

DH-IPC-PTS2649C-3E3Z-4GB20

3+3MP WizColor Hybrid-zoom PT 4G Solar Power Network Camera



System Overview

Driven by industry-leading technology, Dahua Wireless Series network cameras are highly precise and easy to install, producing high-quality images. They have strong wireless connection capabilities and do not require network cables, eliminating the need for a professional construction team. This series of cost-effective cameras supports local storage and is dustproof and waterproof. It is ideal for small and medium-sized scenes such as retail stores, homes, and other small and medium-sized enterprises.

Functions

AOV (Always-On Video) Mode

AOV (Always-On Video) technology offers a low power consumption solution that enables 24/7 video recording. Equipped with advanced AI algorithms, the camera can be woken up to perform detection even at long distances. During inactive periods, it records at a low frame rate and seamlessly escalates to a high frame rate when an event is detected, ensuring smooth and continuous video recordings.

Two-way Talk

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

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.

- · Displays videos in two channels at the same time
- · 1/2.8" 3Megapixel CMOS
- · WizColor technology
- · 6x hybrid zoom
- Two-way talk
- ·SMD3.0
- · Siren and Light Active Deterrence
- · Auto Tracking Lite
- · Supports AOV mode
- \cdot 4G Connection
- · Built-in 65Wh high-capacity ternary lithium battery
- · Supports Type-C power supply
- · Supports manual adjustment of fixed lens (Vertical:-7° to 20°)
- · IP66



AI-ISP

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

4G

With a built-in high-performance 4G mobile network module, the camera can be directly registered to cloud platforms after a 4G SIM card has been inserted into it. It can be installed anywhere without the hassle of network cables. Users can perform real-time monitoring and remote control of the camera from a mobile client through 4G network.

Smart Hybrid Zoom

By integrating multiple sensors with various fixed lenses, this camera delivers exceptional zoom performance. When the built-in AI algorithm detects a human, the lens automatically zooms in, tracks the target's movement, and effortlessly captures both close-up and distant scenes for precise monitoring.

Tap and View

Easy to use, you can tap on any spot in the live video feed from the fixed lens, allowing the PT lens to instantly rotate and focus on your selected area, delivering a clear close-up view of the target.

Wireless Series | DH-IPC-PTS2649C-3E3Z-4GB20

Technical Specification					
Camera					
Image Sensor		Fixed Lens: 1/2.8" CMOS PT Lens: 1/2.8" CMOS			
Pixel		Fixed Lens: 3 MP PT Lens: 3 MP			
Max. Resolution		Fixed Lens: 2304 (H) × 1296 (V) PT Lens: 2304 (H) × 1296 (V)			
ROM		256 MB			
RAM		256 MB			
Scanning System		Progressive			
Min. Illumination		Fixed Lens: 0.0005 lux@F1.0 (Color, 30 IRE); 0 lux (Illuminator on) PT Lens: 0.0005 lux@F1.0(Color, 30 IRE); 0 lux (Illuminator on)			
Illumination Distance		Fixed Lens: 30 m (98.43 ft) (Warm light) PT Lens: 50 m (164.04 ft) (Warm light)			
Illuminator On/Off Control		Fixed Lens: Manual; Auto; Off PT Lens: Manual; Auto; Off			
Illuminator Number		Fixed Lens: 4 (Warm light) PT Lens: 4 (Warm light)			
Lens					
Focal Length		Fixed Lens: 2.8 mm PT Lens: 3.6 mm; 8.4 mm			
Max. Aperture		Fixed Lens: F1.0 PT Lens: 3.6 mm: F1.0; 8.4 mm: F1.0			
Field of View		Fixed Lens: H: 93.5°; V: 51.9°; D: 110.1° PT Lens: 3.6 mm: H: 81.5°; V: 44.3°; D: 96.3° 8.4 mm: H: 15.1°; V: 8.4°; D: 17.8°			
Close Focus Distance		Fixed Lens: 1.1 m (3.61 ft) PT Lens: 3.6 mm: 1.7 m (5.58 ft); 8.4 mm: 6 m (19.69 ft)			
	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	40 m (131.23 ft)	15.8 m (51.84 ft)	8 m (26.25 ft)	4 m (13.12 ft)
	3.6 mm	51.43 m (168.73 ft)	20.31 m (66.65 ft)	10.29 m (33.75 ft)	5.14 m (16.87 ft)
DORI Distance	8.4 mm	120 m (393.7 ft)	47.4 m (155.51 ft)	24 m (78.74 ft)	12 m (39.37 ft)
	*DORI (Detect, Observe, Recognize, Identify) is a standard system				

*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: Pan: 0° to 210°; Tilt: -7° to +20° (manual) PT Lens: Pan: 0° to 350°; Tilt: 0° to +90° (Electric)	
Manual Control Speed	Pan: 40°/s; Tilt: 40°/s	
Preset Speed	Pan: 40°/s; Tilt: 40°/s	
Preset	50	
Tour	8 (up to 32 presets per tour)	

