

HIKVISION®
HIKVISION
IDW2.8 4 MP
EXIR Fixed
Dome Network
Camera



HIKVISION IDW2.8 4 MP EXIR Fixed Dome Network Camera Owner's Manual

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HIKVISION®

HIKVISION IDW2.8 4 MP EXIR Fixed Dome Network Camera



Product Information

Model: DS-2CV2146G0-IDW

Resolution: 4 MP

Features

- High quality imaging with 4 MP resolution
- Realizing Wi-Fi connection and easy installation
- Provides real-time security via built-in two-way audio
- Efficient H.265 compression technology
- EXIR 2.0, advanced infrared technology with long IR distance
- Wi-Fi connection with Hik-Connect directly is not possible
- Water and dust resistant (IP66)
- Support micro SD/SDHC/SDXC card, up to 256 GB
- False alarm reduction through human and vehicle target classification based on deep learning



Specification

Camera	
Image Sensor	1/2.7" Progressive Scan CMOS
Min. Illumination	0.005 Lux @ (F1.6, AGC ON)
Shutter Speed	1/3 s to 1/100,000 s
P/N	P/N
Wide Dynamic Range	120 dB

Day & Night	ICR Cut
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°
Lens	
Lens Type & FOV	2.8 mm, horizontal FOV 101°, vertical FOV 55°, diagonal FOV 119° 4 mm, horizontal FOV 82°, vertical FOV 44°, diagonal FOV 97°
Aperture	F1.6
Lens Mount	M12
Illuminator	
Smart Supplement Light	Yes
IR Range	Up to 30 m
Wavelength	850 nm
Video	
Max. Resolution	2560 × 1440
Main Stream	50Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 60Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 720)
Sub Stream	50Hz: 25 fps (640 × 360) 60Hz: 30 fps (640 × 360)
Video Compression	Main Stream: H.265/H.264 Sub-Stream: H.265/H.264
Video Bit Rate	32 Kbps to 8 Mbps
H.264 Type	BaseLine Profile/Main Profile/High Profile
H.265 Type	Main Profile
Bit Rate Control	CBR/VBR
Audio	
Environment Noise Filtering	Yes
Audio Sampling Rate	8 kHz/16 kHz
Audio Compression	G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM
Audio Bit Rate	64Kbps(G.711 ulaw)/64Kbps(G.711 alaw)/16Kbps(G.722.1)/16Kbps(G.726)/32 to 160Kbps(MP2L2)
Network	

Simultaneous Live View	Up to 6 channels
API	ISAPI, SDK
Protocols	TCP/IP, ICMP, DHCP, DNS, DDNS ,HTTP, HTTPS, RTP, RTSP, NTP, UPnP, IGMP, IPv6, UDP, QoS, Bonjour
User/Host	Up to 32 users 3 levels: Administrator, Operator and User
Security	Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.2

Network Storage	MicroSD/SDHC/SDXC card (256 GB) local storage, and NAS(NFS, SMB/CIFS), auto network replenishment (ANR)
Client	Wired network: Hik-Connect, iVMS-4200 Wi-Fi: iVMS-4200 *Wi-Fi connection with Hik-Connect directly is not possible.
Web Browser	Plug-in required live view: IE 10, IE 11 Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+
Alarm Trigger	Motion detection, exception
Image	
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR
Image Settings	mirror, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser
SNR	≥ 52 dB
Interface	
On-board Storage	Built-in micro SD/SDHC/SDXC slot, up to 256 GB
Hardware Reset	Yes
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Smart Feature-Set	

Basic Event	Motion detection, audible alarm output, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
Intelligent (Deep Learning Algorithm)	
Premier Protection	Line crossing detection, intrusion detection, region entrance detection, region exiting detection
General	
Linkage Method	Upload to memory card/NAS, notify surveillance center, trigger record, trigger capture, audible warning
Firmware Version	V5.5.136
Web Client Language	English
General Function	Anti-flicker, heartbeat, password reset via e-mail, pixel counter
Software Reset	Reset via web browser and client software
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)
Power Supply	12 VDC $\pm$ 25%
Power Consumption and Current	12 VDC, 0.6 A, max. 7 W
Power Interface	Ø5.5 mm coaxial power plug
Material	Polycarbonate cover, polycarbonate body
Camera Dimension	Ø126.0 × 96.1 mm (Ø5.0" × 3.8")
Package Dimension	170 × 170 × 150 mm (7.0" × 7.0" × 5.9")
Camera Weight	Approx. 590 g (1.3 lb.)
With Package Weight	Approx. 989 g (2.2 lb.)

