

## DS-2CD5546G0-IZ(H)SY 4 MP IR Varifocal Dome Network Camera

**DarkFighter** ✦



- 1/1.8" Progressive Scan CMOS
- 2560 × 1440 @ 30fps
- MJPEG up to 1920 × 1080 @ 30fps
- 2.8 to 12 mm motorized lens
- Color: 0.002 Lux @ (F1.2, AGC ON), 0 Lux with IR
- H.265, H.265+, H.264, H.264+
- 140dB WDR
- IR range up to 30 m
- Alarm 1 input/1 output, audio 1 input/1 output
- Anti-Corrosion: NEMA 4X
- Anti-IR Reflection
- 5 streams and up to 5 custom streams
- 6 behavior analyses, 3 exception detection, and face detection
- Built-in microSD/SDHC/SDXC card slot, up to 256 GB
- Metadata of intrusion detection, line crossing detection, region entrance detection, region exiting detection, unattended baggage detection, and object removal are supported.



## Function

### Smooth Streaming

Smooth streaming offers solutions to improve the video quality in different network conditions. For example, in poor network conditions, adapting to the detected real-time network condition, streaming bit rate and resolution are automatically adjusted to avoid mosaic and lower latency in live view; in multiplayer network conditions, the camera transmits the redundant data for the self-error correcting in back-end device, so that to solve the mosaic problem because of the packet loss and error rate.

### Metadata

Metadata uses individual instances of application data or the data content. Metadata can be used for third-party application development.

### Power Protection

The camera supports a wide voltage range of 10 VDC to 48 VDC. If the voltage instability occurs, the camera still works properly. The camera supports reverse polarity protection which can avoid the camera malfunction caused by false operation.

### Anti-Reflection Bubble

This anti-reflection bubble design avoids the IR reflection of the raindrop and dust on the bubble and improves the image quality.

### Anti-Corrosion Coating

The camera adopts high weatherproof and wearproof molding powder that confirms to AAMA2604-02 and Qualicoat (Class2) specifications, and uses two-layer special spraying technology, so its surface has excellent long-term anti-corrosion performance and physical protection function. Besides, all the exposed screws use SUS316L material and features high anti-corrosion performance. Therefore, the whole camera meets anti-corrosion requirements NEMA4X.

## Specifications

| Camera            |  |
|-------------------|--|
| Image Sensor      | 1/1.8" Progressive Scan CMOS   |
| Min. Illumination | Color: 0.002 Lux @ (F1.2, AGC ON), 0 Lux with IR   |
| Shutter Speed     | 1 s to 1/100,000 s   |
| Slow Shutter      | Yes  |
| Day & Night       | IR Cut Filter  |
| WDR               | 140 dB   |
| Angle Adjustment  | Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°   |
| Lens              |  |
| Lens Type         | Motorized lens, 2.8 to 12 mm   |
| Aperture          | F1.2 to 2.5  |
| Focus             | Auto, semi-auto, manual  |
| Auto-Iris         | P-iris   |
| FOV               | Horizontal FOV 109.2° to 38.9°, vertical FOV 56.2° to 21.9°, diagonal FOV 134.5° to 45°  |
| Lens Mount        | Integrated   |
| Illuminator       |  |
| IR Range          | Up to 30 m   |
| Wavelength        | 850 nm   |
| Video             |  |
| Max. Resolution   | 2560 × 1440  |
| Video Stream      | 5 defined streams and up to 5 custom stream  |
| Main Stream       | 50Hz: 25fps (2560 × 1440, 1920 × 1080, 1280 × 720)<br>60Hz: 30fps (2560 × 1440, 1920 × 1080, 1280 × 720)                         |
| Sub Stream        | 50Hz: 25fps (704 × 576, 640 × 480)<br>60Hz: 30fps (704 × 480, 640 × 480)   |
| Third Stream      | 50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)<br>60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)       |
| Fourth Stream     | 50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)<br>60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)       |
| Fifth Stream      | 50Hz: 25fps (704 × 576, 640 × 480)<br>60Hz: 30fps (704 × 480, 640 × 480)   |
| Custom Stream     | 50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)<br>60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)       |
| Video Compression | Main stream: H.265+/H.265/H.264+/H.264<br>Sub stream/third stream/fourth stream/fifth stream/custom stream:<br>H.265/H.264/MJPEG |
| H.264 Type        | Baseline Profile/Main Profile/High Profile   |
| H.264+            | Main stream support  |
| H.265 Type        | Main Profile   |
| H.265+            | Main stream supports   |

