

## DS-2CD3348G2-LIS(U) 4 MP Dual Illumination Fixed Turret Network Camera

# HEOP



- High quality imaging with 4 MP resolution
- Smart Dual-Light: advanced technology with long range
- Clear imaging against strong back light due to 120 dB WDR technology
- Efficient H.265+ compression technology
- Focus on human and vehicle classification based on deep learning
- -U: Built-in microphone for real-time audio security
- Water and dust resistant (IP67)

## ▪ Specification

| Camera                  |                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor            | 1/3" Progressive Scan CMOS                                                                                                                                                               |
| Max. Resolution         | 2688 × 1520                                                                                                                                                                              |
| Min. Illumination       | Color: 0.001 Lux @ (F1.0, AGC ON), 0 Lux with light                                                                                                                                      |
| Shutter Time            | 1/3 s to 1/100,000 s                                                                                                                                                                     |
| Day & Night             | IR cut filter                                                                                                                                                                            |
| Angle Adjustment        | Pan: 0° to 360°, tilt: 0° to 75°, rotate: 0° to 360°                                                                                                                                     |
| Lens                    |                                                                                                                                                                                          |
| Lens Type               | Fixed focal lens, 2.8 and 4 mm optional                                                                                                                                                  |
| Focal Length & FOV      | 2.8 mm, horizontal FOV 100.2°, vertical FOV 54.7°, diagonal FOV 119.7°<br>4 mm, horizontal FOV 81.1°, vertical FOV 44.7°, diagonal FOV 94.6°                                             |
| Lens Mount              | M12                                                                                                                                                                                      |
| Iris Type               | Fixed                                                                                                                                                                                    |
| Aperture                | F1.0                                                                                                                                                                                     |
| Depth of Field          | 2.8 mm: 1.9 m to ∞<br>4 mm: 2.5 m to ∞                                                                                                                                                   |
| DORI                    |                                                                                                                                                                                          |
| DORI                    | 2.8mm: D: 63 m, O: 25 m, R: 12 m, I: 6 m<br>4mm: D: 78 m, O: 31 m, R: 15 m, I: 7 m                                                                                                       |
| Illuminator             |                                                                                                                                                                                          |
| Supplement Light Type   | IR, White Light                                                                                                                                                                          |
| Supplement Light Range  | Up to 40 m                                                                                                                                                                               |
| Smart Supplement Light  | Yes                                                                                                                                                                                      |
| IR Wavelength           | 850 nm                                                                                                                                                                                   |
| HEOP                    |                                                                                                                                                                                          |
| Open Resources          | Memory: 60 MB,<br>Smart RAM: 400 MB,<br>eMMC: 2 GB                                                                                                                                       |
| Computing Power         | 1.5 TOPS                                                                                                                                                                                 |
| Open Capability         | HEOP 2.0 OpendevSDK                                                                                                                                                                      |
| Deep Learning Structure | Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX                                                                                                                                           |
| Programming Language    | C, C++                                                                                                                                                                                   |
| Video                   |                                                                                                                                                                                          |
| Main Stream             | 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)<br>60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)                                                                             |
| Sub-Stream              | 50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)<br>60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)                                                                                     |
| Third Stream            | 50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)<br>60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)<br>*The third stream is supported under certain settings. |
| Fourth Stream           | 50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)<br>60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)<br>*The fourth stream is supported under certain settings.                          |

