



DH-SD8A840FD-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. 50/60 fps@8MP.
- · H.265 encoding.
- · Illegal parking detection.
- · ANPR.
- IP67, IK10(Exclude wiper).











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				Power-off Memory	Yes
Camera				Idle Motion	Pattern; Preset; Scan; Tour
Image Sensor	1/1.8" CMOS			PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)
Pixel	8 MP			Intelligence	
Max. Resolution	3840 (H) × 2160 (V)			Radius of capturing area: 160 m (524.93 ft) (multi-	
ROM	8 GB			Illegal Parking Capture	scene), 65 m (213.25 ft) (single-scene) Supports configuring and monitoring up to 8 illegal parking areas under the same scene; adaptive multi- 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
RAM	4 GB				
Electronic Shutter Speed	1/1 s-1/30,000 s				
Scanning System	Progressive				Detects events for up to 3 lanes.
Min. Illumination	Color: 0.005 lux@F1.4 (Color, 30 IRE) B/W: 0.0005 lux@F1.4 (B/W, 30 IRE) 0 lux (IR light on)			Checkpoint Capture	Detects wrong-way driving and traffic congestion. Recognizes motor vehicle attributes, including license plates, plate color, vehicle color, and vehicle type.
Illumination Distance	500 m (1,640.42 ft) (IR)			E-police	Detects events for up to 3 lanes. Detects wrong-way driving. Recognizes motor vehicle attributes, including license plates, plate color, vehicle color, and vehicle type.
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR; Off				
Illuminator Number	10 (IR)			Traffic Event	Detects pedestrian events on highways, elevated highways, express roads and more.
Wiper	Smart wiper			Video	
Lens				Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG(Sub Stream); Smart H.264+
Focal Length	5.6 mm-223 mm			Streaming Capability	3 streams
Max. Aperture	F1.4-F4.5				4K (3840 × 2160); 4M (2560 × 1440); 1080P (1920 ×
Field of View	H: 61.8°-2.2°; V: 36.3°-	3°; D: 69.2°–2.4	5	Resolution	1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576); VGA (640 × 480); CIF (352 × 288)
Optical Zoom	40×				Main stream: 4K/4M/1080p/1.3M/720p (1–50/60 fps)
Focus Control	Auto; semi-auto; manu	ıl		Video Frame Rate	Sub stream 1: D1/VGA/CIF (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p (1–25/30 fps)
Close Focus Distance	0.5 m-2 m (1.64 ft-6.56 ft)			Bit Rate Control	CBR/VBR
Iris Control	Auto			Video Bit Rate	H.264: 512 kbps–16,384 kbps
	Detect Observe	Recognize	Identify		H.265: 256 kbps–10,240 kbps
	3,030 m 1,204 m (9,940.94 ft) (3,950.13		303 m (994.09 ft)	Day/Night	Auto (ICR)/Color/B/W
DORI Distance	*DORI (Detect, Observe, Recognize, Identify) is a			BLC WDR	Yes
	of a person viewing the	standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons			120 dB
	or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.			HLC	Yes Auto; indoor; outdoor; tracking; manual; auto sodium
				White Balance	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°			2D NR; 3D NR
Manual Control Speed	Pan: 0.1°/s–300°/s			Motion Detection	Yes
Preset Speed	Tilt: 0.1°/s-300°/s Pan: 300°/s; Tilt: 300°/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°
				Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view

VIII BIT	SDUAU-UID IIIVI				
S/N Ratio	≥ 55 dB				
Audio					
Audio Compression	G.711a; G.711mu; G.726; G722.1; G.729; MPEG2- Layer2; G723; PCM				
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&M)				
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, K10(Exclude wiper) TVS 6000V lightningproof; 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)				

Ordering Information						
Туре	Model	Description				
8MP WizMind PTZ Camera	DH-SD8A840FD-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:



PFA118 Mount Adapter



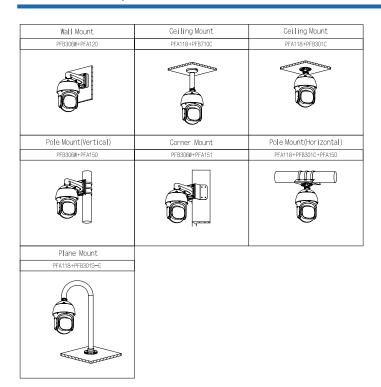
PFB710C Ceiling Mount Bracket



PFA150 Pole Mount Bracket



PFB301S-E Plane Mount Bracket



Dimensions (mm[inch])

