

DS-2DF4420WG-XEY(ADC)(E)**Aluminum Alloy 4MP 20x Explosion-proof Network Speed Dome**

- Ex-mark: ATEX: Ex II 2GD Ex db IIC T6 Gb /Ex tb IIIC T80°C Db; IECEx: Ex db IIC T6 Gb /Ex tb IIIC T80°C Db
- Supports H.265 video compression
- For explosive gas mixture atmospheres: Zone 1, Zone 2, Zone 21, Zone 22.
- 20 × optical zoom, focal length 4.8 mm to 96 mm
- 4 MP 1/2.8" progressive scan CMOS
- 120dB WDR, 3D DNR
- High quality imaging with high-performance sensor

▪ Specification

Camera	
Image Sensor	1/2.8" progressive scan CMOS
Max. Resolution	2560 × 1440
Min. Illumination	color: 0.005Lux @ (F1.6, AGC ON) B/W: 0.001Lux @ (F1.6, AGC ON)
Shutter Speed	1/1 s to 1/30000 s
Day & Night	IR cut filter
Zoom	20× optical, 16× digital
Slow Shutter	yes
Lens	
Focal Length	4.8 to 96 mm
FOV	Horizontal field of view: 55° to 2.6°, vertical field of view: 30.6° to 1.5°, diagonal field of view: 60.5° to 3.0°
Focus	Auto, semi-auto, manual
Aperture	F1.6
Zoom Speed	Approx. 2.9s
PTZ	
Movement Range (Pan)	360° endless
Movement Range (Tilt)	0° to 90° (Auto Flip)
Pan Speed	Configurable, from 0.1°/s to 160°/s, preset speed: 160°/s
Tilt Speed	Configurable, from 0.1°/s to 120°/s, Preset Speed: 120°/s
Proportional Pan	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
Park Action	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan
3D Positioning	Yes
PTZ Status Display	Yes
Scheduled Task	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output
Power-off Memory	Yes
Video	
Main Stream	50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)
Video Bit Rate	32 kbps to 16384 Kbps
H.264 Type	Baseline profile, Main profile, High profile
H.265 Type	Main profile
Scalable Video Coding (SVC)	Yes
Region of Interest (ROI)	Yes

Network	
Protocols	IPv4/IPv6,HTTP,HTTPS,802.1X,QoS,FTP,SMTP,UPnP,SNMP,DNS,DDNS,NTP,RTSP,RTCP, RTP,TCP/IP,UDP,IGMP,DHCP,PPPoE
Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface (Profile S, Profile G, Profile T),ISAPI,SDK
User/Host	Up to 32 users. 3 user levels: administrator, operator, and user
Security	User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption; IEEE 802.1x port-based network access control; IP address filtering
Network Storage	NAS (NFS, SMB/CIFS),auto network replenishment (ANR)
Client	iVMS-4200,Hik-Connect
Web Browser	Chrome80+, Firefox80+, Safari13+, Edge89+
Image	
Image Parameters Switch	Yes
Image Settings	Saturation, brightness, sharpness, contrast
Day/Night Switch	auto
Wide Dynamic Range (WDR)	120 dB
SNR	≥ 52 dB
Defog	yes
Image Enhancement	BLC,HLC,3D DNR
Privacy Mask	mask color or mosaic configurable,up to 8 programmable polygon privacy masks
Interface	
Ethernet Interface	1 RJ45 10/100 M self-adaptive Ethernet port
On-board Storage	Built-in memory card slot,support microSD/microSDHC/microSDXC card, up to 256 GB
Alarm	1 input(s), 1 output(s)
Event	
Basic Event	Motion detection,video tampering alarm,exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
Smart Event	Line crossing detection,intrusion detection,region entrance detection,region exiting detection
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.
General	
Power	12 VDC ±25 %, max. 7 W, PoE (802.3af), Class A, 36-57V, max. 7W
Dimension	Ø184.5 mm × 231.7 mm (Ø7.26" × 9.12")
Weight	Approx. 3.53kg (7.78 lb.)
Material	ADC12
Operating Condition	Temperature: -30°C to 60°C (-22°F to 140°F) , Humidity: ≤ 95%
General Function	mirror,password protection,watermark,IP address filter
Cable Length	1.8 m (5.91 ft.)
Approval	
EMC	CE-EMC (EN 55032:2015, EN 61000-3-2:2019, EN 61000-3-3:2013 + A1:2019, EN 50130-4:2011 + A1:2014),RCM (AS/NZS CISPR 32:2015)
Safety	CB (IEC 62368-1:2014 + A11),CE-LVD (EN 62368-1:2014/A11:2017)

