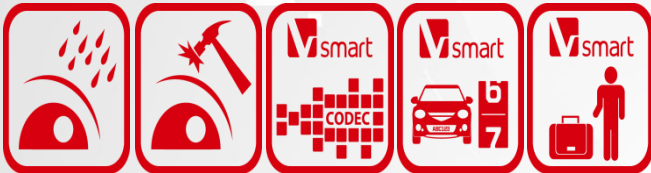


## DS-2CD4312FWD-PTZ(S) 1.3 MP Smart PTZ Outdoor Dome Camera



The DS-2CD4312FWD-PTZ(S) series Smart cameras are able to capture high quality colored images. DS-2CD4312FWD-PTZ(S) offers 1.3MP HD resolution with up to 30fps, DWDR, PoE, Defog, motorized PTZ, 3D DNR and complete Smart Feature-set to meet a wide variety of applications.

- 1/3" Progressive Scan CMOS
- 1280 x 960 @ 30fps frame rate
- Slow shutter
- DWDR
- Motorized PTZ
- 3D DNR
- Support 128G on-board storage
- AC24V/PoE

### smart IPC

DS-2CD4312FWD-PTZ(S) is Hikvision Smart IPC and features complete Smart functions including:

#### **Smart Detection**

Intrusion Detection, Line Crossing Detection, Object Left/Removal, Area Entering/Leaving, Scene Change Detection, Audio Surge Detection, Audio Loss Detection, Defocus Detection, Face Detection, Object Counting, etc.

#### **Smart Codec**

Smart Recording with dual-VCA, Low Bitrate, Low Latency, ROI enhancement, Multi-stream, Rotate Mode, Edge Recording, etc.

#### **Smart Image Control**

Support distortion correction



## Key Features

### Smart

- 6 behavior analysis, 4 exception detections, 1 recognition, 1 statistic function.
- Smart recording: Support edge recording and dual-VCA.
- Smart encoding: Support low bit rate; low latency; ROI enhance encoding
- Smart lens options: AF lens

### Image

- HD 1280 × 960@30fps
- Supports image distortion correction
- Support rotate mode, suitable for environment as corridor.
- Support regional cropping, details can be seen with low bandwidth.
- Code smoothness setting for different requirements of image quality and fluency.
- Support H.264+/H.264/MJPEG/MPEG4 video compression, multi-level video quality configuration; support Basic/Main/High Profile H.264 encoding complexity.
- Multiple OSD color: Black & white self-adaptive; Custom
- Digital WDR is supportable for backlight environment.
- Support defog, BLC, HLC.

### Infrared

- Irradiation distance is up to 40m(2.8~12mm)/50m(8~32mm)
- Smart IR, prevent over-exposure in close distance

### System

- Support ONVIF (profile S/profile G), CGI, PSIA, ISAPI protocol.
- Support three streams, and Support 20 channels live view at the same time.
- AF automatic fast focus, maintain focused during zooming
- Anti-thunder, anti-surge, anti-static, IP66 & IK10 protection level.
- Support motorized PTZ

### Interface

- Support standard 128G Micro SD/SDHC/SDXC card storage.
- Support 10M/100M/1000M Ethernet Port.
- Support Audio I/O, support dual channel stereo audio (-S)
- Support Alarm I/O (-S)
- Support CVBS analog output (4CIF resolution) and RS-485 interface (-S)

### Security

- Support three-level user authentication management, user and password authorization, IP address filtering and anonymous access.
- Support security certificate as HTTPS, SSH; support creating certificate.
- Basic and digest authentication is supportable in IE configuration
- Lock user IP for many times error login

