

DS-2SE4C225MWG-E(12F0) TandemVu 2 MP 25 × IR Network Speed Dome

AcuSense



Hikvision DS-2SE4C225MWG-E(12F0) 2 MP 25 × IR Network 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 rivers, roads, railways, airports, squares, parks, scenic spots, and venues, etc.

- Captures a large area and great details at the same time
- High quality imaging with 2 MP resolution
- Excellent low-light performance with powered-by-DarkFighter technology and ColorVu technology
- Secures an expansive area with 25× optical zoom and 16× digital zoom
- Supports WDR, HLC, BLC, 3D DNR, defog, regional exposure, regional focus
- Expansive night view with up to 100 m IR distance & 30 m white light
- Supports 12V DC & PoE+
- Focuses on human and vehicle targets classification based on deep learning

▪ Specification

| Camera | |
|------------------------|--|
| Image Sensor | [Bullet channel]: 1/2.8" Progressive Scan CMOS; [PTZ channel]: 1/2.8" progressive scan CMOS |
| Min. Illumination | [Bullet channel]: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with light; [PTZ channel]: Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0.001 Lux @ (F1.6, AGC ON), 0 Lux with IR |
| Shutter Speed | 1 s to 1/30,000 s |
| Slow Shutter | yes |
| Focus | semi-auto,manual,auto |
| Day & Night | ICR |
| Zoom | [PTZ channel] 25 × optical, 16 × digital |
| Day/Night Switch | day, night, auto, scheduled-switch |
| White Balance | auto,ATW,sodium lamp,fluorescent lamp,indoor,outdoor,MWB,Locked WB |
| Max. Resolution | [Bullet channel] 1920 × 1080, [PTZ channel] 1920 × 1080 |
| Lens | |
| Focal Length | [Bullet channel]: 2.8 mm; [PTZ channel]: 4.8 to 120 mm, 25 × optical |
| Zoom Speed | [PTZ channel]: approx. 3.6 s |
| FOV | [Bullet channel]: Horizontal field of view: 106.1°, Vertical field of view: 56.8° , Diagonal field of view: 126.5°; [PTZ channel]: Horizontal field of view: 54.8° to 2.8° (wide-tele), Vertical field of view: 31.4° to 1.5° (wide-tele), Diagonal field of view: 62.2° to 3.2° (wide-tele) |
| Aperture | [Bullet channel]: F1.0; [PTZ channel]: F1.6 |
| Illuminator | |
| Supplement Light Type | [PTZ channel]: IR; [Bullet channel]: White Light |
| Smart Supplement Light | Yes |
| Supplement Light Range | [PTZ channel]: up to 100 m; [Bullet channel]: up to 30 m |
| PTZ | |
| 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 |
| 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 |

| | |
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| Scheduled Task | preset,pattern scan,patrol scan,auto scan,tilt scan,random scan,frame scan,panorama scan,dome reboot,dome adjust,aux output |
| Exception Detection | IP address conflict, HDD full, illegal login, HDD error, network disconnected, Abnormal Reboot |
| Video | |
| Region of Interest (ROI) | 8 fixed regions for each stream |
| Stream Type | main stream,sub-stream,third stream |
| Main Stream | [Bullet channel]: 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720) [PTZ channel]: 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720) |
| Sub-Stream | [Bullet channel]: 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240) [PTZ channel]: 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240) |
| Third Stream | [Bullet channel]: 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240) [PTZ channel]: 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 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 |
| Audio | |
| Audio Compression | G.711,G.722.1,G.726,MP2L2,PCM,AAC-LC |
| Audio Bit Rate | 32 to 160 Kbps (MP2L2),16 to 64Kbps (AAC-LC) |
| Audio Sampling Rate | 8 kHz,16 kHz,32 kHz,48 kHz |
| Environment Noise Filtering | yes |
| Smart Features | |
| Smart Record | ANR,Dual-VCA |
| Network | |
| API | Open Network Video Interface (Profile S, Profile G, Profile T),ISAPI,SDK,ISUP |
| 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,WebSocket,WebSockets |
| Simultaneous Live View | 20 |
| User/Host | 32 |

