DS-2DF5232X-AEL(3)　D
2 MP 32 × Network Speed Dome



Hikvision DS-2DF5232X-AEL(3) 2 MP 32 × Network Speed Dome adopts 1/2.8" progressive scan CMOS chip. With the 32 × 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.

- 1/2.8" progressive scan CMOS
- Up to 1920 × 1080 resolution
- Min. illumination:
  Color: 0.002 Lux @(F1.2, AGC ON)
  B/W: 0.0002 Lux @(F1.2, AGC ON)
- 32 × optical zoom, 16 × digital zoom
- 120dB WDR, 3D DNR, HLC
- 24 VAC &Hi-PoE
- Support H.265+/H.265 video compression
- Deep-learning-based target classification algorithm for auto-tracking 2.0 and perimeter protection
- IK 10, IP 66

Specifications

Camera Module	
Image Sensor	1/2.8" progressive scan CMOS
Min. Illumination	Color: 0.002 Lux @(F1.2, AGC ON); B/W: 0.0002 Lux @(F1.2, AGC ON)
Shutter Time	1 to 1/30,000 s
White Balance	Auto/Manual/ATW (Auto-tracking White Balance)/Indoor/Outdoor/Fluorescent Lamp/Sodium Lamp
AGC	Auto/Manual
Day & Night	IR Cut Filter
Digital Zoom	16 ×
Privacy Mask	24 programmable polygon privacy masks, mask color or mosaic configurable
Focus Mode	Auto/Semi-automatic/Manual
3D DNR	Yes
BLC	Yes
HLC	Yes
WDR	120 dB WDR
Defog	Yes
EIS	Yes
Regional Exposure	Yes
Regional Focus	Yes
Lens	
Focal Length	4.8 to 153 mm, 32 × optical zoom
Zoom Speed	Approx. 5.6 s (optical lens, wide-tele)
Field of View	Horizontal field of view: 58.4° to 2.14° (wide-tele) Vertical field of view: 33.8° to 1.2° (wide-tele) Diagonal field of view: 65.6° to 2.46° (wide-tele)
Working Distance	10 mm to 1500 mm (wide-tele)
Aperture Range	F1.2 to F4.4
PTZ	
Movement Range (Pan)	360° endless
Pan Speed	Configurable, from 0.1°/s to 300°/s. Preset speed: 540°/s
Movement Range (Tilt)	From -5° to 90°
Tilt Speed	Configurable, from 0.1°/s to 240°/s. Preset speed: 400°/s
Proportional Zoom	Yes
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	Yes
Park Action	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan
3D Positioning	Yes

PTZ Status Display	Yes
Preset Freezing	Yes
Scheduled Task	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome Adjust/Aux Output
Smart Features	
Perimeter Protection	Intrusion, Line Crossing, Region Entrance, Region Exiting. Support alarm triggering by specified target types (human and vehicle). Filtering out mistaken alarm caused by target types such as leaf, light, animal, and flag, etc.
Event Detection	Face detection, unattended baggage detection, object removal detection, audio exception detection
Smart Tracking	Manual tracking, auto tracking (support tracking specified target types such as human and vehicle), event tracking
Smart Record	ANR (Automatic Network Replenishment), Dual-VCA
ROI	Eight fixed region for each stream
Network	
Max. Resolution	1920 × 1080
Main Stream	50Hz: 50fps (1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 60 fps (1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream	50Hz: 25fps (704 × 576, 640 × 480, 352 × 288) 60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)
Third 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)
SVC	Yes
Video Compression	Main Stream: H.265+/H.265/H.264+/H.264 Sub-Stream: H.265/H.264/MJPEG Third Stream: H.265/H.264/MJPEG H.264 with Baseline/Main/High Profile
Audio Compression	G.711alaw/G.711ulaw/G.722.1/G.726/MP2L2/PCM
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, DHCP, PPPoE, UDP, IGMP, ICMP, Bonjour
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users. 3 user 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 Intergration	
Alarm Interface	7-ch alarm input/2-ch alarm output
Audio Interface	1-ch audio input, 2.0 to 2.4 V[p-p], 1kΩ ± 10% 1-ch audio output , line level, impedance: 600Ω
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.
Network Interface	1 RJ45 10 M/100 M Ethernet Interface; Hi-PoE
BNC	1.0V [p-p]/75 Ω, NTSC (or PAL) composite

RS-485	HIKVISION, Pelco-P, Pelco-D, self-adaptive
Storage	Built-in memory card slot, support Micro SD/SDHC/SDXC, up to 256 GB; NAS (NFS, SMB/ CIFS), ANR
API	ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK
Client	iVMS-4200, iVMS-4500, iVMS-5200, Hik-Connect
Web Browser	IE 8 to 11, Chrome 31.0+, Firefox 30.0+, Edge 16.16299+, Safari 11+
General	
Language	32 languages. English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil)
Power	Indoor model: 24 V, 2.5 A, 50/60Hz, AC (max. 25 W), Hi-PoE, 42.5 to 57 V,1.41 A (max. 25 W) Outdoor model: 24 V, 3.0 A, 50/60Hz, AC (max. 60 W, including max. 40 W for heater), Hi-PoE, 42.5 to 57 V, 1.41 A (max. 50 W, including max. 20 W for heater)
Working Temperature	Outdoor model: -40°C to 70°C (-40°F to 158°F) Indoor model: -10°C to 50°C (14°F to 122°F)
Working Humidity	≤95%
Protection Level	IP66 Standard (outdoor), IK10, 6000V Lightning Protection, Surge Protection and Voltage Transient Protection
Dimensions	Φ 220 mm × 302 mm (Φ 8.66" × 11.89") (Outdoor) Φ 245.1 mm × 239 mm (Φ 9.65" × 9.41") (Indoor)
Weight	Approx. 4 kg (8.82 lb) (Outdoor) Approx. 3.4 kg (7.50 lb) (Indoor)

