

DH-9E225GB-HCT-A-VV

2MP 25X TiOC WizSense Network PTZ Camera





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.

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. TiOC PTZ cameras adopt auto-tracking 3.0 technology, greatly improving the monitoring scope of key targets. For distributors and installers, it not only saves time, but also reduces cost.

Functions

Starlight Technology

With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

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.

- · 1/2.8" 2Megapixel STARVIS™ CMOS.
- · 25x optical zoom.
- · Starlight technology.
- · Max.50/60fps@2M.
- · IR distance up to 100 m.
- · Auto tracking 3.0.
- · Perimeter protection.
- · Face detection.
- · SMD 4.0.
- · IP66.
- · Full-color illuminator; red and blue warning light.













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.

Face Detection

Supports 6 attributes and 8 expressions: Gender, age, glasses, face mask, beard and expressions (anger, sadness, disgust, fear, surprise, calm, happiness, and confusion). It also supports face cutout settings: Face, and single inch photo. Three snapshot methods are also featured: Real-time snapshot, priority snapshot, and quality priority.

Protection (IP66, TVS 6000 V)

IP66, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

Auto Tracking

This feature controls the pan, tilt and zoom actions of the camera to automatically track an object in motion, to keep it in view of the camera. Tracking can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

SMD 4.0

Dahua Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

Camera Image Sensor 1/2.8" CMOS 2 MP Auto Tracking Face Detection Face D	Technical Specification			Supports face detection, optimization, capturing	
Priest 27.8 °C.MOS Face Detection Supported, where a stricture and 6 agrees stream of the priest of the period of the pe				pictures, uploading high-quality face snapshots and enhancing face images. Attribute Extraction is also supported, where 6 attributes and 8 expressions can be detected. Face cutout is also offered, where you can cutout one face at a time and customize the size to be a one-inch photo. The supported methods for capturing snapshots are real-time capturing, quality first, and selecting a preferred image among a group	
Pixel 2 MP		1/2.8" CMOS	Face Detection		
Max. Resolution 1930 Pt x 1980 Pt v		2 MP	Tace Detection		
ROM		1920 (H) × 1080 (V)			
Electronic Shutter Speed 1x-1/30,000	ROM	4 GB	Auto Tracking		
Electronic Shutter Speed Scanning System Progressive Progressive Acupick Acupic	RAM	1 GB	-		
Acupick endidexicant to accurately match tragets, such as a people and more title, and suspensive and dexicant to accurately match tragets, such as a people and more title, and suspensive thick, and suspensive thing of the suspensive thing of	Electronic Shutter Speed	1 s-1/30,000 s	SIVID		
Min. illumination	Scanning System	Progressive	Acupick	end devices to accurately match targets, such as	
Illumination Distance		0.0005 lux@F1.6 (B/W, 30 IRE);	Auto Patrol	It triggers the IVS rule when a target is detected and makes the camera link with the PTZ to rotate to the	
Light Warning	Illumination Distance	, , , , , ,	Active Deterrence	position of the target and patrol based on its presets.	
Bluminator Number 2 (Rit); 2 (Dual light fusion Flash frequency. Rith, medium, low	Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off			
Focal Length	Illuminator Number	2 (IR); 2 (Dual light fusion)	Light Warning		
Max. Aperture	Lens		Sound Warning		
Field of View	Focal Length	4.8 mm-120 mm	Video		
Streaming Capability 3 streams 25x	Max. Aperture	F1.6-F3.5	Video Compression		
Detect Observe	Field of View	H: 58.5°–2.8°; V: 33.2°–1.5°; D: 67.5°–3.2°	Streaming Capability		
Close Focus Distance	Optical Zoom	25x	0 1 ,	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 ×	
Iris Control Auto; manual Video Frame Rate Sub stream: 1080p/1.3M/720p@(1-25/30 fps) Sub stream: 101/VGA/CIF@(1-25/30 fps) Sub stream: 102/VGA/CIF@(1-25/30 fps) Sub stream: 102/VGA/CIF@(1-25/30 fp	Focus Control	Auto; semi-auto; manual	Resolution		
Detect	Close Focus Distance	0.1 m-1.5 m (0.33 ft-4.92 ft)	Video Franco Data		
DORI Distance 1655 m	Iris Control	Auto; manual	video Frame Rate		
PTZ Pan: 0° to 360° endless; Tilt: -15° to +90°, auto flip 180° Manual Control Speed Pan: 0.1°/s-200°/s; Tilt: 0.1°/s-120°/s Preset Speed Pan: 0.1°/s-240°/s; Tilt: 0.1°/s-200°/s Preset 300 Tour 8 (up to 32 presets per tour) Pattern 5 Scan 5 Power-off Memory Yes Idle Motion Pattern; Preset; Scan; Tour Intelligence Tripwire; intrusion; crossing fence detection; loitering lots of the state of the	DORI Distance	Detect Observe Recognize Identify	Bit Rate Control	CBR/VBR	
