DH-SDT2A200-2F-NB-A-PV

2+2MP Smart Dual Light WizSense X-Spans Network PT Camera



- Displays videos in two channels at the same time.
- 1/2.8" 2Megapixel CMOS
- Human Detection and Vehicle Detection
- IR and warm light, three night view modes
- Two-way talk
- H.265 encoding
- Supports manual adjustment of fixed lens (Vertical: -10° to 15°)



Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

Series Overview

Designed with more lens than the conventional PT camera, the SDT2A series captures an expansive view, as it independently monitors scenes from different angles. It has a unique design that makes it cost-effective, greatly reducing the installation cost of security systems. It supports two-way talk, allowing you to communicate with people in front of the camera in real time. It also records videos in full color, and uses Smart Dual Light to help produce vivid images, making it easy to obtain information on events, and reduce light pollution.

Functions

Smart Dual Light

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

Two-way Talk

With its built-in high-sensitivity microphone and high-power speaker, the camera realizes two-way talk through the mobile app.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

SMD 3.0

Empowered by deep-learning algorithms, Dahua SMD filters out motion detection alarms triggered by targets that are not a concern. It quickly recognizes humans and vehicles, triggering alarms when an intrusion occurs.

Siren and Light Active Deterrence

Dahua siren and light active deterrence network camera supports the white light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention.

Technical Specification

Camera

Image Sensor	Fixed lens: 1/2.8" CMOS; PT lens: 1/2.8" CMOS
Pixel	Fixed lens: 2 MP; PT Lens: 2 MP
Max. Resolution	Fixed lens: 1920 (H) × 1080 (V); PT Lens: 1920 (H) × 1080 (V)
ROM	128 MB
RAM	128 MB
Electronic Shutter Speed	Fixed lens: 1 s–1/100,000 s; PT Lens: 1 s–1/100,000 s
Scanning System	Progressive
Min. Illumination	Fixed lens: 0.05 lux@F1.6 (Color, 30 IRE); 0.005 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on); PT Lens: 0.05 lux@F1.6 (Color, 30 IRE); 0.005 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on)
Illumination Distance	Fixed lens: 30 m (98.43 ft) (warm light); 30 m (98.43 ft) (IR); PT Lens: 30 m (98.43 ft) (warm light); 30 m (98.43 ft) (IR)
Illuminator On/Off Control	Fixed lens: Manual; Auto; Off; PT Lens: Manual; Auto; Off
Illuminator Number	Fixed lens: 2 (IR); 2 (warm light); PT Lens: 2 (IR); 2 (warm light)

Lens

Focal Length	Fixed lens: 4 mm; PT Lens: 4 mm
Max. Aperture	Fixed lens: F1.6; PT Lens: F1.6
Field of View	Fixed lens: H: 85.7°; V: 47.1°; D: 100°; PT Lens: H: 85.7°; V: 47.1°; D: 100°
Close Focus Distance	Fixed lens: 0.8 m (2.62 ft); PT Lens: 0.8 m (2.62 ft)
Iris Control	Fixed lens: Fixed iris; PT Lens: Fixed iris

DORI Distance

Lens	Detect	Observe	Recognize	Identify
Fixed lens: 4 mm; PT Lens: 4 mm	53.6 m (175.82 ft)	21.2 m (69.55 ft)	10.7 m (35.10 ft)	5.3 m (17.39 ft)

*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.

PTZ

Pan/Tilt Range	Fixed lens: Manual adjustment Pan：0°–290°; Tilt: –10°–15° PT Lens: Electric adjustment Pan：0°–350°; Tilt: 0°–90°
Manual Control Speed	Pan: 0.1°–36°/s; Tilt: 0.1°–25°/s
Preset Speed	Pan: 36°/s; Tilt: 25°/s
Preset	50
Power-off Memory	Yes
Idle Motion	Preset

Smart Event

Human Detection	Fixed lens: Yes; PT Lens: Yes
Vehicle Detection	Fixed lens: Yes; PT Lens: Yes

Intelligence

SMD	SMD 3.0

Active Deterrence

Light Warning	White light warning; Flash duration: 5 s–30 s; Flash frequency: high, medium, low
Sound Warning	Offers 3 sound alarm and 10 custom sound alarms can be imported. Sound can be set from 0%–100%. Play times can be set from 1-10.

