

4MP Enhanced Starlight Network PTZ Camera (32x)

WizSense Analytics and Low-light Technology



WizSense Series devices combine Dahua's powerful Analytics+ with an intuitive and easy to use interface. WizSense devices offer Smart Motion Detection and Perimeter Protection functions that focus on human and vehicular images and ignore irrelevant images to capture important video while reducing false alarms. WizSense Series devices provide powerful general security for small to medium size businesses at a sensible price.

System Overview

With its powerful optical zoom and accurate pan and tilt capabilities, this PTZ camera provides an all-in-one solution for small and medium-sized scenes. It has Enhanced Starlight technology to capture highly detailed images in lighting conditions as low as 0.005 lux. The camera offers smooth control and high-grade protection that enable it to meet the security requirements of a variety of security applications.

Functions

Enhanced Starlight Technology

For challenging low-light applications, Dahua's Enhanced Starlight technology offers best-in-class light sensitivity to capture full-color images in lighting as low as 0.005 lux. The camera uses a set of optical features to balance light throughout the scene to produce clear images in dark environments.

True Wide Dynamic Range (120 dB)

For applications with lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene simultaneously to provide usable video.

Perimeter Protection

Dahua Analytics+ includes Tripwire and Intrusion functions that offer custom tripwires based on object type for automation in limited access areas. Perimeter Protection requires less pixels to detect an object to deliver improved accuracy and decreased false alarms due to lights, weather, trees, or animals.

Auto-tracking

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action 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.

- 1/2.8-in. 4MP CMOS Sensor
- 4MP (2560 x 1440) at 30 fps Maximum Resolution
- Al Coding, Smart H.265+ and Smart H.264+ Dual Codec
- Powerful 32x Optical Zoom
- Enhanced Starlight Technology for Low-light Applications
- True Wide Dynamic Range (120 dB)
- Analytics+ Function: Perimeter Protection, Upgraded SMD+, Auto-tracking, Face Detection, PFA Technology
- IK10 Vandal Resistance, TVS 6000 V Surge Protection
- Five-year Warranty*

Upgraded Smart Motion Detection+

Upgraded Smart Motion Detection+, a component of Dahua's Analytics+ technology, improves alarm accuracy and decreases the number of false alarms. The advanced upgraded SMD+ algorithm analyzes a scene for human or vehicle motion, while filtering out other motion due to trees, leaves, animals, weather, and triggers an alarm when detected. Upgraded SMD+ also saves time when searching recorded video by filtering false alarms and allowing quick retrieval of an alarm due to a person or vehicle.

Predictive Focus Analysis (PFA) Technology

The camera uses innovative PFA Technology to improve zoom accuracy and to decrease focus time. A series of advanced algorithms more accurately judge the direction and the distance to a subject, improving picture clarity throughout the zooming process.

Environmental

The camera complies with the IK10 Vandal Resistance impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.).

Supporting a $\pm 25\%$ input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 6KV lightning rating provides protection against the camera and its structure from the effects of lightning.