Protection	IP68, TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection
Explosion-Proof Protection	ATEX: II 2 G D Ex db IIC T6 Gb/Ex tb IIIC T80°C Db IP68, IECEX: Ex db IIC T6 Gb/Ex tb IIIC T80°C Db IP68

▪ 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)	1280m (4198.4 ft)	507.9m (1665.9 ft)	256m (839.68 ft)	128m (419.84 ft)

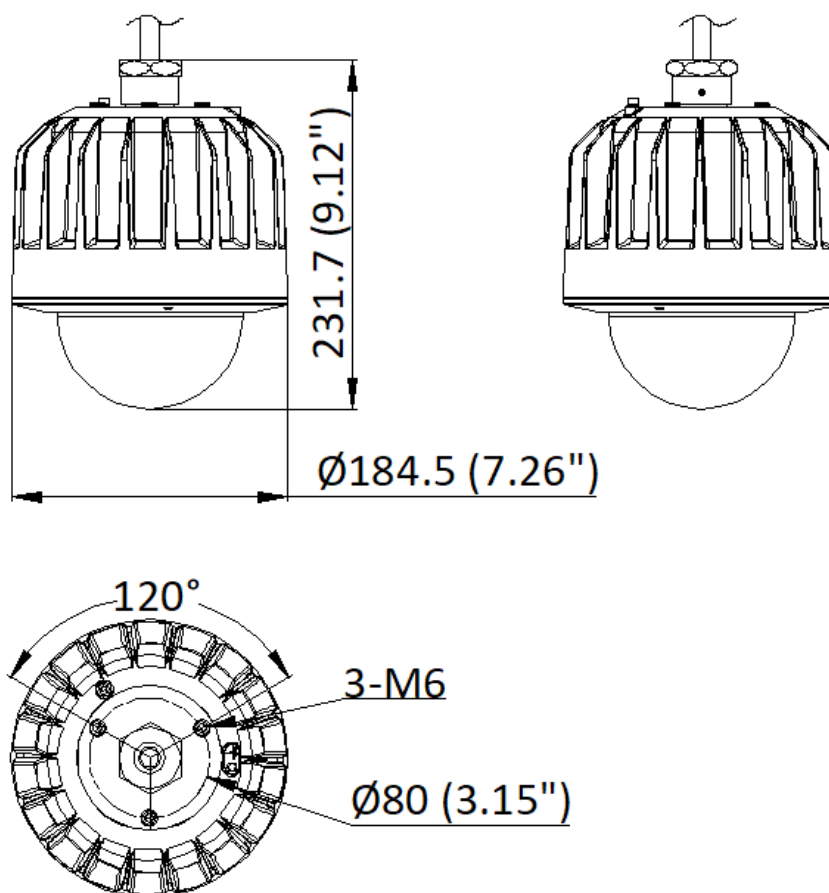
▪ Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has NO SPECIFIC PROTECTION.

Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain.
No specific protection	Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.

▪ Dimension



Unit: mm (inch)

▪ Accessory

▪ Included

DS-2704ZJ-P-Y



▪ Optional

DS-2713ZJ-P-Y

DS-2XE2703-M06(A)
DC)

DS-2XE2702-M04(A)
DC)

DS-2XE2601-1(CS)



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