# DS-2CD4312FWD-PTZ(S)

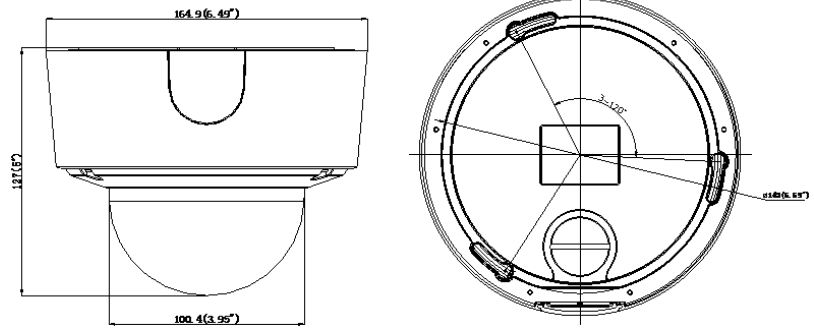
## 1.3MP Smart PTZ Outdoor Dome Camera



### Specification

<b>Camera</b>	
Image Sensor	1/3" Progressive Scan CMOS
Min. Illumination	0.01 Lux @ (F1.2, AGC ON), 0 lux with IR 0.014 Lux @ (F1.4, AGC ON), 0 lux with IR
Shutter Speed	1s ~ 1/100,000s
Slow Shutter	Support
Lens	2.8-12mm @ F1.4, angle of view: 98.4-30.2°; 8-32mm @ F1.4, angle of view: 27.8-9.1°
Lens Mount	Φ14
Auto-iris	DC drive
Day & Night	IR Cut Filter with auto switch
WDR	120dB
<b>Compression Standard</b>	
Video Compression	H.264+/H.264/MJPEG/MPEG4
H.264 Type	Baseline Profile / Main Profile / High Profile
Video Bit Rate	32 Kbps – 16 Mbps
Audio Compression	G.711/G.722.1/G.726/MP2L2
Audio Bit Rate	64Kbps(G.711) / 16Kbps(G.722.1) / 16Kbps(G.726) / 32-128Kbps(MP2L2)
<b>Image</b>	
Max. Resolution	1280 × 960
Frame Rate	50Hz: 50fps (1280 × 960)/(1280 × 720) 60Hz: 60fps (1280 × 960)/(1280 × 720)
Third Stream	Independent with Main Stream and Sub Stream, up to 50/60Hz: 25fps(1280 × 960)
Image Enhancement	BLC/HLC/3D DNR/ROI/Defog
Image Setting	Rotate Mode, Saturation, Brightness, Contrast, Sharpness adjustable by client software or web browser
Distortion Correction	Support
Regional Cropping	Support
Day/Night Switch	Auto/Schedule/Triggered by Alarm In
Picture Overlay	LOGO picture can be overlaid on video with 128x128 24bit bmp format
<b>Network</b>	
Network Storage	NAS (Support NFS,SMB/CIFS), ANR
Alarm Trigger	Motion detection, Tampering alarm, Network disconnect, IP address conflict, Storage exception
Protocols	TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour
Security	User Authentication, Watermark, IP address filtering, Anonymous access
Standard	ONVIF(PROFILE S,PROFILE G),PSIA,CGI,ISAPI
<b>Interface</b>	
Audio (-S)	2-ch 3.5 mm audio in (Mic in/Line in)/out interface
Communication Interface	1 RJ45 10M/100M Ethernet port, 1 RS-485 interface (-S)
Alarm (-S)	2 input, 2 output (up to DC24V 1A or AC110V 500mA )
Video Output	1Vp-p composite output (75 Ω/BNC)
On-board storage	Built-in Micro SD/SDHC/SDXC slot, up to 128 GB
Reset Button	Yes

## Dimensions



### Audio

Environment Noise Filtering	Support
Audio I/O	Support dual audio track, stereo
Audio Sampling Rate	16kHz / 32kHz / 44.1kHz / 48kHz

### Smart Feature-set

Behavior Analysis	Line crossing detection, Intrusion detection, Region entrance, Region exiting, Unattended baggage, Object removal
Line Crossing Detection	Cross a pre-defined virtual line
Intrusion Detection	Enter and loiter in a pre-defined virtual region
Region Entrance	Enter a pre-defined virtual region from the outside place
Region Exiting	Exit from a pre-defined virtual region
Unattended Baggage	Objects left over in the pre-defined region such as the baggage, purse, dangerous materials
Object Removal	Objects removed from the pre-defined region, such as the exhibits on display.
Exception Detections	Scene change detection, Sudden audio increase/decrease detection, Audio loss detection, Defocus detection
Recognition	Face detection recognition
Statistics	Object Counting (Entrance and Exit object number is accounted and showed on screen in real time)

### General

Protection Level	IP66
Impact Protection	IK10
IR Distance	40m(2.8~12mm)/50m(8~32mm)
Operating Conditions	-30 °C – 60 °C (-22 °F – 140 °F), Humidity 95% or less (non-condensing)
Power Supply	AC24V/PoE(802.3at)
Power Consumption	Max. 13.5 W
Dimensions	Φ159.8 × 146 mm(Φ6.29" × 5.75")
Weight	2100 g (4.63 lbs)

### Order Models

DS-2CD4312FWD-PTZ, DS-2CD4312FWD-PTZS

## Accessories



DS-1268ZJ

Pendant Mount



DS-1273ZJ-160

Outdoor wall mount