

## DS-2DE4220IW-DE 2MP 20X Network IR PTZ Dome Camera



Hikvision DS-2DE4220IW-DE PTZ Dome Cameras are able to capture high quality images in low light environment with its black anti-reflective glass. The black anti-reflective glass increase the luminousness which can reach up to 100m IR distance.

Embedded with 1/2.8" progressive scan CMOS chip makes DWDR and 2MP real-time resolution possible. With the 20X optical zoom Day/Night lens, the camera offers more details over expansive areas.

Hikvision DS-2DE4220IW-DE PTZ Dome Cameras also features a wide range of functions, including intrusion detection, line crossing detection benefitting users with great improvement on security efficiency, more importantly, with key events / objects being recorded for further forensic needs.

### Key Features

- 1/2.8" Progressive Scan CMOS
- 1920 x 1080
- 20X Optical Zoom
- DWDR
- 3D intelligent positioning function
- Support cloud P2P
- Up to 100m IR distance
- 12VDC & POE(802.3at)



## Function Description

### Basic function

- High performance sensor, up to 1920 x 1080 resolution
- $\pm 0.1^\circ$  Preset Accuracy
- ONVIF(Open Network Video Interface Forum), CGI(Common Gateway Interface), PSIA(Physical Security Interoperability Alliance), to ensure greater interoperability between different platforms and compatibility
- 3D intelligent positioning function
- Power-off memory function: restore PTZ & Lens status after reboot
- IP66 standard
- Support cloud P2P

### Functions

- Detections: intrusion detection, line crossing detection, audio exception, motion detection
- Recording: edge recording, support smart search in smart NVR
- Support low bit rate, ROI

### Camera function

- Auto iris, auto focus, auto white balance, backlight compensation and auto day & night switch
- Min. Illumination: 0.05Lux@(F1.6,AGC ON)(Color), 0.01Lux@(F1.6,AGC ON)(B/W), 0 Lux with IR
- Support 8 privacy masks

### PTZ functions

- 360° endless pan range and -15°-90° tilt range
- 80°/s Pan Preset Speed and 80°/s Tilt Preset Speed
- 0.1°-80°/s Manual Pan Speed and 0.1°-80°/s Manual Tilt Speed
- 300 presets programmable;
- 8 patrols, up to 32 presets per patrol

### Network function

- H.264/ MJPEG video compression and the latest processing chip and platform
- Built-in Web server
- Micro SD card local storage, up to 128GB
- Support up to 8 NAS storage; Transmit the videos from SD card to the NAS after network resumed
- HTTPS encryption and IEEE 802.1x port-based network access control
- Support three streams; H.264/MJPEG video compression; Basic and advanced video configuration; Real time video at 1080P or 720P
- Multiple network protocols supported: IPv4/IPv6, TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS
- 1 audio input and 1 audio output.

### IR function

- 0 Lux minimum illumination
- Up to 100m IR distance
- IR light MTBF reaching up to 30,000 hours
- Smart IR mode

## Specifications

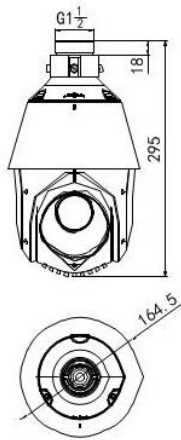
|                       |  |
|-----------------------|--|
| <b>Model</b>          | <b>DS-2DE4220IW-DE</b>   |
| <b>Camera Module</b>  |  |
| Image Sensor          | 1/2.8" Progressive Scan CMOS   |
| Min. Illumination     | F1.6, AGC On: Color: 0.05 lux, B/W : 0.01 lux, 0 lux with IR   |
| Max. Image Resolution | 1920 × 1080  |
| Focal Length          | 4.7-94.0mm, 20x  |
| Digital Zoom          | 16X  |
| Zoom Speed            | Approx.3s(Optical Wide~Tele)   |
| Angle of View         | 58.3-3.2 degree (Wide~Tele)  |
| Min. Working Distance | 10~1,000mm(Wide~Tele)  |
| Aperture Range        | F1.6~F3.5  |
| Focus Mode            | Auto / Semiautomatic / Manual  |
| DWDR                  | Support  |
| Shutter Time          | 1-1/10,000s  |
| AGC                   | Auto / Manual  |
| White Balance         | Auto / Manual /ATW/Indoor/Outdoor/Daylight lamp/Sodium lamp  |
| Day & Night           | IR Cut Filter  |
| Privacy Mask          | 8 privacy masks programmable   |
| Enhancement           | 3D DNR, Defog, HLC/BLC, EIS  |
| <b>Pan and Tilt</b>   |  |
| Range                 | Pan:360° endless; Tilt: -15°~90°(Auto Flip)  |
| Speed                 | Pan Manual Speed: 0.1°~80°/s, Pan Preset Speed: 80°/s<br>Tilt Manual Speed: 0.1°~80°/s, Tilt Preset Speed: 80°/s         |
| Number of Preset      | 300  |
| Patrol                | 8 patrols, up to 32 presets per patrol   |
| Pattern               | 4 pattern scans, record time over 10 minutes for each scan   |
| Park Action           | Preset / Patrol / Pattern / Pan scan / Tilt scan / Random scan / Frame scan / Panorama scan                              |
| Scheduled Task        | Auto scan / Frame scan / Random scan / Patrol / Pattern / Preset / Panorama scan / Tilt scan / Dome reboot / Dome adjust |
| <b>Features</b>       |  |
| Detection             | Intrusion detection, Line crossing detection, Motion detection   |
| ROI encoding          | Support 4 areas with adjustable levels   |
| <b>Infrared</b>       |  |
| IR Distance           | Up to 100m   |
| IR Intensity          | Automatically adjusted, depending on the zoom ratio  |
| <b>Network</b>        |  |
| Ethernet              | 10Base-T / 100Base-TX, RJ45 connector  |
| Stream                | Support three Streams  |

