DS-2DP8A845IXG1-LF/864(F0)
64MP 360° Panoramic & PTZ Camera



Hikvision DS-2DP8A845IXG1-LF/864(F0) 360° Stitched 64 MP PanoVu Camera with PTZ is able to capture panoramic images as well as close-up images. The panoramic images are captured by 8 sensors for 360° panorama monitoring. The integration of two cameras can locate the details fast over expansive area. Furthermore, with advanced video analysis and multiple targets tracking algorithms, the PanoVu camera features a wide range of smart functions for multiple targets within the panoramic view, including intrusion detection, line crossing detection, region entrance detection, and region exiting detection. The camera can output alarm signals and link the PTZ for tracking to improve the security efficiency.
This product is suitable for the application scenarios that require expansive monitoring and detail capture, such as airports, stations, stadiums, playgrounds, scenic areas, and public squares.

- High quality imaging with 64 MP resolution, up to 2 × 8160 × 3616 @30 fps for panoramic channels
- True 360° coverage with eight F1.0 lenses, no blind spots in the panoramas
- Excellent low-light performance with DarkFighter 2.0 technology
- 45 × optical zoom and 16 × digital zoom provide close up views over expansive areas
- Expansive night view with up to 500 m IR distance
- With one click on the panoramic channel, the PTZ channel shows the details automatically
- Continous and stable manual tracking, auto-tracking, and panorama tracking
- Automatic switch between multiple targets
- Supports 7 alarm inputs, 2 alarm outputs, 1 audio input, and 1 audio output

▪ Specification

Camera	
Image Sensor	[Panoramic channel]: 1/1.8" progressive scan CMOS, [PTZ channel]: 1/1.2" progressive scan CMOS
Min. Illumination	[Panoramic channel] Color: 0.0005 Lux (F1.0, AGC ON), B/W: 0.0001 Lux (F1.0, AGC ON); [PTZ channel]: 0.0005 Lux (F1.5, AGC ON), B/W: 0.0001 Lux (F1.5, AGC ON), 0 Lux with IR
Shutter Speed	1 s to 1/30000 s
Slow Shutter	Yes
Day & Night	IR cut filter
Zoom	[PTZ channel] 45 × optical, 16 × digital
Max. Resolution	8160 × 3616
Lens	
Focus	Auto, semi-auto, manual, rapid focus
Focal Length	[Panoramic channel] 2mm; [PTZ channel] 7.1-320mm
Zoom Speed	[PTZ channel] Approx. 5.6 s
FOV	[Panoramic channel] Horizontal FOV 360°, vertical FOV 110° ; [PTZ channel]Horizontal FOV 56.6° to 1.8°, vertical FOV 33.7° to 1.0°, diagonal FOV 63.4° to 2.0°
Aperture	[Panoramic channel] Max. F1.0, [PTZ channel] Max. F1.5
Illuminator	
Supplement Light Type	Laser
Supplement Light Range	up to 500 m
Smart Supplement Light	Yes
PTZ	
Movement Range (Pan)	360°
Movement Range (Tilt)	-15° to 90° (auto flip)
Pan Speed	Pan speed: configurable from 0.1° to 500°/s; preset speed: 500°/s
Tilt Speed	Tilt speed: configurable from 0.1° to 350°/s, preset speed 350°/s
Proportional Pan	[Panoramic channel]: no; [PTZ channel]: yes
Presets	300
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans, record time over 10 minutes for each scan
Power-off Memory	Yes
Park Action	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan
3D Positioning	Yes
PTZ Status Display	Yes
Preset Freezing	Yes
Scheduled Task	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output
Video	
Guanlan AI Encoding	[Panoramic channel]: no; [PTZ channel]: yes