Video

Video Compression	Smart H.265+;H.265;Smart H.264+;H.264B;H.264M;H.264H
Streaming Capability	2 streams
Resolution	Fixed lens: 1080p (1920 × 1080); 720p (1280 × 720); 640 × 360 (640 × 360); QVGA (320 × 240); PT Lens: 1080p (1920 × 1080); 720p (1280 × 720); 360p (640 × 360); QVGA (320 × 240);
Video Frame Rate	Fixed lens: Main stream: 1080p/720p/640x360@(1–25/30 fps) Sub stream 1: 640x360/QVGA@(1–25/30 fps) PT Lens: Main stream: 1080p/720p/640x360@(1–25/30 fps) Sub stream 1: 640x360/QVGA@(1–25/30 fps)
Bit Rate Control	CBR/VBR
Video Bit Rate	H264: 48 kbps–4,096 kbps H265: 19 kbps–4,096 kbps
Day/Night	Fixed lens: Auto (ICR)/Color/B/W; PT Lens: Auto (ICR)/Color/B/W
BLC	Yes
WDR	DWDR
HLC	Yes
White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Gain Control	Auto; manual

Noise Reduction	2D NR; 3D NR
Motion Detection	Yes
Image Rotation	180°
S/N Ratio	≥55 dB

Audio

Audio Compression	PCM; G.711a; G.711Mu; G.726

Network

Network Port	RJ-45 (10/100 Base-T)
Network Protocol	HTTP;HTTPS;TCP/IP;IPv4;RTSP;UDP;SMTP;DHCP;DNS;DDNS;IPv6;SSL;ARP;RTCP;RTP;IP Filter
Interoperability	CGI;SDK;ONVIF (Profile S & Profile T)
Streaming Method	Unicast/Multicast
User/Host	20 (total bandwidth: 64 M)
Storage	Micro SD card (256 GB)
Browser	IE 7 and later versions; All Chrome versions; All Firefox versions; All Safari versions

Certification

Certifications	CE: EN55032/EN55024/EN50130-4

Port

Audio Input	1 channel (built-in mic)
Audio Output	1 channel (built-in speaker)
Alarm Linkage	Capture; recording; audio; warning light; preset
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection

Power

Power Supply	12 VDC/1.5 A ± 10% PoE (802.3af)
Power Consumption	Basic: 4 W; Max: 12 W (illuminator + PTZ +sound and light warning)
Power Adapter	Optional

Environment

Operating Temperature	–20 °C to +50 °C (–4 °F to +122 °F)
Operating Humidity	≤95%
Protection	IP66;TVS 2000 V lightning proof; surge protection; voltage transient protection

Structure

Product Dimensions	110.0 mm × 159.4 mm × 210.1 mm (4.33" × 6.28" × 8.27") (L × W × H)
Net Weight	1 kg (2.20 lb)
Gross Weight	1.5 kg (3.31 lb)

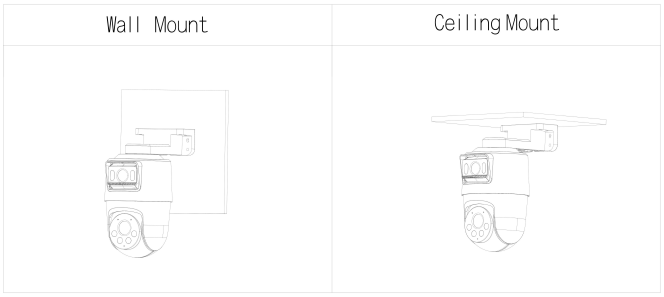
Filter

Remarks	The precision of the presets for PTZ cameras might vary depending on different series. For scenes with high requirements on the precision, contact your local sales representative for assistance with selecting the model.

Ordering Information

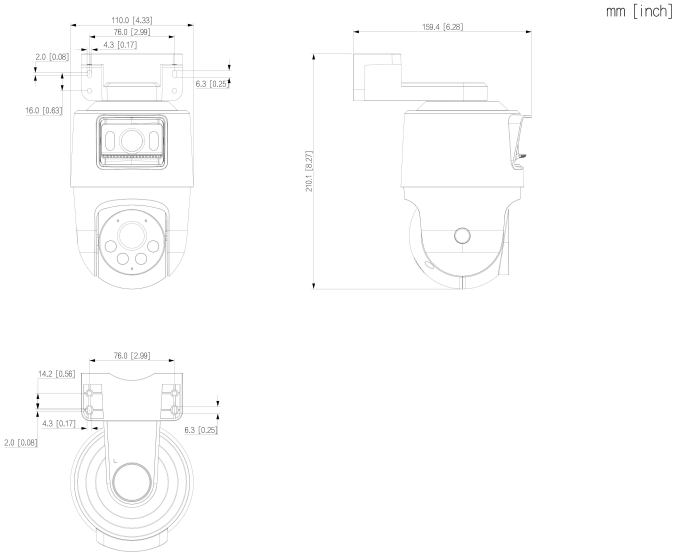
Type	Model	Description
NETWORK PT CAMERA	DH-SDT2A200-2F-NB-A-PV	2+2MP Smart Dual Light WizSense X-Spans Network PT Camera

Installation



Dimensions (mm[inch])

mm [inch]



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