|                             |                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video Compression           | Main stream: H.265/H.264/H.264+/H.265+,<br>Sub-stream: H.265/H.264/MJPEG,<br>Third stream: H.265/H.264,<br>Fourth stream: H.265/H.264/MJPEG,<br>*The third stream and the fourth stream are supported under certain settings.                                                                                                                                                         |
| Video Bit Rate              | 32 Kbps to 8 Mbps                                                                                                                                                                                                                                                                                                                                                                     |
| H.264 Type                  | Baseline Profile, Main Profile, High Profile                                                                                                                                                                                                                                                                                                                                          |
| H.265 Type                  | Main Profile                                                                                                                                                                                                                                                                                                                                                                          |
| Bit Rate Control            | CBR, VBR                                                                                                                                                                                                                                                                                                                                                                              |
| Scalable Video Coding (SVC) | H.264 and H.265 encoding                                                                                                                                                                                                                                                                                                                                                              |
| Region of Interest (ROI)    | 5 fixed regions for main stream and sub-stream                                                                                                                                                                                                                                                                                                                                        |
| Target Cropping             | Yes                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Audio</b>                |                                                                                                                                                                                                                                                                                                                                                                                       |
| Audio Compression           | G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC                                                                                                                                                                                                                                                                                                                                              |
| Audio Bit Rate              | 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)                                                                                                                                                                                                                                                     |
| Audio Sampling Rate         | 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz, 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz                                                                                                                                                                                                                                                                                                              |
| Environment Noise Filtering | Yes                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Network</b>              |                                                                                                                                                                                                                                                                                                                                                                                       |
| Protocols                   | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SFTP, ARP, SNMP, WebSocket, WebSockets, SRTP                                                                                                                                                                                                |
| Simultaneous Live View      | Up to 6 channels                                                                                                                                                                                                                                                                                                                                                                      |
| API                         | Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP                                                                                                                                                                                                                                                                                                      |
| User/Host                   | Up to 32 users<br>3 user levels: administrator, operator, and user                                                                                                                                                                                                                                                                                                                    |
| Security                    | Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.1/1.2/1.3, host authentication (MAC address) |
| Network Storage             | NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR),<br>Together with high-end Hikvision memory card, memory card encryption and health detection are supported.                                                                                                                                                                                                                    |
| Client                      | iVMS-4200, Hik-Connect, Hik-Central                                                                                                                                                                                                                                                                                                                                                   |
| Web Browser                 | Plug-in required live view: IE 10, IE 11,<br>Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+,<br>Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+                                                                                                                                                                                                                   |
| <b>Image</b>                |                                                                                                                                                                                                                                                                                                                                                                                       |
| Image Parameters Switch     | Yes                                                                                                                                                                                                                                                                                                                                                                                   |
| Image Settings              | Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance, adjustable by client software or web browser                                                                                                                                                                                                                                                           |
| Day/Night Switch            | Day, Night, Auto, Schedule                                                                                                                                                                                                                                                                                                                                                            |
| Image Enhancement           | BLC, HLC, 3D DNR                                                                                                                                                                                                                                                                                                                                                                      |
| SNR                         | ≥ 52 dB                                                                                                                                                                                                                                                                                                                                                                               |
| Wide Dynamic Range (WDR)    | 120 dB                                                                                                                                                                                                                                                                                                                                                                                |

|                                  |                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Privacy Mask                     | 4 programmable polygon privacy masks                                                                                                                                                                                                                                                                                                                  |
| <b>Interface</b>                 |                                                                                                                                                                                                                                                                                                                                                       |
| Ethernet Interface               | 1 RJ45 10 M/100 M self-adaptive Ethernet port                                                                                                                                                                                                                                                                                                         |
| On-Board Storage                 | Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB                                                                                                                                                                                                                                                                     |
| Built-in Microphone              | -U: Yes                                                                                                                                                                                                                                                                                                                                               |
| Audio                            | 1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 K $\Omega$ , interface type: non-equilibrium,<br>1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 $\Omega$ , interface type: non-equilibrium                                                       |
| Alarm                            | 1 input, 1 output (max. 12 VDC, 30 mA)                                                                                                                                                                                                                                                                                                                |
| Reset Key                        | Yes                                                                                                                                                                                                                                                                                                                                                   |
| Power Output                     | 12 VDC, max. 100 mA                                                                                                                                                                                                                                                                                                                                   |
| <b>Event</b>                     |                                                                                                                                                                                                                                                                                                                                                       |
| Basic Event                      | Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception                                                                                                                                                                                                                           |
| Linkage                          | Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger recording, trigger capture, trigger alarm output, audible warning                                                                                                                                                                                                      |
| Smart Event                      | Line crossing detection, intrusion detection, region entrance detection, region exiting detection (support alarm triggered by specified target types (human and vehicle)), scene change detection, audio exception detection, defocus detection                                                                                                       |
| <b>Deep Learning Function</b>    |                                                                                                                                                                                                                                                                                                                                                       |
| Face Capture                     | Yes                                                                                                                                                                                                                                                                                                                                                   |
| People Counting                  | Yes                                                                                                                                                                                                                                                                                                                                                   |
| <b>General</b>                   |                                                                                                                                                                                                                                                                                                                                                       |
| Power                            | 12 VDC $\pm$ 25%, 0.66 A, max. 8 W, $\varnothing$ 5.5 mm coaxial power plug, reverse polarity protection,<br>PoE: IEEE 802.3af, Class 3, max. 10 W                                                                                                                                                                                                    |
| Material                         | Cover: Metal, main body: Metal                                                                                                                                                                                                                                                                                                                        |
| Dimension                        | $\varnothing$ 127.3 mm $\times$ 96.3 mm ( $\varnothing$ 5" $\times$ 3.8")                                                                                                                                                                                                                                                                             |
| Package Dimension                | 150 mm $\times$ 150 mm $\times$ 141 mm (5.9" $\times$ 5.9" $\times$ 5.6")                                                                                                                                                                                                                                                                             |
| Weight                           | Approx. 550 g (1.2 lb.)                                                                                                                                                                                                                                                                                                                               |
| With Package Weight              | Approx. 800 g (1.8 lb.)                                                                                                                                                                                                                                                                                                                               |
| Storage Conditions               | -30 $^{\circ}$ C to 60 $^{\circ}$ C (-22 $^{\circ}$ F to 140 $^{\circ}$ F). Humidity 95% or less (non-condensing)                                                                                                                                                                                                                                     |
| Startup and Operating Conditions | -30 $^{\circ}$ C to 60 $^{\circ}$ C (-22 $^{\circ}$ F to 140 $^{\circ}$ F). Humidity 95% or less (non-condensing)                                                                                                                                                                                                                                     |
| General Function                 | Heartbeat, mirror, anti-banding, flash log, password reset via email, pixel counter                                                                                                                                                                                                                                                                   |
| Language                         | 33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian |
| <b>Approval</b>                  |                                                                                                                                                                                                                                                                                                                                                       |
| EMC                              | FCC: 47 CFR Part 15, Subpart B,<br>CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN 50130-4: 2011 +A1: 2014,<br>RCM: AS/NZS CISPR 32: 2015,<br>IC: ICES-003: Issue 7                                                                                                                                                         |

