Hikvision DS-2DE4220W-AE
2 MP Outdoor 4" 20x Network PTZ Dome Camera

- 1/2.8" Progressive Scan CMOS
- Up to 1920 × 1080 @ 30 fps
- 20x Optical Zoom
- DWDR
- 3D Intelligent Positioning
- IP66 and IK10 Protection
- 24 VAC / PoE (Injector Included), 18 W

The Hikvision DS-2DE4220W-AE PTZ Dome Camera is able to capture high quality images in low light environments with its black anti-reflective glass.

The embedded 1/2.8" progressive scan CMOS chip makes DWDR and 1920 × 1080 real-time resolution possible. With its 20x optical zoom lens, the camera offers abundant details over expansive areas.

Hikvision’s DS-2DE4220W-AE PTZ Dome Camera also features a wide range of functions, including intrusion detection, line crossing detection, and audio exception, benefitting users with great improvements in security efficiency and, more importantly, with key events/objects recorded for further forensic needs.

Available Models: DS-2DE4220W-AE
# Specifications

## Camera Module
- **Image Sensor**: 1/2.8" progressive scan CMOS
- **Minimum Illumination**: Color: 0.05 Lux @ (F1.6, AGC ON), B/W: 0.01 Lux @ (F1.6, AGC ON)
- **Day and Night**: ICR switch
- **Focus Mode**: Auto / semi-auto / manual
- **Shutter Speed**: 1/1 to 1/10,000s
- **Digital Zoom**: 16x
- **White Balance**: Auto / manual / ATW (auto tracking white balance) / indoor / outdoor / daylight lamp / sodium lamp
- **AGC**: Auto / manual
- **Backlight Compensation**: Supported
- **Wide Dynamic Range**: 92 dB
- **DNR (Digital Noise Reduction)**: Supported
- **Privacy Mask**: 8 programmable privacy masks

## Lens
- **Focal Length**: 4.7 to 94 mm, 20x
- **Field of View**: 61.4° to 2.9° (wide-tele)
- **Working Distance**: 10 to 1000 mm (wide-tele)
- **Zoom Speed**: Approximately 3 s (optical lens, wide-tele)
- **Aperture Range**: F1.6 to F3.5

## Smart
- **Smart Detection**: Intrusion detection, line crossing detection, audio exception detection, motion detection, and video tampering detection
- **Smart Recording**: Edge storage, smart search in smart NVR, and VCA playback
- **Smart Image Enhancement**: WDR, HLC, Defog, EIS
- **Smart Encoding**: Low bitrate, and ROI (Region of Interest) encoding
- **Smart Alarm**: Alarm for network disconnection, IP address conflict, HDD full, HDD error, and illegal login

## Network
- **Main Stream**: 50 Hz: 25 fps (1920 x 1080, 1280 x 960, 1280 x 720), 50 fps (1280 x 960, 1280 x 720), 60 fps (1280 x 960, 1280 x 720)
- **Sub-Stream**: 50 Hz: 25 fps (704 x 576, 640 x 480, 352 x 288), 60 Hz: 30 fps (704 x 480, 640 x 480, 352 x 240)
- **Third Stream**: 50 Hz: 25 fps (1920 x 1080, 1280 x 960, 1280 x 720, 704 x 576, 640 x 480, 352 x 288), 60 Hz: 30 fps (1920 x 1080, 1280 x 960, 1280 x 720, 704 x 480, 640 x 480, 352 x 240)
- **Video Compression**: H.264 / MJPEG
- **Audio compression**: G.711alaw / G.711ulaw / G.722 / G.726 / MP2L2 / PCM
- **Protocols**: IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, RTCP, RTP, TCP/IP, DHCP, PPPoE, Bonjour
- **Simultaneous Live View**: Up to 20 users
- **User/Host**: Up to 32 users, 3 levels: Administrator, Operator, and User
- **Security Measures**: User authentication (ID and PW), host authentication (MAC address), IP address filtering, HTTPS encryption, and IEEE 802.1x port-based network access control

## Pan and Tilt
- **Movement Range**: Pan: 360°, Tilt: 5° to 90°
- **Movement Speed**: Pan: 0.1° to 160°/s, Tilt: 0.1° to 120°/s
- **Preset No.**: 300
- **Patrol**: 8 patrols, up to 32 presets per patrol
- **Park Action**: Preset / patrol / pattern / auto scan / tilt scan / random scan / frame scan / panorama scan
- **Scheduled Task**: Preset / patrol / pattern / auto scan / tilt scan / random scan / frame scan / panorama scan / dome reboot / dome adjust / aux output
- **Proportional Zoom**: Supported
- **Power-off Memory**: Supported
- **Position Display**: On/ Off

## System Integration
- **Alarm I/O**: 1 alarm input, 1 alarm output
- **Alarm Linkage**: Alarm actions, such as send email, notify surveillance center, upload to FTP / memory car / NAS, trigger recording, etc.
- **Audio I/O**: 1 audio input, 1 audio output
- **Ethernet**: 1 RJ45 10M/100M Ethernet interface
- **Memory Card**: Built-in memory card slot, supporting SD/SDHC/SDXC, up to 128GB
- **Client**: iVMS-4200
- **Web Browser**: IE7+, Chrome18+, Firefox5.0+, Safari5.02+

## General
- **Power**: 24 VAC, and PoE (802.3at); maximum: 18 W
- **Working Temperature**: -22° F to 149° F (-30° C to 65° C)
- **Working Humidity**: ≤ 90%
- **Protection Level**: IP 66, TVS 4,000V lightning protection, and surge protection
- **Dimensions (mm)**: Φ7.1" × 9.4" (Φ179.4 × 239.5 mm)
- **Weight**: 4.4 lbs (2 kg)
Accessories

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Dimensions

- **WMP-S**: Short wall mount for 4" PTZ
- **WMP-L**: Long Wall Mount
- **CMP**: Large Corner Mount for WMP-S/L
- **PMP**: Pole Mount for WMP-S/L
- **JBP-W**: Power Box Mount w/Wall Bracket
- **PMPL**: Large Pole Mt for JBP-W
- **CMPL**: Large Corner Mt for JBP-W
- **CPM-S**: Short Ceiling Pendant Mt
- **CPM-L**: Long Ceiling Pendant Mt
- **CPMPE**: Ceiling Pendant Mount Ext Pipe
- **RPM**: Roof Parapet Mt

Measurements:

- Diameter: 239.5mm
- Diameter: 120mm
- Diameter: 180mm