

DS-2CD5146G0-IZS

4 MP 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+
- 140 dB WDR
- IR range up to 30 m
- Alarm 1 input/1 output
- Audio 1 input/1 output
- 1 RS-485 interface (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)IK10
- 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.

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 F2.5
Focus	Auto, semi-auto, manual
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) 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 support
H.265 Type	Main Profile
H.265+	Main stream support
Video Bit Rate	256 Kbps to 16 Mbps
SVC	H.264 and H.265 encoding
Audio	
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM
Audio Bit Rate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/128-768Kbps(PCM)

Environment Filtering	Noise	Yes
Audio Sampling Rate		8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
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, audio exception detection, defocus detection
Basic Event		Motion detection, video tampering alarm, 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 alarm output, 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, Defog, 3D DNR, 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
Network		
Network Storage		microSD/SDHC/SDXC card (up to 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.
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
API		ONVIF (PROFILE S, PROFILE G), ISAPI, SDK
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
Simultaneous Live View		Up to 20 channels
User/Host		Up to 32 users, 3 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 1 RS-485 interface (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Audio		1 input (line in, 3.5 mm), 1 output (line out, 3.5 mm), mono sound
Alarm		1 input, 1 output (24 VAC/VDC, 1 A max)
Video Output		1Vp-p composite output (75 Ω/CVBS), only for adjustment
Power Output		12 VDC, max. 200mA

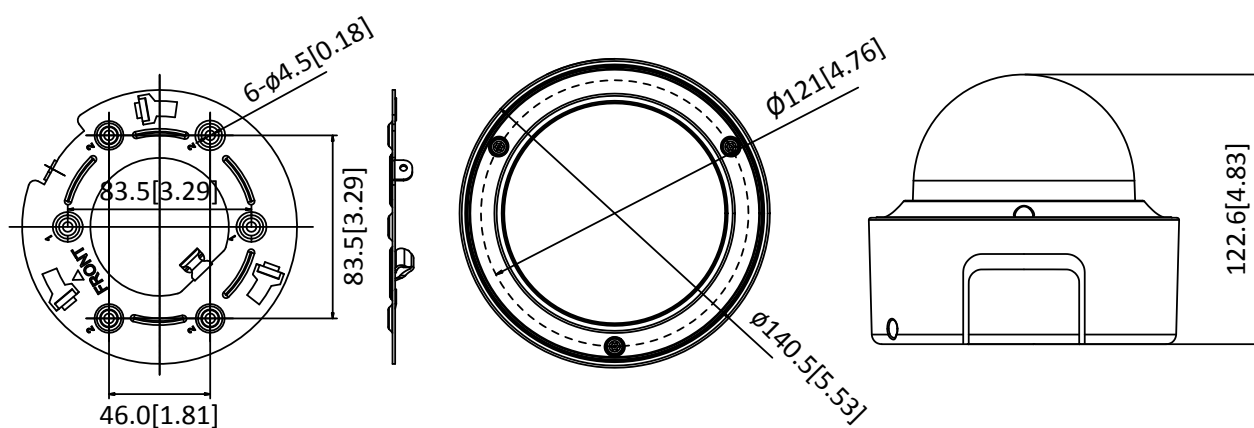
Interface Style	Socket style interface
On-board storage	Built-in micro SD/SDHC/SDXC slot, up to 256 GB
General	
Firmware Version	5.5.90
Web Client Language	32 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil)
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
Reset	Reset via reset button on camera body, web browser and client software
Startup and Operating Conditions	-30 °C to 60 °C (-22 °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 is recommended, 10 to 48 VDC, two-core terminal block PoE (802.3af, class 3) Reverse polarity protection
Power Consumption and Current	With extra load: 12 VDC, 0.8 A, max. 10.5 W; PoE (802.3af, 36 V to 57 V), 0.2 A to 0.3 A, class 3 Without extra load: 12 VDC, 0.6 A, max. 8.0 W; PoE (802.3af, 36 V to 57 V), 0.2 A to 0.3 A, class 3 “with extra load” means that an extra device is connected to and powered by the camera.
Material	Metal
Dimensions	Camera: $\Phi 141 \times 123$ mm ($\Phi 5.5'' \times 4.8''$) With package: $244 \times 174 \times 173$ mm ($9.6'' \times 6.9'' \times 6.8''$)
Weight	Camera: 900 g (1.98 lb.) With package: 1250 g (2.76 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; 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)

Note: 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-2CD5146G0-IZS (2.8mm to 12mm)

Dimension



Unit: mm[inch]

Accessory



DS-1273ZI-130
Wall Mount



DS-1273ZI-130B
Wall Mount



DS-1271ZI-130
Pendent Mount



DS-1279ZI
Pole



1275ZI-SUS
Vertical Pole Mount



DS-1276ZI-SUS
Corner Mount



DS-1227ZI
In-ceiling Mount



DS-1281ZI-DM23
Inclined Ceiling Mount

Distributed by



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