HIKVISION

DS-2DE7S225MW-AEB(F1)(S5)
2 MP 25× Network Speed Dome

AcuSense

Hikvision DS-2DE7S225MW-AEB(F1)(S5) 2 MP 25× Network Speed Dome adopts a 1/1.8" progressive scan CMOS chip and a 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.

- Single channel mode provides a wide-angle view to cover large areas. Dual channel mode provides both overview and detailed view with panoramic and PTZ channels

- Focuses on human and vehicle targets classification based on deep learning in single channel mode

- Supports face capture in single channel mode. Up to 5 faces captured at the same time

- Active strobe light and audio alarm to warn intruders off

- High quality imaging with 2 MP resolution

- 24/7 colorful imaging for the fixed-focal lens and excellent low-light performance with powered-by-DarkFighter technology for the varifocal lens

- 25× optical zoom provides close up views over expansive areas

- Expansive night view with up to 200 m IR distance

▪ 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)	1600.0 m (5249.3 ft)	634.9 m (2083.0 ft)	320.0 m (1049.9 ft)	160.0 m (524.9 ft)

▪ Specification

Camera Module	
Image Sensor	[fixed-focal] 1/1.8" progressive scan CMOS; [varifocal] 1/2.8" progressive scan CMOS
Min. Illumination	[fixed-focal] Color: 0.0005 Lux @ (F1.0, AGC ON); 0 Lux with light; [varifocal] Color: 0.005 Lux @ (F1.6, AGC ON); B/W: 0.001 Lux @(F1.6, AGC ON); 0 Lux with IR
Shutter Speed	1/1 s to 1/30000 s
Slow Shutter	yes
Focus	semi-auto, manual, auto
Day & Night	[fixed-focal] 24/7 colorful imaging; [varifocal] ICR
Day/Night Switch	day, night, auto, scheduled-switch
BLC	yes
WDR	digital WDR
HLC	yes
3D DNR	yes
Defog	yes
EIS	yes
Regional Exposure	yes
Regional Focus	yes
Image Settings	saturation, brightness, contrast, sharpness
Image Parameters Switch	yes
White Balance	auto, ATW, sodium lamp, fluorescent lamp, indoor, outdoor, MWB, Locked WB
Digital Zoom	16×
Optical Zoom	25×
Privacy Mask	up to 24 masks, polygon region, mosaic mask, mask color configurable
SNR	>52dB
General Function	mirror, password protection, watermark, IP address filter
Lens	
Focal Length	[fixed-focal] 4 mm; [varifocal] 4.8 mm to 120 mm, 25× Optical
Zoom Speed	approx. 4.4 s

FOV	[fixed-focal] horizontal field of view: 88.7°, vertical field of view: 46.5°, diagonal field of view: 105.0°; [varifocal] Horizontal field of view: 57.6° to 2.5° (wide-tele), Vertical field of view: 34.4° to 1.4° (wide-tele), Diagonal field of view: 64.5° to 2.9° (wide-tele)
Aperture	[fixed-focal] F1.0; [varifocal] F1.6
PTZ	
Movement Range (Pan)	360°
Movement Range (Tilt)	-15° to 90° (auto flip)
Pan Speed	pan speed: configurable from 0.1° to 160°/s; preset speed: 240°/s
Tilt Speed	tilt speed: configurable from 0.1° to 120°/s, preset speed 200°/s
Proportional Zoom	yes
Presets	300
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans
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	
Max. Resolution	1920 × 1080
Stream Type	main stream, sub-stream
Main Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720); 60 Hz: 20 fps (1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288); 60 Hz: 20 fps (704 × 480, 640 × 480, 352 × 240)
Video Compression	H.265, H.264, MJPEG
Video Bit Rate	32 kbps to 16384 kbps
H.264 Type	baseline profile, main profile, high profile
H.265 Type	main profile
H.264+	yes
H.265+	yes
SVC	yes
ROI	Fixed region, main stream, sub-stream and third stream respectively support eight fixed areas
Audio	
Audio Compression	G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, AAC, PCM

