HiWatch™

HWI-T280HAD-LUF/S(L)(RB)

8 MP Dual Lens Stitched Wide Angle Smart Hybrid Light Fixed Turret Network Camera





- High quality imaging with 8 MP resolution
- Support Person and Vehicle Detection
- Smart Hybrid Light: advanced technology with long range
- Efficient H.265+ compression technology
- Support on-board storage up to 512 GB (SD card slot)
- Provide real-time security via built-in two-way audio
- Water and dust resistant (IP67)
- 180° Field of view
- Active strobe light and audio alarm to warn intruders off

▪ Specification

Camera	
Image Sensor	1/2.4" Progressive Scan CMOS
Max. Resolution	4256 × 1888
Min. Illumination	Color: 0.005 Lux @ (F1.6, AGC ON)
Shutter Time	1 s to 1/100,000 s
Day & Night	IR cut filter
Angle Adjustment	Pan: 0° to 360°,tilt: 0° to 75°,rotate: 0° to 360°
Lens	
Lens Type	Fixed focal lens, 2 mm
Focal Length & FOV	2 mm, horizontal FOV 180°, vertical FOV 77°
Lens Mount	M12
Iris Type	Fixed
Aperture	F1.6
Pixel Density	
DORI	2 mm, D: 50 m, O: 20 m, R: 10 m, I: 5 m
Illuminator	
Supplement Light Type	IR,White Light
Supplement Light Range	Up to 30 m
Smart Supplement Light	Yes
IR Wavelength	850 nm
Video	
Main Stream	50 Hz: 20 fps (4256 × 1888) 60 Hz: 20 fps (4256 × 1888)
Sub-Stream	50 Hz: 20 fps (1200×536, 960 × 432) 60 Hz: 20 fps (1200×536, 960 × 432)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264, Sub-stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 16 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 Type	Mono sound
Audio Sampling Rate	8 kHz/16 kHz
Environment Noise Filtering	Yes
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/AAC-LC
Audio Bit Rate	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 160 Kbps (MP2L2)/16 to 64 Kbps (AAC-LC)
Network	
Security	Password protection, complicated password, watermark, basic and digest authentication for HTTP, WSSE and digest authentication for Open Network Video Interface, security audit log, host authentication (MAC address)
Simultaneous Live View	Up to 6 channels

API	ONVIF (Profile S, Profile T, Profile G),ISAPI,SDK
Protocols	TCP/IP, ICMP, DHCP, DNS, HTTP, RTP, RTSP, RTCP, NTP, IPv4, IPv6, IGMP, UDP, QoS, FTP, SMTP
User/Host	Up to 32 users 3 user levels: administrator, operator, and user
Client	iVMS-4200,Hik-Connect
Web Browser	Plug-in required live view: IE 11, Local service: Chrome 80+, Firefox 80+, Edge 89+
Image	
Wide Dynamic Range (WDR)	120 dB
SNR	≥ 52 dB
Day/Night Switch	Day,Night,Auto,Schedule
Image Enhancement	BLC,HLC,3D DNR
Image Settings	Rotate mode,saturation,brightness,contrast,sharpness,gain,white balance,adjustable by client software or web browser
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	Yes,1 built-in microphone
Built-in Speaker	Yes, 1 built-in speaker,Max. power consumption: 2 W, max. sound pressure level: 10 cm: 97 dB.
Reset Key	Yes
Event	
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)),video tampering alarm,exception
Linkage	Upload to FTP, upload to memory card, send email,notify surveillance center, trigger capture, trigger recording, audible warning, strobe light flashing
General	
Power	12 VDC ± 25%, 0.83 A, max. 10 W,Ø5.5 mm coaxial power plug,reverse polarity protection, PoE: IEEE 802.3af, Class 3, max. 11.5 W
Material	Base: Metal, cover: Plastic
Dimension	Ø130.1 mm × 109.1 mm (Ø5.1" × 4.3")
Package Dimension	150 mm × 150 mm × 141 mm (5.9" × 5.9" × 5.6")
Weight	Approx. 580 g (1.3 lb.)
With Package Weight	Approx. 760 g (1.7 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	English, Turkish, Polish, Romanian, Czech, Slovak, Traditional Chinese, Thai, Vietnamese, Croatian, Slovenian, Serbian, Ukrainian
General Function	Heartbeat,anti-banding,password protection,password reset via email
Flashing Light	/SRB model: Red and Blue Light /SL model: White Light

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, IC: ICES-003: Issue 7, KC: KN32: 2015, KN35: 2015
Safety	CB: IEC 62368-1: 2014+A11
Environment	CE-RoHS: 2011/65/EU, WEEE: 2012/19/EU, Reach: Regulation (EC) No 1907/2006
Protection	IP67: IEC 60529-2013

▪ Typical Application

Recommended Scenarios: The Dual-lens panoramic camera is ideal for large-scale application Scenarios, such as parks, parking lots, intersections, roads, stadiums, and plantations.
Recommended installation height of the camera: above 3 m (9.84 ft.).