|                           |   |
|---------------------------|---|
| Main Stream               | 50Hz:25fps (1920×1080,1280×960,1280×720), 50fps (1280×960,1280×720) ;<br>60Hz: 30fps(1920×1080,1280×960,1280×720), 60fps (1280×960,1280×720)          |
| Sub Stream                | 50Hz:25fps(704×576,640×480,352×288);60Hz:30fps(704×480,640×480,352×240)   |
| Three Stream              | 50Hz:25fps (1920×1080,1280×960,1280×720,704×576,640×480,352×288);<br>60Hz: 30fps(1920×1080,1280×960,1280×720,704×480,640×480,352×240)                 |
| Image Compression         | H.264/MJPEG   |
| Audio Input               | 1 audio input (Mic/Line in), 2-2.4V[p-p]; output impedance: 1KΩ, ±10%   |
| Audio Output              | 1 output, Line level, impedance: 600Ω   |
| Audio Compression         | G.711/G.722/G.726/MP2L2   |
| Protocols                 | IPv4/IPv6, HTTP, HTTPS, 802.1X, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE                              |
| Simultaneous Live View    | Up to 20 users  |
| Mini SD Memory Card       | Support up to 128GB Micro SD/SDHC/SDXC card. Support Edge recording   |
| User/Host Level           | Up to 32 users,3 Levels: Administrator, Operator and User   |
| Security Measures         | User authentication (ID and PW); Host authentication (MAC address); IP address filtering  |
| <b>System Integration</b> |   |
| Application programming   | Open-ended API, support ONVIF, PSIA and CG , Support cloud P2P  |
| Web Browser               | IE 7+, Chrome 18 +, Firefox 5.0 +, Safari 5.02 +  |
| Power                     | 12 VDC & POE(802.3at, class4), Max.20W  |
| Working Temperature       | -30°C ~ 65°C (-22°F ~ 149°F)  |
| Humidity                  | 90% or less   |
| Protection Level          | IP66, TVS 4,000V lightning protection, surge protection and voltage transient protection  |
| Certification             | FCC, CE, UL, RoHS, IEC/EN 61000, IEC/EN 55022, IEC/EN 55024, IEC /EN60950-1   |
| Dimensions                | Φ164.5(mm)×295(mm)  |
| Weight (approx.)          | 2kg (4.41lbs)   |
| Mount Option              | Long-arm wall mount: DS-1602ZJ; Corner mount: DS-1602ZJ-corner; Pole Mount: DS-1602ZJ-pole; Power box mount:DS-1602ZJ-box; Swan-neck mount: DS-1619ZJ |

## Ordel Models

DS-2DE4220IW-DE, 12VDC&POE(802.3at, class4)

## Dimensions



Unit:mm

## Accessories



DS-1602ZJ  
Wall Mount



DS-1602ZJ-Conner  
Conner Mount



DS-1602ZJ-Pole  
Pole Mount



DS-1602ZJ-Box  
Box Mount



DS-1663ZJ  
Ceiling mount



DS-1661ZJ  
Pendant mount



DS-1662ZJ  
Pendant mount



DS-1618ZJ  
Short arm wall  
Mount



DS-1100KI  
Network Keyboard



DS-1005KI  
USB Joy-stick

Distributed by



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