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| 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 | IE 10+, Chrome 57+, Firefox 52+, Safari 12+ |
| Image | |
| Image Settings | sharpness, saturation, brightness, contrast |
| Wide Dynamic Range (WDR) | 120 dB |
| SNR | ≥ 52 dB |
| Defog | Digital defog |
| Image Stabilization | EIS |
| Image Enhancement | BLC,HLC,3D DNR |
| Regional Focus | Yes |
| Regional Exposure | Yes |
| Image Parameters Switch | Yes |
| Privacy Mask | [Bullet channel] 8 programmable polygon privacy masks, [PTZ channel] 24 programmable polygon privacy masks; mask color or mosaic configurable |
| Interface | |
| Communication Interface | RJ45, self-adaptive 10M/100M Ethernet port |
| On-board Storage | Built-in memory card slot, support Micro SD/Micro SDHC/Micro SDXC, up to 256 GB |
| Alarm Input | 1 alarm input |
| Alarm Output | 1 alarm output |
| Audio Input | 1 audio input, 2.0 to 2.4Vp-p, 1k Ohm±10% |
| Audio Output | 1 audio output, line level, impedance: 600 Ω |
| Event | |
| Basic Event | Motion detection,video tampering alarm,exception,alarm input and output |
| Smart Event | audio exception detection,region entrance detection,region exiting detection,intrusion detection,Line crossing detection |
| Alarm Linkage | [Bullet channel] Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, and trigger recording [PTZ channel] 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 | |
| Face Capture | [Bullet channel] no,[PTZ channel] yes |
| General | |
| General Function | mirror,password protection,watermark,IP address filter |
| Power | 12VDC, PoE+ |
| Power Consumption and Current | Max. 24 W, including max. 2.6 W for heater and max. 11 W for supplement light |
| Operating Conditions | -30°C to 65°C (-22°F to 149°F) ,humidity lower than 90%RH |
| Reset | yes |
| Demist | Demist by heating the glass |
| Material | ADC12 |
| Dimensions | ∅ 166 mm × 375 mm (∅ 6.5" × 14.7") |
| Weight | Approx. 2.4 kg (13.2 lb.) |

Approval

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| Protection | IP66 Standard, 6000 V Lightning Protection, Surge Protection and Voltage Transient Protection |
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▪ DORI

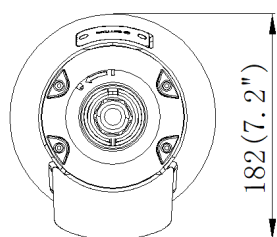
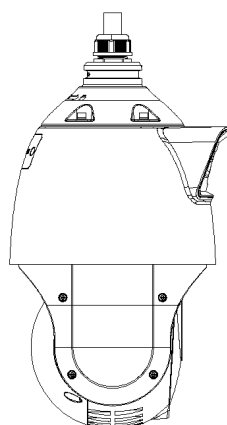
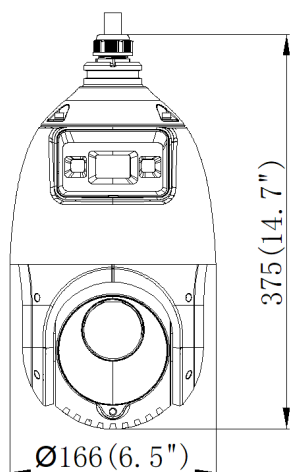
The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view. It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

| DORI | Detect | Observe | Recognize | Identify |
|-----------------|-----------------------|----------------------|---------------------|--------------------|
| Definition | 25 px/m | 63 px/m | 125 px/m | 250 px/m |
| Distance (Tele) | 1517.2 m (4977.69 ft) | 602.1 m (1975.39 ft) | 303.4 m (995.41 ft) | 151.7 m (497.7 ft) |

▪ Available Model

DS-2SE4C225MWG-E(12F0)

▪ Dimension



Unit:mm (inch)

▪ Accessory

▪ Optional

| | | | | |
|-----------------------------------|--------------------------------|---|-----------------------------------|------------------------------|
| DS-1661ZJ Pendant Mount | DS-1618ZJ Wall Mount | DS-1681ZJ-2 Installation Adapter | DS-1663ZJ Ceiling Mount | DS-2681ZJ PT Joint |
|-----------------------------------|--------------------------------|---|-----------------------------------|------------------------------|



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