|                             |  |
|-----------------------------|--|
| Video Bit Rate              | 32 Kbps to 16 Mbps   |
| Scalable Video Coding (SVC) | H.264 and H.265 encoding   |
| <b>Audio</b>                |  |
| Audio Compression           | G.711/G.722.1/G.726/MP2L2/PCM/MP3  |
| Audio Bit Rate              | 64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/32Kbps(PCM)/8-320Kbps(MP3)   |
| Environment Noise Filtering | Yes  |
| Audio Sampling Rate         | 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz  |
| <b>Smart Feature-Set</b>    |  |
| Smart Event                 | Line crossing detection, up to 4 lines configurable<br>Intrusion detection, up to 4 regions configurable<br>Region entrance detection, up to 4 regions configurable<br>Region exiting detection, up to 4 regions configurable<br>Unattended baggage detection, up to 4 regions configurable<br>Object removal detection, up to 4 regions configurable<br>Face detection: detects faces and upload images<br>Scene change detection, audio exception detection, defocus detection |
| Basic Event                 | Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)   |
| Statistics                  | Counting   |
| Linkage Method              | Trigger recording: memory card, network storage, pre-record and post-record<br>Trigger captured pictures uploading: FTP, SFTP, HTTP, NAS, Email<br>Trigger notification: HTTP, ISAPI, alarm output, Email  |
| Region of Interest          | Main stream/sub stream/third stream/fourth stream/fifth stream: 4 fixed region for each stream and dynamic face tracking   |
| <b>Image</b>                |  |
| Image Enhancement           | BLC, HLC, 3D DNR, Defog, EIS, distortion correction  |
| Image Setting               | Rotate mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by client software or web browser  |
| Target Cropping             | Yes  |
| Day/Night Switch            | Day/Night/Auto/Schedule/Triggered by Alarm In  |
| Picture Overlay             | LOGO picture can be overlaid on video with 128 × 128 24bit bmp format  |
| SNR                         | ≥52dB  |
| <b>Network</b>              |  |
| Network Storage             | microSD/SDHC/SDXC card (256 GB), local storage and NAS (NFS,SMB/CIFS), ANR<br>Together with high-end Hikvision memory card, memory card encryption and health detection are supported.   |
| Protocols                   | TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS   |
| API                         | ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, Ehome   |
| Smooth Streaming            | Yes  |

|                                  |   |
|----------------------------------|---|
| 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 ONVIF, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.2, TLS1.0, TLS1.1   |
| Simultaneous Live View           | Up to 20 channels   |
| User/Host                        | Up to 32 users. 3 user levels: administrator, operator and user   |
| Client                           | iVMS-4200, Hik-Connect, Hik-Central   |
| Web Browser                      | Plug-in required live view: IE8+<br>Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+<br>Local service: Chrome57.0+, Firefox52.0+   |
| <b>Interface</b>                 |   |
| Audio                            | 1-ch 3.5 mm input (line in), 1-ch 3.5 mm output (line out), mono  |
| Communication Interface          | 1 RJ45 10M/100M/1000M Ethernet port   |
| Alarm                            | 1 input, 1 output (max. 24 VDC/VAC, 1A max.)  |
| Video Output                     | 1Vp-p composite output (75 Ω/CVBS), only for adjustment   |
| Power Output                     | 12 VDC, max. 200 mA   |
| On-board storage                 | Built-in micro SD/SDHC/SDXC slot, up to 256 GB  |
| <b>General</b>                   |   |
| Firmware Version                 | 5.6.0   |
| Web Client Language              | 32 languages<br>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)  |
| Embedded Open Platform           | Yes. The camera supports installation and running up to 4 extra applications.   |
| General Function                 | Anti-flicker, 5 streams and up to 5 custom streams, heartbeat, mirror, privacy masks, flash log, password reset via e-mail, pixel counter, HTTP listening   |
| Reset                            | Reset via reset button on camera body, web browser and client software  |
| Startup and Operating Conditions | -IZSY: -30 °C to 65 °C (-22 °F to 149 °F), humidity 95% or less (non-condensing)<br>-IZHSY: -40 °C to 65 °C (-40 °F to 149 °F), humidity 95% or less (non-condensing)   |
| Storage Conditions               | -30 °C to 65 °C (-22 °F to 149 °F), humidity 95% or less (non-condensing)   |
| Power Supply                     | 12 VDC is recommended, 10 to 48 VDC; reverse polarity protection; two-core terminal block; PoE (802.3at, class 4)   |
| Power Consumption and Current    | -IZSY:<br>With extra load: 12 VDC, 1.27 A, max. 15.2 W; PoE (802.3at, 42.5 V to 57 V), 0.36 A to 0.27 A, class 4<br>Without extra load: 12 VDC, 1.05 A, max. 12.6 W; PoE (802.3at, 42.5 V to 57 V), 0.3 A to 0.23 A, class 4<br>-IZHSY:<br>With extra load: 12 VDC, 1.4 A, max. 17 W; PoE (802.3at, 42.5 V to 57 V), 0.4 A to 0.3 A, class 4<br>Without extra load: 12 VDC, 1.2 A, max. 15 W; PoE (802.3at, 42.5 V to 57 V), 0.4 A to 0.3 A, class 4<br>"With extra load" means that an extra device is connected to and powered by the |

