

## 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

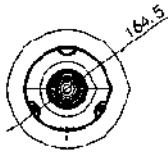
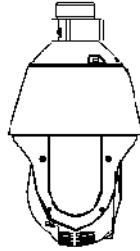
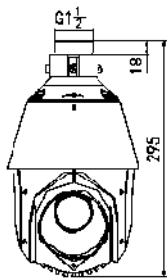
<b>Model</b>	<b>DS-2DE4220IW-DE</b>
<b>Camera Module</b>	
Image Sensor	1/2.8" Progressive Scan CMOS
Min. Illumination	F1.6, AGC On: Color: 0.05 lux, B/W : 0.01 lux, 0 lux with IR
Max. Image Resolution	1920 × 1080
Focal Length	4.7-94.0mm, 20x
Digital Zoom	16X
Zoom Speed	Approx.3s(Optical Wide~Tele)
Angle 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 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) ; 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); 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

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

**Hikvision Poland**  
T +48-22-460-01-50  
poland@hikvision.com

**Hikvision USA**  
T +1-909-895-0400  
sales.usa@hikvision.com

**Hikvision India**  
T +91-22-28469900  
sales@pramahikvision.com

**Hikvision UK**  
T +44-1628-9021-4  
support.uk@hikvision.com

**Hikvision Europe**  
T +31-23-5542770  
saleseuro@hikvision.com

**Hikvision Italy**  
T +39-0438-6902  
info.it@hikvision.com

**Hikvision Singapore**  
T +65-6684-4718  
sg@hikvision.com

**Hikvision Middle East**  
T +971-4-8816086  
salesme@hikvision.com

**Hikvision France**  
T +33(0)1-85-330-444  
info.fr@hikvision.com

**Hikvision Oceania**  
T +61-2-8599-4233  
salesau@hikvision.com

**Hikvision Russia**  
T +7-495-669-67-99  
saleru@hikvision.com

**Hikvision Spain**  
T +34-91-737-16-55  
info.es@hikvision.com

**Hikvision Hong Kong**  
T +852-2151-1761