

DS-2CD5A46G0-IZ/UH 4 MP Varifocal Bullet Network Camera

DarkFighter



- 1/1.8" Progressive Scan CMOS
- 2560 × 1440 @ 30 fps
- 2.8 to 12 mm motorized lens
- H.265, H.265+, H.264, H.264+
- 5 defined streams and up to 5 custom streams
- 120dB WDR
- IP67
- 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.
- The camera adopts low-temperature resistant material. It can set up and work properly under the environment of -60 °C (-76 °F) by using the temperature control method to heat the chip and sensor components, and improving camera 's internal heating cycle design. The camera also supports front glass heating and defog function.



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.

Specifications

| Camera | |
|-----------------------------|---|
| Image Sensor | 1/1.8" Progressive Scan CMOS |
| Min. Illumination | Color: 0.0036 Lux @ (F1.6, AGC ON), 0 Lux with IR |
| Shutter Speed | 1 s to 1/100,000 s |
| Slow Shutter | Yes |
| Day & Night | IR Cut Filter |
| Wide Dynamic Range | 120 dB |
| Angle Adjustment | Bracket, pan: 0° to 355°, tilt: 0° to 90°, rotate: 0° to 360° |
| Lens | |
| Lens Type | Motorized lens, 2.8 to 12 mm |
| Aperture | F1.6 |
| Focus | Semi-auto |
| FOV | Horizontal FOV 103.9° to 44.3°, vertical FOV 56.3° to 24.8°, diagonal FOV 122° to 51° |
| Lens Mount | Ø14 |
| Illuminator | |
| IR Range | Up to 50 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) 60Hz: 30fps (2560 × 1440, 1920 × 1080, 1280 × 720) |
| Sub Stream | 50Hz: 25fps (704 × 576, 640 × 480) 60Hz: 30fps (704 × 480, 640 × 480) |
| Third Stream | 50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480) |
| Fourth Stream | 50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480) |
| Fifth Stream | 50Hz: 25fps (704 × 576, 640 × 480) 60Hz: 30fps (704 × 480, 640 × 480) |
| Custom Stream | 50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480) |
| Video Compression | Main stream: H.265/H.264/H.265+/H.264+ Sub stream/third stream/fourth stream/fifth stream/custom stream: H.265/H.264/MJPEG |
| H.264 Type | Baseline Profile/Main Profile/High Profile |
| H.264+ | Main stream supports |
| H.265 Type | Main Profile |
| H.265+ | Main stream supports |
| Video Bit Rate | 32 Kbps to 16 Mbps |
| Scalable Video Coding (SVC) | H.265 and H.264 support |
| Smart Feature-set | |

| | |
|-------------------------|---|
| Smart Event | Line crossing detection, up to 4 lines configurable Intrusion detection, up to 4 regions configurable Region entrance detection, up to 4 regions configurable Region exiting detection, up to 4 regions configurable Unattended baggage detection, up to 4 regions configurable Object removal detection, up to 4 regions configurable Face detection: detects faces and upload images Scene change 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 | Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger recording, trigger capture |
| Region of Interest | Main stream/sub stream/third stream/fourth stream/fifth stream: 4 fixed regions for each stream and dynamic face tracking |
| Image | |
| 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 |
| Picture Overlay | LOGO picture can be overlaid on video with 128 × 128 24bit bmp format |
| Network | |
| Network Storage | microSD/SDHC/SDXC card (256 GB), local storage and NAS (NFS, SMB/CIFS), ANR Together with high-end Hikvision memory card, memory card encryption and health detection are supported. |
| API | ONVIF (PROFILE S, PROFILE G), ISAPI, SDK |
| Protocols | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS |
| Smooth Streaming | Yes |
| Security Measures | 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 |
| 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+, Chrome 41.0-44, Mozilla Firefox30.0-51, Safari8.0-11 Plug-in free live view: Chrome 45+, Mozilla Firefox52+ |
| Interface | |
| Communication Interface | 1 RJ45 10M/100M/1000M Ethernet port |
| Video Output | 1Vp-p composite output (75 Ω/CVBS), only for adjustment |
| On-board storage | Built-in micro SD/SDHC/SDXC slot, up to 256 GB |
| General | |
| Firmware Version | 5.5.92 |
| Web Client Language | 32 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) |
| Embedded Open Platform | Yes. The camera supports installation and running up to 4 extra applications. |

