

# HIKVISION®

## HiWatch Series



- High quality imaging with 2 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
- Water and dust resistant (IP66)
- Support micro SD/SDHC/SDXC card, up to 256 GB



## ▪ Specification

<b>Camera</b>	
Image Sensor	1/2.8" 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°
<b>Lens</b>	
Lens Type & FOV	2.8 mm, horizontal FOV 107°, vertical FOV 57°, diagonal FOV 128°
Aperture	F1.6
Lens Mount	M12
<b>Illuminator</b>	
Smart Supplement Light	Yes
IR Range	Up to 30 m
Wavelength	850 nm
<b>Video</b>	
Max. Resolution	1920 × 1080
Main Stream	50Hz: 25 fps (1920 × 1080, 1280 × 720) 60Hz: 30 fps (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
H.264+	Main stream supports
H.265+	Main stream supports
Bit Rate Control	CBR/VBR
<b>Audio</b>	
Environment Noise Filtering	Yes

Audio Sampling Rate	8 kHz/16 kHz
Audio Compression	G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/AAC
Audio Bit Rate	64Kbps(G.711 ulaw)/64Kbps(G.711 alaw)/16Kbps(G.722.1)/16Kbps(G.726)/32 to 160Kbps(MP2L2)/16 to 64Kbps(AAC)
<b>Network</b>	
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
Network Storage	MicroSD/SDHC/SDXC card (256 GB) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR)
Client	Wired network: iVMS-4200, Hik-Connect Wi-Fi: iVMS-4200
Web Browser	Plug-in required live view: IE 10, IE 11 Local service: Chrome 57.0+, Firefox 52.0+
<b>Image</b>	
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
<b>Interface</b>	
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
<b>Smart Feature-Set</b>	
Basic Event	Motion detection, audible alarm output, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)

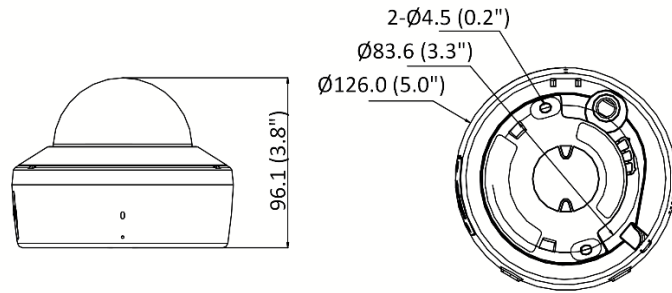
<b>General</b>	
Linkage Method	Upload to memory card/NAS, notify surveillance center, trigger record, trigger capture, audible warning
Web Client Language	English
General Function	Anti-flicker, heartbeat, password reset via e-mail
Software Reset	Yes
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). 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 ± 25%
Power Consumption and Current	12 VDC, 0.6 A, max. 7 W
Power Interface	Ø5.5 mm coaxial power plug
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.)
<b>Approval</b>	
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	<p>FCC ID (FCC Part 15.247(BT or 2.4G));</p> <p>IC ID (RSS-247(BT or 2.4G));</p> <p>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));</p> <p>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);</p> <p>KC (KN 32:2015; KN 35: 2015; KN 301489-1; KN 301489-17);</p> <p>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)</p>
Safety	<p>UL (UL 60950-1);</p> <p>CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014);</p> <p>CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014);</p> <p>BIS (IS 13252(Part 1):2010+A1:2013+A2:2015);</p> <p>LOA (IEC/EN 60950-1)</p>
Environment	<p>CE-RoHS (2011/65/EU)</p> <p>WEEE (2012/19/EU)</p> <p>Reach (Regulation (EC) No 1907/2006)</p>
Protection	IP66 (IEC 60529-2013)
<b>Wi-Fi</b>	
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	20/40 MHz
Modulation	802.11b: CCK, QPSK, BPSK 802.11g/n: OFDM
Transfer Rate	300 Mbps
Wireless Range	Up to 120 m (The performance varies based on actual environment)

**Available Model**

HWI-D222H-D/W (2.8mm)

**▪ Dimension**



Unit: mm (inch)

**▪ Accessory**

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



Distributed by



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