



DH-SD8C848PA-HNF

8M 48x Starlight IR WizMind Network PTZ Camera





- 1/1.8" 8Megapixel STARVIS™ CMOS
- 48x optical zoom
- Starlight technology
- Max. 25/30 fps@8M
- IR distance up to 250 m
- · H.265 encoding
- · Two-way audio
- IR and white light, three night view modes
- IP67
- Auto-tracking
- · Perimeter protecton
- · Face recogniton

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.











Environment (-40 °C to +70 °C, IP67)

Developed to operate in extreme conditions, Dahua camera can function in temperatures ranging from $-40\,^{\circ}\text{C}$ to $+70\,^{\circ}\text{C}$ ($-40\,^{\circ}\text{F}$ to $+158\,^{\circ}\text{F}$) 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%.

Scene

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	on			IVS (Perimeter Protection)	Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms
Camera				Face Recognition	caused by animals, rustling leaves, bright lights, etc. Yes
Image Sensor	1/1.8" CMOS				ies
Pixel	8 MP			Video	U 265, U 264M, U 264U, MIDEC, Smart U 265, Smart
Max. Resolution	3840 (H) × 2160 (V)			Video Compression	H.265; H.264M; H.264H; MJPEG; Smart H.265; Smart H.264
ROM	8 GB			Streaming Capability	3 streams
RAM	2 GB				8M (3840 × 2160); 4M (2560 × 1440); 1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704
Electronic Shutter Speed	1/1 s-1/30,000 s			Resolution	× 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Scanning System	Progressive			Video Frame Rate	Main stream: 8M/4M/1080p/960p/720p (1–25/30 fps) Sub stream 1: D1/VGA/CIF (1-25/30 fps)
Min. Illumination	Color: 0.005 lux@F1.4 B/W: 0.0005 lux@F1.4			video Frame Rate	Sub stream 2: 1080p/960p/720p (1-25/30 fps)
	0 lux (dual light fusion on) 80 m (262.46 ft) (dual light f	usion only whi	te light on)	Bit Rate Control	CBR; VBR
Illumination Distance	250 m (1,476.38 ft) (dual light)			Video Bit Rate	H.264: 3328 kbps–16384 kbps H.265:1280 kbps–9984 kbps
Illuminator On/Off Control	Zoom Prio; Manual; Smart If	R; Off		Day/Night	Auto (ICR); Color; B/W
Illuminator Number	10 (dual light fusion)			BLC	Yes
Wiper	Yes			WDR	120 dB
Lens				HLC	Yes
Focal Length	6.25 mm-300 mm			White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Max. Aperture	F1.4–F4.5			Gain Control	Auto; manual
Field of View	H: 64.87°-1.77°; V: 38.07°-1	01°; D: 72.18°	–2.04°	Noise Reduction	2D NR; 3D NR
Optical Zoom	48×		Motion Detection	Yes	
Focus Control	ocus Control Auto; semi-auto; manual			Region of Interest (RoI)	Yes
Close Focus Distance	0.5 m-2 m (1.64-6.56 ft)			Defog	Optical
	Detect Observe	Recognize	Identify	Digital Zoom	16×
DORI Distance	6,000 m 2,381 m (19,685.04 ft) (7,811.68 ft	1,200 m) (3,937.01 ft	600 m (1,968.50 ft)	Image Rotation	180°
PTZ					Up to 24 areas can be set, with up to 8 areas in the same
	Pan: 0° to 360° endless			Privacy Masking	view
Pan/Tilt Range	Tilt: -20° to +90°			S/N Ratio	≥55 dB
Manual Control Speed	Pan: 0.1°/s-240°/s Tilt: 0.1°/s-100°/s			Audio	
Preset Speed	Pan: 0.1°/s–200°/s; Tilt: 0.1°	/s-60°/s		Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; PCM
Preset	300			Network	
Tour	8 (up to 32 presets per tour)			Network Port	RJ-45 (10/100 Base-T)
Pattern	5			Network Protocol	HTTP; HTTPS; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; QoS; FTP; UPnP; ICMP; SNMP; IGMP;
Scan	5			Interoperability	RTP; PPPOE; RTMP; TCP ONVIF (Profle S&G&T); GB/T28181; CGI
Power-off Memory	Yes				Unicast; Multicast
Idle Motion	Preset; Pattern; Tour; Scan			Streaming Method	
PTZ Protocol	DH-SD Pelco-P/D (auto recognition)			User/Host	20 (total bandwidth: 64 M)
Intelligence	', - (-300 / 6008/(1011)			Storage	FTP; Micro SD card (512 GB); NAS
Video Metadata	Support human body, huma and non-motor vehicle imag extraction.			Browser	IE 7 and later versions Chrome 45 and later versions Firefox 52ESR and earlier versions Safari

Wiz Mind | DH-SD8C848PA-HNF

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
Power	
Power Supply	36 VDC, 2.23 A (± 25%)
Power Consumption	Basic: 18 W Max.: 33 W (illuminator + PTZ)
Environment	
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Operating Humidity	≤95%
Protection	IP67; TVS 8000 V lightning proof; surge protection; voltage transient protection
Structure	
Product Dimensions	442 mm × Φ262 mm (17.40" × Φ10.31")
Net Weight	10.3 kg (22.71 lb)

Ordering Information						
Туре	Model	Description				
8M Camera	DH-SD8C848PA- HNF	8M 48x Starlight IR WizMind Network PTZ Camera				
oivi Carriera	DH-SD8C848PA- HNF	8M 48x Starlight IR WizMind Network PTZ Camera				
	DC36V/2.23A	Power Adapter				
	PFB306W-S	Wall Mount Bracket				
Accessories	PFB300C-S	Ceiling Mount Bracket				
	PFA150 + PFB306W-S	Vertical Pole Mount Bracket				
	PFA150 + PFB300C-S	Horizontal Pole Mount Bracket				

12.5 kg (27.56 lb)

Gross Weight

Accessories

Included:





DC36V/2.23A Power Adapter

PFB306W-S Wall Mount Bracket

Optional:



PFB300C-S

Ceiling Mount Bracket





PFA150 + PFB306W-S Vertical Pole Mount Bracket

Horizontal Pole Mount Bracket

Wall Mount	Ceiling Mount	Pole Mount(Vertical)
PFB306W-S	PFB300C-S	PFA150+PFB306W-S
Pole Mount(Horizontal)		
PFA150+PFB300C-S		

Dimensions (mm[inch])