Approval

EMC	FCC SDoC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC VoC (ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015)
RF	FCC ID (FCC Part 15.247(BT or 2.4G)); IC ID (RSS-247(BT or 2.4G)); CE-RED (EN 301489-1 V2.1.1(BT or 2.4G); EN 301489-17 V3.1.1(BT or 2.4G); EN 300328 V2.1.1(BT or 2.4G); EN 62311:2008(BT or 2.4G)); WPC (EN 301 489-1 V2.1.1(BT or 2.4G); EN 301 489-17 V3.1.1(BT or 2.4G); EN 300 328 V2.1.1(BT or 2.4G); EN 62311:2008(BT or 2.4G); EN 55032:2015; EN 61000-3-2:2014; EN 61000-3-3:2013; EN 50130-4:2011 +A1:2014); KC (KN 32:2015; KN 35: 2015; KN 301489-1; KN 301489-17); ICASA (EN 301 489-1 V2.1.1(BT or 2.4G); EN 301 489-17 V3.1.1(BT or 2.4G); EN 300 328 V2.1.1(BT or 2.4G); EN 62311:2008(BT or 2.4G); EN 55032:2015; EN 61000-3-2:2014; EN 61000-3-3:2013; EN 50130-4:2011 +A1:2014; EN 60950-1:2005 + Am 1:2009 + Am 2:2013)
Safety	UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015); LOA (IEC/EN 60950-1)
Environment	CE-RoHS (2011/65/EU) WEEE (2012/19/EU) Reach (Regulation (EC) No 1907/2006)
Protection	IP66 (IEC 60529-2013)
Wi-Fi	
Encryption Mode	64/128-bit WEP, WPA-EAP/WPA2-EAP, WPA-PSK/WPA2-PSK
Wi-Fi Protocol	802.11b: CCK, QPSK, BPSK 802.11g/n: OFDM
Frequency Range	2.412 GHz – 2.472 GHz
Channel Bandwidth	20/40MHz

Modulation	802.11b: CCK, QPSK, BPSK 802.11g/n: OFDM
Wireless Range	Up to 120 m (The performance varies based on actual environment)
Transfer Rate	300 Mbps

Available Model

DS-2CV2146G0-IDW (2.8/4 mm)

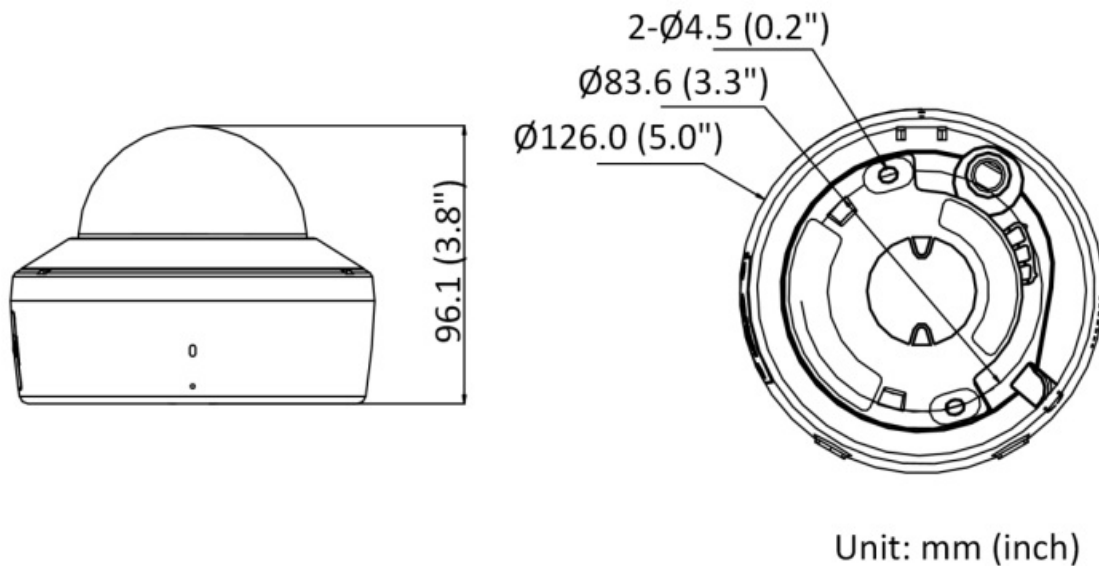
Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has NO SPECIFIC PROTECTION.

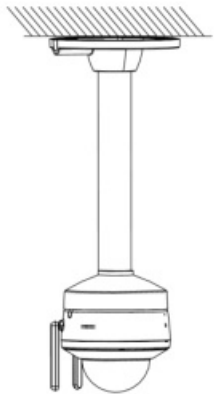
Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain.
No specific protection	Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.

Dimension



Accessory

Optional

DS-1271ZJ-120 Pendant Mount	DS-1272ZJ-120B Wall Mount	DS-1272ZJ-120 Wall Mount
		
		

Installation

1. Choose a suitable location for mounting the camera.
2. Ensure power supply is available near the chosen location.
3. Mount the camera securely using appropriate tools.
4. Connect the camera to the power source and network using the RJ45 Ethernet port.

Connecting to Wi-Fi

1. Access the camera settings via the web browser or client software.
2. Navigate to the Wi-Fi settings and enter the SSID and password of your network.
3. Follow on-screen instructions to establish a Wi-Fi connection.

Using Two-Way Audio

1. Enable the two-way audio feature in the camera settings.
2. Use the designated microphone and speaker on the camera for communication.
3. You can listen and speak through the camera using the connected device.

Frequently Asked Questions

- **Q: Can I directly connect the camera to Hik-Connect via Wi-Fi?**

A: No, direct Wi-Fi connection to Hik-Connect is not supported. You can use iVMS-4200 for wired network connection or iVMS-4200 for Wi-Fi connection.

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Documents / Resources

	HIKVISION IDW2.8 4 MP EXIR Fixed Dome Network Camera [pdf] Owner's Manual DS-2CV2146G0-IDW2.8, IDW2.8 4 MP EXIR Fixed Dome Network Camera, 4 MP EXIR Fixed Dome Network Camera, Fixed Dome Network Camera, Dome Network Camera, Network Camera
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References

- [User Manual](#)

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