



2310111187

DS-2DE4425IW-DE(T5) Network PTZ Camera 4MP

Network PTZ Camera

- ✓ Up to 5 faces captured at the same time
- ✓ 1/2.8" progressive scan CMOS
- ✓ High quality imaging with 4 MP resolution
- ✓ Excellent low-light performance with powered-by-DarkFighter technology
- ✓ 25x optical zoom and 16x 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

 IP66  H.264

Description

The DS-2DE4425IW-DE(T5) Network PTZ Camera 4MP adopts a 1/2.8" progressive scan CMOS chip. The maximum resolution is 2560 x 1440 with a shutter speed of 1 s to 1/30,000 s. It is empowered by deep learning algorithms with a system that vastly improves alarm efficiency and effectiveness. It focuses on human and vehicle targets classification based on deep learning and supports face capture with up to 5 faces captured at the same time.

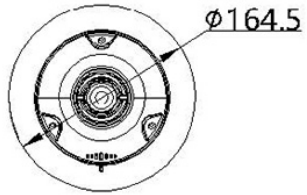
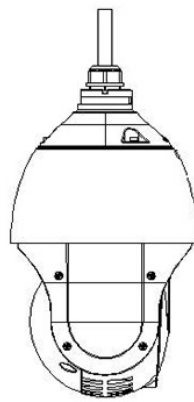
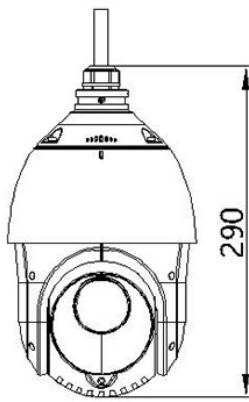
The camera boasts excellent low-light performance with powered-by-DarkFighter technology. It also has both 25x optical zoom and 16x digital zoom that provide close up views over expansive areas making it quite suitable for the maritime industry. The movement range is 360° (pan) and -15° to 90° (auto flip tilt). Additionally, it has expansive night view with up to 100 m IR distance.

DS-2DE4425IW-DE(T5) Network PTZ Camera 4MP

The network camera supports H.265+ / H.265 video compression which reduces bandwidth and storage requirements.

It is encased in aluminum housing with 100m IR illumination and is 12VDC or PoE+ or High PoE midspan supported (18W). This PTZ camera is IP66 rated for outdoor use. Supported web browsers include Chrome 57.0+, Firefox 52.0+, Safari 11+, and IE11.

Technical Dimensions



Unit:mm

Specifications

CAMERA

| | |
|-------------------|---|
| Image Sensor | 1/2.8" progressive scan CMOS |
| Max. Resolution | 2560 × 1440 |
| Min. Illumination | 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 |
| Day & Night | IR cut filter |
| Zoom | 25x optical, 16x 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 |
| FOV | Horizontal field of view: 55° to 2.4° (wide-tele) |
| | Vertical field of view: 33° to 1.4° (wide-tele) |
| | Diagonal field of view: 61.5° to 2.8° (wide-tele) |

ILLUMINATOR

| | |
|--------------------------|--------------------------|
| Supplemental Light Type | IR |
| Supplemental 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, panorama scan, dome reboot, dome adjust, auxiliary 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

| | |
|-----------------------------|--|
| 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 |
| Region of Interest (ROI) | 8 fixed regions for each stream |
| Main Stream | 50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) |
| | 60 Hz: 30 fps (2560 × 1440, 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) |
| Third Stream | 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 Bit Rate | 32 kbps to 16384 kbps |
| H.264 Type | Baseline Profile/Main Profile/High Profile |
| H.265 Type | 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) |
| 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 |
| API | Open Network Video Interface (Version 19.12, 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 | 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, 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 |
| 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 Stabilization | EIS |
| 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 |
| Audio | 1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 k Ω \pm 10%; 1 output (line out), line level, output impedance: 600 Ω |
| Reset | Yes |

EVENT

| | |
|---------------|--|
| 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 |
| 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

| | |
|----------------------|--|
| Face Capture | Detects up to 5 faces simultaneously. 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 |
| Dimensions | Ø 164.5 mm × 290 mm |
| Weight | Approx. 2 kg |

APPROVAL

| | |
|-------------|---|
| EMC | FCC SDoC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC VoC (ICES-003: Issue 6, 2019); KC (KN 32: 2015, KN 35: 2015) |
| Safety | UL (UL 62368-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014); CE-LVD (EN 62368-1:2014+A11:2017); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015); LOA (SANS IEC60950-1) |
| 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 |

Accessories



DS-1602ZJ- bracket with junction box

Wall mount bracket with junction box for indoor/outdoor use.



Wall Mount for DS-2DE4X

Wall Mount Pendant



LAS60-57CN-RJ45

60W High PoE midspan (PoE injector)
110-230VAC