iDS-2CD7587G2-XZHS(Y)
8MP DarkfighterS DeepinView PTRZ Dome Camera



Hikvision has been dedicated to develop products with security since established.
Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection. In the meantime, the security technologies used by Hikvision are all in compliance with local applicable laws and safety regulations. These security measures could enhance product's cyber security protection capability and protect your devices as well as your data from malicious cyber attacks.

- High quality imaging with 8 MP resolution
- Excellent low-light performance via Darkfighter 2.0 technology
- Efficient H.265+ compression technology to save bandwidth and storage
- Clear imaging against strong back light due to 140 dB true WDR technology
- 5 streams to meet a wide variety of applications
- Water and dust resistant (IP67), vandal proof (IK10) and corrosion resistant (NEMA 4X, optional)
- High frame rate, up to 8MP@60fps and 2MP@120fps
- Built-in G-sensor for vibration detection
- Built-in power meter for historical power statistics
- Unique PTRZ capability for efficient installation and maintenance

▪ Function

Face Capture

With embedded deep learning based algorithms, the camera is able to give the best shot of a target face through detecting, capturing, grading and selecting. The camera uses face exposure function to dynamically adjust face area exposure of captures and ensures high face picture quality.

Perimeter Protection

With embedded deep learning based target detection and classification algorithms, the camera carries out the duty of perimeter protection, monitoring the actions of line crossing, intrusion, region entrance, and region exiting. The algorithms greatly filter out the mistaken alarm caused by the interference of leafs, lights, animal, flag, etc.

Multi-Target-Type Detection

With the embedded deep learning algorithms, the camera detects and captures the face, human body, vehicle in the specified region.

Queue Management

With embedded deep learning based algorithms, the camera detects queuing-up people number and waiting time of each person. It can generate reports to compare the efficiency of different queuing-ups and display the changing status of one queue, and supports raw data export for further analysis.

Regional People Counting

With the embedded deep learning algorithms, the camera supports people density detection and will upload detection data through scheduled uploading, number of people change uploading and congestion level uploading. It also supports number of people exception detection and waiting time exception detection.

On/Off Duty Detection

With the embedded deep learning algorithms, the camera supports absence detection and on/off duty detection. It can detect the on/off duty status and people number changes in a predefined area.

Heat Map

The camera can generate a graphic description of visits (by calculating amount of people or amount of dwell time) in a configured area.

Multi-Dimension People Counting

With the embedded deep learning algorithms, the camera integrates multiple intelligences. It counts persons and compares them with the built-in face picture library to remove duplicates. It counts persons and reports an alarm simultaneously to achieve both the entrance control and people counting.

PPE Detection

With the embedded deep learning algorithms, the camera detects the persons in the specified region. It detects whether the person is wearing a hard hat and reflective clothing, and reports an alarm if not.

▪ Specification

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	3840 × 2160
Min. Illumination	Color: 0.0005 Lux @ (F1.0, AGC ON),B/W: 0.0001 Lux @ (F1.0, AGC ON),B/W: 0 Lux with IR
Shutter Time	1 s to 1/100,000 s
Day & Night	IR cut filter, Blue glass module (less ghost phenomenon)
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 85°, rotate: 0° to 355°
Lens	
Focal Length & FOV	2.8 to 12 mm, horizontal FOV 102.3° to 43.5°, vertical FOV 54.2° to 24.3°, diagonal FOV 123.5° to 50.0°
Focus	Auto,Semi-auto,Manual
Iris Type	P-iris
Aperture	F1.0 to F1.2
DORI	
OODPCVS	Wide: Overview: 115.0 m, Outline: 57.5 m, Discern: 28.8 m, Perceive: 18.4 m, Characterize: 9.2 m, Validate: 4.6 m, Scrutinize: 1.5 m Tele: Overview: 255.0 m, Outline: 127.5 m, Discern: 63.8 m, Perceive: 40.8 m, Characterize: 20.4 m, Validate: 10.2 m, Scrutinize: 3.4 m The OODPCVS values are calculated using pixel densities for different use cases as recommended by the IEC/EN 62676-4:2025 standard. IEC 62676-4:2025 describes the planning, design, installation, testing, commissioning, and maintaining of video surveillance systems (VSS) comprising image capture device(s), interconnection(s) and image handling device(s), for use in security applications within private or public spaces.
Illuminator	
IR Wavelength	850 nm
Supplement Light Range	2.8 to 12 mm: up to 40 m
Supplement Light Type	IR,White Light
Smart Supplement Light	Yes
HEOP	
Open Resources	Memory: 150 MB, Smart RAM: 2200 MB, eMMC: 1288 MB
Computing Power	5 TOPS
Open Capability	HEOP 2.0 OpendevSDK
Deep Learning Structure	Caffe,PyTorch,TensorFlow
Programming Language	C,C++

