

RPZ3E410DB-GNY-A-PV1

4MP 10x TiOC AI Network PTZ Camera



- 1/2.8" 4Megapixel CMOS
- 10x optical zoom
- Max. 25/30fps@4MP
- IR Distance up to 70m
- Warm light illumination distance up to 30m
- SMD 3.0
- Perimeter Protection
- Face Detection
- Two-way talk
- IP66
- Red & Blue warning lights

AI 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 advanced technologies, AI provides intelligent, simple and inclusive products and solutions.

System Overview

The Three-in-One Camera (TiOC) solution combines 24/7 monitoring, active deterrence and real-time alarms with artificial intelligence into one smart, innovative solution. With horizontal and vertical rotation of TiOC PTZ camera, greatly improving the monitoring scope of key targets. For distributors and installers, it not only saves time, but also reduces cost.

Functions

Wide Dynamic Range

The camera produces vivid images, even in high-contrast lighting conditions, by using industry-leading wide dynamic range (WDR) technology. For scenes that quickly alternate between bright and low lighting, WDR adjusts to fully capture both the bright and dark areas of a scene, producing superior quality videos.

Siren And Light Active Deterrence

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

Smart Dual Light

The 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.

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, and more, and uses secondary recognition during target detection to improve alarm accuracy.

SMD

Empowered by Deep-Learning Algorithms, 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.

Protection (IP66, TVS 2000 V)

IP66, TVS 2000 V lightning proof, surge protection, and voltage transient protection.

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Technical Specification

Camera

Image Sensor	1/2.8" CMOS
Pixel	4MP
Max. Resolution	2560(H) × 1440(V)
ROM	128MB
RAM	512MB
Electronic Shutter Speed	1/1s - 1/30,000s
Scanning System	Progressive
Minimum Illumination	Color: 0.005lux@F1.6 B/W: 0.0005lux@F1.6 0lux (IR light on)
Illumination Distance	70m (229.66ft) (IR) 30m (98.43ft) (Warm light)
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR
Illuminator Number	2 (IR) 2 (Warm light) 1 (Red light) 1 (Blue light)

Lens

Focal Length	4mm – 40mm			
Max Aperture	F1.6 – F3.0			
Angle of View	H: 50.7°–11.0° V: 27.6°–6.3° D: 57.6°–12.5°			
Optical Zoom	10x			
Focus Control	Auto; semi-auto; manual			
Close Focus Distance	1m – 1.5m (3.28ft – 4.92ft)			
Iris Control	Fixed			
DORI Distance	Detect	Observe	Recognize	Identify
	800m (2624.67ft)	316m (1036.75ft)	160m (524.93ft)	80m (262.47ft)

PTZ

Pan/Tilt Range	Pan: 0° - 355° Tilt: -15° - +90°
Manual Control Speed	Pan: 0.1° - 27.31° /s Tilt: 0.1° - 19.30° /s
Preset Speed	Pan: 24.32° /s Tilt: 18.75° /s
Preset	300
Power-off Memory	Yes
Idle Motion	Preset

Intelligence

IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification; linkage tracking (people)
Face Detection	Supports face detection, snapshot, and face enhancement; Supports face cutout: Face, one-inch photo; Capturing strategies include real-time capturing and quality first
Auto Tracking Lite	Yes
SMD	Yes

Active Deterrence

Light Warning	Red and blue light warning Flash duration: 5s–30s Flash frequency: high, medium, low
Sound Warning	Offers 11 types of sound alarms, and supports importing up to 10 custom sound alarms. The sound alarm can be set to play 1 to 10 times

Video

Video Compression	H.264H;H.264B;Smart H.265+; H.264;H.265; MJPEG(Sub Stream);Smart H.264+
Streaming Capability	3 Streams
Resolution	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576); VGA (640 × 480); CIF (352 × 288)
Video Frame Rate	Main stream: 4M/3M/1080p/1.3M/720p@(1–25/30 fps) Sub stream 1: D1/CIF/VGA@ (1–25/30 fps) Sub stream 2: 720p @ (1–25/30 fps)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 96Kbps – 14,484Kbps H.265: 38Kbps – 8960Kbps
Day/Night	Auto (ICR) / Color / B/W
BLC	Yes
WDR	120dB
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
Region of Interest (ROI)	Yes
Image Stabilization	Electronic (EIS)
Defog	Electronic
Digital Zoom	16x
Image Rotation	180°
S/N Ratio	≥55dB

Audio

Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2_Layer2; G.722.1
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Network

Network Port	RJ-45 (10/100 Base-T)
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; SSL; QoS; FTP; UPnP; ICMP; SNMP; IGMP; ARP; RTCP; RTP; PPPoE; RTMP; Bonjour; SMB; NFS
Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI; SDK; P2P
Streaming Method	Unicast; Multicast
User/Host	20 (total bandwidth: 64M)
Storage	FTP/SFTP; Micro SD card (512GB); NAS
Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions
Mobile Client	iOS, Android

Certification

Certifications	CE: EN55032/EN55024/EN50130-4
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Port

Audio Input	1 channel (LINE IN, bare wire, built-in mic (mutually exclusive))
Audio Output	1 channel (LINE OUT, bare wire; built-in speaker (mutually exclusive))
Alarm Linkage	Capture; Recording; send email; preset; tour; pattern; alarm digital input
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection
Alarm I/O	1/1
Audio I/O	1/1

Power

Power Supply	12VDC, 2A ($\pm 10\%$) PoE+ (802.3at)
Power Consumption	Basic: 3 W Max.: 12 W (Warning light + illuminator + PTZ + speaker + heating glass) (12 VDC) Basic: 4 W Max.: 14 W (Warning light + illuminator + PTZ + speaker + heating glass) (PoE)

Environment

Operating Conditions	-30°C to +60°C (-22°F ~ +140°F)
Operating Humidity	$\leq 95\%$
Protection	IP66, TVS 2000 V lightning proof; surge protection; voltage transient protection

Structure

Product Dimensions	142.6mm x 151.8mm x 236.2mm (5.61" x 5.98" x 9.30")
Net Weight	1.58Kg (3.48lb)
Gross Weight	2Kg (4.41lb)

Accessories

Optional:

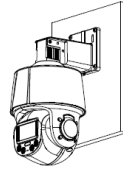


RPFA121
Junction Box

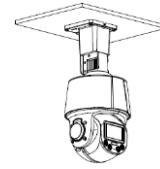


RPFA152-E
Pole Mount

Wall Mount

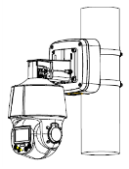


Ceiling Mount



Pole Mount (Vertical)

RPFA121 + RPFA152-E



Dimensions (mm)

