iDS-2CD7046G0(-AP)(/F11)
4MP Box Network Camera

Dark Fighter

3D DNR	140dB WDR	ABF	H.265+	P Iris	Vsmart 60FPS

·DeepinView series

- High quality imaging with 4 MP resolution
- Excellent low-light performance via DarkFighter technology
- Clear imaging against strong back light due to 140 dB WDR technology
- Efficient H.265+ compression technology to save bandwidth and storage
- 5 streams to meet a wide variety of applications
- Built-in microphone for real-time audio security

▪ **Function**

Face Recognition

With embedded deep learning based algorithms, the camera is able to give the best shot of a target face through detecting, tracking, capturing, grading and selecting. The camera captures the face and outputs the features, such as gender, age, and expression. The camera uses face exposure function to dynamically adjust face area exposure of captures and ensures high face picture quality.

Perimeter Protection

With embedded deep learning based target detection and classification algorithms, the camera carries out the duty of perimeter protection, monitoring the actions of line crossing, intrusion, region entrance, and region exiting. The algorithms greatly filter out the mistaken alarm caused by the interference of leafs, lights, animal, flag, etc.

Multi-Target-Type Recognition

With the embedded deep learning algorithms, the camera detects and captures the face, human body, vehicle in the specified region and outputs the features, such as gender, age, top color, and vehicle type.

▪ Specification

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	2560 × 1440
Min. Illumination	Color: 0.0005 Lux @ (F1.2, AGC ON); B/W: 0.0001 Lux @ (F1.2, AGC ON)
Shutter Time	1 s to 1/100,000 s
Day & Night	IR cut filter Blue glass module to reduce ghost phenomenon

Lens	
Lens Mount	CS mount

Video	
Main Stream	50 Hz: 50 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 60 fps (2560 × 1440, 1920 × 1080, 1280× 720)
Sub-Stream	50 Hz: 25 fps (704 × 480, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Fourth Stream	50 Hz: 25 fps (704 × 480, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)
Fifth Stream	50 Hz: 25 fps (704 × 480, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)
Video Compression	H.265+/H.265/H.264+/H.264/MJPEG
Video Bit Rate	32 Kbps to 8 Mbps
H.264 Type	Baseline Profile/Main Profile/High Profile
H.265 Type	Baseline Profile/Main Profile/High Profile
Bit Rate Control	CBR/VBR
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	4 fixed regions for main stream, sub-stream, third stream, fourth stream and fifth stream
Target Cropping	Yes

Audio	
Audio Type	Mono sound
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/AAC/MP3
Audio Bit Rate	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/16 to 64 Kbps (AAC) /8 to 320 Kbps (MP3)
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHZ/48 kHz
Environment Noise Filtering	Yes

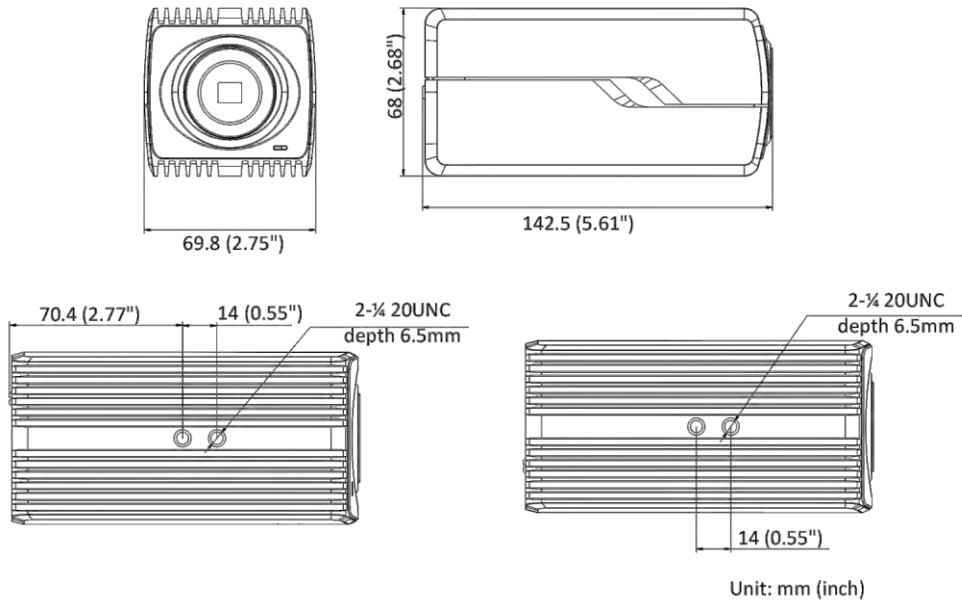| Network	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP,UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS
Simultaneous Live View	Up to 20 channels
API	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP
User/Host	Up to 32 users 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 1.2
Network Storage	NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Together with high-end Hikvision memory card, memory card encryption and health detection are supported.
Client	iVMS-4200, Hik-Connect
Web Browser	Plug-in required live view: IE9+, Chrome 41.0 to 44, Firefox 30.0 to 51, Safari 8.0 to 11 Plug-in free live view: Chrome 45.0+, Firefox 52.0+ Not recommended: Safari 11+, Edge
Image	
Image Parameters Switch	Yes
Image Settings	Saturation, brightness, contrast, sharpness, white balance, and AGC adjustable by client software or web browser
Day/Night Switch	Day, Night, Auto, Schedule, Alarm Trigger
Wide Dynamic Range (WDR)	140 dB
Defog	Yes
Image Enhancement	BLC, HLC, Defog, 3D DNR
SNR	≥ 52 dB
Privacy Mask	8 programmable polygon privacy masks, mask color or mosaic configurable
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format
Image Stabilization	EIS
Interface	
Video Output	1 Vp-p Composite Output (75 Ω/CVBS) (Only for debugging)
Ethernet Interface	1 RJ45 100 M/1000 M self-adaptive Ethernet port
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 256 GB
Audio	1 input (line in), 1 output (line out), 3.5 mm connector, 1 built-in microphone
Alarm	2 inputs, 2 outputs (max. 24 VDC, 1A)
RS-485	1 RS-485 (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Reset Key	Yes
Power Output	12 VDC, max. 100 mA
Fiber Optical	With /F11: 1 LC fiber optical interface, SFP module, single mode, 20 km transmission distance, 1310 nm (TX) and 1550 nm (RX), 155 Mbps transmission rate
Event	
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error), video quality diagnosis
Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting detection, audio exception detection, scene change detection, defocus detection
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture
Deep Learning Function	
Multi-target-type Detection	Supports simultaneous detection and capture of human body, face and vehicle Gets 7 face features, 13 human body features and 2 vehicle features