Pan/Tilt Range Pan: 0° to 360° endless; Tilt: -15° to +90°, auto flip 180° Manual Control Speed Pan: 0.1°/s-200°/s; Tilt: 0.1°/s-120°/s Preset Speed Pan: 0.1°/s-240°/s; Tilt: 0.1°/s-220°/s Preset Preset 300 Tour 8 (up to 32 presets per tour) Pattern 5 Scan 5 Power-off Memory Yes Power-off Memory Ves Pattern; Preset; Scan; Tour Intelligence Pan: 0.1°/s-240°/s; Tilt: 0.1°/s-240°/s White Balance White Balance Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp Auto; manual Noise Reduction 2D NR; 3D NR Region of Interest (Roll) Yes Image Stabilization Electronic (EIS) Iripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; IVS (Perimeter Protection) Pattern Protection (Pattern) abandoned/missing object; fast moving;	DOM Distance		Video Bit Rate		
Manual Control Speed Pan: 0.1*/s-200*/s; Tilt: 0.1*/s-120*/s Preset Speed Pan: 0.1*/s-200*/s; Tilt: 0.1*/s-200*/s WDR 120 dB HLC Yes 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 Scan 5 Power-off Memory Yes Region of Interest (Rol) Yes Intelligence Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; IVS (Perimeter Protection) Pitt 20 dB WDR 120 dB HLC Yes Work Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp Auto; mondoor; tracking; manual; sodium lamp; natural light; street lamp Auto; mondoor; tracking; manual; sodium lamp; natural light; street lamp Noise Reduction 2D NR; 3D NR Motion Detection Yes Region of Interest (Rol) Yes Image Stabilization Electronic (EIS) Defog Electronic Digital Zoom 16×	PTZ		Day/Night	Auto (ICR); Color; B/W	
Manual Control Speed Tilt: 0.1*/s-120*/s Preset Speed Pan: 0.1*/s-240*/s; Tilt: 0.1*/s-200*/s White Balance White Balance Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp Gain Control Auto; manual Auto; manual Auto; manual; sodium lamp; natural light; street lamp Auto; manual Auto; manual Auto; manual Auto; manual Auto; manual Pattern S Scan S Motion Detection Yes Region of Interest (RoI) Intelligence Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; IVS (Perimeter Protection) Tilt: 0.1*/s-240*/s; The control of the co	Pan/Tilt Range		BLC	Yes	
Preset Speed Pan: 0.1*/s–240*/s; Tilt: 0.1*/s–200*/s Preset 300 Tour 8 (up to 32 presets per tour) Pattern 5 Scan Power-off Memory Idle Motion Pattern; Preset; Scan; Tour Intelligence HLC Yes White Balance White Balance Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp Auto; manual Auto; manual Noise Reduction 2D NR; 3D NR Motion Detection Yes Region of Interest (RoI) Image Stabilization Electronic (EIS) Defog Electronic Digital Zoom If XS (Perimeter Protection) Intelligence Power-off Memory Intelligence Digital Zoom If X	Manual Control Speed		WDR	120 dB	
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Pattern 5 Scan 5 Power-off Memory Yes Idle Motion Pattern; Preset; Scan; Tour Intelligence Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; Noise Reduction 2D NR; 3D NR Motion Detection Yes Region of Interest (RoI) Yes Image Stabilization Electronic (EIS) Defog Electronic Digital Zoom 16×			Gain Control	Auto; manual	
Scan 5 Power-off Memory Yes Idle Motion Detection Yes Region of Interest (Rol) Yes Image Stabilization Electronic (EIS) Intelligence Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; Deform Electronic Digital Zoom 16×		, , , ,	Noise Reduction	2D NR; 3D NR	
Power-off Memory Yes Region of Interest (RoI) Yes Indle Motion Pattern; Preset; Scan; Tour Intelligence Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; Pegion of Interest (RoI) Image Stabilization Electronic (EIS) Defog Electronic Digital Zoom 16×			Motion Detection	Yes	
Idle Motion Pattern; Preset; Scan; Tour Image Stabilization Electronic (EIS) Intelligence Defog Electronic IVS (Perimeter Protection) Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; Digital Zoom 16×			Region of Interest (RoI)	Yes	
Tripwire; intrusion; crossing fence detection; loitering US (Perimeter Protection) Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving;	·	Pattern; Preset; Scan; Tour	Image Stabilization	Electronic (EIS)	
Tripwire; intrusion; crossing fence detection; loitering IVS (Perimeter Protection) Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving;	Intelligence		Defog	Electronic	
		Tripwire; intrusion; crossing fence detection; loitering	Digital Zoom	16×	
			Image Rotation	180°	

