                                                                                    |
| RAM                        | 128 MB                                                                                    |
| Scanning System            | Progressive                                                                               |
| Electronic Shutter Speed   | Auto/Manual 1/3 s–1/100,000 s                                                             |
| Min. Illumination          | 0.006 lux@F1.6 (Color, 30 IRE)<br>0.0006 lux@F1.6 (B/W, 30 IRE)<br>0 lux (Illuminator on) |
| S/N Ratio                  | >56 dB                                                                                    |
| Illumination Distance      | Up to 30 m (98.43 ft) (IR)<br>Up to 30 m (98.43 ft) (Warm light)                          |
| Illuminator On/Off Control | Auto; Manual                                                                              |
| Illuminator Number         | 1 (Multi-core (IR + warm) light)                                                          |
| Angle Adjustment           | Pan: 0° to 360°<br>Tilt: 0° to 90°<br>Rotation: 0° to 360°                                |

|                      |                                                                   |
|----------------------|-------------------------------------------------------------------|
| Lens                 |                                                                   |
| Lens Type            | Fixed-focal                                                       |
| Lens Mount           | M12                                                               |
| Focal Length         | 2.8 mm; 3.6 mm                                                    |
| Max. Aperture        | F1.6                                                              |
| Field of View        | 2.8 mm: H: 94°; V: 51°; D: 110°<br>3.6 mm: H: 78°; V: 40°; D: 93° |
| Iris Control         | Fixed                                                             |
| Close Focus Distance | 2.8 mm: 1.1 m (3.61 ft)<br>3.6 mm: 1.7 m (5.58 ft)                |

|               |                                                                                                                                                                                                                                                                                                                                                                                 |                        |                        |                       |                      |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|-----------------------|----------------------|
| DORI Distance | Lens                                                                                                                                                                                                                                                                                                                                                                            | Detect                 | Observe                | Recognize             | Identify             |
|               | 2.8 mm                                                                                                                                                                                                                                                                                                                                                                          | 64.0 m<br>( 209.97 ft) | 25.6 m<br>( 83.99 ft)  | 12.8 m<br>( 41.99 ft) | 6.4 m<br>( 21.00 ft) |
|               | 3.6 mm                                                                                                                                                                                                                                                                                                                                                                          | 85.4 m<br>( 280.18 ft) | 34.2 m<br>( 112.20 ft) | 17.1 m<br>( 56.10 ft) | 8.5 m<br>( 27.89 ft) |
|               | *DORI (Detect, Observe, Recognize, 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. For intelligent function distances, refer to installation and commissioning manual/project design tool. |                        |                        |                       |                      |

|                 |                                                                                                                 |
|-----------------|-----------------------------------------------------------------------------------------------------------------|
| Intelligence    |                                                                                                                 |
| Human Detection | Support the classification and accurate detection of human                                                      |
| Smart Search    | Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos |

|                   |                                                                    |
|-------------------|--------------------------------------------------------------------|
| Video             |                                                                    |
| Video Compression | H.265; H.264; H.264H; H.264B; MJPEG (Only supported by sub stream) |

|                          |                                                                                                                                                                                                                                                  |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Smart Codec              | Smart H.265+; Smart H.264+                                                                                                                                                                                                                       |
| Video Frame Rate         | Main stream: 2560 × 1440@(1–25/30 fps)<br>sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)<br>*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity. |
| Stream Capability        | 2 streams                                                                                                                                                                                                                                        |
| Resolution               | 4M (2560 × 1440); 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                                                                                                                                                                                                                                          |
| Video Bit Rate           | H.264: 32 kbps–4096 kbps;<br>H.265: 12 kbps–4096 kbps                                                                                                                                                                                            |
| Day/Night                | Auto(ICR)/Color/B/W                                                                                                                                                                                                                              |
| BLC                      | Yes                                                                                                                                                                                                                                              |
| HLC                      | Yes                                                                                                                                                                                                                                              |
| WDR                      | 120 dB                                                                                                                                                                                                                                           |
| White Balance            | Auto; natural; street lamp; outdoor; manual; regional custom                                                                                                                                                                                     |
| Gain Control             | Auto/Manual                                                                                                                                                                                                                                      |
| Noise Reduction          | 3D NR                                                                                                                                                                                                                                            |
| Motion Detection         | OFF/ON (4 areas, rectangular)                                                                                                                                                                                                                    |
| Region of Interest (RoI) | Yes (4 areas)                                                                                                                                                                                                                                    |
| Smart Illumination       | Yes                                                                                                                                                                                                                                              |
| Smart Dual Light         | Yes                                                                                                                                                                                                                                              |
| Image Rotation           | 0°/180°                                                                                                                                                                                                                                          |
| Mirror                   | Yes                                                                                                                                                                                                                                              |
| Privacy Masking          | 4 areas                                                                                                                                                                                                                                          |

|                   |                             |
|-------------------|-----------------------------|
| Audio             |                             |
| Built-in MIC      | Yes, built-in Mic           |
| Audio Compression | G.711a; G.711Mu; PCM; G.726 |

|             |                                                                                                                                                              |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alarm       |                                                                                                                                                              |
| Alarm Event | No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; SMD (human) |

|                  |                                                                                                                                    |
|------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Network          |                                                                                                                                    |
| Network Port     | RJ-45 (10/100 Base-T)                                                                                                              |
| SDK and API      | Yes                                                                                                                                |
| Network Protocol | IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P; Auto Register |
| Interoperability | ONVIF (Profile S; Profile G; Profile T); CGI                                                                                       |
| User/Host        | 6 (Total bandwidth: 24 M)                                                                                                          |
| Storage          | FTP; Micro SD card (support max. 256 GB)                                                                                           |