

**DS-2DE4225WG1-E3****2 MP 25X Powered by DarkFighter In-Ceiling Network Speed Dome**

Hikvision DS-2DE4225WG1-E3 2 MP 25 × 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 different indoor environment.

- Excellent low-light performance with powered-by-DarkFighter and AI-ISP technology
- High focus speed with self-learning focus technology keep the picture clear every single second
- High quality imaging with 2 MP resolution
- 25 × optical zoom allows for closer viewing of subjects in expansive areas
- WDR, HLC, BLC, 3D DNR, defog, regional exposure, regional focus
- Pan and tilt ability enables camera to monitor zones of interest
- 12 VDC & PoE (802.3at)
- Support link to hikvision network speakers and network microphones to play audio
- Improve playback efficiency and be compatible with the AcuSeek and AcuSearch technologies of NVR for combined use

## ▪ Specification

| Camera                |                                                                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor          | 1/2.8" progressive scan CMOS                                                                                                                                                 |
| Max. Resolution       | 1920 × 1080                                                                                                                                                                  |
| Min. Illumination     | Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0.001 Lux @ (F1.6, AGC ON)                                                                                                           |
| Shutter Speed         | 1 s to 1/30,000 s                                                                                                                                                            |
| Day & Night           | IR cut filter                                                                                                                                                                |
| Zoom                  | 25 × optical, 16 × digital                                                                                                                                                   |
| Slow Shutter          | Yes                                                                                                                                                                          |
| Lens                  |                                                                                                                                                                              |
| Focal Length          | 4.8 mm to 120 mm                                                                                                                                                             |
| FOV                   | Horizontal field of view: 57.6° to 2.5° (wide-tele),<br>Vertical field of view: 34.4° to 1.4° (wide-tele),<br>Diagonal field of view: 64.5° to 2.9° (wide-tele)              |
| Focus                 | Auto, semi-auto, manual                                                                                                                                                      |
| Aperture              | Max. F1.6                                                                                                                                                                    |
| Zoom Speed            | Approx. 3.6 s                                                                                                                                                                |
| PTZ                   |                                                                                                                                                                              |
| Movement Range (Pan)  | 360°                                                                                                                                                                         |
| Movement Range (Tilt) | 0° to 90°                                                                                                                                                                    |
| Pan Speed             | Pan speed: configurable from 0.1° to 160°/s; preset speed: 160°/s                                                                                                            |
| Tilt Speed            | Pan speed: configurable from 0.1° to 160°/s; preset speed: 160°/s                                                                                                            |
| Proportional Pan      | Yes                                                                                                                                                                          |
| Presets               | 300                                                                                                                                                                          |
| Preset Freezing       | Yes                                                                                                                                                                          |
| Patrol Scan           | 8 patrols, up to 32 presets for each patrol                                                                                                                                  |
| Pattern Scan          | 4 pattern scans                                                                                                                                                              |
| Park Action           | Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan                                                                              |
| 3D Positioning        | Yes                                                                                                                                                                          |
| PTZ Status Display    | Yes                                                                                                                                                                          |
| Scheduled Task        | Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output                                        |
| Power-off Memory      | Yes                                                                                                                                                                          |
| Video                 |                                                                                                                                                                              |
| Main Stream           | 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720)<br>60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720)                                                                   |
| Sub-Stream            | 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288)<br>60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)                                                                           |
| Third Stream          | 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)<br>60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240) |
| Video Compression     | Main stream: H.265+/H.265/H.264+/H.264<br>Sub-stream: H.265/H.264/MJPEG<br>Third 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                                                                                                                                                                                                                                                                            |
| Scalable Video Coding (SVC) | H.264 and H.265 encoding                                                                                                                                                                                                                                                                |
| Region of Interest (ROI)    | 8 fixed regions for each stream                                                                                                                                                                                                                                                         |
| <b>Audio</b>                |                                                                                                                                                                                                                                                                                         |
| Audio Compression           | G.711/G.722.1/G.726/MP2L2/PCM/AAC-LC                                                                                                                                                                                                                                                    |
| Audio Bit Rate              | 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                                                                                                                                                                  |
| Audio Sampling Rate         | MP2L2: 16 kHz, 32 kHz, 48 kHz, PCM: 8 kHz, 16 kHz, 32 kHz, 48 kHz                                                                                                                                                                                                                       |
| Environment Noise Filtering | Yes                                                                                                                                                                                                                                                                                     |
| <b>Network</b>              |                                                                                                                                                                                                                                                                                         |
| 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      | Up to 20 channels                                                                                                                                                                                                                                                                       |
| API                         | Open Network Video Interface (Version 19.12, Profile S, Profile G, Profile T), ISAPI, SDK, ISUP                                                                                                                                                                                         |
| User/Host                   | Up to 32 users; 3 user levels: administrator, operator, and user                                                                                                                                                                                                                        |
| Security                    | Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, control timeout settings, security audit log, TLS 1.2, host authentication (MAC address) |
| Network Storage             | NAS (NFS, SMB/CIFS)                                                                                                                                                                                                                                                                     |
| Client                      | iVMS-4200, HikCentral Pro, Hik-Connect                                                                                                                                                                                                                                                  |
| Web Browser                 | IE11, Chrome57+, Firefox52+, Safari11+                                                                                                                                                                                                                                                  |
| <b>Image</b>                |                                                                                                                                                                                                                                                                                         |
| Image Parameters Switch     | Yes                                                                                                                                                                                                                                                                                     |
| Image Settings              | Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by 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                                                                                                                                                                                                                                                                                     |
| VR View                     | 360° Real Scene Stitched Panoramic Image                                                                                                                                                                                                                                                |
| <b>Interface</b>            |                                                                                                                                                                                                                                                                                         |
| Ethernet Interface          | 1 RJ45 10 M/100 M self-adaptive Ethernet port                                                                                                                                                                                                                                           |
| On-board Storage            | Built-in memory card slot, support microSD/SDHC/SDXC card, up to 256 GB                                                                                                                                                                                                                 |
| Audio                       | 1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 K $\Omega$ $\pm$ 10%; 1 output (line out), line level, output impedance: 600 $\Omega$                                                                                                                            |
| Alarm                       | 1 alarm input, 1 alarm output                                                                                                                                                                                                                                                           |
| Reset                       | Yes                                                                                                                                                                                                                                                                                     |
| <b>Event</b>                |                                                                                                                                                                                                                                                                                         |
| Basic Event                 | Motion detection, video tampering alarm, exception, alarm input and output                                                                                                                                                                                                              |

