DS-2CD2146G3-IPTRZY
4 MP AcuSense PTRZ Dome Network Camera

Powered by DarkFighter

AcuSense 3.0





- Motorized Pan, Tilt, Rotate, Zoom for easy installation and monitoring
- 2.8/4 mm in one lens, point varifocal
- Excellent low illumination performance via Powered by DarkFighter
- Person and vehicle classification based on deep learning
- Crystal-clear audio with Arrayed Dual-Mic (only -2U)
- Clear imaging against strong back light due to 130 dB true WDR technology
- Efficient H.265+ compression technology
- Water and dust resistant (IP67), and vandal resistant (IK10)
- Anti-corrosion design (NEMA 4X), more reliable
- Audio and alarm interface available (only –S)
- Eco-friendly and tamper-free packaging

▪ Specification

Camera	
Image Sensor	1/3" Progressive Scan CMOS
Max. Resolution	2688 × 1520
Min. Illumination	Color: 0.001 Lux @ (F1.6, AGC ON),B/W: 0 Lux with IR
Shutter Time	1 s to 1/100,000 s
Day & Night	IR cut filter
Angle Adjustment	Pan: 0° to 346°,tilt: 0° to 75°,rotate: 0° to 344° ,Remote adjustment (Max. 1000 cycles)
Lens	
Lens Type	Varifocal lens, motorized lens, 2.8 to 4 mm
Focal Length & FOV	2.8 mm, horizontal FOV 99.1°, vertical FOV 58.6°, diagonal FOV 120° 4 mm, horizontal FOV 79.9°, vertical FOV 46.1°, diagonal FOV 93.9°
Lens Mount	Ø14
Iris Type	Fixed
Aperture	F1.6
Depth of Field	2.8 mm: 1.1 m to ∞ 4 mm: 1.3 m to ∞
DORI	
DORI	2.8mm: D: 66.5 m, O: 26.4 m, R: 13.3 m, I: 6.6 m 4mm: D: 79.1 m, O: 31.4 m, R: 15.8 m, I: 7.9 m
Illuminator	
Supplement Light Type	IR
Supplement Light Range	Up to 30 m
Smart Supplement Light	Yes
IR Wavelength	850 nm
Video	
Main Stream	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)
Third Stream	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) *Third stream is supported under certain settings.
Video Compression	Main stream: H.265/H.264/H.264+/H.265+, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264, *Third stream is supported under certain settings.
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
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	1 fixed region for main stream
Audio	
Audio Compression	-2U: G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC
Audio Type	-2U: Mono sound

Audio Bit Rate	-2U: 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)
Audio Sampling Rate	-2U: 8 kHz/16 kHz/32 kHz/48 kHz
Environment Noise Filtering	-2U: Yes
Network	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, SSL/TLS, PPPoE, SNMP, WebSocket, WebSockets
Simultaneous Live View	Up to 6 channels
API	ONVIF (Profile S, Profile G),ISAPI,SDK,ISUP
User/Host	Up to 32 users 3 user 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 1.1/1.2/1.3, WSSE and digest authentication for Open Network Video Interface
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,Hik-Central
Web Browser	Plug-in free live view: Chrome 91+, Firefox 88+, Edge 91+, Safari 13+, Local service: Chrome 91+, Firefox 88+, Edge 91+
Image	
Image Parameters Switch	Yes
Image Settings	Rotate mode,saturation,brightness,contrast,sharpness,gain,white balance,adjustable by client software or web browser
Day/Night Switch	Day,Night,Auto,Schedule
Image Enhancement	BLC,HLC,3D DNR
SNR	≥ 52 dB
Wide Dynamic Range (WDR)	130 dB
Privacy Mask	4 programmable polygon privacy masks
Interface	
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB
Built-in Microphone	-2U: Yes, 2 built-in microphones
Built-in Speaker	NA
Audio	-S: 1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium 1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium
Alarm	-S: 1 input, 1 output (max. 12VDC, 30mA)
Reset Key	Yes
Event	
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)),video tampering alarm,exception