Recommended physical distance between the object and camera lens: 8 to 12 m (26.24 ft. to 39.37 ft.).

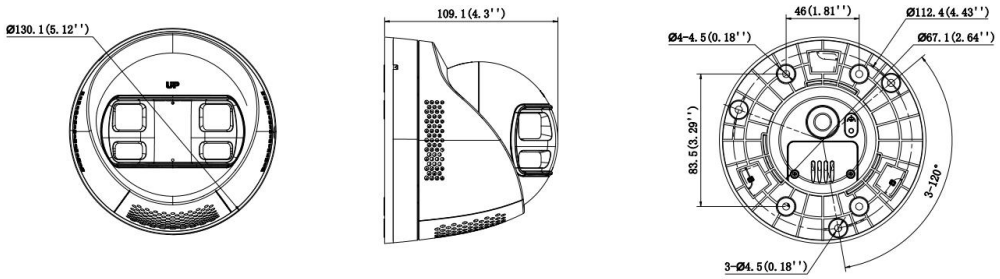
Recommended vertical angle of the camera lens: 68° to 75°.

▪ Available Model

HWI-T280HAD-LUF/SL(2mm)

HWI-T280HAD-LUF/SRB(2mm)

▪ Dimension



Unit: mm(inch)

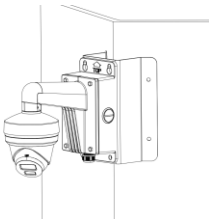
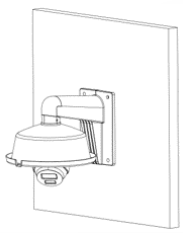
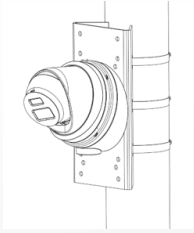
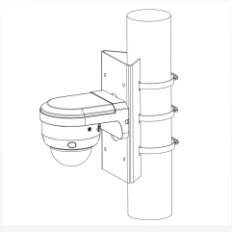
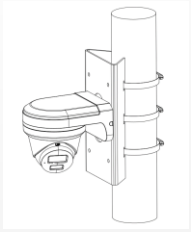
▪ Accessory

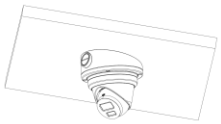
▪ Optional

DS-1276ZJ-SUS	DS-1273ZJ-130B-TRL	DS-1476ZJ-SUS	DS-1280ZJ-DM8	DS-1275ZJ-SUS

				
DS-1273ZJ-130-TRL	DS-1475ZJ-SUS	DS-220AZJ-130-WA	DS-220AZJ-145-WA	DS-1271ZJ-130-TRL
				
DS-1281ZJ-M	DS-1275ZJ-S-SUS			
				

▪ Installation Methods

Corner Mounting DS-1276ZJ-SUS+DS-1273ZJ-130B-TRL	Corner Mounting DS-1476ZJ-SUS+DS-220AZJ-145-WA	Wall Mounting DS-1273ZJ-130B-TRL	Wall Mounting DS-1273ZJ-130-TRL+DS-1253ZJ-L	Wall Mounting DS-220AZJ-130-WA
				
Wall Mounting DS-220AZJ-145-WA	Junction Box DS-1280ZJ-DM8	Vertical Pole Mounting DS-1275ZJ-SUS+DS-1281ZJ-M	Vertical Pole Mounting DS-1475ZJ-SUS+DS-220AZJ-130-WA	Vertical Pole Mounting DS-1275ZJ-S-SUS+DS-220AZJ-145-WA
				

Pendant Mounting DS-1271ZJ-130-TRL	Inclined Ceiling Mounting DS-1281ZJ-M
	

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www.hikvision.com
support@hikvision.com

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