

DH-PTZ85260-HNF-WA

2MP 60x Starlight IR AI Network Positioning System



AI series products adopt the most advanced AI technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users. This enables the Dahua AI series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc. The complete lineup of Dahua AI includes network (PTZ) cameras, network video recorders, servers, and more devices. Beyond seeing the world, the power of AI allows devices to perceive the environment and understand the world in a better way.

System Overview

Dahua PTZ AI network camera adopts advanced CNN deep learning algorithms to support Perimeter Protection with high accuracy. This camera possess wide monitoring range and 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 meet most of the requirements of video surveillance applications.

Functions

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.

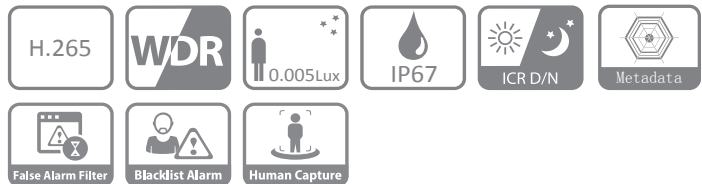
Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.001 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

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.

- 1/1.8" 2Megapixel CMOS
- Powerful 60x optical zoom
- Starlight technology
- Max. 25/30fps@1080P
- IR distance up to 400 m
- Deep-learning-based perimeter protection
- Auto-tracking and IVS
- IP67



Environmental

Dahua 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 IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for ±25% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating 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.

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.

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.

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, flexible multi-frame 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 compression.

Technical Specification				
Camera				
Image Sensor	1/1.8" CMOS			
Max. Resolution	1920 (H) × 1080 (V)			
Effective Pixels	2MP			
ROM	8GB			
RAM	4GB			
Electronic Shutter Speed	1/1–1/100000s			
Scanning System	Progressive			
Min. Illumination	Color: 0.001Lux@F1.4 B/W: 0.0001Lux@F1.4 0Lux (IR light on)			
IR Distance	400 m (1312.34 ft)			
IR On/Off Control	Zoom Prio/Manual/SmartIR			
IR LEDs Number	8			
Wiper	Support			
Lens				
Focal Length	5.6 mm–336 mm			
Max. Aperture	F1.4–F4.5			
Field of View	H: 1.4°–64.9°; V: 1.0°–38.0°; D: 1.7°–72.2°			
Optical Zoom	60x			
Focus Control	Auto/Semi-Auto/Manual			
Close Focus Distance	0.5 m–2 m (1.64 ft–6.56 ft)			
Iris Control	Auto			
DORI Distance	Detect	Observe	Recognize	Identify
	6720m (22047.24ft)	2666.7m (8749.02ft)	1344m (4409.45ft)	672m (2204.72ft)
PTZ				
Pan/Tilt Range	Pan: 0°–360°; Tilt: -90°–45°			
Manual Control Speed	Pan: 0.1°–160°/s; Tilt: 0.1°–60°/s			
Preset Speed	Pan: 160°/s; Tilt: 60°/s			
Presets	300			
Tour	8 (up to 32 presets per tour)			
Pattern Number	5			
Scanning Number	5			
Speed Adjustment	Support			
Power-off Memory	Support			
Idle Motion	Preset/Tour/Pattern/Scanning			
Protocol	DH-SD Pelco-P/D (auto recognition)			
Artificial Intelligence				
Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes extracton			

Perimeter Protection	Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.
Auto Tracking	Support
General Intelligence	
Event Trigger	Motion detection, video tampering, scene changing, network disconnection, IP address conflict, illegal access, and storage anomaly
General IVS	Object abandoned/missing
Video	
Compression	H.265/H.264H/H.264B/H.264/MJPEG (sub stream)
Streaming Capability	3 streams
Resolution	1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576); CIF (352 × 288)
Frame Rate	Main stream: 1080P/1.3M/720P (1–25/30 fps) Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 1080P/1.3M/720P (1–25/30 fps), D1/CIF (1–25/30 fps)
Bit Rate Control	Variable Bit Rate/Constant Bit Rate
Bit Rate	H.264: 1792 kbps–9216 kbps H.265: 512 kbps–5632 kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Support
WDR	120dB
HLC	Support
White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/ Natural light/Street lamp
Gain Control	Auto/Manual
Noise Reduction	2D/3D
Motion Detection	Support
Region of Interest (RoI)	Support
Electronic Image Stabilization (EIS)	Support
Defog	Optical
Digital Zoom	16x
Flip	0°/180°
Privacy Masking	Up to 24 areas
Certification	
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014
Audio	
Compression	G.711A; G.711Mu; G.726; AAC; G.722.1; G.729; PCM; MPEG2-Layer2
Port	
Audio In	1
Audio Out	1

Alarm	7/2
Analog Output	1 BNC
RS-485	1

Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP; UPnP; SNMPv1/v2c/v3 (MIB-2); DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE
Interoperability	ONVIF; CGI
Streaming Method	Unicast/Multicast
User/Host	20 (Total bandwidth 64M)
Edge Storage	FTP; Micro SD card (256G)
Browser	IE7 and newer versions Chrome 42 and older versions Firefox 52 and older versions Safari
Management Software	Smart Player; Smart PSS; DSS; Easy4ip
Mobile Phone	IOS/Android/Windows Phone

Power

Power Supply	DC36V/2.23A \pm 25%
Power Consumption	28.7W 61.6W (IR LEDs on and PTZ moving)

Environment

Operating Temperature	-40°C to -70°C (-40°F to +158°F)
Operating Humidity	\leq 95% RH
Ingress Protection	IP67; TVS 6000V lightning protection; surge protection

Structure

Casing	Metal + plastic
Dimensions	210.7 mm \times 399.3 mm \times 517.0 mm (8.30" \times 15.72" \times 20.35")
Net Weight	14.9 kg (32.85 lb)
Gross Weight	21.4 kg (47.18 lb)

Ordering Information

Type	Model	Description
1080P Positioning System	DH-PTZ85260-HNF-WA	2MP 60x Starlight IR AI Network Positioning System
	DH-PTZ85260N-HNF-WA	2MP 60x Starlight IR AI Network Positioning System
	PTZ85260-HNF-WA	2MP 60x Starlight IR AI Network Positioning System
	PTZ85260N-HNF-WA	2MP 60x Starlight IR AI Network Positioning System

Accessories	DH-PFB741W	Bracket + Junction Box
	DC36V/2.23A	Power Adapter

Accessories

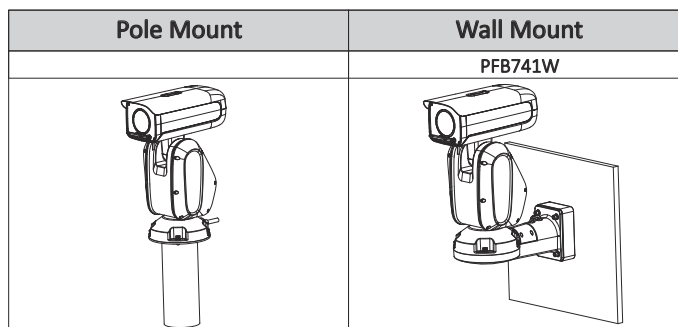
Included:



DH-PFB741W
Bracket +Junction box



DC36V/2.23A
Power Adapter



Dimensions (mm[inch])

