



DH-SD8A840FA-HNT

8MP 40x Starlight IR WizMind Network PTZ Camera for Traffic





Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS,NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

System Overview

Embedded with an advanced AI chip, this series of cameras provides an all-in-one solution for video surveillance of large areas. Outranking conventional cameras with its extended monitoring range, it automatically tracks targets. It also produces vivid images whether day or night, using infrared technology. It is suitable for a wide variety of scenarios, such as advanced defense areas that require high levels of control. You can also have the camera custom-made with an anti-corrosion structure.

Functions

Illegal Parking Capture

Empowered by deep learning algorithms, the device automatically detects and triggers alarms for illegal parking targets, and identifies vehicle attributes in designated areas. The camera supports zooming, capturing, and recognizing license plate numbers, vehicle types, vehicle colors, license plate colors and other motor vehicle attributes. The combination of long shots, close shots and detailed license plate snapshots form a complete chain of evidence on illegal behavior.

- 1/1.8" 8Megapixel STARVIS™ CMOS.
- · Powerful 40x optical zoom.
- · Starlight technology.
- · Max. 25/30 fps@8MP.
- · H.265 encoding.
- · Illegal parking detection.
- · ANPR.
- IP67.











Multi-scenario Tour

Configure tour plan and set up two intelligent modes to activate multi-scenario tour for greater control of your camera.

Protection (IP67, TVS 6000 V)

IP67, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

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.

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%.

Technical Specification					Intelligence		
Camera						Radius of capturing area: 160 m (524.93 ft) (multi- scene), 65 m (213.25 ft) (single-scene)	
Image Sensor	1/1.8" CMOS				Illegal Parking Capture	Supports configuring and monitoring up to 8 illegal parking areas under the same scene; adaptive multi-	
Pixel	8 MP					scene tour is available to expand the monitoring area; supports recognizing motor vehicle attributes such as vehicle type, vehicle color, plate number and plate color	
Max. Resolution	3840 (H) × 2160 (V)						
ROM	8 GB				Checkpoint Capture	Detects events for up to 3 lanes. Detects wrong-way driving and traffic congestion. Recognizes motor vehicle attributes, including license plates, plate color, vehicle color, and vehicle type. Detects events for up to 3 lanes. Detects wrong-way driving. Recognizes motor vehicle attributes, including license	
RAM	4 GB						
Electronic Shutter Speed	1/1 s-1/30,000 s						
Scanning System	Progressive				E-police		
Min. Illumination	Color: 0.005 lux@F1.4 B/W: 0.0005 lux@F1.4 0 lux (IR light on)				Traffic Event	plates, plate color, vehicle color, and vehicle type. Detects pedestrian events on highways, elevated highways, express roads and more.	
Illumination Distance	500 m (1,640.42 ft) (IR)				Video		
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR; Off				Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265;	
Illuminator Number	10 (IR)				Streaming Capability	MJPEG(Sub Stream); Smart H.264+ 3 streams	
Wiper	Smart wiper				ou carring capasine,		
Lens					Resolution	4K (3840 × 2160); 4M (2560 × 1440); 1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576); VGA (640 × 480); CIF (352 × 288)	
Focal Length	5.6 mm-223 mm				Video Frame Rate	Main stream: 4K/4M/1080p/1.3M/720p (1–25/30 fps) Sub stream 1: D1/VGA/CIF (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p (1–25/30 fps)	
Max. Aperture	F1.4-F4.5						
Field of View	H: 61.8°–2.2°; V: 36.3°–1.3°; D: 69.2°–2.4°				Bit Rate Control	CBR/VBR	
Optical Zoom	40×				Video Bit Rate	H.264: 512 kbps–16,384 kbps H.265: 256 kbps–10,240 kbps	
Focus Control	Auto; semi-auto; manual				Day/Night	Auto (ICR)/Color/B/W	
Close Focus Distance	0.5 m-2 m (1.64 ft-6.56 ft)				BLC	Yes	
Iris Control	Auto				WDR	120 dB	
	Detect	Observe	Recognize	Identify	HLC	Yes	
DORI Distance	3,030 m (9,940.94 ft) (1,204 m (3,950.13 ft)	606 m (1,988.18 ft)	303 m (994.09 ft)	White Balance	Auto; indoor; outdoor; tracking; manual; auto sodium lamp; sodium lamp; auto outdoor	
PTZ					Gain Control	Auto; manual	
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –30° to +90°, auto flip 180°				Noise Reduction	2D NR; 3D NR	
Manual Control Speed	Pan: 0.1°/s-240°/s Tilt: 0.1°/s-100°/s				Motion Detection	Yes	
Preset Speed	Pan: 240°/s; Tilt: 120°/s				Region of Interest (RoI)	Yes	
Preset	300				Image Stabilization	Electronic image stabilization	
Tour	8 (up to 32 presets per tour)				Defog	Optical	
Pattern	5				Digital Zoom	16×	
Scan	5				Image Rotation	180°	
Power-off Memory	Yes				Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view	
Idle Motion	Pattern; Preset; Scan; Tour				S/N Ratio	≥ 55 dB	
PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)				Audio		
	, (, (a)		,			G.711a; G.711mu; G.726; G722.1; G.729; MPEG2-	