AI Open Platform	
Model Specification	1. Up to 3 models. Model type: detection model, classification model, mixed model (detection model and classification model). 2. Supports video analysis (detection, classification, mixed, OCR, segmentation, comparison) and scheduled capture analysis (classification). (1) Detection: Region target exception status detection, line crossing target detection, line crossing target counting, region target number counting, full analysis rule, combined rule, area overlap ratio counting, area overlap ratio exception detection. (2) Classification: Region exception status detection, full analysis rule. (3) Mixed: Region target exception status detection, line crossing target detection, line crossing target counting, region target number counting, full analysis rule, combined rule; area overlap ratio counting, area overlap ratio exception detection. (4) Picture Comparison: Area status change detection. (5) OCR: OCR-triggered capture. (6) OVD: Region target exception status detection, line crossing target detection, line crossing target counting, region target number counting, full analysis rule, combined rule, area overlap ratio counting, area overlap ratio exception detection. 3. Supports 4 model packages, each capable of detecting 16 target types and classifying 4 targets. The targets can be classified as 64 types. The device runs only 1 model at the same time. 4. Built-in models for PPE detection (hard hat and reflective clothing).
Video	
Main Stream	Monitoring mode: 50 Hz: up to 50 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1280 × 720), up to 100 fps (1920 × 1080) 60 Hz: up to 60 fps (3840 × 2160, 3072 × 1728, 2560× 1440, 1280 × 720), up to 120 fps (1920 × 1080) *High frame rate is supported under monitoring mode only. smart mode: 50 Hz: 25 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (1280 × 720, 704 × 576, 640 × 480) 60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480)
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Fourth Stream	50 Hz: 25 fps (1280 × 720, 704 × 576, 640 × 480) 60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480)
Fifth Stream	50 Hz: 25 fps (1280 × 720, 704 × 576, 640 × 480) 60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264, Fourth stream: H.265/H.264/MJPEG, Fifth stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 16 Mbps
H.264 Type	Baseline Profile,Main Profile,High Profile
H.265 Type	Main Profile

Bit Rate Control	CBR,VBR
Target Cropping	Yes
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	4 fixed regions for each stream
Guanlan AI Encoding	Yes
Audio	
Audio Bit Rate	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)
Environment Noise Filtering	Yes
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/48 kHz
Audio Type	Mono sound
Network	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, SRTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, WebSocket, WebSockets, MQTT/MQTTS, RTMP, Support X.509 authentication
Simultaneous Live View	Up to 20 channels
API	ONVIF (Profile S, Profile G, Profile T, Profile M),ISAPI,SDK,ISUP,OTAP
User/Host	Up to 32 users 3 user levels: administrator, operator, and user
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2, TLS 1.3, TPM 2.0 (FIPS 140-2 level 2), AES128/256
Smooth Streaming	Yes
Network Storage	NAS (NFS, SMB/CIFS),Auto Network Replenishment (ANR), Cloud Storage, Together with high-end Hikvision memory card, memory card encryption and health detection are supported.
Client	iVMS-4200,Hik-Connect,Hik-Central
Web Browser	Plug-in required live view: IE 10, IE 11, Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Safari 11+, Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+
Image	
Image Parameters Switch	Yes
Image Settings	Rotate mode,saturation,brightness,contrast,sharpness,white balance,AGC,adjustable by client software or web browser
Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger
Wide Dynamic Range (WDR)	140 dB
Privacy Mask	8 programmable polygon privacy masks
SNR	≥ 52 dB
Image Enhancement	BLC,HLC,3D DNR,Distortion Correction,Defog
Image Stabilization	EIS
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.