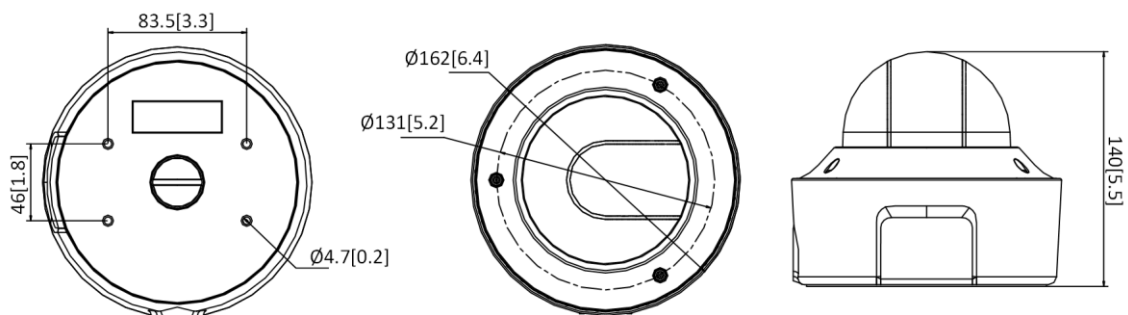
|                 |   |
|-----------------|---|
|                 | camera.   |
| Heater          | -H: yes   |
| Material        | Metal   |
| Sustainability  | PVC FREE  |
| Dimensions      | Camera: $\Phi 162 \times 140$ mm ( $\Phi 6.4'' \times 5.5''$ )<br>With package: $251 \times 215 \times 189$ mm ( $9.9'' \times 8.5'' \times 7.4''$ )                                    |
| Weight          | Camera: 1.5kg (3.31 lb.)<br>With package: 1.95kg (4.3 lb.)  |
| <b>Approval</b> |   |
| EMC             | 47 CFR Part 15, Subpart B; EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014; AS/NZS CISPR 32: 2015; ICES-003: Issue 6, 2016; KN 32: 2015, KN 35: 2015 |
| Safety          | UL 60950-1, IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, EN 60950-1:2005 + Am 1:2009 + Am 2:2013, IS 13252(Part 1):2010+A1:2013+A2:2015  |
| Chemistry       | 2011/65/EU, 2012/19/EU, Regulation (EC) No 1907/2006  |
| Protection      | Ingress protection: IK10 (IEC 62262:2002), IP67 (IEC 60529-2013); Anti-Corrosion: NEMA 4X: NEMA 250-2014  |

\* Listed resolutions are only selectable options. It does not mean that all streams can work at their maximum resolution at the same time.

## Available Model

DS-2CD5546G0-IZSY (2.8 to 12 mm), DS-2CD5546G0-IZHSY (2.8 to 12 mm)

## Dimension



## Accessory



**DS-1471ZJ-155-Y**  
Wall Mount



**DS-1473ZJ-155-Y**  
Pendant Mount



**DS-1475ZJ-Y**  
Vertical Pole Mount



**DS-1476ZJ-Y**  
Corner Mount



**DS-1227ZJ-DM42**  
In-Ceiling Mount

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