

DS-2DE4225IW-DE(T5) 2 MP 25 × Network IR Speed Dome

# **Acu**Sense



Hikvision DS-2DE4225IW-DE(T5) 2MP 25× Network IR Speed Dome adopts 1/2.8" progressive scan CMOS chip. With the 25× optical zoom lens, the camera offers more details over expansive areas.

This series of cameras can be widely used for wide ranges of high-definition, such as the rivers, roads, railways, airports, squares, parks, scenic spots, and venues, etc.

Empowered by deep learning algorithms, Hikvision AcuSense technology brings human and vehicle targets classification alarms to front- and back-end devices. The system focuses on human and vehicle targets, vastly improving alarm efficiency and effectiveness.  Focuses on human and vehicle targets classification based on deep learning

HIKVISION

- Support face capture. Up to 5 faces captured at the same time
- 1/2.8" progressive scan CMOS
- High quality imaging with 2 MP resolution
- Excellent low-light performance with powered-by-DarkFighter technology
- 25× optical zoom and 16× digital zoom provide close up views over expansive areas
- Expansive night view with up to 100 m IR distance
- Support H.265+/H.265 video compression





#### 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
Distance (Tele)	2400.0 m (7874.0 ft)	952.4 m (3124.7 ft)	480.0 m (1574.8 ft)	240.0 m (787.4 ft)

### Specification

Camera				
Image Sensor	1/2.8" progressive scan CMOS			
Max. Resolution	1920 × 1080			
Shutter Speed	1 s to 1/30,000 s			
Min. Illumination	Color: 0.005 Lux @ (F1.6, AGC ON); B/W: 0.001 Lux @ (F1.6, AGC ON), 0 Lux with IR			
Slow Shutter	Yes			
Day & Night	IR cut filter			
Zoom	25 × optical, 16 × digital			
Lens				
Focus	Auto, semi-auto, manual			
Aperture	Max. F1.6			
Zoom Speed	Approx. 3.6 s			
Focal Length	4.8 mm to 120 mm			
	Horizontal field of view: 57.6° to 2.5° (wide-tele),			
FOV	Vertical field of view: 34.4° to 1.4° (wide-tele),			
	Diagonal field of view: 64.5° to 2.9° (wide-tele)			
Illuminator				
Supplement Light Type	IR			
Supplement Light Range	IR Distance: up to 100 m			
PTZ				
Proportional Pan	Yes			
Park Action	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan			
Scheduled Task	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan,			
Scheuuleu Task	panorama scan, dome reboot, dome adjust, aux output			
Movement Range (Pan)	360°			
Movement Range (Tilt)	-15° to 90° (auto flip)			
Pan Speed	Pan speed: configurable from 0.1° to 80°/s; preset speed: 80°/s			
Tilt Speed	Tilt speed: configurable from 0.1° to 80°/s, preset speed 80°/s			
Presets	300			
Patrol Scan	8 patrols, up to 32 presets for each patrol			
Pattern Scan	4 pattern scans			
Power-off Memory	Yes			
3D Positioning	Yes			
PTZ Status Display	Yes			