Linkage	notify surveillance center,send email,trigger alarm output,trigger recording,trigger capture,audible warning,strobe light
Smart Event	Scene change detection
Deep Learning Function	
Face Capture	Yes
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle)
General	
Power	12 VDC ± 25%, 1.25 A, max. 15 W,Ø5.5 mm coaxial power plug,reverse polarity protection, PoE: IEEE 802.3at, Class 4, max. 16W
Material	Metal
Dimension	Ø121.6 mm × 101 mm (Ø4.79" × 3.98")
Package Dimension	150 mm × 150 mm × 142 mm (5.91" × 5.91" × 5.60")
Weight	Approx. 730 g (1.61 lb.)
With Package Weight	Approx. 1000 g (2.20 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)
General Function	Heartbeat,mirror,flash log,password reset via email,pixel counter,anti-banding
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
Flashing Light	NA
Approval	
EMC	CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021
Safety	CB: IEC 62368-1:2014+A11, CE-LVD: EN 62368-1:2014/A11:2017
Environment	CE-RoHS: 2011/65/EU, WEEE: 2012/19/EU, Reach: Regulation (EC) No 1907/2006
Protection	IP67:IEC 60529-2013,IK10:IEC 62262:2002
Anti-Corrosion Protection	NEMA 4X (NEMA 250-2018)

▪ 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.

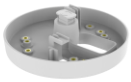
This model has MODERATE PROTECTION.

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.

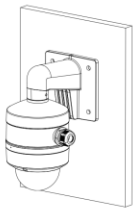
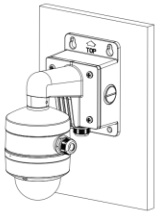
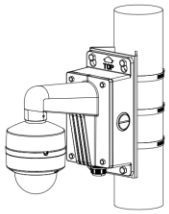
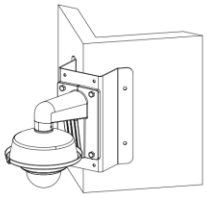
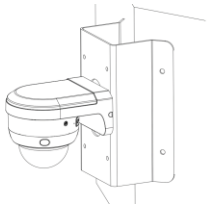
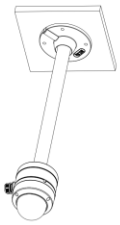
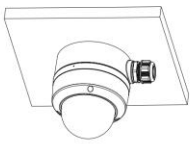
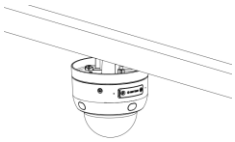
▪ Accessory

▪ Optional

DS-220AZJ-130-WAY	DS-1275ZJ-SUS	DS-1276ZJ-SUS	DS-1271ZJ-120-Y	DS-1280ZJ-DM46-Y
				
DS-220AZJ-145-WAY	**DS-2274ZJ-125-WP**	**DS-1272ZJ-120-Y**	**DS-1476ZJ-SUS**	**DS-1275ZJ-S-SUS**
				
DS-1272ZJ-120B-Y	**DS-1475ZJ-SUS**			
				

▪ Installation Methods

Wall Mounting DS-220AZJ-130-WAY	Wall Mounting DS-220AZJ-145-WAY	Wall Mounting DS-1272ZJ-120-Y+DS-1280ZJ-DM46-Y	Wall Mounting DS-1272ZJ-120B-Y+DS-1280ZJ-DM46-Y	Vertical Pole Mounting DS-1275ZJ-SUS+DS-1272ZJ-120B-Y

				
Vertical Pole Mounting DS-1275ZJ-S-SUS+DS-220AZJ-145-WAY	**Vertical Pole Mounting DS-1475ZJ-SUS+DS-220AZJ-145-WA**	**Corner Mounting DS-1276ZJ-SUS+DS-1253ZJ-M+DS-1272ZJ-120-Y**	**Corner Mounting DS-1476ZJ-SUS+DS-220AZJ-145-WA**	**Pendant Mounting DS-1271ZJ-120-Y+DS-1280ZJ-DM46-Y**
				
Junction Box DS-1280ZJ-DM46-Y	**Others DS-2274ZJ-125-WP**			
				

See Far, Go Further

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