



# DH-SD8A3833GA-HNV

8MP 33x Starlight+ IR Network PTZ Camera





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 and IK10.

- · 1/1.8" 8Megapixel STARVIS™ CMOS.
- · 33x optical zoom.
- · Starlight+ technology.
- · IR distance up to 500 m.
- · Auto tracking 3.0.
- · Perimeter protection.
- · Face detection.
- · Video Metadata.
- · SMD 4.0.
- · IP67, IK10.











#### **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.

#### Protection (IP67, TVS 8000 V)

IP67, TVS 8000 V lightning proof, surge protection, and voltage transient protection.

#### Video Metadata

Metadata is information on the attributes of targets that is extracted during monitoring. It can be used for data retrieval. There are four kinds of metadata supported by Dahua PTZ WizMind cameras: Human face, human body, motor vehicle and non-motor vehicle. Face information includes gender, age, glasses, masks, beards, and more. Human body information includes hat, top, top color, bottom, bottom color, bag, and more. Motor vehicle information includes plate color, type, vehicle color, sun visor, ornament, calling, seatbelt, smoking, annual inspection sticker, and more. Non-motor vehicle information includes type, color, top type, top color, people number, and more.

Technical Specification		Intelligence		
Camera		Supports detection of motor vehicles, non-motor vehicles, faces and human bodies, optimization,		
Image Sensor	1/1.8" CMOS	Video Metadata	capturing pictures, and uploading high-quality face snapshots. It extracts attributes from motor vehicles	
Pixel	8 MP		and non-motors, detecting up to 10 attributes for motor vehicles.	
Max. Resolution	3840 (H) × 2160 (V)		Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm classification; linkage tracking.	
ROM	4 GB	IVS (Perimeter Protection)		
RAM	2 GB	Face Detection	Supports face detection, optimization, capturing pictures, uploading high-quality face snapshots and enhancing face images. Attribute Extraction is also supported, where 6 attributes and 8 expressions can be detected. Face cutout is also offered, where you can cutout one face at a time and customize the size to be a one-inch photo. The supported methods for capturing snapshots are real-time capturing, quality first, and selecting a preferred image among a group	
Electronic Shutter Speed	1 s-1/30,000 s			
Scanning System	Progressive			
Min. Illumination	0.001 lux@F1.6 (Color, 30 IRE); 0.0001 lux@F1.6 (B/W, 30 IRE); 0 lux (illuminator on)			
Illumination Distance	500 m (1640.42 ft) (IR)		of snapshots.	
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off	Auto Tracking	Auto tracking 3.0	
Illuminator Number	10 (IR light)	SMD	SMD4.0	
Lens		Quick Pick	Yes	
Focal Length	6.5 mm-214.5 mm	Active Deterrence	Active Deterrence	
Max. Aperture	F1.6–F4.9	Sound Warning	Offers 11 sound alarms and supports importing 10 custom sound alarms.	
Field of View	H: 63.9°–2.1°; V: 37.3°–1.2°; D: 71.2°–2.4°		Play time can be set from 1 to 10.	
Optical Zoom	33 ×	Video		
Focus Control	Auto; semi-auto; manual	Video Compression	H.264H;H.264B;Smart H.265+;H.264;H.265;MJPEG(Sub Stream);Smart H.264+	
Close Focus Distance	1 m-8 m (3.28 ft-26.25 ft)			
Iris Control	Auto; manual; iris prio	Streaming Capability	3 streams	
	Detect Observe Recognize Identify   3,808 m 1504.2 m 761.6 m 380.8 m   (12493.44 ft) (4935.04 ft) (2498.69 ft) (1249.34 ft)	Resolution	4K (3840 × 2160); 4M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); 1.3M (1280 × 960); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
DORI Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons	Video Frame Rate	Main stream: 8M/4M/1080p/960p/720p@(1–25/30 fps) Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: 1080p/960p/720p@(1-25/30 fps)	
	or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For	Bit Rate Control	CBR/VBR	
	intelligent function distances, refer to installation and commissioning manual/project design tool.	Video Bit Rate	H264: 128 Kbps–16,384 Kbps H265: 51 Kbps–11,776 Kbps	
PTZ		Day/Night	Auto; Color; B/W; Electronic	
Pan/Tilt Range	Pan: 0° to 360° endless; Tilt: –30° to +90°, auto flip 180°	BLC	Yes	
Manual Control Speed	Pan: 0°/s–240°/s; Tilt: 0°/s–100°/s	WDR	120 dB	
Preset Speed	Pan: 0°/s–240°/s; Tilt: 0°/s–100°/s	HLC	Yes	
Preset	300	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp	
Tour	8 (up to 32 presets per tour)	Gain Control	Auto; manual; gain prio	
Pattern	5	Noise Reduction	2D NR; 3D NR	
Scan	5	Motion Detection	Yes	
Power-off Memory	Yes	Region of Interest (RoI)	Yes	
Idle Motion	Pattern; Preset; Scan; Tour	Image Stabilization	Electronic Image Stabilization (EIS)	
PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)	Defog	Electronic	