Audio Bit rate	G.722.1: 16Kbps,G.711ulaw: 64Kbps, G.711alaw: 64Kbps, MP2L2: 32 kbps, 40 kbps, 48 kbps, 56 kbps, 64 kbps, 80 kbps, 96 kbps, 112 kbps, 128 kbps, 144 kbps, 160 kbps, 192 kbps; AAC: 16 kbps, 32 kbps, 64 kbps
Audio Sampling Rate	MP2L2: 16kHz, 32kHz, 48kHz, AAC: 16kHz, 32kHz, 48kHz,PCM: 8kHz, 16kHz, 32kHz, 48kHz
Environment Noise Filtering	yes
Smart Features	
Face Capture	yes
Basic Event	audio exception, motion detection, alarm input, alarm output, video tampering alarm, exception
Smart Event	intrusion detection, line crossing detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection
Smart Record	ANR, Dual-VCA
Alarm Linkage	preset, patrol scan, pattern scan, memory card video recording, alarm output, sending email, notify surveillance center, upload to FTP, audible warning, white light flashing
Warning and Alert	audible warning, white light warning
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle)
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	ISAPI, Hikvision SDK, Hik-Connect, ISUP, Open Network Video Interface
Simultaneous Live View	Up to 20 channels
User/Host	32
Security Measures	Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter
Client	iVMS-4200, Hik-Connect
Web Browser	IE10-11, Chrome 57+, Firefox 52+, Safari 12+
Interface	
Communication Interface	RJ45, self-adaptive 10M/100M Ethernet port
On-board Storage	support microSD/microSDHC/microSDXC cards, up to 256 GB
Alarm Input	2 alarm inputs
Alarm Output	1 alarm output
Audio Input	1 audio input, 2.0 to 2.4Vp-p, 1k Ohm±10%
Audio Output	1 audio output
Supplement Light	
IR Distance	Up to 200 m
White Light Distance	Up to 30 m
Visual Alarm	White light
General	
Power	24 VAC, Hi-PoE
Power Consumption and Current	Max. 42 W, including max. 15 W for supplement light
Operating Conditions	-30°C to 65°C (-22°F to 149°F), humidity lower than 90%RH
Reset	yes
Demist	yes

Material	ADC12
Dimensions	Ø 226.1 mm × 362.5 mm (Ø 8.9" × 14.3")
Weight	approx. 4.8 kg (10.58 lb.)
Approval	
Protection	IP66, IK10 (excluding glass window), 6000V Lightning Protection, Surge Protection and Voltage Transient Protection

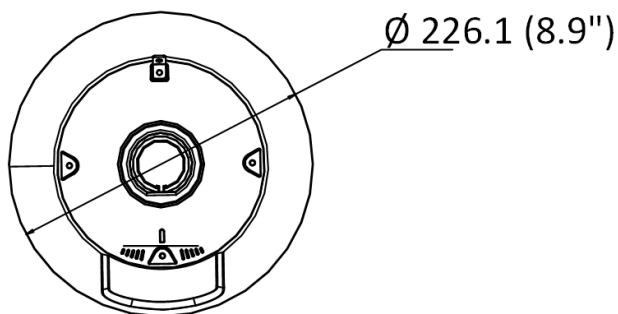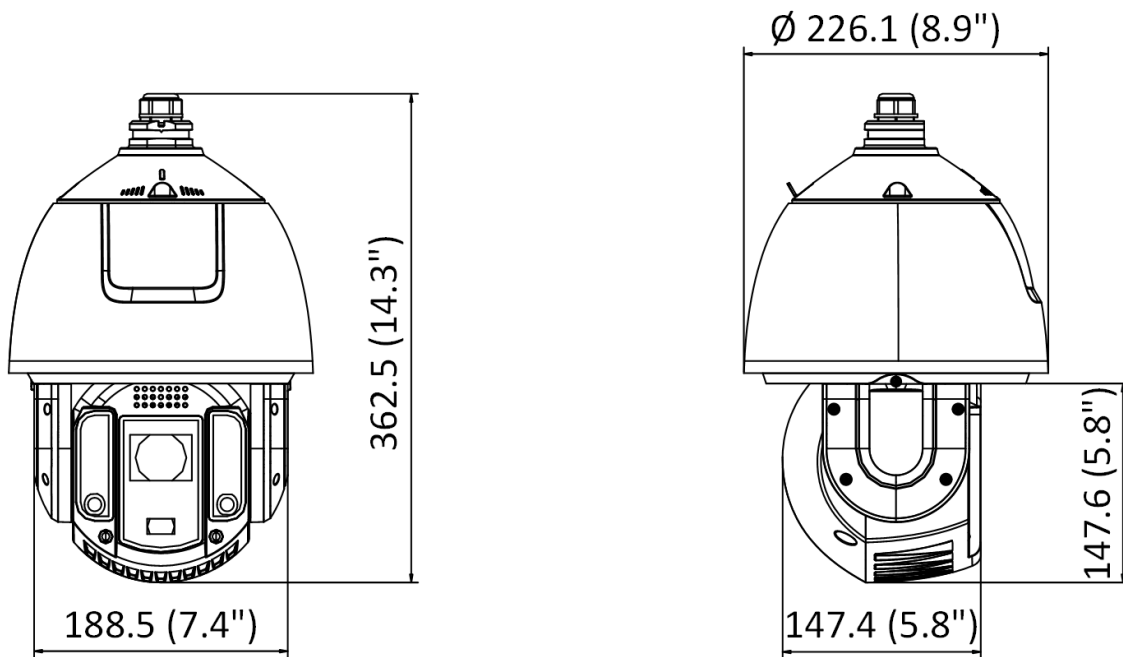## ▪ Available Model