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Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view; Multiple colors available			
S/N Ratio	≥ 55 dB			
Audio				
Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723			
Network				
Network Port	RJ-45 (10/100 Base-T)			
Network Protocol	FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPOE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP			
Interoperability	CGI; SDK; ONVIF (Profile S&G&T); P2P			
Streaming Method	Unicast/Multicast			
User/Host	20 (total bandwidth: 64 M)			
Storage	Micro SD card (512 GB); FTP/SFTP; NAS			
Browser	IE 9 and later versions; Chrome 41 and later versions; Firefox 50 and later versions; Safari 10 and later versions			
Management Software	DMSS; DSS Pro			
Mobile Client	iOS; Android			
Certification				
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014			
Port				
Audio Input	1 channel (LINE IN, bare wire)			
Audio Output	1 channel (LINE OUT,bare wire;built-in speaker (mutually exclusive))			
Alarm Input	2 (on-off value input: 0–5 VDC)			
Alarm Output	1 channel			
Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital output; audio; warning light			
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, 3 A ± 10%; PoE+ (802.3at)			
Power Consumption	12 VDC: Basic: 7 W; Max: 15 W (white light + heated glass + PTZ on + alarm + red and blue light flashing) POE: Basic: 9 W; Max: 16 W (white light + heated glass + PTZ on + alarm + red and blue light flashing)			
Environment				
Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)			
Operating Humidity	≤ 95%			

Protection	TVS 6000 V lightning proof; IP66; surge protection; voltage transient protection	
Structure		
Product Dimensions	269.9 mm × Φ160.0 mm (10.63" × Φ6.30")	
Net Weight	2.6 kg (5.73 lb)	
Gross Weight	4 kg (8.82 lb)	

Ordering Information				
Туре	Model	Description		
2MP WizSense PTZ Camera	DH-9E225GB-HCT-A- VV	2MP 25x Starlight IR WizSense Network PTZ Camera		
	DH-9E225GB-HCT-A-VV	2MP 25x Starlight IR WizSense Network PTZ Camera		
Accessories	PFB305W	Wall Mount Bracket		
	DC12V/3A	Power Adapter		
	PFA126	Mount Adapter		
	PFA111	Mount Adapter		
	PFB300C	Ceiling Mount Bracket		
	PFB301C	Ceiling Mount Bracket		
	PFA151	Corner Mount Bracket		
	PFA150	Pole Mount Bracket		
	PFB303S	Parapet Mount Bracket		
	PFB301S-E	Plane Mount Bracket		

Accessories

Included:



PFB305W Wall Mount Bracket

Optional:



DC12V/3A Power Adapter



PFA126 Mount Adapter



PFA111 Junction Box



PFB300C Ceiling Mount Bracket



PFB301C Ceiling Mount Bracket



PFA151 Corner Mount Bracket



Pole Mount Bracket



PFB303S Parapet Mount Bracket



PFB301S-E Plane Mount Bracket





