

# DH-SD8A440-HNT-WA

4MP 40x Starlight WizMind Traffic Parking Network Camera



### Wiz Mind

Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, 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 industry verticals.

#### System Overview

The 4MP 40x Starlight WizMind Traffic Parking Network Camera has a built-in neural network processor, and adopts advanced WizMind deep learning technology. With illegal parking evidence extraction, picture synthesis and law enforcement information collection functions, the device is suitable for various road scenes. With PTZ control, the cost of device deployment and scene adjustment can be greatly reduced. Multiple presets can be set at the same time to effectively increase coverage, and intelligent multi-scenario tour can be used to improve capture efficiency.

#### Scenes

The device can be widely used in industrial parks, urban roads, elevated roads and some expressways which need wide monitoring and illegal parking evidence collection.

#### Functions

#### **Illegal Parking Capture**

Deep learning algorithm is adopted to automatically detect illegal parking targets and identify vehicle attributes in the designated area. The camera supports zooming, capturing, and recognizing license plate number, vehicle type, vehicle color, license plate color and other motor vehicle attributes. And the combination of long shots, close shots and detailed license plate snapshots form a complete chain of illegal behavior evidence.

- · 1/1.8" 8Megapixel STARVIS™ CMOS
- · Powerful 40x optical zoom
- Starlight technology
- · Max. 2560 × 1440@30 fps
- $\cdot$  Automatically captures pictures of illegal parking events in the specified area
- $\cdot$  Built-in ANPR engine, equipped with deep learning algorithm application
- · Supports multiple tour modes to improve capture efficiency
- · Supports connecting the speaker to use reminder functions such as voice broadcast of license plate number, and voice talk
- $\cdot$  Continuous 360° horizontal rotation, –30° to 90° vertical rotation, and auto flip 180°; no blind zone
- ·IP67
- $\cdot$  IR distance up to 500 m

· Auto-iris



#### Multi-scenario Tour

The camera supports continuous 360° horizontal rotation, -30° to 90° vertical rotation, and auto flip 180°. Multiple presets can be set to expand the coverage, and the capturing radius is up to 150 m. It has the adaptive Detection Priority tour mode to effectively improve capture efficiency.

#### Audio Linkage

The camera has 1 audio input port and 1 audio output port. After the external speaker is connected, reminder functions such as voice broadcast of license plate number and voice talk based on illegal behavior are supported.

#### All-day Detection

The camera has a built-in smart rain sensor, and adopts advanced deep learning algorithm to effectively reduce the interference of the weather, so it can realize uninterrupted illegal parking capture and video monitoring in sunny, cloudy, rainy, and light snowy day.

#### Protection

IP67: The camera has passed rigorous dust and immersion testing. The casing can protect the camera from dust inhalation, and it can be soaked in 1-meter-deep water for 30 minutes without causing harmful effects.

Wide voltage: ±25% input voltage range is allowed, so that the camera can be widely used in outdoor environments with unstable voltage.

#### 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.

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DH-SD

Pelco-P/D (auto recognition)

