



## Features

- Day/night functionality
- Optical glass window with higher light transmittance
- IR anti-reflection window to increase the infrared transmittance
- Smart IR, up to 50m (164ft) IR distance
- Up to 120 dB Optical WDR (Wide Dynamic Range)
- 2D/3D DNR (Digital Noise Reduction)
- Ultra 265, H.265, H.264, MJPEG
- Triple streams
- ROI (Region of Interest)
- 9:16 corridor mode
- ONVIF Conformance
- Support PoE power supply
- Wide temperature range: -35°C ~ 60°C (-31°F ~ 140°F)
- Wide voltage range of  $\pm 25\%$
- IP67
- Constructed of stainless steel 316L
- IP68 ingress protection
- Cable thread M25 x 1.5, or M27 x 1.25
- Sunshield and wiper included

## CERTIFICATES

|                              |                                                        |
|------------------------------|--------------------------------------------------------|
| <b>ATEX Certificate Mark</b> | ExII 2G Ex db IIC T6 Gb,<br>ExII 2D Ex tb IIC T80°C Db |
|------------------------------|--------------------------------------------------------|

## MECHANICAL

|                          |                                              |
|--------------------------|----------------------------------------------|
| <b>Housing</b>           | Stainless steel 316L (also available in 304) |
| <b>Surface</b>           | Optional electro-polish or painting          |
| <b>IP</b>                | IP68 (1.2m/ 45min)                           |
| <b>Cable Thread Hole</b> | M25 x 1.5, or M27 x 1.25                     |

## ELECTRICAL

|                                |                                       |
|--------------------------------|---------------------------------------|
| <b>Voltage</b>                 | AC100V~AC240V or AC24V                |
| <b>Power</b>                   | 15W/25W (with thermostat)             |
| <b>Surge Protect</b>           | Optional, TVS6000V surge protect      |
| <b>Optical Fiber Output</b>    | Optional, multimode or single mode    |
| <b>Optical Video Signal</b>    | 1-way video output                    |
| <b>Optional Network Signal</b> | RJ45                                  |
| <b>Optical Audio</b>           | 1-way input, 1-way output             |
| <b>Optical Alarm</b>           | 2-way alarm input, 1-way alarm output |
| <b>Address Code</b>            | 0/1                                   |
| <b>Trail Cable</b>             | 2m integrated cable                   |

## AMBIENT

|                            |                                                           |
|----------------------------|-----------------------------------------------------------|
| <b>Ambient Temperature</b> | -25°C ~ 60°C / -40°C~60°C [-13°F ~ 140°F / -40°F ~ 140°F] |
| <b>Air Pressure</b>        | 80Kpa to 110Kpa                                           |
| <b>Relative Humidity</b>   | ≤95% (no condensation)                                    |

## COMMUNICATION

|                           |                          |
|---------------------------|--------------------------|
| <b>Communication Type</b> | RS485                    |
| <b>Protocol</b>           | Pelco-D, Pelco-P         |
| <b>Communicate Rate</b>   | 2400~19200bps adjustable |
| <b>485 Communication</b>  | Support                  |

## GENERAL

|                           |                                                      |
|---------------------------|------------------------------------------------------|
| <b>Sunshield</b>          | Yes                                                  |
| <b>Wiper</b>              | Yes                                                  |
| <b>Overall Dimensions</b> | 20.6" x 7" x 8.5" (in) [524 x 179 x 215 (mm)]        |
| <b>Inner Dimensions</b>   | 9.8" x 3" x 3" (in) [250 x 75 x 75 (mm)] (L x W x D) |
| <b>Weight</b>             | 34.2 lbs (15.5 kgs)                                  |

## CAMERA

|                     |                                             |
|---------------------|---------------------------------------------|
| <b>Image Sensor</b> | 1/2", 8.0 megapixel, progressive scan, CMOS |
|---------------------|---------------------------------------------|