Interface	
Video Output	1 Vp-p Composite Output (75 Ω/CVBS) (Only for debugging)
Ethernet Interface	1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet port
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1 TB
Built-in Microphone	Yes, 2 built-in microphones
Audio	1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium, 1 output (line out), 3.5 mm connector, three-contact, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium, mono sound
Built-in Speaker	Yes, 1 built-in speaker
Alarm	With -Y: 2 inputs, 2 outputs (max. 24 VDC, 1 A), Without -Y: 1 input, 1 output (max. 24 VDC, 1 A)
RS-485	With -Y: 1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive), Without -Y: No
Reset Key	Yes
Power Output	12 VDC, max. 100 mA
Event	
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)),video tampering alarm,exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error),glass break detection,scream detection,gunshot and explosion sound detection,crying sound detection
Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting detection
Linkage	Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger alarm output,trigger recording,trigger capture,audible warning,HTTP custom alarm
Deep Learning Function	
Multi-target-type Detection	Supports dynamic mosaic mask, Supports ShotN technology, Supports simultaneous detection and capture of capture of human body, face, and vehicle, Gets 7 face features, Gets 13 human body features, Gets 2 vehicle features, Supports counting the number of line crossing targets by type, including human body, non-motor vehicle, motor vehicle,, Supports license plate recognition
Face Capture	Detects up to 120 faces simultaneously, captures up to 40 face pictures per frame simultaneously and uploads up to 10 face pictures per second, Supports swing left and right from -70° to 70°, tilt up and down from -50° to 50°, Uploads face with background and closed-up face pictures, Supports best shot and quick shot for capture mode, Gets 7 face features
Face Comparison	Up to 10 face libraries. 30,000 faces for each library. 150,000 faces in total, Supports face library encryption

People Counting	Supports Multi-Dimension People Counting, Supports counting, displaying and exporting the people flow data of entering, exiting and passing by (The data is stored in the flash.), Supports real-time uploading and uploading by statistic cycle, Supports generating daily, weekly, monthly or annually reports, Supports dynamic deduplication based on face picture comparison, and can filter out the target with the same custom face pictures, same attributes, or filter out repeated invalid targets within the set time interval, Supports face feature deduplication, Supports people flow data replenishment, Reverse counting alarm will be triggered when the target leaves the detection area in the direction opposite to the set direction,Supports Face Mode and Clothing Mode
Activity Analysis	Support the detection of person smoking or making phone calls and trigger alarm. The detection attributes include head and shoulders, hands, faces, making phone calls, and smoking.
Queue Management	Supports up to 8 detection regions, and independent arming schedule and linkage method Supports 2 detection modes: regional people queuing-up, waiting time detection Generates reports to compare the efficiency of different queuing-ups and display the changing status of one queue Supports raw data export for further analysis Supports real-time data uploading and scheduled data uploading Regional people queuing-up: supports 4 alarm trigger conditions, including greater than threshold, less than threshold, equal to threshold, not equal to threshold Waiting time detection: supports 1 alarm trigger condition, including greater than threshold Supports combined rule settings for Regional People Counting and Waiting Time Detection. Mode 1: Alarm can be independently triggered if any one of the event alarm conditions is met. Mode 2: Alarm can be triggered only when the number of people meets the alarm threshold and at least one person's waiting time meets the threshold.
Heat Map	A graphic description of visits (by calculating amount of people or amount of dwell time) in a configured area., Two report types are available, space heat map and time heat map line chart.
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle) Support combined event alarm triggering
Metadata	Intrusion detection,line crossing detection,region entrance detection,region exiting detection,face capture,multi-target-type detection

Regional People Counting	Supports up to 8 detection regions, and independent arming schedule and linkage method Supports 3 detection modes: people density detection, number of people exception detection, waiting time exception detection Supports parameter settings: alarm times per exception, alarm interval, first alarm delay Supports searching real-time number of people People density detection: supports scheduled uploading, number of people change uploading, congestion level uploading Number of people exception detection: supports 6 alarm trigger conditions, including greater than threshold A, less than threshold A, equal to threshold A, not equal to threshold A, greater than threshold A and less than threshold B, less than threshold A or greater than threshold B (threshold A should be less than threshold B) Waiting time exception detection: supports 3 alarm trigger conditions, including greater than threshold A, less than threshold A, greater than threshold A and less than threshold B (threshold A should be less than threshold B)
On/Off Duty Detection	Supports up to 8 detection regions, and independent arming schedule and linkage method Supports 2 detection modes: absence detection, on/off duty detection Supports parameter settings: person on duty, absence duration
AcuSeek	Support searching for humans, license plates, vehicles, non-motorized vehicles, and animals and uploading the feature information. This function requires use with AcuSeek NVR/Servers.
PPE Detection	Detects hard hat and reflective clothing, triggering alarm when not worn. Detects people not wearing hard hat. Supported hat colors: red, orange, yellow, blue, white, and others.
General	Supports scheduled-switch of smart applications. Supports enabling 2 smart applications at the same time.
General	
Power	12 VDC ± 20%, 1.74 A, max. 20.8 W, three-core terminal block; 24 VAC ± 20%, 1.32 A, max. 19.9 W, three-core terminal block; PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.41 A to 0.5 A, max. 21.1 W
Material	Aluminum alloy body
Dimension	iDS-2CD7587G2-XZHS(Y):Ø182.7 mm × 150 mm (Ø7.2" × 5.9") Ø182.7 mm × 150 mm (Ø7.2" × 5.9")
Package Dimension	250 mm × 250 mm × 260 mm (9.9" × 9.9" × 10.2")
Weight	With -Y: Approx. 1900 g (4.19 lb.), Without -Y: Approx. 2170 g (4.78 lb.)
With Package Weight	With -Y: Approx. 2470 g (5.45 lb.), Without -Y: Approx. 2600 g (5.73 lb.)
Startup and Operating Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)
Storage Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)
Language	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian

General Function	Heartbeat,anti-banding,one-key reset,mirror,password protection,flash log
Heater	Yes
Device Management	Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6 output alarm interfaces. Supports adding network microphone and speaker.
Integrated Connector Panel	With -Y: No, Without -Y: Yes
Approval	
EMC	CE-EMC: EN 55032:2015+A11:2020+A1:2020, EN IEC 61000-3-2:2019+A1:2021+A2:2024,EN 61000-3-3:2013+A1:2019+A2:2021,EN 50130-4:2011+A1:2014 RCM: EN 55032:2015+A11:2020+A1:2020, EN IEC 61000-3-2:2019+A1:2021+A2:2024,EN 61000-3-3:2013+A1:2019+A2:2021,EN 50130-4:2011+A1:2014 IC: ICES-003 Issue7:October 2020
Safety	CB: IEC 62368-1:2014, CE-LVD: EN 62368-1:2014 + A11: 2017, LOA: IEC/EN 60950-1
Environment	CE-RoHS: 2011/65/EU, WEEE: 2012/19/EU, Reach: Regulation (EC) No 1907/2006
Protection	IP67:IEC 60529-2013,IK10:IEC 62262:2002
Anti-Corrosion Protection	-Y: NEMA 4X (ANSI/NEMA 250-2020)
Other	PVC FREE
Cyber Security	IEC62443-4-1 ML2 EUCC CC: EAL3