Protocol

#### Artificial Intelligence **Technical Specification** Radius of the capture range: 150 m (multi-scenarios), Camera 60 m (single scenario); support configuring up to 8 illegal parking capture areas in the same scenario; 1/1.8" CMOS Image Sensor **Illegal Parking Capture** support adaptive multi-scenario tour and detection to expand coverage; support recognizing motor vehicle 4MP Pixel attributes, such as vehicle type, vehicle color, license plate number, and license plate color. 2560 (H) × 1440 (V) Max. Resolution Video 32 GB ROM H.265; H.264BaselineProfile; H.264 Main Profile; H.264 Compression 4 GB High Profile; M-JPEG RAM Streaming Capability 3 streams 1/1-1/30,000 s **Electronic Shutter Speed** 4M (2560 × 1440); 3M (2048 × 1536); 1080P (1920 × Progressive Scanning System 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × Resolution 576); CIF (352 × 288) Color: 0.001 Lux@F1.4 Main stream: 4M/3M (1-25/30 fps), 1080P/1.3M/720P Min. Illumination B/W: 0.0001 Lux@F1.4 (1-25/30 fps) Frame Rate 0 Lux (IR light/laser on) Sub stream 1: D1/CIF (1-25/30 fps) Sub stream 2: 1080P/1.3M/720P (1-25/30 fps) Illumination Distance 500 m (1640.42 ft) Bit Rate Control Variable; constant Illuminator On/Off Control Zoom Prio; Manual Main stream with default resolution: Bit Rate H.264: 2816-8192 Kbps Illuminator Number 10 IR lights H.265: 1024–7936 Kbps Smart wiper Day/Night Auto (ICR); Color; B/W Wiper BLC Yes Lens Focal Length 5.5 mm-220 mm WDR 94 dB HLC Max. Aperture F1.4-F4.5 Yes Auto; Indoor; Outdoor; Tracking; Manual; Sodium Field of View H: 63.9°-2.0°; V: 37.3°-1.1°; D: 71.2°-2.3° White Balance Lamp; Natural Light; Street Lamp **Optical Zoom** 40x Gain Control Auto: Manual **Focus Control** Auto; Semi-Auto; Manual 2D/3D Noise Reduction **Close Focus Distance** 0.5 m-2 m (1.64 ft-6.56 ft) **Motion Detection** Yes Iris Control Auto Region of Interest (Rol) Yes Detect Observe Recognize Identify Image Stabilization Electronic (EIS) DORI Distance 3034.5 m 1204.2 m 606.9 m 303.4 m Optical Defog (9955.71 ft) (3950.79 ft) (1991.14 ft) (995.41 ft) 16x PTZ **Digital Zoom** Pan: 0°-360° endless 180 Flip Pan/Tilt Range Tilt: -30°-+90°, auto flip 180° Privacy Masking Up to 24 areas, and up to 8 areas in the same view Pan: 0.1°-240°/s Manual Control Speed Tilt: 0.1°-100°/s S/N Ratio ≥ 53.6 dB Pan: 240°/s Preset Speed Tilt: 120°/s Audio G.711a; G.711mu; PCM; G.726; AAC; G722.1; G.729; Preset 300 Compression MPEG2-Layer2 Tour 8 (up to 32 presets per tour) Network Pattern 5 Ethernet RJ-45 (10/100Base-T) 5 Scan IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP; Protocol UPnP; SNMP; DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; Power-off Memory Yes IGMP; ICMP; DHCP; PPPoE Idle Motion Preset; Tour; Pattern; Scanning ONVIF Profile S&G&T; CGI Interoperability

Streaming Method

Unicast: Multicast

### Wiz Mind | DH-SD8A440-HNT-WA

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User/Host	20 (total bandwidth 64 MB)	PFA118		Mount Adapter	
Storage	FTP; Micro SD card (256 GB)	Accessories	PFB710C	Ceiling Mount Bracket	
Browser	IE7 and later versions Chrome 45 and later versions Firefox 52ESR and earlier versions Safari	Accessorie	PFA150	Pole Mount Brack	ket
Management Software	DSS-T9100-PRO	Included	:		
Mobile Phone	iPhone; iPad; Android; Windows Phone	No. 1			
Certification		10-10			
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014	PFB306W Wall Mount Bracket		DC 36V/2.23A Power Adapter	
Port					
Analog Output	1 (BNC)	Optional	:		
RS-485	1 (baud rate range: 1200 bps–115200 bps)			T	
Audio Input	1 (LINE IN; bare wire)	0.		•	
Audio Output	1 (LINE OUT; bare wire)	PFA11 Mount Ada		PFB710C Ceiling Mount Bracket	PFA150 Pole Mount Bracket
Two-way Audio	Support	Wall M	ount	Ceiling Mount	Pole Mount
Alarm I/O	7/2	PFB306	W	PFB710C+PFA118	PFB306W+PFA150
Alarm Linkage	Capture; preset; tour; pattern; SD card record; trigger digital output; client electronic map; send email		A		
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; encoder state detection; memory card state detection; memory space detection; abnormal power supply detection				
Power					
Power Supply	DC 36V/2.23A (±25%) (standard) HI-PoE (optional)	Dimensions (mm[inch])			
Power Consumption	Basic: 30W Max: 48W (R light on)				
Environment		<u> </u>			
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	Ĭ_Ĭ			
Operating Humidity	≤ 95%	160[6.30]			A.
Protection	IP67; TVS 6000V lightning proof; surge protection; voltage transient protection (comply with GB/T 17626.5 level 4)				
Structure		5.35]			≠' 
Dimensions	415.6 mm × Φ 262 mm (16.36" × Φ 10.31")	390[15.35]			
Net Weight	8.5 kg (18.74 lb)				
Gross Weight	10 kg (22.05 lb)				
Ordering Information					

#### **Ordering Information**

Rev 001.001

Туре	Model	Description	
4MP WizMind Camera	DH-SD8A440-HNT-WA	4MP 40x Starlight WizMind Traffic Parking Network PTZ Camera	
Accessories	PFB306W	Wall Mount Bracket	
	DC 36V/2.23A	Power Adapter	

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