Digital Zoom	16×		
Image Rotation	180°		
Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view; Multiple colors available		
S/N Ratio	≥55 dB		
Audio			
Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723		
Network			
Network Port	RJ-45 (10/100 Base-T)		
Network Protocol	FTP;RTMP;IPv6;Bonjour;IPv4;DNS;RTCP;PPPoE;NTP;RT P;802.1x;QoS;HTTPS;SNMP;TCP/IP;DDNS;UPnP;NFS;IC MP;UDP;IGMP;HTTP;SSL;DHCP;SMTP;RTSP;ARP		
Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI; SDK		
Streaming Method	Unicast/Multicast		
User/Host	20 (total bandwidth: 64 M)		
Storage	Micro SD card (512 GB); FTP/SFTP; NAS		
Browser	IE 9 and later versions; Chrome 41 and later versions; Firefox 52 and later versions; Safari 10 and later versions		
Management Software	DMSS; DSS Pro		
Mobile Client	iOS; Android		
Certification			
Certifications	CE-EMC: EN 55032; EN 61000-3-3; EN 61000-3-2; EN 50130-4; EN 55035 CE-LVD: EN 62368-1 FCC: 47 CFR FCC Part15, Subpart B, NSI C63.4		
Port			
RS-485	1 (baud rate: 1200 bps–9600 bps)		
Audio Input	1 channel (LINE IN, bare wire)		
Audio Output	1 channel (LINE OUT,bare wire)		
Alarm Input	7 (on-off value input: 0–5 VDC)		
Alarm Output	2 channels		
Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital output; audio		
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; power exception detection		
Power			
Power Supply	36 VDC, 2.23 A $\pm$ 25% (included); HI-PoE		
Power Consumption	Basic: 17 W; Max: 33 W (illuminator +Heater+ PTZ)		

Environment				
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)			
Operating Humidity	≤95%			
Protection	TVS 8000 V lightning proof;IK10;IP67; surge protection; voltage transient protection			
Structure				
Product Dimensions	415.9 mm × Φ 262.0 mm (16.37" × Φ 10.31")			
Net Weight	8.5 kg (18.74 lb)			
Gross Weight	13.1 kg (28.88 lb)			

Ordering Information				
Туре	Model	Description		
8MP WizSense PTZ Camera	DH-SD8A3833GA-HNV	8MP 33x Starlight+ IR Network PTZ Camera		
	SD8A3833GA-HNV	8MP 33x Starlight+ IR Network PTZ Camera		
Accessories	DC36V/2.23A	Power Adapter		
	PFA118	Mount Adapter		
	PFB306W	Wall Mount Bracket		
	PFA126	Junction Box		
	PFA151	Corner Mount Bracket		
	PFB301C	Ceiling Mount Bracket		
	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



PFA126 Junction Box



PFA151 Corner Mount Bracket



PFB301C Ceiling Mount Bracket

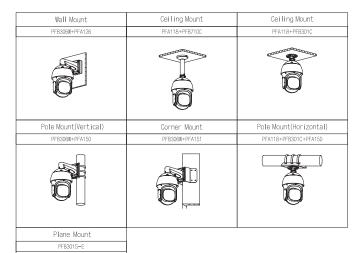


PFB710C Ceiling Mount Bracket



PFA150 Pole Mount Bracket

PFB301S-E Plane Mount Bracket



## Dimensions (mm[inch])