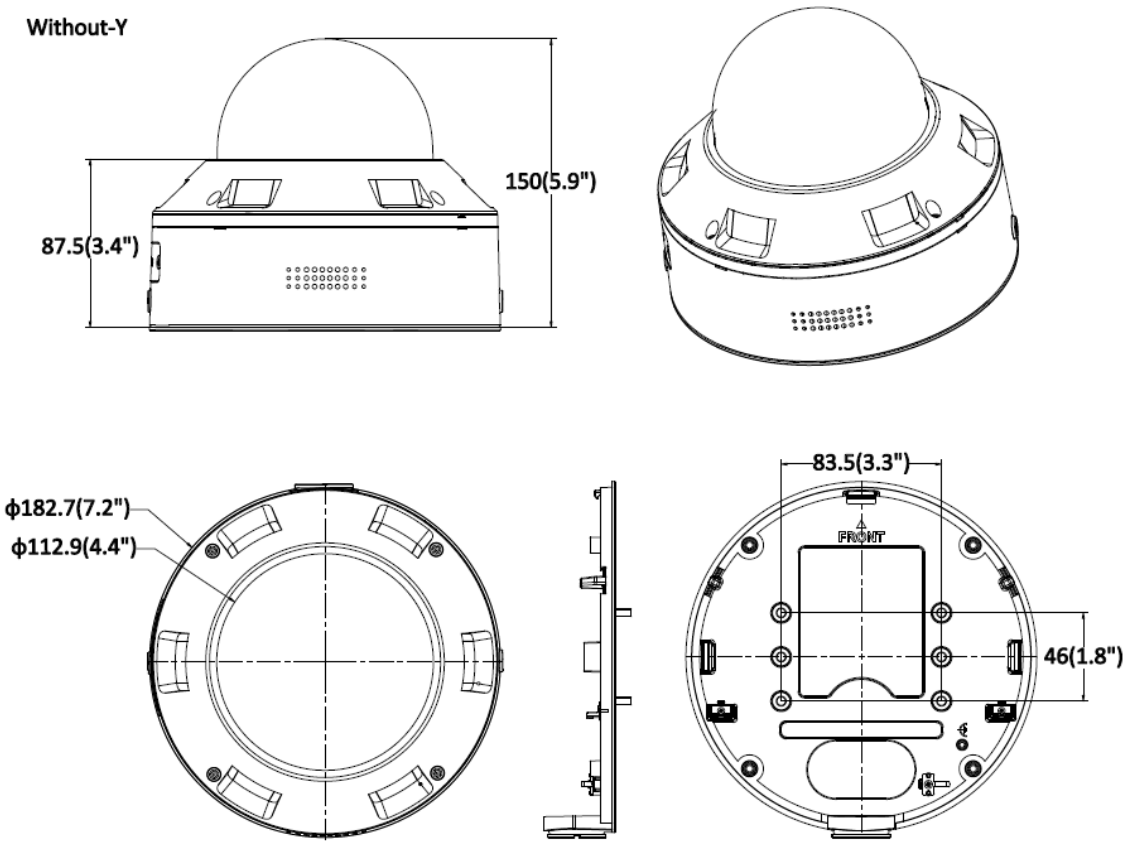
▪ Typical Application

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

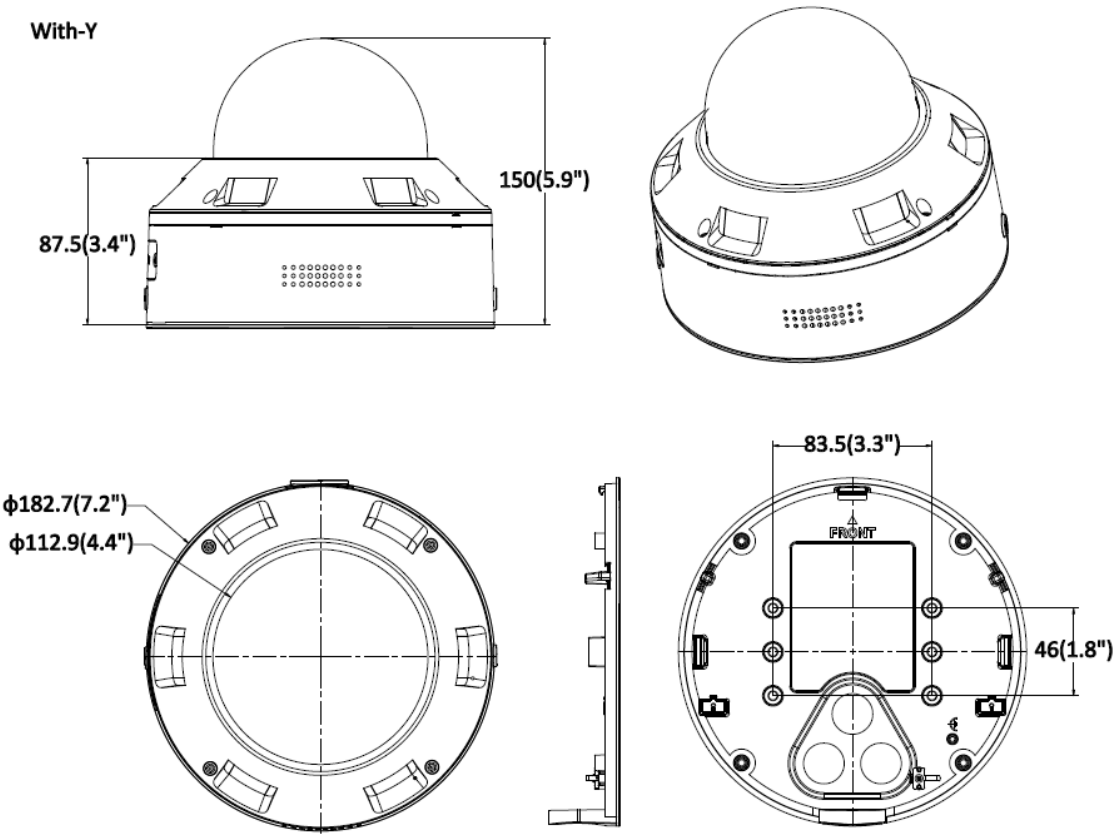
With -Y model: This model has MODERATE PROTECTION.
Without -Y model: This model has NO SPECIFIC PROTECTION.

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



Camera Mounting Hole (mm)	Camera Mounting Hole (inch)
Double Gang(4×Ø4.5)	Double Gang(4×Ø0.2")
Single Gang(2×Ø4.5)	Single Gang(2×Ø0.2")



Camera Mounting Hole (mm)	Camera Mounting Hole (inch)
Double Gang(4×Ø4.5)	Double Gang(4×Ø0.2")
Single Gang(2×Ø4.5)	Single Gang(2×Ø0.2")

▪ Accessory

▪ Optional

DS-4203ZJ-WAY	DS-4210ZJ-WAY	DS-4277ZJ-WP	DS-1475ZJ-SUS	DS-1476ZJ-SUS
				
DS-1476ZJ-Y	DS-1475ZJ-Y			





See Far, Go Further

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