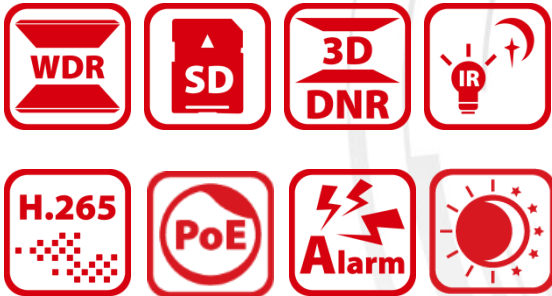




## DS-2DE4A220IW-DE 2MP Network IR PTZ Camera



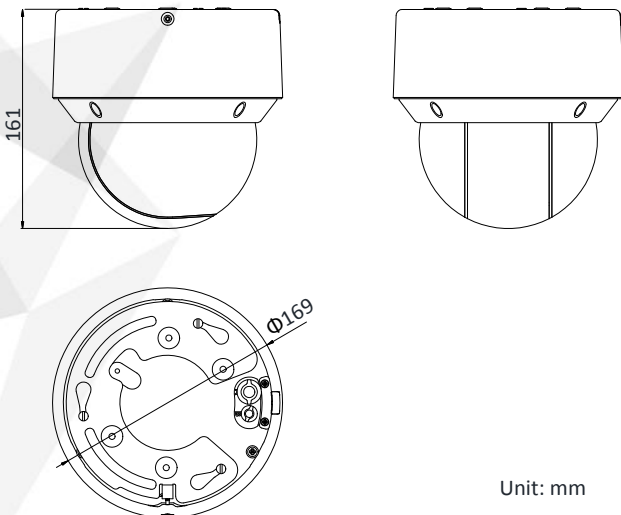
Hikvision DS-2DE4A220IW-DE Network IR PTZ Cameras adopt 1/2.8" progressive scan CMOS chip. With the 20× optical zoom lens, the camera offers more details over expansive areas.

This series of cameras can be widely used for wide ranges of high-definition, such as the rivers, forests, roads, railways, airports, ports, squares, parks, scenic spots, stations and large venues, etc.

### Key Features

- 1/2.8" Progressive Scan CMOS
- Up to 1920 × 1080 resolution
- 20× Optical Zoom, 16× Digital Zoom
- WDR, 3D DNR, HLC, Smart IR
- Up to 50 m IR distance
- 12 VDC & PoE+ (802.3at, class4)
- Support H.265 video compression

### Dimensions



Unit: mm

### Accessories



## Specification

| <b>Camera Module</b>                                  |                                                                                                                  |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>DS-2DE4A220IW-DE<br/>2MP Network IR PTZ Camera</b> |                                                                                                                  |
| Image Sensor                                          | 1/2.8" progressive scan CMOS                                                                                     |
| Min. Illumination                                     | Color: 0.05 Lux @(F1.6, AGC ON)<br>B/W: 0.01 Lux @(F1.6, AGC ON)<br>0 Lux with IR                                |
| White Balance                                         | Auto/Manual/ATW (Auto Tracking White Balance)/Indoor/Outdoor/Fluorescent Lamp/Sodium Lamp                        |
| AGC                                                   | Auto/Manual                                                                                                      |
| Shutter Time                                          | 1/1 s to 1/30,000 s                                                                                              |
| Day & Night                                           | IR Cut Filter                                                                                                    |
| Digital Zoom                                          | 16×                                                                                                              |
| Privacy Mask                                          | 8 programmable privacy masks                                                                                     |
| Focus Mode                                            | Auto/Semi-automatic/Manual                                                                                       |
| 3D DNR                                                | Support                                                                                                          |
| BLC                                                   | Support                                                                                                          |
| WDR                                                   | Support                                                                                                          |
| Regional Exposure                                     | Support                                                                                                          |
| Regional Focus                                        | Support                                                                                                          |
| <b>Lens</b>                                           |                                                                                                                  |
| Focal Length                                          | 4.7 mm to 94 mm, 20× Optical                                                                                     |
| Zoom Speed                                            | Approx. 2.7 s (optical lens, wide-tele)                                                                          |
| Field of View                                         | 61.4° to 2.9° (wide-tele)                                                                                        |
| Working Distance                                      | 10 mm to 1500 mm (wide-tele)                                                                                     |
| Aperture Range                                        | F1.6 to F3.5                                                                                                     |
| <b>IR</b>                                             |                                                                                                                  |
| IR Distance                                           | Up to 50 m                                                                                                       |
| IR Intensity                                          | Automatically adjusted, depending on the zoom ratio                                                              |
| <b>PTZ</b>                                            |                                                                                                                  |
| Movement Range (Pan)                                  | 360° endless                                                                                                     |
| Pan Speed                                             | Configurable, from 0.1°/s to 300°/s, Preset Speed: 350°/s                                                        |
| Movement Range (Tilt)                                 | From -5° to 90°                                                                                                  |
| Tilt Speed                                            | Configurable, from 0.1°/s to 160°/s, Preset Speed: 200°/s                                                        |
| Proportional Zoom                                     | Support                                                                                                          |
| Presets                                               | 300                                                                                                              |
| Patrol Scan                                           | 8 patrols, up to 32 presets for each patrol                                                                      |
| Pattern Scan                                          | 4 pattern scans, record time over 10 minutes for each scan                                                       |
| Power-off Memory:                                     | Support                                                                                                          |
| Park Action                                           | Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan                         |
| PTZ Position Display                                  | ON/OFF                                                                                                           |
| Preset Freezing                                       | Support                                                                                                          |
| Scheduled Task                                        | Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome Adjust |
| <b>Features</b>                                       |                                                                                                                  |
| Smart Detection                                       | Intrusion Detection, Line Crossing Detection, Region Exiting Detection, Region Entrance Detection                |
| ROI encoding                                          | Main stream, sub-stream and third stream respectively support two fixed areas.                                   |

