Hikvision 4K series DS-2DF8836IV-AELW smart PTZ dome cameras are able to capture high quality colored images in dim light environments, due to their cutting-edge low illumination level of 0.02 Lux (color). The embedded 1/1.9” progressive scan CMOS chip makes WDR and 8MP real-time resolution possible. With the 36X optical zoom Day/Night lens, the camera covers more details over expansive areas.

The 4K series PTZ camera also features a wide range of smart functions, including intrusion detection, line crossing detection and audio exception, benefitting users with great improvement on security efficiency, more importantly, with key events / objects being recorded for further forensic needs. These features, combined with smart tracking, enable the camera to detect any progressively moving object and follow it within the camera’s area of coverage without fault. Smart Defog is further supported to improve image quality in challenging conditions.

Available Models:
DS-2DF8836IV-AELW
## DS-2DF8836IW-AELW

**Camera Module**

- **Image Sensor**: 1/1.9" progressive scan CMOS
- **Minimum Illumination**: f/1.5, 50 IRE, AGC on; color: 0.02 lux, B/W: 0.002 lux, 0 lux with IR
- **Maximum Image Resolution**: 4096 x 2160
- **Focal Length**: 5.7 mm to 205.2 mm, 36x
- **Digital Zoom**: 16x
- **Zoom Speed**: Approximately 7.4 s (optical wide-tele)
- **Angle of View**: 56.8° to 2.02° (wide-tele)
- **Minimum Working Distance**: 10 mm to 1500 mm (wide-tele)
- **Aperture Range**: f/1.55 to f/4.8
- **Focus Mode**: Auto/semi-automatic/manual
- **WDR**: 120 dB
- **Shutter Speed**: 50 Hz: 1 to 1/30,000 s; 60 Hz: 1 to 1/30,000 s
- **AGC**: Auto/manual
- **White Balance**: Auto/manual/ATW/indoor/outdoor/daylight lamp/sodium lamp
- **Day/Night**: IR cut filter
- **Privacy Mask**: 24 privacy masks programmable
- **Optical Defog**: Supported
- **Enhancement**: 3D DNR, HL/C/LC, SVC

### Pan and Tilt

- **Range**: Pan: 360° endless; tilt: -20° to 90° (auto flip)
- **Speed**: Pan manual speed: 0.1° to 160°/s, pan preset speed: 240°/s
- **Number of Presets**: 800
- **Preset**: 32 presets per patrol
- **Patterns**: 4, with recording time not less than 10 minutes per pattern
- **Park Actions**: Preset, patrol, pattern, auto scan, tilt scan, random scan, frame scan, panorama scan
- **Scheduled Tasks**: Preset, patrol, pattern, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output

### Smart Features

- **Smart Tracking**: Manual, panorama, intrusion trigger, line crossing trigger, region entrance trigger, region exiting trigger, smart tracking when patrol between multiple scenarios
- **Smart Detection**: Intrusion detection, line crossing detection, audio exception detection, region entrance detection, region exiting detection
- **ROI Encoding**: Supports 6 areas with adjustable levels

### Infrared

- **IR Distance**: Up to 650 ft (200 m)
- **IR Intensity**: Automatically adjusted, depending on the zoom ratio

### Alarm

- **Alarm I/O**: 7/2
- **Alarm Triggers**: Intrusion detection, line crossing detection, region entrance, region exiting, audio exception detection, motion detection, dynamic analysis, tampering alarm, network disconnect, IP address conflict, storage exception
- **Alarm Actions**: Preset, patrol, pattern, microSD/SDHC card recording, relay output, notification on client, send e-mail, upload to FTP, trigger channel

### Input/Output

- **Monitor Output**: 1.0 V[p-p]/75 Ω, NTSC (or PAL) composite, BNC (S/N Ratio: 55 dB)
- **Audio Input**: 1 mic in/line in interface, line input: 2-2.4 V[p-p]; output impedance: 1K Ω, ±10%
- **Audio Output**: 1 audio output interface, line level, impedance: 600 Ω

### Network

- **Ethernet**: 10Base-T/100Base-TX, RJ-45 connector
- **Main Stream**: 50 Hz: 25 fps (4096 x 2160, 3840 x 2160, 3072 x 1728, 2560 x 1440, 1920 x 1080, 1280 x 720)  
  60 Hz: 24 fps (4096 x 2160), 30 fps (3840 x 2160, 3072 x 1728, 2560 x 1440, 1920 x 1080, 1280 x 720)
- **Sub Stream**: 50 Hz: 25 fps (704 x 576, 352 x 288, 176 x 144);  
  60 Hz: 30 fps (704 x 480, 352 x 240, 352 x 240)
- **Third Stream**: 50 Hz: 25 fps (704 x 576, 352 x 288, 176 x 144);  
  60 Hz: 30 fps (704 x 480, 352 x 480, 352 x 240)

### Image Compression

- **H.264/MJPEG**: H.264 encoding with Baseline/Main/High profile

### Audio Compression

- **G.711ulaw/G.711alaw/G.726/MP2L2/G.722/PCM**: Supports multi-language

### Protocols

- **UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE**
- **Live Views**: Up to 20 simultaneous users
- **MicroSD Memory Card**: Supports up to 128 GB microSD/SDHC card
- **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

### System Integration

- **Application Programming**: Open-ended API, supports ONVIF, PSIA, CGI, and Genetec
- **Web Browser**: IE 7+, Chrome 18+, Firefox 5.0+, Safari 5.0.2, supports multi-language
- **RS-485 Protocols**: HIKVISION, Pelco-P, Pelco-D, self-adaptive
- **Power**: High-PoE and 24 VAC, maximum 60 W
- **Working Temp.**: -40° F to 149° F (-40° C to 65° C)
- **Humidity**: 90% or less
- **Protection Levels**: IP66, IK10, TVS 6,000 V lightning protection, surge protection and voltage transient protection
- **Certifications**: FCC, CE, UL, RoHS, IEC/EN 61000, IEC/EN 55022, IEC/EN 55024, IEC/EN60950-1
- **Dimensions**: ø10.5" × 17.13" (ø266.6 mm × 435 mm)
- **Weight (approx.)**: 17.64 lbs (8 kg)
## Accessories

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## Dimensions

![Dimensions Diagram](image-url)

Unit: mm