DORI

The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view. It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

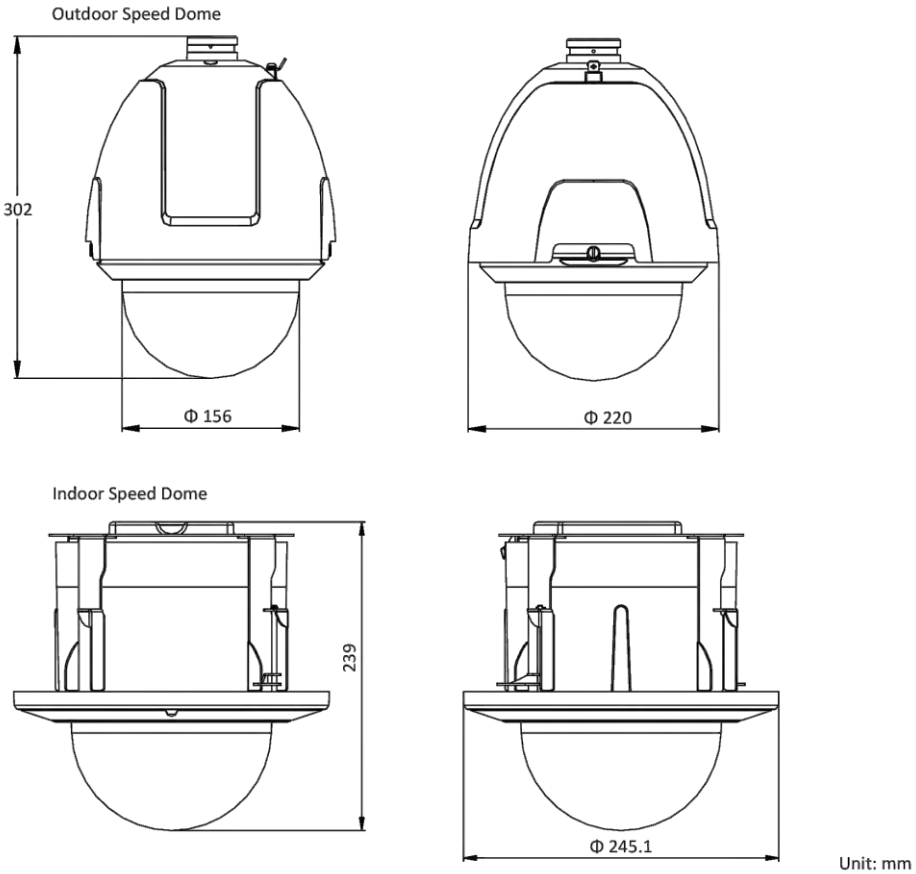
DORI	Detect	Observe	Recognize	Identify
Definition	25 px/m	63 px/m	125 px/m	250 px/m
Distance (Tele)	2046.9 m (6715.5 ft)	812.3 m (2664.9 ft)	409.4 m (1343.1 ft)	204.7 m (671.6 ft)

Available Model

DS-2DF5232X-AEL (D), 24 VAC &Hi-PoE (Outdoor)

DS-2DF5232X-AE3 (D), 24 VAC &Hi-PoE (Indoor)

Dimensions



Unit: mm

Accessory

Included



DS-1681ZJ
Installation Adapter
(for outdoor model)

Optional



DS-1604ZJ
Wall Mount



DS-1604ZJ-box
Wall Mount with Junction Box



DS-1604ZJ-box-pole
Vertical Pole Mount with Junction Box



DS-1604ZJ-box-corner
Corner Mount with Junction Box



DS-1660ZJ
Parapet Mount



DS-1619ZJ
Gooseneck Mount



DS-1661ZJ
Pendant Mount



DS-1662ZJ
Pendant Mount



DS-1663ZJ
Ceiling Mount



DS-1667ZJ
Extendable Pole for Pendant Mount



DS-1673ZJ
Horizontal Pole Mount



DS-1682ZJ
Extendable Pole for Pendant Mount



LAS60-57CN-RJ45
Hi-PoE Midspan



TEAC-66-243000V (EU)
MKAC-66-243000U (USA)
TEAC-66-243000VB (UK)
Power adapter
(for outdoor model)



HKA-A24220-230 (EU)
HKKD-12077 (USA)
HKA-A24250-230-BS (UK)
PSE-A1525/5060 (JP)
Power adapter
(for indoor model)

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