|                         |                                                                                                                                |                                                                                                                                                                                                                                        |             |               |              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|--------------|
| Lens                    |                                                                                                                                | 2.8 ~ 12mm, AF automatic focusing and motorized zoom lens                                                                                                                                                                              |             |               |              |
| DORI Distance           | Lens (mm)                                                                                                                      | Detect (m)                                                                                                                                                                                                                             | Observe (m) | Recognize (m) | Identify (m) |
|                         | 2.8                                                                                                                            | 63                                                                                                                                                                                                                                     | 25.2        | 12.6          | 6.3          |
|                         | 12                                                                                                                             | 270                                                                                                                                                                                                                                    | 108         | 54            | 27           |
| Angle of View (H)       |                                                                                                                                | 114.8° ~ 47.3°                                                                                                                                                                                                                         |             |               |              |
| Angle of View (V)       |                                                                                                                                | 75.3° ~ 20.4°                                                                                                                                                                                                                          |             |               |              |
| Angle of View (O)       |                                                                                                                                | 141.2° ~ 55.8°                                                                                                                                                                                                                         |             |               |              |
| Adjustment angle        |                                                                                                                                | Pan: 0° ~ 360°; Tilt: 0° ~ 90°; Rotate: 0° ~ 360°                                                                                                                                                                                      |             |               |              |
| Shutter                 |                                                                                                                                | Auto/Manual, 1 ~ 1/100000s                                                                                                                                                                                                             |             |               |              |
| Minimum Illumination    |                                                                                                                                | Color: 0.003Lux (F1.5, AGC ON) 0Lux with IR on                                                                                                                                                                                         |             |               |              |
| Day/Night               |                                                                                                                                | IR-cut filter with auto switch (ICR)                                                                                                                                                                                                   |             |               |              |
| Digital noise reduction |                                                                                                                                | 2D/3D DNR                                                                                                                                                                                                                              |             |               |              |
| S/N                     |                                                                                                                                | >52dB                                                                                                                                                                                                                                  |             |               |              |
| IR Range                |                                                                                                                                | Up to 50m (164ft) IR range                                                                                                                                                                                                             |             |               |              |
| Defog                   |                                                                                                                                | Digital Defog                                                                                                                                                                                                                          |             |               |              |
| WDR                     |                                                                                                                                | 120dB                                                                                                                                                                                                                                  |             |               |              |
| VIDEO                   |                                                                                                                                |                                                                                                                                                                                                                                        |             |               |              |
| Video Compression       |                                                                                                                                | Ultra 265, H.265, H.264, MJPEG                                                                                                                                                                                                         |             |               |              |
| Frame Rate              |                                                                                                                                | Main Stream: 8MP (3840*2160), Max 20fps; 5MP (2592*1944), Max 30fps; 5MP (2944*1656), Max 30fps; 4MP (2560*1440), Max 30fps; 2MP (1920*1080), Max 30fps; Sub Stream: 2MP (1920*1080), Max 30fps; Third Stream: D1 (720*576), Max 30fps |             |               |              |
| 9:16 Corridor Mode      |                                                                                                                                | Supported                                                                                                                                                                                                                              |             |               |              |
| HLC                     |                                                                                                                                | Supported                                                                                                                                                                                                                              |             |               |              |
| BLC                     |                                                                                                                                | Supported                                                                                                                                                                                                                              |             |               |              |
| OSD                     |                                                                                                                                | Up to 8 OSDs                                                                                                                                                                                                                           |             |               |              |
| Privacy Mask            |                                                                                                                                | Up to 8 areas                                                                                                                                                                                                                          |             |               |              |
| ROI                     |                                                                                                                                | Up to 8 areas                                                                                                                                                                                                                          |             |               |              |
| Motion Detection        |                                                                                                                                | Up to 4 areas                                                                                                                                                                                                                          |             |               |              |
| AUDIO                   |                                                                                                                                |                                                                                                                                                                                                                                        |             |               |              |
| Audio Compression       |                                                                                                                                | G.711                                                                                                                                                                                                                                  |             |               |              |
| Two-way audio           |                                                                                                                                | Supported                                                                                                                                                                                                                              |             |               |              |
| Suppression             |                                                                                                                                | Supported                                                                                                                                                                                                                              |             |               |              |
| Sampling Rate           |                                                                                                                                | 8KHZ                                                                                                                                                                                                                                   |             |               |              |
| STORAGE                 |                                                                                                                                |                                                                                                                                                                                                                                        |             |               |              |
| Edge Storage            | Micro SD, up to 256GB                                                                                                          |                                                                                                                                                                                                                                        |             |               |              |
| Network Storage         | ANR                                                                                                                            |                                                                                                                                                                                                                                        |             |               |              |
| NETWORK                 |                                                                                                                                |                                                                                                                                                                                                                                        |             |               |              |
| Protocols               | IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS |                                                                                                                                                                                                                                        |             |               |              |
| Compatible Integration  | ONVIF (Profile S, Profile G, Profile T), API                                                                                   |                                                                                                                                                                                                                                        |             |               |              |

|                               |                                             |
|-------------------------------|---------------------------------------------|
| <b>Audio I/O</b>              | Audio cable                                 |
|                               | Input: impedance 35kΩ; amplitude 2V [p-p]   |
|                               | Output: impedance 600Ω; amplitude 2V [p-p]  |
| <b>Alarm I/O</b>              | 1/1                                         |
| <b>Network</b>                | 1 RJ45 10M/100M Base-TX Ethernet            |
| <b>Video Output</b>           | 1 BNC, impedance 75Ω; amplitude 1V [p-p]    |
| <b>NETWORK</b>                |                                             |
| <b>Power</b>                  | DC 12V±25%, PoE (IEEE 802.3af)              |
| <b>Power Consumption</b>      | Max 10W                                     |
| <b>Dimensions (L × W × H)</b> | 253.4 × 86.4 × 78.7mm (57.6" × 3.4" × 2.8") |
| <b>Weight</b>                 | 1.0kg (2.2lb)                               |
| <b>Working Temperature</b>    | -35°C ~ 60°C (-31°F ~ 140°F),               |
| <b>Working Humidity</b>       | ≤95% RH (non-condensing)                    |
| <b>Ingress Protection</b>     | IP67                                        |

## Optional Accessories



|                     |                               |
|---------------------|-------------------------------|
| <b>Wall Bracket</b> | 2MEWB04 (304); 2MEWB16 (316L) |
|---------------------|-------------------------------|

## ATEX Markings Breakdown