|                               |                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Smart Event                   | Line crossing detection, intrusion detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection, audio exception detection                                                                                    |
| 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)                                                                                             |
| <b>Deep Learning Function</b> |                                                                                                                                                                                                                                                                         |
| Regional People Counting      | Supports up to 8 detection regions, and independent arming schedule and linkage method<br>Supports 3 detection modes: people density detection, number of people exception detection, waiting time exception detection<br>Supports searching real-time number of people |
| <b>General</b>                |                                                                                                                                                                                                                                                                         |
| Power                         | 12 VDC, 2.0 A, max. 24 W; PoE (802.3 at)                                                                                                                                                                                                                                |
| Dimension                     | Ø 165 mm × 179.5 mm (Ø 6.5" × 7.1")                                                                                                                                                                                                                                     |
| Weight                        | Approx. 2 kg (4.41 lb.)                                                                                                                                                                                                                                                 |
| Material                      | ADC 12, PC+ABS, PC/PMMA                                                                                                                                                                                                                                                 |
| Operating Condition           | -10 °C to 50 °C (-10 °F to 122 °F). Humidity 90% or less (non-condensing)                                                                                                                                                                                               |
| <b>Approval</b>               |                                                                                                                                                                                                                                                                         |
| EMC                           | CE-EMC (EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-3-2:2019+A1:2021+A2:2024, EN 61000-3-3:2013+A1:2019+A2:2021), RCM (AS/NZS CISPR 32: 2015)                                                                                                          |
| Safety                        | CB (IEC 62368-1:2014), CE-LVD (EN 62368-1:2014 + A11:2017)                                                                                                                                                                                                              |
| Environment                   | CE-RoHS (2011/65/EU);<br>WEEE (2012/19/EU);<br>Reach (Regulation (EC) No 1907/2006)                                                                                                                                                                                     |
| Protection                    | TVS 6000V lightning protection, surge protection and voltage transient protection                                                                                                                                                                                       |

