

DS-2DF6231-CX(T5/316L)

2 MP Explosion-Proof Network Speed Dome



ATEX:

II 2 G Ex db IIC T6 Gb
II 2 D Ex tb IIIC T80°C Db

IECEx:

Ex db IIC T6 Gb
Ex tb IIIC T80°C Db

- High quality imaging with 2 MP resolution
- 1/1.8" progressive scan CMOS
- Min. illumination: Color: 0.0005 Lux @(F1.5, AGC ON), B/W: 0.0001 Lux @(F1.5, AGC ON)
- 31 × optical zoom, focal length 5.9 mm to 182.9 mm
- Efficient H.265+/H.265 compression technology
- Water and dust resistant (IP68)
- 3D DNR and low bitrate technology delivers clean and sharp images
- Clear imaging against strong back light due to 120 dB true WDR technology



▪ 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) | 1862 m (6107.36 ft) | 739 m (2433.92 ft) | 372 m (1220.16 ft) | 186 m (610.08 ft) |

▪ Specification

| Camera | |
|-------------------------|---|
| Image Sensor | 1/1.8" progressive scan CMOS |
| Min. Illumination | Color: 0.0005 Lux @ (F1.5, AGC ON) B/W: 0.0001 Lux @ (F1.5, AGC ON) |
| Shutter Speed | 1/1 s to 1/30,000 s |
| Slow Shutter | yes |
| Day & Night | IR Cut Filter |
| Day/Night Switch | auto |
| BLC | yes |
| WDR | 120 dB |
| HLC | yes |
| Focus | semi-auto, manual, auto |
| 3D DNR | yes |
| Defog | yes |
| EIS | yes |
| Regional Exposure | yes |
| Regional Focus | yes |
| Image Settings | saturation, brightness, contrast, sharpness |
| Image Parameters Switch | yes |
| White Balance | auto, ATW, sodium lamp, fluorescent lamp, indoor, outdoor, MWB, Locked WB |
| Digital Zoom | 16 × |
| Optical Zoom | 31 × |
| Privacy Mask | up to 24 masks |
| SNR | > 52dB |
| General Function | mirror, password protection, watermark, IP address filter |
| Gain Control | auto, manual |
| Lens | |
| Focal Length | 5.9 mm to 182.9 mm, 31 × optical zoom |
| Zoom Speed | Approx. 5.6 s (Optical Lens, Wide-Tele) |
| FOV | Horizontal field of view: 58.5° to 2.4° (wide-tele) Vertical field of view: 34° to 1.3° (wide-tele) Diagonal field of view: 65.8° to 2.7° (wide-tele) |
| Aperture | F1.5 |

| PTZ | |
|-----------------------------|--|
| Movement Range (Pan) | 360° endless |
| Movement Range (Tilt) | From 0° to 90° (Auto Flip) |
| Pan Speed | Configurable, from 0.1°/s to 300°/s, preset speed: 540°/s |
| 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 |
| Exception Detection | IP address conflict, HDD full, illegal login, HDD error, network disconnected |
| Video | |
| Max. Resolution | 1920 × 1080 |
| Stream Type | main stream, sub-stream, third stream |
| Main Stream | 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720); 60 Hz: 30 fps (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 |
| H.264+ | yes |
| H.265+ | yes |
| SVC | yes |
| ROI | yes |
| Audio | |
| Audio Compression | G.711alaw/G.711ulaw/G.722.1/G.726/MP2L2/PCM |
| Audio Bit rate | G.722.1: 16Kbps G.711ulaw: 64Kbps G.711alaw: 64Kbps MP2L2: 32 kbps, 40 kbps, 48 kbps, 56 kbps, 64 kbps, 80 kbps, 96 kbps, 112 kbps, 128 kbps, 144 kbps, 160 kbps, 192 kbps; |
| Audio Sampling Rate | MP2L2: 16kHz, 32kHz, 48kHz PCM: 8kHz, 16kHz, 32kHz, 48kHz |
| Environment Noise Filtering | yes |