Network					
Network Port	RJ-45 (10/100 Base-T)				
Network Protocol	UDP; TCP; FTP; IGMP; RTMP; IPv6; IPv4; DNS; HTTP; PPPOE; NTP; DHCP; RTP; SMTP; 802.1x; Qos; HTTPS; SNMP; RTSP; DDNS; UPnP; ICMP				
Interoperability	CGI; ONVIF (Profile S&G&T)				
Streaming Method	Unicast/Multicast				
User/Host	20 (total bandwidth: 64 M)				
Storage	FTP; Micro SD card (512 GB)				
Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions				
Management Software	Cyber City				
Port					
Analog Output	1 channel (CVBS output, BNC)				
RS-485	1 (baud rate: 1200 bps–9600 bps)				
Two-way Audio	Yes				
Alarm Linkage	Capture; preset; tour; pattern; recordings on SD card; alarm digital input; send email; client E-map				
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; encoder state detection; memory card state detection; memory space detection; power fault detection				
Alarm I/O	7/2				
Audio I/O	1/1				
Power					
Power Supply	36 VDC, 2.23 A±25% HI-PoE				
Power Consumption	Basic: 20 W Max.: 33 W (IR light on)				
Environment					
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)				
Operating Humidity	≤ 95%				
Protection	IP67, TVS 6000V lightning proof; surge protection; voltage transient protection				
Structure					
Product Dimensions	415.9 mm × Φ262.0 mm (16.37" × Φ10.31")				
Net Weight	8.5 kg (18.74 lb)				
Gross Weight	12.5 kg (27.56 lb)				
Accessory	Included: Wall mount bracket: PFB306W Power adapter: PFM311B-030-EN-HKA Optional: Mount adapter: PFA118 Wall mount: PFB306W Ceiling mount: PFB306W+PFA150				

Ordering Information						
Туре	Model	Description				
8MP WizMind PTZ Camera	DH-SD8A840FA-HNT	8MP 40x Starlight IR WizMind Network PTZ Camera for Traffic				
Accessories	DC36V/2.23A	Power Adapter				
	PFB306W	Wall Mount Bracket				
	PFA118	Mount Adapter				
	PFB710C	Ceiling Mount Bracket				
	PFA150	Pole Mount Bracket				
	PFB301S-E	Plane Mount Bracket				

Accessories

Included:





DC36V/2.23A Power Adapter

PFB306W Wall Mount Bracket

Optional:







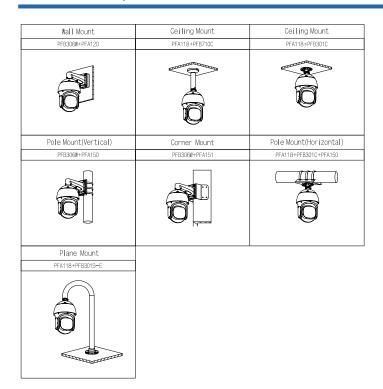
PFB710C Ceiling Mount Bracket



PFA150 Pole Mount Bracket



PFB301S-E Plane Mount Bracket



Dimensions (mm[inch])