| Network                |                                                                                                                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Max. Resolution        | 1920 × 1080                                                                                                                                                                                          |
| Main Stream            | 50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720)<br>50fps (1920 × 1080, 1280 × 960, 1280 × 720)<br>60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720)<br>60fps (1920 × 1080, 1280 × 960, 1280 × 720) |
| Sub-Stream             | 50Hz: 25fps (704 × 576, 640 × 480, 352 × 288)<br>60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)                                                                                                       |
| Third 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)                             |
| 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<br>H.264 with Baseline/Main/High Profile                                                  |
| Audio compression      | G.711alaw/G.711ulaw/G.722.1/G.726/MP2L2/PCM                                                                                                                                                          |
| SVC                    | Support                                                                                                                                                                                              |
| Protocols              | IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, DHCP, PPPoE, Bonjour                                                                            |
| Simultaneous Live View | Up to 20 channels                                                                                                                                                                                    |
| User/Host              | Up to 32 users<br>3 levels: Administrator, Operator and User                                                                                                                                         |
| Security Measures      | User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption; IEEE 802.1x port-based network access control; IP address filtering                                            |
| System Integration     |                                                                                                                                                                                                      |
| Alarm Input            | 2-ch alarm input                                                                                                                                                                                     |
| Alarm Output           | 2-ch alarm output                                                                                                                                                                                    |
| Alarm Linkage          | Alarm actions, such as Preset, Patrol Scan, Pattern Scan, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card/NAS, Send Email, etc.                   |
| Audio Input            | 1-ch audio input                                                                                                                                                                                     |
| Audio Output           | 1-ch audio output                                                                                                                                                                                    |
| Network Interface      | 1 RJ45 10 M/100 M Ethernet Interface; PoE+ (802.3at, class4)                                                                                                                                         |
| Storage                | Built-in memory card slot, support Micro SD/SDHC/SDXC, up to 128 GB; NAS (NPS, SMB/ CIPS), ANR                                                                                                       |
| API                    | Open-ended, support ONVIF, PSIA and CGI, support HIKVISION SDK and Third-Party Management Platform                                                                                                   |
| Client                 | iVMS-4200, iVMS-4500, iVMS-5200                                                                                                                                                                      |
| Web Browser            | IE7+, Chrome18+, Firefox5.0+, Safari5.02+                                                                                                                                                            |
| General                |                                                                                                                                                                                                      |
| Power                  | 12 VDC and PoE+ (802.3at, class4)<br>Max.: 18 W (IR light 5 W Max.)                                                                                                                                  |
| Working Environment    | Working Temperature: Outdoor: -30°C to 65°C (-22°F to 149°F)<br>Working Humidity: ≤ 90%                                                                                                              |
| Protection Level       | IP66 Standard; TVS 4000V Lightning Protection, Surge Protection and Voltage Transient Protection                                                                                                     |
| Dimensions(mm)         | Φ 169 mm × 161 mm (Φ6.65" × 6.34")                                                                                                                                                                   |
| Weight                 | Approx. 2.45 kg (5.40 lb)                                                                                                                                                                            |