Power-off Memory	Yes
Smart Event	
Human Detection	Yes
Vehicle Detection	Yes
Intelligence	
Smart Tracking	Auto tracking lite Linkage tracking
SMD	SMD 3.0
Active Deterrence	
Light Warning	White light warning
Sound Warning	Offers 3 sound alarm. Sound can be set from 1-100. Play times can be set from 1-10.
Video	
Video Compression	Smart H.265+
Streaming Capability	1 stream
Resolution	Fixed Lens: 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); 640 × 360 (640 × 360) PT Lens: 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); 640 × 360 (640 × 360)
Video Frame Rate	Fixed lens:Main stream: 3M/1080p/720p/640 × 360@ (15 fps) PT lens:Main stream: 3M/1080p/720p/640 × 360@ (15 fps)
Bit Rate Control	VBR
Video Bit Rate	H265: 54 kbps–1280 kbps
WDR	Fixed Lens: DWDR PT Lens: DWDR
White Balance	Auto
Gain Control	Auto
Noise Reduction	3D NR
Motion Detection	Yes
Image Rotation	180°
S/N Ratio	≥55 dB
Audio	
Built-in MIC	Yes
Built-in Speaker	Yes
Network	
Carrier Network System	4G
Wireless Carrier Frequency Band	EAU/EUR: LTE-FDD: B1/B3/B5/B7/B8/B20/B28 LTE-TDD: B38/B40/B41 LA: LTE-FDD: B2/B3/B4/B5/B7/B8/B28/B66 LTE-TDD: B38/B40/B41

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Max. Transmission Power	4G: Power class3: 23 dBm ± 2.7 dB		
Storage	Micro SD card (512 GB)		
Management Software	DMSS		
Mobile Client	Android;iOS		
Certification			
Certifications	CE: EN 55032/EN 55035/EN 50130-4/EN 61000-3/EN 62368-1/EN 301489		
Port			
Audio Input	1 channel (built-in mic)		
Audio Output	1 channel (built-in speaker)		
Alarm Linkage	warning light; audio		
Alarm Event	Motion detection; human detection; vehicle detection		
Power			
Power Supply	Power supply: Built in 65Wh lithium battery Comes with 8 W solar panel Charging: USB Type-C (Supports QC2.0)		
Power Consumption	Super Power Saving Mode: 40 mW (4G keep-alive) AOV Mode: 170 mW (1 frame every 2 seconds, SD card recording, 4G keep-alive) Performance Mode 1: 2.4 W (4G streaming, SD card recording, PTZ static, illuminator off) Performance Mode 2: 3.7 W (4G streaming, SD card recording, PTZ static, illuminator on) Maximum Power Consumption: 8.0W (4G streaming, SD card recording, PTZ moving, illuminator on, speaker on)		
Power Adapter	Optional		
Battery Capacity	65 Wh		
Environment			
Operating Temperature	The unit device: Operating Temperature: -20 °C to +60 °C (-4 °F to +140 °F) Battery: Charging Temperature: -10 °C to +50 °C (+14°F to +122 °F) (The solar panel heating the battery first, and charging begins once the battery is heated to 0 °C) Discharging Temperature: -20 °C to +60 °C (-4 °F to +140 °F)		
Operating Humidity	≤95%		
Protection	IP66; TVS 2000 V lightning proof; surge protection; voltage transient protection		
Structure			
Product Dimensions	223.2 mm × 130.0 mm × 215.0 mm (8.79" × 5.12" × 8.46") (L × W × H)		
Net Weight	1.8 kg (3.97 lb)		
Gross Weight	2.5 kg (5.51 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.		

Model Description Type Model Description Network PTZ Camera DH-IPC-PTS2649C-3E3Z-4GB20 3+3MP WizColor Hybrid-zoom PT 4G Solar Power Network Camera Accessories PFA2590 Pole Mount Bracket

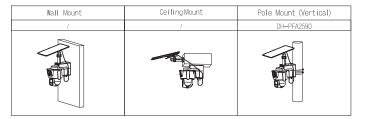
Accessories

Optional:

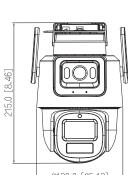


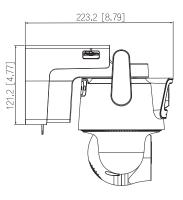
PFA2590 Pole Mount

Bracket



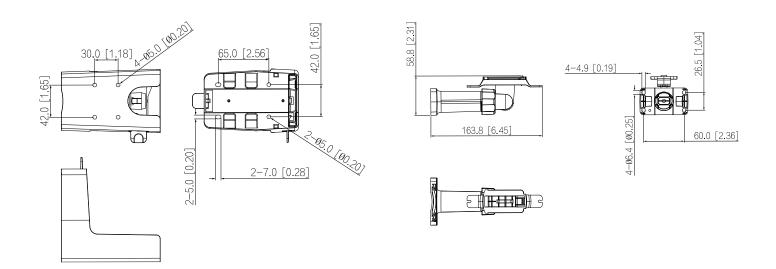
Dimensions (mm[inch])

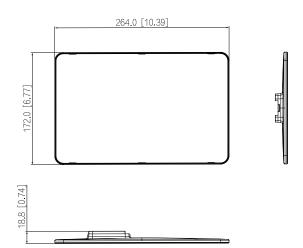




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