| Smart Features | |
|-------------------------|--|
| Basic Event | motion detection, video tampering alarm, alarm input, alarm output, exception |
| Smart Event | intrusion detection, line crossing detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection, audio exception detection |
| 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. |
| Smart Encoding | H.265+, H.264+, low bit rate, ROI, SVC |
| Smart Tracking | manual tracking, event tracking |
| Smart Record | ANR, Dual-VCA |
| Network | |
| Network Storage | NAS (NFS, SMB/ CIFS), ANR |
| Protocols | IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour |
| API | Open-ended API, ISAPI, Hikvision SDK, Third-party management platform, Open Network Video Interface |
| Simultaneous Live View | Up to 20 channels |
| User/Host | Up to 32 users. 3 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 |
| Client | iVMS-4200, iVMS-4500, iVMS-5200, Hik-Connect |
| Web Browser | IE11, Chrome 57.0+, Firefox 52.0+, Safari 11+ |
| Interface | |
| On-board Storage | support microSD/microSDHC/microSDXC cards, up to 256 GB |
| RS-485 | HIKVISION, Pelco-P, Pelco-D, self-adaptive |
| Communication Interface | RJ45, self-adaptive 10M/100M Ethernet port |
| Alarm Input | 7 alarm inputs |
| Alarm Output | 2 alarm output |
| Audio Input | 1 audio input, 2.0 to 2.4Vp-p, 1k Ohm±10% |
| Audio Output | 1 audio output, line level, impedance: 600 Ω |
| Deep Learning Function | |
| Face Capture | <ol style="list-style-type: none"> 1. Detects up to 10 faces simultaneously 2. Uploads face with background and closed-up face pictures 3. Support detecting, tracking, capturing, grading, selecting of face in motion, and output the best face picture of the face |
| General | |
| Dimensions | Φ 281 mm × 405 mm (Φ 11" × 15.9") |
| Power | 100 VAC to 240 VAC (50/60 Hz) Max.: 60 W |
| Operating Conditions | Temperature: -40°C to 60°C (-40°F to 140°F), Humidity: ≤ 95% |
| Material | SUS316L with anti-corrosion surface spray treatment |
| Weight | 22 kg (48.52 lb.) |
| 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 |

| Approval | |
|------------|---|
| EMC | FCC (47 CFR Part 15, Subpart B); 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); IC (ICES-003: Issue 7); KC (KN 32: 2015, KN 35: 2015) |
| Safety | UL (UL 62368-1); CB (IEC 62368-1:2014+A11); CE-LVD (EN 62368-1:2014/A11:2017); BIS (IS 13252(Part 1):2010/ IEC 60950-1 : 2005); LOA (IEC/EN 60950-1) |
| Protection | IP68, 4000V Lightning Protection, Surge Protection and Voltage Transient Protection |

▪ Available Model

DS-2DF6231-CX(T5/316L)

**You are recommended to purchase memory card together with the product if needed. After ordering, the memory card will be installed to product during manufacturing.*

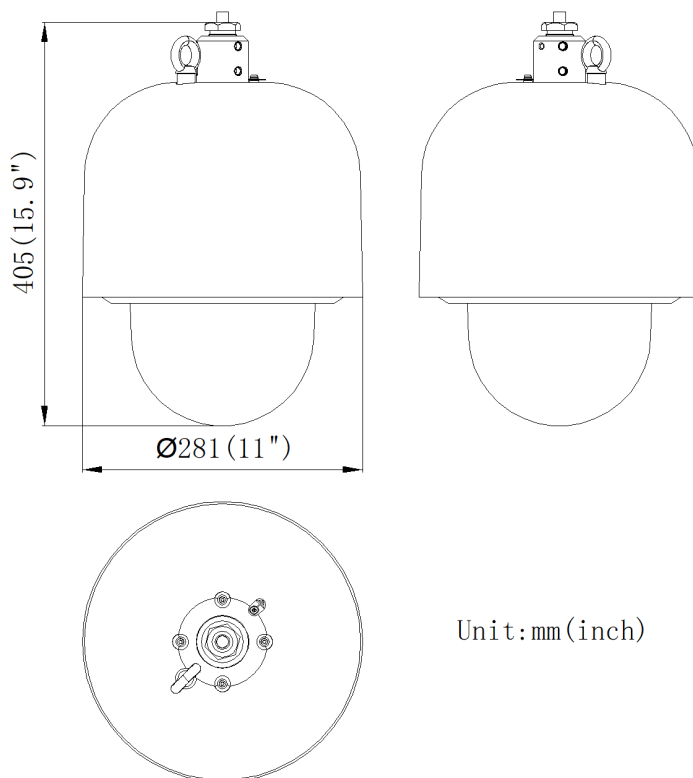
▪ Typical Application

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 TOP-LEVEL 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-1692ZJ-X-AC(OS)



▪ **Optional**

DS-1677ZJ-XS-1.0 (C2)

DS-2780ZJ-X(OS)/316L



Distributed by



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