Technical Sp	ecification			Digital Zoom		16x
Camera				Image Rotation		180°
Image Sensor		1/2.8-in. CMOS		Privacy Masking		Up to 24 areas (8 areas allowed per view)
Effective Pixels	ive Pixels 2560 (H) × 1440 (V)		S/N Ratio		≥ 55 dB	
RAM/ROM		1 GB/4 GB		Audio	Audio	
Scanning System		Progressive		Compression		PCM, G.711a, G.711Mu, G.726, MPEG2-Layer2,
Electronic Shutter Speed		1/1 s to 1/30,000 s		Compression		G722.1, G729, G723, AAC
Minimum Color Illumination B/W		0.005 lux at F1.6		Network		
		0.0005 lux at F1.6		Ethernet		One (1) RJ-45 Port (10/100 Base-T)
_ens					FTP, RTMP, IPv6, Bonjour, IPv4, DNS, RTCP, PPPoE, NTP, RTP, 802.1x, HTTPS, SNMP, TCP/IP, DDNS, UPnP	
Focal Length		4.8 mm to 154 mm		Protocol		NFS, ICMP, UDP, IGMP, HTTP, SSL, DHCP, SMTP, Qos RTSP, ARP
Maximum Aperture		F1.6 to F4.0				
Horizontal		55.8° to 2.3°		Interoperability		CGI, SDK, ONVIF (Profile S, G, T), P2P
Angle of View	Vertical	31.9° to 1.3°	Streaming Method		Unicast/Multicast	
	Diagonal	63.7° to 2.7°	Maximum User Access		20 Users (Total Bandwidth 64 Mbps)	
Optical Zoom		32x		Edge Storage		Micro SD Slot (Max. 512 GB), FTP/SFTP, NAS
Focus Control		Automatic, Semi-automatic, Manual		Browser		Safari (iOS 10 or Later), Microsoft Edge, Google Chrome 41 or Later, Firefox 50 or Later
ris Control		Auto, Manual		Management Software		DSS Professional, DMSS
lose Focus Dis	tance	0.1 m to 1.5 m		Mobile Client		iOS, Android
ODII Di-+		Detect Observe	Recognize Identify	Certification	ıs	
ORI¹ Distance		, ,	3,080 m 1,216.6 m 616 m 308 m 10,104.99 ft) (3,991.47 ft) (2,021.00 ft) (1,010.50 ft)			EN55032, EN55024, EN50130-4
Pan/Tilt/Zoom		(=-,:, (=,:, (=,:, (=,:,		CE FCC		Part 15 Subpart B, ANSI C63.4-2014
an/Tilt	Pan	0° to 360° endless		UL		UL62368-1 + CAN/CSA C22.2, No. 62368-1
ange	Tilt	0° to 90°, Automatic Flip 180°		Interface		
Manual Control	Pan	0.1°/s to 350°/s		interrace	Input	One (1) Channel (LINE IN, bare wire)
peed	Tilt	0.1°/s to 250°/s		Audio	Output	One (1) Channel (LINE OUT, bare wire)
reset Speed	Pan	500°/s		Input	Two (2) Channels	
Tilt		500°/s		Alarm	Output	One (1) Channel
Presets		300		Alarm Linkage		Capture, Recoding, Send Email, Preset, Tour, Pattern Alarm Digital Output, Audio
PTZ Mode		5 Patterns, 8 Tours (Up to 32 Presets per Tour), 5 Scans				Motion/Tampering Detection, Audio Detection,
Power Up Action		Auto restore to previous PTZ and lens status after power failure		Alarm Output		Network Disconnection Detection, Ip Conflict Detection, Memory Card State Detection, Memory Space Detection
Idle Motion		Activate Preset/Scan/Tour/Pattern if there is no command in the specified period		Electrical		space Detection
PTZ Protocol		DH-SD				24 VDC/2.5 A ± 25% (Included)
Video				Power Supply		PoE+ (802.3at)
Video Compression		Al Coding, H.264H, H.264B, Smart H.265+, H.264,		Power	Basic	13 W
video Compression		H.265, MJPEG (Sub Stream	1), Smart H.264+	Consumption	Maximum	16 W (PTZ)
Streaming Capability		Three (3) Streams		Environmental		
Resolution		1080p (1920 × 1080), 720p		Operating Temperature		-30 °C to 60 °C (-22 °F to 140 °F)
		576/704 × 480), CIF (352 × 288/352 × 240)		Operating Humidity		≤ 95% RH
Frame Rate	Main Stream Sub Stream 1	4MP/3MP/1080p/1.3MP/720p at 1 to 30 fps		Vandal Resistance		IK10
	Sub Stream 2	·		Surge Protection		TVS 6000 V
Bit Rate Control		CBR/VBR		Construction		
	H.264 96 to 14,848 Kbps		Product Dimensions		176.6 mm × 198.0 mm (6.95 in. × 7.80 in.)	
Bit Rate H.265		38 to 8,960 Kbps		Net Weight		2.2 kg (4.85 lb)
Day/Night		Auto (ICR), Color, B/W		Gross Weight		3.7 kg (8.16 lb)
Backlight Compensation		BLC, True WDR (120 dB), HLC			Analytics+ Functions	
White Balance		Auto, Indoor, Outdoor, Tra Lamp, Natural Light, Street		,		Datasts human ar vakiala vialations viina the fill
Gain Control		Auto, Manual				Detects human or vehicle violations using the following methods:
Noise Reduction		2D, 3D		Perimeter Protection		Tripwire : a target crosses a defined line.
		Region of Interest (RoI), Electronic Image Stabilization				Intrusion: a target enters or exits a defined
Advanced Features		(EIS), Electronic Defog, Mo				perimeter.

Pro Series | 52C432GBNR

Face Detection	Detects and captures a snapshot of a human face in a defined area within a scene.	Orc Type Netv			
Upgraded Smart Motion Detection+	Differentiates between and classifies human and vehicle objects. Filters false alarms due to leaves, lights, animals, and other inconsequential objects. Extracts human or vehicle objects from recorded video for quick target search and retrieval.	Acce (Incl			
Intelligent Video System	(IVS) Functions	(0)			
IVS triggers an alarm and takes a defined action for the following events:					
Standard Features	Tampering with the camera. Error writing to an onboard Micro SD card. Error sending or receiving data over the network. Unauthorized access to the camera	Inclu			
Premium Features					
Tripwire	A target crosses a user-defined line.				
Intrusion	A target enters or exits a defined perimeter.				
Abandoned/Missing Object	A target leaves an object in designated area, or a target removes an object from the same designated area.	Opti			
Advanced Features					
Fast Moving	Target exceeds a set speed when exiting a defined area				
Parking Detection	Vehicle remains in a defined area without motion for a set period of time.	e Detection Mic			
People Gathering	Specified number of people remain inside a defined area for a set time.	IVIIC			
Vehicle/Human Alarm Classification	Detects human or vehicle violations using Tripwire or Intrusion detection methods.	For a			
Linkage Tracking	Controls the pan/tilt/zoom actions of the camera to automatically track humans/vehicles in motion and to keep the target in the scene.				
Auto-tracking	Controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene.				
Loitering Detection	Target is in motion inside a defined area longer than a specified amount of time.				
Loitering Detection	-				

Ordering Information							
Туре	Part Number	Description					
Network Camera	52C432GBNR	4MP 32x Starlight WizSense Network PTZ Camera					
Accessories (Included)	DC 24 V/2.5 A	Power Adapter					
	DHI-TF-P100 Series	MicroSDXC Memory Cards					
Accessories (Optional)	DH-PFM900-E	Integrated Mount Tester					
, , ,	PC-H84.5-147	Polycarbonate Smoke Tinted Bubble					

Accessories

Included:



DC24V/2.5A Power Adapter

Optional:







DHI-TF-P100 Series MicroSDXC Memory Cards

DH-PFM900-E Integrated Mount Tester

Polycarbonate Smoke Tinted Bubble



Dimensions

mm [in.]