## ▪ 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.

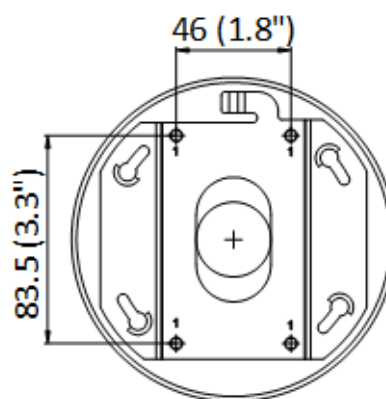
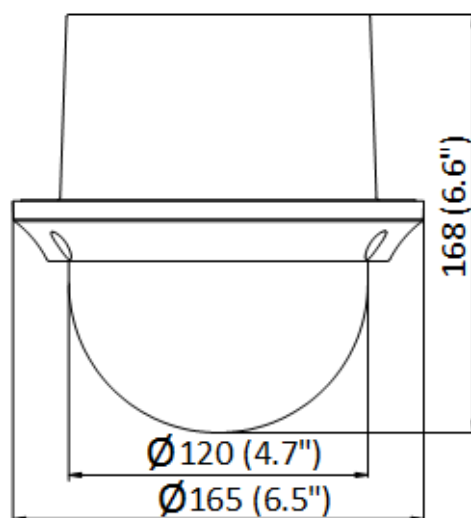
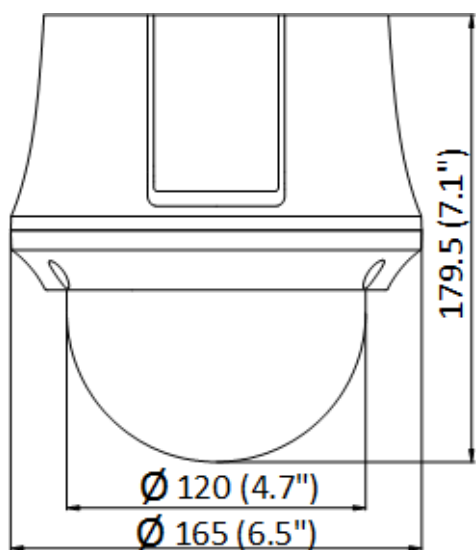
It is calculated based on the camera sensor specification and the criteria given by EN 62676-4:2015.

| DORI            | Detect               | Observe             | Recognize           | Identify           |
|-----------------|----------------------|---------------------|---------------------|--------------------|
| Definition      | 25 px/m              | 63 px/m             | 125 px/m            | 250 px/m           |
| Distance (Tele) | 1655.2 m (5430.4 ft) | 656.8 m (2154.9 ft) | 331.0 m (1086.1 ft) | 165.5 m (543.0 ft) |
| Distance (Wide) | 66.2 m (217.2 ft)    | 26.3 m (86.2 ft)    | 13.2 m (43.4 ft)    | 6.6 m (21.7 ft)    |

## ▪ Available Model

DS-2DE4225WG1-E3

## ▪ Dimension



Unit: mm (inch)

- Accessory
- Included

| DS-2DE4425WG1<br>-E3                                                                | DS-2DE4225WG-<br>E3                                                                  |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |

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