

# 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
- · 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.

Technical Specification						Power-off Memory	Yes
Camera						Smart Event	
Image Sensor		Fixed Lens: 1 PT Lens: 1/2.	•			Human Detection	Yes
a		Fixed Lens: 3 MP				Vehicle Detection	Yes
Pixel		PT Lens: 3 M		. () ()		Intelligence	
Max. Resolution			304 (H) × 1296 4 (H) × 1296 (\			Smart Tracking	Auto tracking lite Linkage tracking
ROM		256 MB				SMD	SMD 3.0
RAM		256 MB	256 MB			Active Deterrence	
Scanning System		Progressive	Progressive			Light Warning	White light warning
Min. Illumination		0 lux (Illumin PT Lens:	F1.0 (Color, 30 ator on) F1.0(Color, 30			Sound Warning	Offers 3 sound alarm. Sound can be set from 1-100. Play times can be set from 1-10.
		0 lux (Illumin	, ,	ine <i>j</i> ,		Video	
Illumination Distance			0 m (98.43 ft) n (164.04 ft) (\			Video Compression	Smart H.265+
Illuminator On/Off Control			Manual; Auto; ( nual; Auto; Off			Streaming Capability	1 stream
Illuminator Number			(Warm light)			Resolution	Fixed Lens: 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); 640 × 360 (640 × 360) PT Lens: 3M (2304 × 1296); 1080p (1920 × 1080); 720 (1280 × 720); 640 × 360 (640 × 360)
Lens Focal Length		Fixed Lens: 2 PT Lens: 3.6				Video Frame Rate	Fixed lens:Main stream: 3M/1080p/720p/640 × 360@ (15 fps) PT lens:Main stream: 3M/1080p/720p/640 × 360@
Max. Aperture		Fixed Lens: F PT Lens: 3.6	1.0 mm: F1.0; 8.4 i	mm: F1.0		Bit Rate Control	(15 fps) VBR
5: 11 6v		Fixed Lens: H: 93.5°; V: 5	Fixed Lens: H: 93.5°; V: 51.9°; D: 110.1°			Video Bit Rate	H265: 54 kbps–1280 kbps
Field of View		PT Lens:					Fixed Lens: DWDR
Close Focus Distance		Fixed Lens: 1		O f+\ O 4	C (10 C0 ft)	WDR	PT Lens: DWDR
	Lens	Detect	mm: 1.7 m (5.5 Observe	Recognize	Identify	White Balance	Auto
		40 m	15.8 m	8 m	4 m	Gain Control	Auto
	2.8 mm	(131.23 ft)	(51.84 ft)	(26.25 ft)	(13.12 ft)	Noise Reduction	3D NR
	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)	Motion Detection	Yes
DORI Distance	8.4 mm	120 m	47.4 m	24 m	12 m	Image Rotation	180°
Distance	*DODI (Datas	(393.7 ft)	(155.51 ft)	(78.74 ft)	(39.37 ft)	S/N Ratio	≥55 dB
	(EN-62676-4)	t, Observe, Reco	ability of a per	son viewing th	ne video to	Audio	
	this table do	ersons or objects not reflect intelli	gent function (	distances. For	intelligent	Built-in MIC	Yes
	function distances, refer to installation and commissioning manual/project design tool.					Built-in Speaker	Yes
PTZ				Network			
Pan/Tilt Range			an: 0° to 210°; : 0° to 350°; Til			Carrier Network System	4G
Manual Control Speed		Pan: 40°/s; Ti		(-	,	Wireless Carrier Frequency Band	EAU/EUR: LTE-FDD: B1/B3/B5/B7/B8/B20/B28 LTE-TDD: B38/B40/B41
Preset Speed		Pan: 40°/s; Ti	ilt: 40°/s				LA: LTE-FDD: B2/B3/B4/B5/B7/B8/B28/B66
Preset		50	50				LTE-TDD: B38/B40/B41

8 (up to 32 presets per tour)

Tour

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 car 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, speak 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, an 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 lock sales representative for assistance with selecting the	

Ordering Information							
Туре	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

Wall Mount	Ceiling Mount	Pole Mount (Vertical)
I	1	DH-PFA2590

# Dimensions (mm[inch])







