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CTX-4MP-IP-PTZ-25 4MP 25X STARLIGHT IR NETWORK PTZ



Al series products adopt the most advanced Al technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users. This enables the Al series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc. Beyond seeing the world, the power of Al allows devices to perceive the environment and understand the world in a better way.

System Overview

The PTZ AI network camera adopts advanced CNN deep learning algorithms to support Perimeter Protection with high accuracy. This camera possess wide monitor range, PFA algorithm that can always present a clear, focused image while zooming. The camera has very excellent low light performance due to adopting the latest starlight technology. The camera is equipped with smooth control, high quality image and good protection, which make it can meet most of the requirements of video surveillance applications.

Functions

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing colour details in low light down to 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

- · 1/2.8" 4Megapixel CMOS
- · Powerful 25x optical zoom
- · Starlight technology
- · Max.25/30fps@4M
- · Perimeter protection
- · Support PoE+
- · IR distance up to 100m
- · SMD Plus
- · IP66













Perimeter Protection

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

Environmental

These cameras operate in extreme temperature environments, rated for use in temperatures from-40 °C to +70 °C (-40 °F to +158 °F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for 6KV lightning rating, which provides effective protection for both the camera and its structure against lightning.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.

PFA Technology

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

SMD Plus

With Deep-Learning Algorithm, SMD Plus filters the motion de-tection alarm triggered by non-concerned target and recognizes human and vehicle effectively, sending alarms when human and vehicle intrude.



Technical Specification			General Intelligence			
Camera 1/2 8" STADVISIN CMOS			Event Trigger	Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly		
Image Sensor		1/2.8" STARVIS™ CMOS			General Intelligence	Object Abandoned/Missing
Effective Pixels	4MP				Artificial Intelligence	
Max. Resolution		2560 (H) × 1440 (V)			C	Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright
ROM	4GB	4GB			Perimeter Protection	
RAM	1GB	1GB			SMD Plus	lights, etc. Support
Electronic Shutter Speed	1/1 s-1/30,0	1/1 s-1/30,000 s			Face Detection	Support
Scanning System	Progressive					Support human, motor vehicle and non-motor vehicle
Colour: 0.005Lux@F1.6 Min. Illumination			Video Metadata Video	image capture.		
IR Distance		OLux@F1.6 (IR light on)			Compression	H.265+/H.265/H.264+/H.264/MJPEG (sub stream)
		100 m (328.08 ft) Zoom Prio/Manual/SmartIR			·	
IR On/Off Control		rianuai/sinarti	K		Streaming Capability	3 streams
IR LEDs Number Lens	er 4				Resolution	4M (2560 x 1440); 3M (2048 x 1536); 1080P (1920 x 1080); 1.3M (1280 x 960); 720P (1280 x 720); D1 (704 x 576/704 x 480); CIF (352 x 288/352 x 240)
Focal Length	4.8 mm-120	4.8 mm-120 mm				Main stream: 4MP/3MP/1080P/1.3MP/720P (1–25fps) Sub stream 1: D1/CIF (1–25fps) Sub stream 2: 1080P/1.3M/720P (1–25fps)
Max. Aperture	F1.6-F4.0				Frame Rate	
Field of View	H: 60.0°-2.5	H: 60.0°-2.5°; V: 30.8°-2.2°; D: 66.7°-2.9°			Bit Rate Control	Variable Bit Rate/Constant Bit Rate
Optical Zoom	25x	25x			Bit Rate	H.265/H.264: 3 kbps–20480 kbps
Focus Control	Auto/Semi-A	Auto/Semi-Auto/Manual			Day/Night	Auto(ICR)/Colour/B/W
Close Focus Distance	0.1 m-1.5 m	0.1 m-1.5 m (0.33 ft-4.92 ft)			BLC	Support
Iris Control	Auto/Manua	Auto/Manual			WDR	120 dB
	Detect	Observe	Recognize	Identify		
DORI Distance	2540 m (8333 33 ft)	1016 m (3333 33 ft)	508 m (1666.67 ft)	254 m (833 33 ft)	HLC White Balance	Support Auto/Indoor/Outdoor/Track/Manual/Sodium lamp/ Natural light/Street lamp
DT7	,	,	,	,	Gain Control	Auto/Manual
PTZ	Don. 0° 200	? (andlass)			Noise Reduction	Ultra DNR (2D/3D)
Pan/Tilt Range	Pan: 0°-360° (endless) Tilt: -15°-90° (auto flip 180°)				Motion Detection	Support
Manual Control Speed	Pan: 0.1°–200°/s Tilt: 0.1°–120°/s				Region of Interest	Support
Preset Speed	Pan: 240°/s Tilt: 200°/s				Electronic Image Stabilization	Support
Presets	300				Electronic Defog	Support
Tour	8 (up to 32 p	8 (up to 32 presets per tour)			Digital Zoom	16x
Pattern Number	5				Flip	180°
Scanning Number	5				Privacy Masking	Up to 24 areas, and up to 8 areas in the same view
Speed Adjustment Support				Audio		
Power-off Memory	Support				Compression	G.711a; G.711Mu; AAC; G.722.1; G.726; MPEG2-Layer2 G.729
Idle Motion	Preset/Tour/Pattern/Scanning				Network	
	DH-SD					DL 45 /10/100Dasa TV
Protocol	Pelco-P/D (auto recognition)				Ethernet	RJ-45 (10/100Base-T)

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Protocol	IPv4; IPv6; HTTP; HTTPS; SSL; TCP/IP; UDP; UPnP; ICMP; IGMP; SNMPv1/v2c/v3(MIB-2); ARP; RTCP; RTSP; RTP; SMTP; NTP; DHCP; DNS; PPPOE; DDNS; FTP; IP Filter; QoS; Bonjour; 802.1x
Interoperability	ONVIF Profile S&G CGI
Streaming Method	Unicast/Multicast
User/Host	19
Edge Storage	NAS; Local PC; Micro SD card (256G)
Browser	IE7 and newer versions Chrome 45 and earlier versions Firefox 52 and earlier versions Safari (no version restrictions)
Management Software	Smart PSS; DSS; DMSS
Smart Phone	IOS/Android
Certification	
	CE. ENEE 033 /ENEE 034 /ENE 0130 4

	CE: EN55032/EN55024/EN50130-4
Certifications	FCC: Part15 subpartB, ANSI C63.4-2014
	UL: UL60950-1+CAN/CSA C22.2, No. 60950-1

Port

Audio In	1
Audio Out	1
Alarm Port	2/1

Power

Power Supply	DC 12V/3A PoE+ (802.3at)
Power Consumption	13W 21W (IR on)

Environment

Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Operating Humidity	≤95%
Ingress Protection	IP66; TVS 6000V lightning proof; Surge protection

Structure

Casing	Aluminium alloy ADC12
Dimensions	Ф160 mm × 295 mm (6.30" × 11.61")
Net Weight	3 kg (6.61 lb)
Gross Weight	4.8kg (10.58lb)

Dimensions (mm [inch])