Face Capture	1. Detects up to 60 faces simultaneously
	2. Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30°
	3. Uploads face with background and closed-up face pictures
Face Comparison	Up to 10 face libraries. Up to 150,000 faces for each library. 150,000 faces in total. Supports face library encryption
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting
	Support alarm triggering by specified target types (human and vehicle)

General

Power	With F11:
	12 VDC ± 20%, 0.95 A, max. 11.3 W, two-core terminal block
	24 VAC ± 20%, 0.49 A, max. 11.6 W, two-core terminal block
	PoE: 802.3af, Type 1, Class 3, 36 V to 57 V, 0.35 A to 0.22 A, max. 12.3 W
	Without /F11:
	12 VDC ± 20%, 0.9 A, max. 10.8 W, two-core terminal block
	24 VAC ± 20%, 0.44 A, max. 10.4 W, two-core terminal block
	PoE: 802.3af, Type 1, Class 3, 36 V to 57 V, 0.33 A to 0.21 A, max. 11.6 W
Material	Aluminum alloy body
Dimension	142.5 × 69.8 × 68 mm (5.61" × 2.75" × 2.68")
Package Dimension	315 × 140 × 140 mm (12.4" × 5.51" × 5.51")
Weight	Approx. 730 g (1.96 lb.)
With Package Weight	Approx. 1115 g (2.99 lb.)
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
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
General Function	Heartbeat, mirror, password protection, watermark, privacy mask, IP address filter, one-key reset, five streams

Approval

EMC	FCC (47 CFR Part 15, Subpart B);
	CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EEN 61000-3-3:2013+A1:2019, EN 50130-4: 2011 +A1: 2014);
	RCM (AS/NZS CISPR 32: 2015);
	IC (ICES-003: Issue 7);
	KC (KN 32: 2015, KN 35: 2015)
Safety	UL (UL 62368-1);
	CB (IEC 62368-1:2014+A11);
	CE-LVD (EN 62368-1:2014/A11:2017);
	BIS (IS 13252(Part 1):2010/ IEC 60950-1 : 2005);
	LOA (IEC/EN 60950-1)
Environment	CE-RoHS (2011/65/EU);
	WEEE (2012/19/EU);
	Reach (Regulation (EC) No 1907/2006)

▪ Available Model

iDS-2CD7046G0-AP
iDS-2CD7046G0-AP/F11

▪ Dimension

69.8 (2.75")
68 (2.68")
142.5 (5.61")

70.4 (2.77") 14 (0.55") 2-¼ 20UNC depth 6.5mm

2-¼ 20UNC depth 6.5mm

14 (0.55")

Unit: mm (inch)

▪ Accessory

▪ Optional

DS-1214ZJ Horizontal Pole Mount	HV0733D-6MP Mega-pixel Auto-Iris Lens	DS-1299ZJ Pendant Mount	DS-1332HZ Indoor Housing	DS-1293ZJ Wall Mount
DS-1331HZ-B Outdoor Housing	HV0415D-MP Mega-pixel Auto-Iris Lens	HV1140D-8MPIR Mega-pixel Auto-Iris Lens	DS-2202ZJ Wall Mount	DS-1269ZJ Pendant Mount

HV3816D-8MPIR Mega-pixel Auto-Iris Lens	HV1140P-8MPIR Mega-pixel P-Iris Lens	DS-1233ZJ Pendant Mount	DS-1292ZJ Wall Mount	HV3816P-8MPIR Mega-pixel P-Iris Lens

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