



2310131041

## DS-2DF6231-CX (T5/316L) 2MP Network Dome EX-proof PTZ Camera

Ex proof PTZ Camera

- ✓ 1/1.8" progressive scan CMOS
- ✓ 31 × optical zoom
- ✓ Focal length 5.9 mm to 182.9 mm
- ✓ H.265+/H.265
- ✓ 120 dB True WDR Technology
- ✓ IP68
- ✓ ATEX
- ✓ IECEx



Atex

### Description

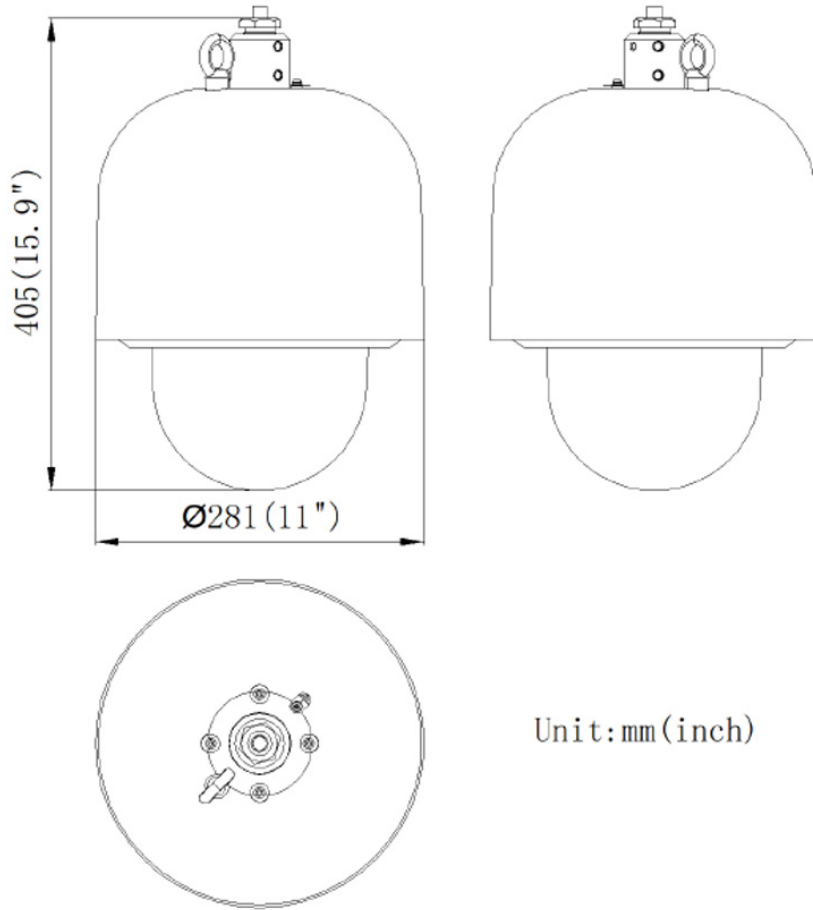
The DS-2DF6231-CX (T5/316L) 2MP Network Dome EX-proof PTZ Camera adopts a 1/1.8" progressive scan CMOS chip and has high quality imaging with 2 MP resolution. It has 31x optical zoom and a focal length of 5.9 mm to 182.9 mm.

#### DS-2DF6231-CX (T5/316L) 2MP Network Dome EX-proof PTZ Camera

The network PTZ camera features efficient H.265+/H.265 compression technology which reduces the bandwidth required for transmission without reducing the image quality. It features 3D DNR and low bitrate technology that delivers clean and sharp images. Additionally, it has clear imaging against strong back light due to 120 dB true WDR technology. Thus, making it an ideal choice for CCTV surveillance use.

The DS-2DF6231-CX (T5/316L) 2MP Network Dome EX-proof PTZ Camera is equipped for use in areas where professional anti-corrosion protection is a must. It has IP68 rating for water and dust resistance as well as ATEX (II 2 G Ex db IIC T6 Gb, II 2 D Ex tb IIIC T80°C Db) and IECEx (Ex db IIC T6 Gb, Ex tb IIIC T80°C Db) certifications for use in harsh environments that require explosion proof equipment.

### Technical Dimensions



# Specifications

## CAMERA

|                         |   |
|-------------------------|---|
| Image Sensor            | 1/1.8" progressive scan CMOS  |
| Min. Illumination       | Color: 0.0005 Lux @ (F1.5, AGC ON)<br>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 x  |
| Optical Zoom            | 31 x  |
| 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 x optical zoom   |
| Zoom Speed   | Approx. 5.6 s (Optical Lens, Wide-Tele)   |
| FOV          | Horizontal field of view: 58.5° to 2.4° (wide-tele)<br>Vertical field of view: 34° to 1.3° (wide-tele)<br>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,<br>Preset speed: 540°/s  |
| Tilt Speed            | Configurable, from 0.1°/s to 240°/s,<br>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 x 1080  |
| Stream Type     | main stream, sub-stream, third stream  |
| Main Stream     | 50 Hz: 25 fps (1920 x 1080, 1280 x 960, 1280 x 720)                                  |
|                 | 60 Hz: 30 fps (1920 x 1080, 1280 x 960, 1280 x 720)                                  |
| Sub-Stream      | 50 Hz: 25 fps (704 x 576, 640 x 480, 352 x 288)                                      |
|                 | 60 Hz: 30 fps (704 x 480, 640 x 480, 352 x 240)                                      |
| Third Stream    | 50 Hz: 25 fps (1920 x 1080, 1280 x 960, 1280 x 720, 704 x 576, 640 x 480, 352 x 288) |
|                 | 60 Hz: 30 fps (1920 x 1080, 1280 x 960, 1280 x 720, 704 x 480, 640 x 480, 352 x 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   |
| Audio Sampling Rate           | 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; |
|                               | MP2L2: 16kHz, 32kHz, 48kHz<br>PCM: 8kHz, 16kHz, 32kHz, 48kHz  |
| Environmental 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, Websocket, Websockets |
| 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 | 1. Detects up to 10 faces simultaneously  |
|              | 2. Uploads face with background and close-up face pictures  |
|              | 3. Support detecting, tracking, capturing, grading, selecting of face in motion, and outputs the best picture of the face |

## GENERAL

|                      |   |
|----------------------|---|
| Dimensions           | Φ 281 mm × 405 mm   |
| Power                | 100 VAC to 240 VAC (50/60 Hz), Max.: 60 W   |
| Operating Conditions | Temperature: -40°C to 60°C, Humidity: ≤ 95%   |
| Material             | SUS316L with anti-corrosion surface spray treatment   |
| Weight               | 22 kg   |
| Ex-mark              | ATEX: Ex II 2GD Ex db IIC T6 Gb / Ex tb IIIC T80 Db; IECEx: Ex db IIC T6 Gb / Ex tb IIIC T80 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                 |

## Accessories



### Ex-Proof Junction Box DS-2780ZJ-X/316L

Junction Box