

Specifications

| Camera | | |
|-------------------------|--|--|
| Image Sensor | 1/1.8" Progressive Scan CMOS | |
| Min. Illumination | Color: 0.007 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 | |
| Digital Noise Reduction | 3D DNR | |
| WDR | 120 dB | |
| Angle Adjustment | Bracket, pan: 0° to 355°, tilt: 0° to 90°, rotate: 0° to 360° | |
| Lens | | |
| Focal length | 2.8 to 12 mm | |
| Aperture | 2.8 to 12 mm: F1.2 | |
| Focus | Auto, semi auto, manual | |
| FOV | 2.8 to 12 mm, horizontal FOV 112.4° to 41°, vertical FOV 58° to 23°, diagonal FOV 137° to 47° | |
| Lens Mount | Integrated | |
| IR | | |
| IR Range | 2.8 to 12 mm: up to 50 m | |
| Wavelength | 850 nm | |
| Compression Standard | | |
| Video Compression | Main stream: H.265+/H.265/H.264+/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 support | |
| Н.265 Туре | Main Profile | |
| H.265+ | Main stream support | |
| Video Bit Rate | 32 Kbps to 16 Mbps | |
| Audio Compression | No | |
| Audio Bit Rate | No | |
| Smart Feature-Set | | |
| Perimeter Protection | Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle) Filtering out mistaken alarm caused by target types such as leaf, light, animal, and flag, etc. | |
| Event Detection | Unattended baggage detection, object removal detection, scene change detection, defocus detection | |



| Smart Feature-Set | |
|----------------------------|---|
| Face Detection and Capture | Face detection performance: detects up to 30 faces at the same time Detectable face position: supports swing left and right from -65° to 65°, tilt up and down from -45° to 45° |
| Statistics | Counting |
| Region of Interest | Main stream/sub stream/third stream/fourth stream/fifth stream: 4 fixed regions and dynamic face tracking for each stream |
| Image | |
| Max. Resolution | 3840 × 2160 |
| Main Stream | 50Hz: 25fps (3840 × 2160, 3200 × 1800, 2560 × 1440, 1920 × 1080, 1280 × 720) 60Hz: 30fps (3840 × 2160, 3200 × 1800, 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) Up to 5 custom streams are supported |
| Image Enhancement | BLC, HLC, 3D DNR, Defog, EIS, lens 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 |
| SVC | H.264 and H.265 encoding |
| 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 |
| Network | |
| Network Storage | microSD/SDHC/SDXC card (256 GB), local storage and NAS (NFS,SMB/CIFS), ANR |
| Alarm Trigger | Motion detection, video tampering alarm, network disconnected, IP address conflict, illegal login, HDD full, HDD error |
| 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 |
| Security Measures | Password protection, HTTPS encryption, IEEE 802.1x port-based network access control, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF |
| General Function | One-key reset, anti-flicker, five streams and custom stream, heartbeat, password protection, privacy mask, watermark, IP address filter |
| API | ONVIF (PROFILE S, PROFILE G), ISAPI, SDK |
| Simultaneous Live View | Up to 20 channels |
| User/Host | Up to 32 users. 3 user levels: administrator, operator and user |



| Network | | |
|-------------------------------|--|--|
| Client | iVMS-4200, Hik-Connect, iVMS-5200, Hik-Central | |
| Web Browser | IE8+, Mozilla Firefox 30.0+, Google Chrome 31.0+, Safari 8.0+ Plug-in free live view supported | |
| Interface | | |
| Audio | No | |
| Communication Interface | 1 RJ45 10M/100M/1000M Ethernet port | |
| Alarm | 2 inputs, 2 outputs (up to 12 VDC 1A or 10 VAC 500 mA) | |
| Video Out | 1Vp-p composite output (75 Ω/CVBS), 4CIF resolution | |
| On-board storage | Built-in micro SD/SDHC/SDXC slot, up to 256 GB | |
| Reset Button | Yes | |
| Audio | | |
| Environment Noise Filtering | No | |
| Audio Sampling Rate | No | |
| General | | |
| Firmware Version | 5.5.60 | |
| Operating Conditions | -30 °C to 60 °C (-22 °F to 140 °F), -H: -40 °C to 60 °C (-40 °F to 140 °F) Humidity 95% or less (non-condensing) | |
| Power Supply | 12 VDC ± 20%, two-core terminal block; PoE (802.3at, class 4) | |
| Power Consumption and Current | -IZS: 12 VDC, 1.2 A, 14 W; PoE (802.3at, 42.5 V to 57 V), 0.4 A to 0.3 A, class 4 -IZHS: 12 VDC, 1.4 A, 16.5 W; PoE (802.3at, 42.5 V to 57 V), 0.4 A to 0.3 A, class 4 | |
| Protection Level | IP67, IK10 | |
| Heater | -H: yes | |
| Material | Aluminum alloy | |
| Dimensions | Camera: Φ 144 × 347 mm (Φ 5.7" × 13.7") With package: $405 \times 190 \times 180$ mm (15.9 " × 7.5 " × 7.1 ") | |
| Weight | Camera: approx. 2.45 kg (5.40 lb.) With package: approx. 2.7 kg (5.95 lb.) | |

^{*} 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-2CD7A85G0-IZS(2.8-12 mm), DS-2CD7A85G0-IZHS(2.8-12 mm)

* -H: Heater supported.