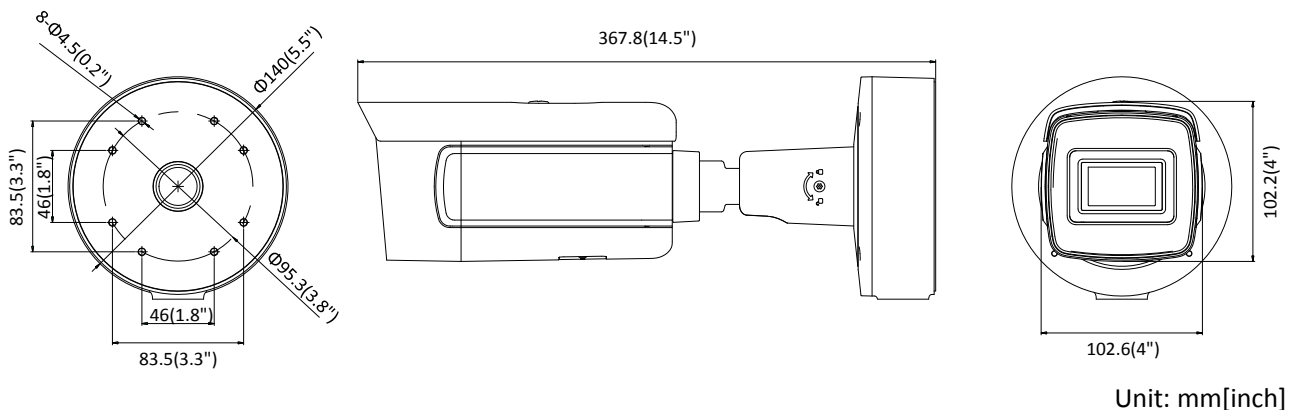
| | |
|----------------------------------|--|
| General Function | Anti-flicker, 5 streams and up to 5 custom streams, heartbeat, mirror, password protection, privacy mask, flash log, password reset via e-mail, pixel counter, control timeout setting |
| Reset | Reset via reset button on camera body, web browser and client software |
| Startup and Operating Conditions | -60 °C to 60 °C (-76 °F to 140 °F), humidity 95% or less (non-condensing) |
| Storage Conditions | -30 °C to 60 °C (-22 °F to 140 °F), humidity 95% or less (non-condensing) |
| Power Supply | 12 VDC \pm 10%, three-core terminal block, reverse polarity protection |
| Power Consumption and Current | 12 VDC, 3.84 A, max. 46 W |
| Heater | Yes |
| Material | Metal |
| Dimensions | Camera: $\Phi 140 \times 368$ mm ($\Phi 5.5'' \times 14.5''$) With package: $405 \times 190 \times 180$ mm ($15.9'' \times 7.5'' \times 7.1''$) |
| Weight | Camera: approx. 1.9 kg (5.1 lb.) With package: approx. 2.45 kg (6.6 lb.) |
| Approval | |
| 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 |
| Safety | EN 60950-1:2005 + Am 1:2009 + Am 2:2013 |
| Chemistry | 2011/65/EU, 2012/19/EU, Regulation (EC) No 1907/2006 |
| Protection | Ingress protection: IP67 (IEC 60529-2013) |

* 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-2CD5A46G0-IZ/UH (2.8 to 12 mm)

Dimension



Accessory



DS-1475ZJ-SUS
Vertical Pole Mount



DS-1476ZJ-SUS
Corner Mount

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