|             |                                                                                                                                                                |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety      | UL: UL 62368-1,<br>CB: IEC 62368-1: 2014+A11,<br>CE-LVD: EN 62368-1: 2014/A11: 2017,<br>BIS: IS 13252 (Part 1): 2010/IEC 60950-1: 2005,<br>LOA: IEC/EN 60950-1 |
| Environment | CE-RoHS: 2011/65/EU                                                                                                                                            |
| Protection  | IP67: IEC 60529-2013                                                                                                                                           |

## ▪ Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has NO SPECIFIC PROTECTION.

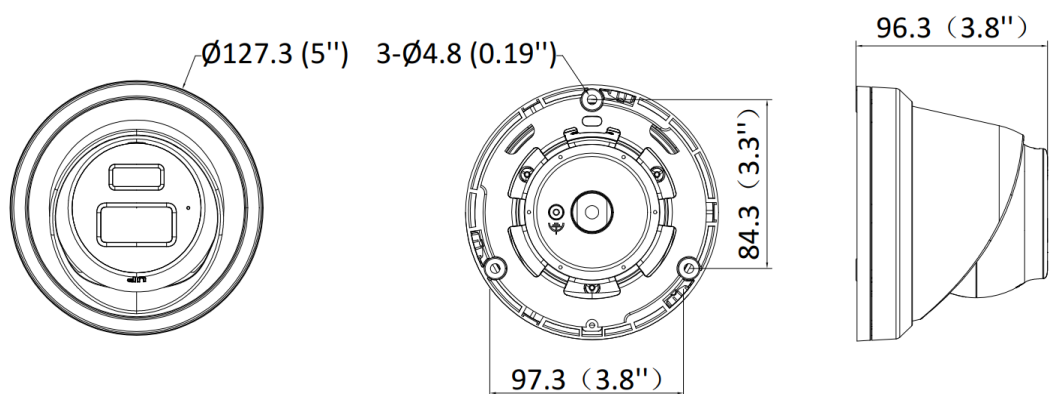
| Level                  | Description                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Top-level protection   | Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.                                             |
| Moderate protection    | Hikvision products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain. |
| No specific protection | Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.                                                                                                                                  |

## ▪ Available Model

DS-2CD3348G2-LISU (2.8/4 mm)

DS-2CD3348G2-LIS (2.8/4 mm)

## ▪ Dimension



Unit: mm (inch)

## ▪ Accessory

### ▪ Optional

| CM<br>Corner Mount                                                                 | CPM+PC130T<br>Pendant Mount                                                       | WML+PC130T<br>Wall Mount                                                          | CB130T<br>Junction box                                                              | ABM<br>Inclined Ceiling Mount                                                       |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|   |  |  |  |  |
| <b>PM<br/>Vertical Pole Mount</b>                                                  |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|  |                                                                                   |                                                                                   |                                                                                     |                                                                                     |

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