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▪ 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.

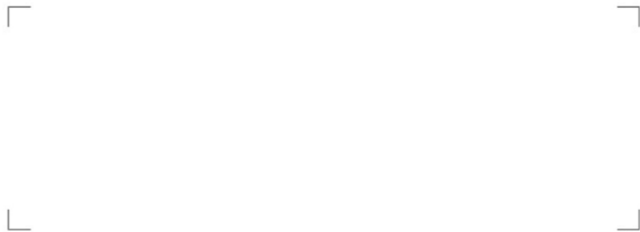| Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are 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

∅ 226.1 (8.9")

362.5 (14.3")

188.5 (7.4")

147.6 (5.8")

147.4 (5.8")

∅ 226.1 (8.9")

Unit: mm (inch)

▪ Accessory

▪Optional

DS-1661ZJ Pendant Mount	DS-1602ZJ-Corner Corner mount	DS-1602ZJ-Pole Vertical pole mount	DS-1602ZJ Wall mount

HIKVISION

HIKVISION®

Headquarters
No.555 Qianmo Road, Binjiang District,
Hangzhou 310051, China
T +86-571-8807-5998
overseasbusiness@hikvision.com

Hikvision USA T +1-909-895-0400 sales.usa@hikvision.com	**Hikvision Europe** T +31-23-5542770 sales.eu@hikvision.com	**Hikvision UK & Ireland** T +01628-902140 sales.uk@hikvision.com	**Hikvision UAE** T +971-4-4432090 salesme@hikvision.com	**Hikvision Russia** T +7-495-669-67-99 saleru@hikvision.com
Hikvision Australia T +61-2-8599-4233 salesau@hikvision.com	**Hikvision Italy** T +39-0438-6902 info.it@hikvision.com	**Hikvision South Africa** Tel: +27 (10) 0351172 sale.africa@hikvision.com	**Hikvision Singapore** T +65-6684-4718 sg@hikvision.com	**Hikvision Korea** T +82-(0)31-731-8817 sales.korea@hikvision.com
Hikvision India T +91-22-28469900 sales@pramahikvision.com	**Hikvision Brazil** T +55 11 3318-0050 Latam.support@hikvision.com	**Hikvision France** T +33(0)1-85-330-450 info.fr@hikvision.com	**Hikvision Spain** T +34-91-737-16-55 info.es@hikvision.com	**Hikvision Poland** T +48-22-460-01-50 info.pl@hikvision.com
Hikvision Canada T +1-866-200-6690 sales.canada@hikvision.com	**Hikvision Turkey** T +90 (216)521 7070- 7074 sales.tr@hikvision.com	**Hikvision Kazakhstan** T +7-727-9730667 nikia.panfilov@hikvision.ru	**Hikvision Tashkent** T +99-87-1238-9438 uzb@hikvision.ru	**Hikvision Indonesia** T +62-21-2933759 Sales.Indonesia@hikvision.com
Hikvision Thailand T +662-275-9949 sales.thailand@hikvision.com	**Hikvision Malaysia** T +601-7652-2413 sales.my@hikvision.com	**Hikvision Vietnam** T +84-974270888 sales.vt@hikvision.com	**Hikvision Hong Kong** T +852-2151-1761 info.hk@hikvision.com	**Hikvision Colombia** sales.colombia@hikvision.com