



DH-PTZ85260-HNF-PA-FL

2MP 60x Starlight Laser AI Network Positioning System



Wiz Mind

System Overview

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 Dahua Al series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, and traffic data statistics. The complete lineup of Dahua Al includes network (PTZ) cameras, network video recorders, servers, and more devices. Beyond seeing the world, the power of Al allows devices to perceive the environment and understand the world in a better way.

Functions

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.

Starlight Technology

For challenging low-light conditions, Dahua's Starlight Ultra-low Light Technology offers the best in light sensitivity, capturing color in vivid detail, even in lighting as low as 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, producing clear images in dark environments.

PFA Technology

PFA technology has introduced new methods of judgment that ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms that ensure image clarity when zooming and that shorten focus time. This makes the camera highly advanced in its functions, substantially improving the quality of your experience.

- 1/1.8" 2Megapixel STARVIS™ CMOS
- 60× optical zoom
- Starlight technology
- Max. 25/30 fps@2M
- Laser distance up to 1000 m
- H.265 encoding
- Two-way audio
- IP67
- Auto-tracking
- Perimeter protection
- face recognition
- Optical fiber



Environment (-40 °C to +70 °C, IP67)

Developed to operate in extreme conditions, Dahua camera can function in temperatures ranging from -40 °C to +70 °C (-40 °F to +158 °F) at 95% humidity. It was subjected to rigorous dust and water immersion tests, gaining its IP67 Ingress Protection certification, making it suitable for demanding outdoor applications.

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.

Smart H.265+

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

Scenes

The Dahua PTZ AI network camera adopts advanced CNN deep learning algorithms to support Perimeter Protection. This highly accurate camera possesses a wide monitoring range and the PFA algorithm, allowing it to always present a clear, focused image while zooming. Leveraging the latest in starlight technology, the camera has strong low light performance, smooth controls, high-grade protection, and produces high quality images, meeting most of the requirements of video surveillance applications.

Technical Specification

Camera

Calliela				
Image Sensor	1/1.8" CMOS			
Pixel	2 MP			
Max. Resolution	1920 (H) × 1080 (V)			
ROM	8 GB			
RAM	2 GB			
Electronic Shutter Speed	1/1 s-1/30,000 s			
Scanning System	Progressive			
Min. Illumination	Color: 0.005 lux@F1.4 B/W: 0.0005 lux@F1.4 0 lux (laser on)			
Illumination Distance	1,000 m (3,280.84 ft)			
Illuminator On/Off Control	Zoom Prio; Manual; Off			
Illuminator Number	1 (laser)			
Wiper	Yes			
Lens				
Focal Length	5.6 mm-336 mm			
Max. Aperture	F1.4-F4.5			
Field of View	H: 56.4°–1.2°; V: 32.7°–0.7°; D: 63.6°–1.7°			
Optical Zoom	60×			
Focus Control	Auto; semi-auto; manual			
Close Focus Distance	0.5 m–2 m (1.64 ft–6.56 ft)			
Iris Control	NA			
DORI Distance	Detect	Observe	Recognize	Identify
	6,720 m (22,047.24 ft)	2,666.7 m (8,749.02 ft)	1,344 m (4,409.45 ft)	672 m (2,204.72 ft)

1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Main stream: 1080p/960p/720p (1–25/30 fps) Sub stream 1: D1/VGA/CIF (1–25/30 fps) Sub stream 2: 1080p/960p/720p (1–25/30 fps)	
CBR; VBR	
H.264:1792–9216 kbps H.265: 512–5632 kbps	
Auto (ICR); Color; B/W	
Yes	
Yes	
Yes	
Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp	
Auto; manual	
2D NR; 3D NR	
Yes	
Yes	
Optical	
16×	
180°	
Up to 24 areas can be set, with up to 8 areas in the same view	
≥55 dB	
G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; PCM	

PTZ

Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –45° to +90°
Manual Control Speed	Pan: 0.1°/s-160°/s Tilt: 0.1°/s-60°/s
Preset Speed	Pan: 160°/s; Tilt: 60°/s
Preset	300
Tour	8 (up to 32 presets per tour)

Pattern

Power-off Memory

Idle Motion

PTZ Protocol

Intelligence

Video Metadata

Face Recognition

Video

Compression

Video Compression

IVS (Perimeter Protection)

Scan

5

5

Yes

DH-SD

extraction.

classification.

Yes

H.264

3 streams

Preset; Pattern; Tour; Scan

Pelco-P/D (auto recogniton)

Support human body, human face, motor vehicle

and non-motor vehicle image capture and attributes

Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking

detection; people gathering; vehicle/human alarm

H.265; H.264M; H.264H; MJPEG; Smart H.265; Smart

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Network

Network		
Network Port	RJ-45 (10/100 Base-T)	
Network Protocol	HTTP; HTTPS; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; QoS; FTP; UPnP; ICMP; SNMP; IGMP; RTP; PPPoE; RTMP; TCP	
Interoperability	ONVIF (Profle S&G&T); GB/T28181; CGI	
Streaming Method	Unicast; Multicast	
User/Host	20 (total bandwidth: 64 M)	
Storage	FTP; Micro SD card (512 GB); NAS	
Browser	IE 7 and later versions Chrome 45 and later versions Firefox 52ESR and earlier versions Safari	
Management Software	Smart PSS; DSS; IVSS	
Mobile Client	iOS; Android	
Port		
Analog Output	1 channel (CVBS output, BNC)	
RS-485	1 (baud rate: 1200 bps-115200 bps)	
Audio Input	1 channel (LINE IN, bare wire)	
Audio Output	1 channel (LINE OUT, bare wire)	
Two-way Audio	Yes	
Alarm Input	7 (on-off value input: 0–5 VDC)	
Alarm Output	2	
Alarm Linkage	Capture; preset; tour; pattern; recordings on SD card; alarm digital input; client E-map; send email	
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; decoder state detection; memory card state detection; memory space detection; power exception detection	
Optical Fiber	100 M single fiber FC Specifications: 1310 nm TX/1550 nm RX Transmission distance: 20 km (12.43 mi)	
Power		
Power Supply	36 VDC, 5 A (± 25%)	
Power Consumption	Basic: 25 W Max.: 69 W (illuminator + wiper + PTZ)	
Environment		
Operating Temperature	-40 °C to +70 °C (-40 °F to 158 °F)	
Operating Humidity	<95%	
Protection	IP67; TVS 6000 V lightning proof; surge protection; voltage transient protection	
Structure		
Casing	ADC12	
Product Dimensions	344.6 mm × 252.2 mm × 499.8 mm (13.57" × 9.93" × 19.68") (L × W × H)	
Net Weight	15.4 kg (33.95 lb)	
Gross Weight	23.7 kg (52.25 lb)	

Ordering Information Туре Part Number Description 2MP 60x Starlight Laser AI Network DH-PTZ85260-HNF-PA-FL Positioning System 2M Camera 2MP 60x Starlight Laser AI Network PTZ85260-HNF-PA-FL Positioning System DC36V/5A Power Adapter Accessories DH-PFB741W Wall Mount Bracket

Accessories

Included:



DC36V/5A Power Adapter

Optional:

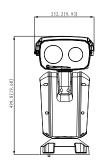


DH-PFB741W Wall Mount Bracket

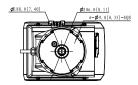
Plane Mount	Plane Mount	Wall Mount	
		DH-PFB741W	
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Dimensions (mm[inch])







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