Preset Freezing	Yes		
Video			
	Main stream: H.265+/H.265/H.264+/H.264		
Video Compression	Sub-stream: H.265/H.264/MJPEG		
	Third stream: H.265/H.264/MJPEG		
Region of Interest (ROI)	8 fixed regions for each stream		
	50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720)		
Main Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720)		
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288)		
	60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)		
	50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)		
Third Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)		
Video Bit Rate	32 kbps to 16384 kbps		
Н.264 Туре	Baseline Profile/Main Profile/High Profile		
Н.265 Туре	Main profile		
Scalable Video Coding (SVC)	H.264 and H.265 encoding		
Audio			
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM		
Audio Bit Rate	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32-192 Kbps (MP2L2)		
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/48 kHz		
Environment Noise Filtering	Yes		
Network			
Network Storage	NAS (NFS, SMB/CIFS), auto network replenishment (ANR)		
	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP,		
Protocols	RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour, Websocket, Websockets		
	Open Network Video Interface (Version 19.12, Profile S, Profile G, Profile T), ISAPI, SDK,		
API	ISUP		
Simultaneous Live View	Up to 20 channels		
User/Host	Up to 32 users, 3 user levels: administrator, operator, and user		
	Password protection, complicated password, HTTPS encryption, 802.1X authentication		
Consulta	(EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest		
Security	authentication for HTTP/HTTPS, RTP/RTSP over HTTPS, control timeout settings,		
	security audit log, TLS 1.2, TLS 1.3, host authentication (MAC address)		
Client	iVMS-4200, HikCentral Pro, Hik-Connect		
Web Browser	Chrome 57.0+, Firefox 52.0+, Safari 11+, IE11		
Image			
Image Parameters Switch	Yes		
Imaga Sattinga	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by		
Image Settings	client software or web browser		
Day/Night Switch	Day, Night, Auto, Schedule		
Wide Dynamic Range (WDR)	120 dB		
SNR	> 52 dB		
Defog	Digital defog		
Image Enhancement	BLC, HLC, 3D DNR		
Privacy Mask	24 programmable polygon privacy masks, mask color or mosaic configurable		



Regional Focus	Yes		
Regional Exposure	Yes		
Interface			
Ethernet Interface	1 RJ45 10M/100M self-adaptive Ethernet port		
On-board Storage	Built-in memory card slot, support microSD/SDHC/SDXC card, up to 256 GB		
Alarm	1 input, 1 output		
	1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 k $\Omega$ ± 10%;		
Audio	1 output (line out), line level, output impedance: 600 $\Omega$		
Reset	Yes		
Event			
Basic Event	Motion detection, video tampering alarm, exception, alarm input and output		
	Line crossing detection, intrusion detection, region entrance detection, region exiting		
Smart Event	detection, unattended baggage detection, object removal detection, audio exception		
	detection		
Alarm Linkago	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm		
Alarm Linkage	output, trigger recording, and PTZ actions (such as preset, patrol scan, pattern scan)		
Deep Learning Function			
	Detects up to 5 faces simultaneously.		
Face Capture	Supports detecting, capturing, grading, selecting of face in motion, and output the best		
	face picture of the face		
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting		
	Support alarm triggering by specified target types (human and vehicle)		
General			
Power	12 VDC, max. 18 W, including max. 1.6 W for heater and 9 W for IR;		
	PoE (802.3at)		
Operating Condition	-30 °C to 65 °C (-22 °F to 149 °F). Humidity 90% or less (non-condensing)		
Demist	Yes		
Material	ADC12		
Dimension	Ø 164.5 mm × 290 mm (Ø 6.48" × 11.42")		
Weight	Approx. 2 kg (4.41 lb.)		
Approval			
	FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN		
EMC	61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC		
	(ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015)		
	UL (UL 62368-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013); CE-LVD (EN		
Safety	62368-1:2014+A11:2017); 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), TVS 6000V lightning protection, surge protection and voltage		
	transient protection		

Available Model

DS-2DE4225IW-DE(T5)



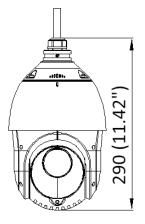
# Typical Application

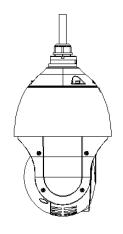
Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

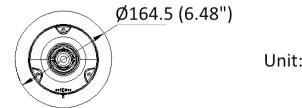
This model has NO SPECIFIC PROTECTION.

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







Unit: mm (inch)



Accessory

Included



Optional

DS-1661ZJ	DS-1005KI	DS-1667ZJ	DS-1663ZJ	DS-1662ZJ
Ĩ				
DS-1604ZJ-corner	DS-1671ZJ-SDM9	DS-1100KI	DS-1604ZJ-pole	DS-1604ZJ-BOX- CORNER
		8		
DS-1604ZJ-box	DS-1682ZJ	DS-1619ZJ	DS-1681ZJ-2	DS-1604ZJ-BOX- POLE
1 1 7 7 0				
DS-1673ZJ	DS-1681ZJ	DS-1602ZJ	DS-1604ZJ	DS-1660ZJ







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