

4MP Enhanced Starlight Network PTZ Camera (32x)

WizSense Analytics and Auto-tracking







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

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera provides an all-in-one solution for capturing long distance video security for outdoor applications. Enhanced Starlight Technology makes the camera the perfect solution for dark, low-light applications. The camera combines a day/night mechanical IR cut filter and True WDR for the highest image quality in variable lighting conditions, direct sunlight, and glare.

Functions

Enhanced Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low light Technology offers best-in-class light sensitivity, capturing details in low light applications 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.

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 fewer pixels to detect an object to deliver improved accuracy and decreased false alarms due to lights, weather, trees, or animals.

Face Detection

Face Detection technology captures a human face in a digital image and then selects the best image and outputs a snapshot of the face.

Upraded 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 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.

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-in. 4MP STARVIS™ CMOS Sensor
- Powerful 32x Optical Zoom Lens
- Al Coding, Smart H.265+ and Smart H.264+ Dual Codec
- · Enhanced Starlight Technology for Low-light Applications
- 4MP (2560 × 1440) at 30 fps
- True Wide Dynamic Range (120 dB) and True Day/Night IR Cut Filter
- Analytics+ Functions: Perimeter Protection, Face Detection, Upgraded Smart Motion Detection+, PFA Technology
- ArcticPro Series Camera Operational down to -40° C (-40° F)
- IP67 Ingress Protection, IK10 Vandal Resistance, TVS 6000 V Surge Protection











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.

Predictive Focus Algorithm (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.

Smart H.265+ and Smart H.264+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multiframe reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video

Delivering high quality video without straining the network, Smart H.264+ is the optimized implementation of H.264. The Smart H.264+ encoding platform includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing a savings of up to 70% of bandwidth and storage when compared with standard H.264.

ArcticPro (No Heater)

The Dahua ArcticPro Series of extreme-environment cameras combine temperature-tolerant components with a waterproof enclosure to ensure flawless operation in temperatures as low as -40° C (-40° F) without the need for an internal heater. The lack of a heater reduces the camera's power consumption and saves operating costs. For applications that demand high-resolution video with advanced features in extremely cold environments, the Dahua ArcticPro Series offers a camera to satisfy the most demanding requirements.

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.). Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.

Supporting dual voltage input (12 VDC or 24 VAC) and a ±25% input voltage tolerance, this camera suits even the most unstable power supply conditions. Its TVS 6000 V lightning rating protects the camera and its structure from the effects of lightning.



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Predictive Focus Algorithm (PFA) Technology

Auto-tracking

- Uses statistical analysis to stabilize the scene to preserve clarity when zooming
- Performs real-time analysis and adjustment of subject distance for a rapid and stable transition from different subject distances .

automatically track an object in motion and to keep it

Intelligent Video System (IVS) Functions

intelligent video System (IVS) Functions						
IVS triggers an alarm and takes	/S 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.					
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.					
Advanced Features						
Loitering Detection	Target is in motion inside a defined area longer than a specified amount of time.					
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.					
Crowd Gathering	Specified number of people remain inside a defined area for a set time.					
Human/Vehicle Classification	Detects human or vehicle violations using Tripwire or Intrusion detection methods.					
	Controls the pan/tilt/zoom actions of the camera to					

in the scene.

Ordering Information						
Туре	Part Number	Description				
Network Camera	50432GBNR	4MP 32x Starlight IR Network PTZ Camera				
	PFB300S	Wall Mount Bracket				
Accessories (Included)	PFA110	Mount Adapter				
, ,	N/A	DC 24 V/2.5 A Power Adapter				
	PFA140	Power Box				
	PFB300C	Ceiling Mount Bracket				
	PFA120	Junction Box				
	PFA150	Pole Mount Bracket				
	PFA151	Corner Mount Bracket				
Accessories (Optional)	PFB303S	Parapet Mount Bracket				
, , ,	DH-PFB301S-E	Plane Mount Bracket				
	DH-PFB301C	Ceiling Mount Bracket				
	DHI-TF-P100 Series	Micro SDXC Cards				
	DH-PFM900-E	Integrated Mount Tester				
	PC-H84.5-147	Polycarbonate Smoke Tinted Bubble				

Accessories

Included:

Optional:







PFA110 Mount Adapter



DC 24 V/2.5 A Power Adapter



PFA140 Power Box

PFA150

Pole Mount Bracket

DH-PFB301S-E

Plane Mount Bracket

DH-PFM900-E

Integrated Mount Tester



PFB300C Ceiling Mount Bracket



PFA120 Junction Box



PFA151

Corner Mount Bracket



PFB303S Parapet Mount Bracket





DH-PFB301C





DHI-TF-P100 Series

Micro SDXC Cards

Ceiling Mount Bracket



PC-H84.5-147 Polycarbonate Smoke Tinted Bubble



For all possible accessory combinations for this camera, please scan or click the QR code below to go to our accessory selector.



Pro Series | 50432GBNR

Installation		
Wall Mount	Ceiling Mount	Ceiling Mount
PFA110+PFB300S+PFA120	PFA110+PFB300C	PFA110+PFB301C
Pole Mount(Vertical)	Pole Mount(Horizontal)	Corner Mount
PFA110+PFB300S+PFA150	PFA110+PFB300C+PFA150	PFA110+PFB300S+PFA151
Plane Mount	Parapet Mount	
PFB301S-E	PFA110+PFB303S	