Main Stream	[Panoramic channel]: 50Hz: 25fps (32MP：8160×3616×2, 5520×2400×2, 8MP：4096×1800×2,3840×1680×2, 2720×1192×2); 60Hz: 30fps (32MP：8160×3616×2, 5520×2400×2, 8MP：4096×1800×2,3840×1680×2, 2720×1192×2) [PTZ channel]: 50Hz:25fps (3840×2160,2560×1440,1920×1080,1280×960,1280×720) 60Hz: 24fps(3840×2160,2560×1440,1920×1080,1280×960,1280×720)
Sub-Stream	[Panoramic channel]: 50Hz: 25fps (1560×656×2,704×320×2, 8MP: 704×320×2,512×232×2) 60Hz: 30fps (1560×656×2,704×320×2, 8MP: 704×320×2,512×232×2) [PTZ channel]: 50Hz: 25fps(704×576,640×480,352×288); 60Hz: 24fps(704×480,640×480,352×240)
Third Stream	[Panoramic channel]: no [PTZ channel]: 50Hz:25fps (1920×1080,1280×960,1280×720,704×576,640×480,352×288) 60Hz: 24fps(1920×1080,1280×960,1280×720,704×480,640×480,352×240)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264 Sub-stream: H.265/H.264/MJPEG Third stream: H.265/H.264/MJPEG
Audio	
Audio Compression	G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, AAC, PCM
Audio Sampling Rate	PCM: 8 kHz, 16 kHz, 32 kHz, 48 kHz; MP2L2: 16 kHz, 32 kHz, 48 kHz; AAC: 16 kHz, 32 kHz, 48 kHz
Network	
Network Storage	NAS (NFS, SMB/CIFS), ANR
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour
API	Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users. 3 user levels: administrator, operator, and user
Security	Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter
Client	iVMS-4200, HikCentral Pro, Hik-Connect
Web Browser	IE10-11, Chrome 57+, Firefox 52+, Safari 12+
Image	
Day/Night Switch	Day, night, auto, scheduled-switch
Image Enhancement	BLC, HLC, 3D DNR
Wide Dynamic Range (WDR)	[Panoramic channel] no, [PTZ channel] 120 dB
Defog	[Panoramic channel]: no; [PTZ channel]: optical defog
Image Stabilization	EIS (Built-in gyroscope to improve EIS performance),OIS
Regional Exposure	Yes
Regional Focus	Yes
Image Settings	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser

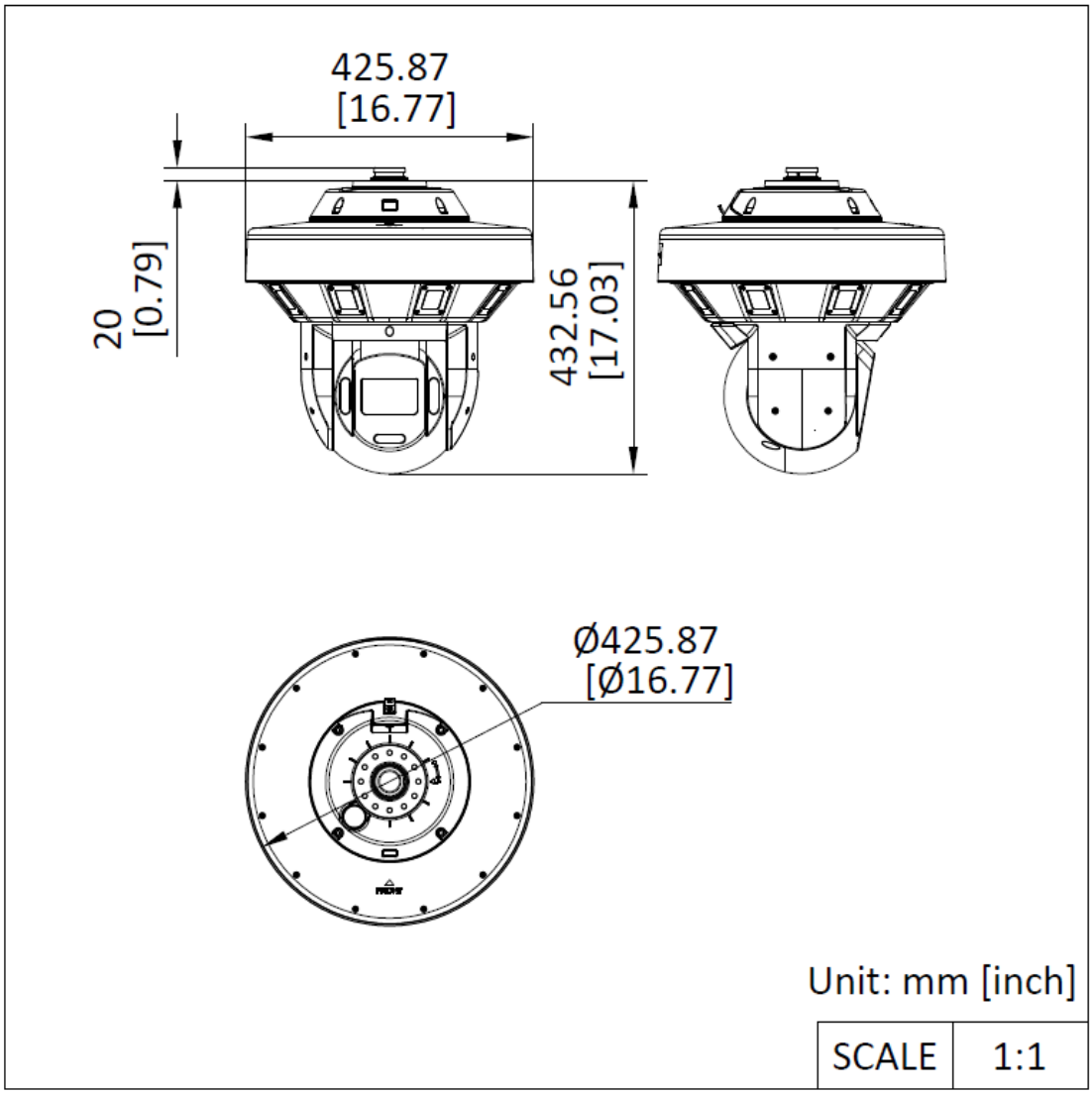
Image Parameters Switch	Yes
Privacy Mask	Programmable polygon privacy masks (8 for panoramic channel, 24 for PTZ channel), mask color or mosaic configurable
SNR	≥ 55 dB
Interface	
Ethernet Interface	1 RJ45 10M/100M/1000M self-adaptive Ethernet port
Fiber Optical	1 FC interface, built-in fiber module, 1000M, TX1310/RX1550 nm wavelength, single module fiber, up to 20 km transmission distance
On-board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1 TB
Alarm	7 alarm inputs, 2 alarm outputs
Audio	1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 KΩ ± 10%; 1 output (line out), line level, output impedance: 600 Ω
RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Reset	Yes
Event	
Smart Event	[Panoramic channel] line crossing detection, intrusion detection, region entrance detection, region exiting detection [PTZ channel] line crossing detection, intrusion detection, region entrance detection, region exiting detection, loitering detection, people gathering detection, fast moving detection, parking detection, unattended baggage detection, object removal detection
Smart Tracking	Manual tracking, auto-tracking, panorama tracking. Support patrol tracking among multiple detection scenes
Alarm Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, and PTZ actions (such as preset, patrol scan, pattern scan)
Deep Learning Function	
Multi-Target-Type Detection	[PTZ channel] Supports simultaneous detection and capture of human body, face and vehicle
People Density	Supports detecting the level of people density in the configured area
Congestion Alarm	Yes
General	
Power	36 VDC±20%, max. 135 W (including max. 12 W for IR)
Operating Condition	-40°C to 70°C (-40°F to 158 °F). Humidity 90% or less (non-condensing)
Wiper	No
Demist	Yes
Material	ADC12
Dimension	Ø 427.6 mm x 425.9 mm(Ø16.8" × 16.7")
Weight	Approx. 14.6kg
Approval	
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 Standard, Lightning Protection, Surge Protection and Voltage Transient Protection, ±6kV Line to Gnd, ±3kV Line to Line, IEC61000-4-5, IK10

▪ DORI

The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view. It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

DORI	Detect	Observe	Recognize	Identify
Definition	25 px/m	63 px/m	125 px/m	250 px/m
[Panoramic channel] Distance	56 m (183.7 ft.)	22.2 m (72.8 ft.)	11.2 m (36.7 ft.)	5.6 m (18.4 ft.)
[PTZ channel] Distance (Tele)	3310.3 m (10860.6 ft.)	1313.6 m (4309.7 ft.)	662.1 m (2172.2 ft.)	331.0 m (1086.0 ft.)

▪ Dimension



▪ Accessory

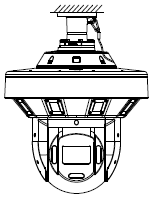
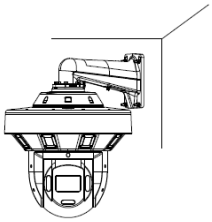
▪ Optional

DS-4614ZJ-PA	DS-4604ZJ-PA	DS-1684ZJ-P





- **Installation Methods**

Pendant Mounting DS-4614ZJ-PA+DS-2115ZJ-P	Wall Mounting DS-4604ZJ-PA
	

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