

**DS-2DF4420WG-XEY****4-inch 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	ICR
Zoom	20 × optical, 16 × digital
Slow Shutter	yes
Lens	
Focal Length	4.8 mm to 96 mm, 20 × optical
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°
Focus	semi-auto,manual,auto
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
Preset Freezing	yes
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
<b>Network</b>	
Protocols	IPv4/IPv6,HTTP,HTTPS,802.1X,QoS,FTP,SMTP,UPnP,SNMP,DNS,DDNS,NTP,RTSP,RTCP, RTP,TCP/IP,UDP,IGMP,DHCP,PPPoE,Bonjour
Simultaneous Live View	Up to 20 channels
API	Open Network Video Interface (Profile S, Profile G, Profile T),ISAPI,SDK
User/Host	Up to 32 users. 3 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, iVMS-4500, iVMS-5200, Hik-Connect
Web Browser	IE 10 to 11; Chrome 57+; Firefox 52+; Safari 12+
<b>Image</b>	
Image Parameters Switch	yes
Image Settings	saturation, brightness, sharpness, contrast
Day/Night Switch	auto
Wide Dynamic Range (WDR)	120dB WDR
SNR	> 52dB
Defog	yes
Image Enhancement	HLC/BLC/3D DNR/EIS/Regional Exposure/Regional Focus
Privacy Mask	up to 24 masks
<b>Interface</b>	
Ethernet Interface	RJ45, self-adaptive 10M/100M Ethernet port
On-board Storage	support microSD/microSDHC/microSDXC cards, up to 256 GB
Alarm	1 input(s), 1 output(s)
<b>Event</b>	
Basic Event	Motion detection,video tampering alarm,alarm input and output,exception (IP address conflict, HDD full, illegal login, HDD error, network disconnected, Abnormal Reboot)
Smart Event	intrusion detection, line crossing detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection,face 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.
Smart Linkage	manual tracking
<b>General</b>	
Power	12 VDC $\pm$ 25 %, max. 7 W, PoE (802.3af), ClassA , 36-57V, max. 7W
Dimension	$\varnothing$ 184.5 mm $\times$ 231.7 mm ( $\varnothing$ 7.26" $\times$ 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: $\leq$ 95%
General Function	mirror,password protection,watermark,IP address filter
Cable Length	1.8 m (5.91 ft.)

Approval	
EMC	FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC (ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015)
Safety	UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015)
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

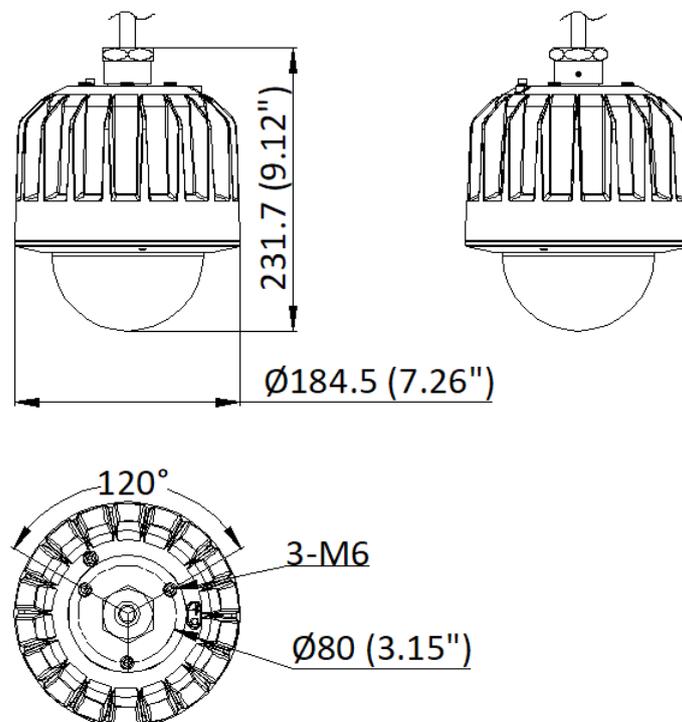
The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view. It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

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)

### ▪ Available Model

DS-2DF4420WG-XEY

### ▪ Dimension



Unit: mm (inch)

### ▪ Accessory

▪ **Included**

**DS-2704ZJ-P-Y**  
**Wall Mount For**  
**Explosion Proof**  
**Dome**



▪ **Optional**

**DS-2780ZJ-X(OS)(O**  
**-STD)/316L**  
**Junction box**



**DS-2XE2601-1(CS)**  
**Explosion Proof**  
**Flexible Conduit**



**DS-2713ZJ-P-Y**  
**Pendant Mount For**  
**Explosion Proof**  
**Dome**



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