



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			Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving;
Camera		IVS (Perimeter Protection)	parking detection; people gathering; human alarm classification; linkage tracking.
Image Sensor	1/1.8" CMOS		Supports face detection, optimization, capturing
Pixel	8 MP	pictures, uploading high-quality face snapsl enhancing face images. Attribute Extraction	
Max. Resolution	3840 (H) × 2160 (V)	Face Detection	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 of snapshots.
ROM	4 GB		
RAM	2 GB		
Electronic Shutter Speed	1 s-1/30,000 s	Auto Tracking	Auto tracking 3.0
Scanning System	Progressive	SMD	SMD4.0
Min. Illumination	0.001 lux@F1.6 (Color, 30 IRE); 0.0001 lux@F1.6 (B/W, 30 IRE); 0 lux (illuminator on)	Quick Pick	Yes
Illumination Distance	500 m (1640.42 ft) (IR)	Active Deterrence	
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off	Sound Warning	Offers 11 sound alarms and supports importing 10 custom sound alarms. Play time can be set from 1 to 10.
Illuminator Number	10 (IR light)	Video	
Lens		Video	
Focal Length	6.5 mm-214.5 mm	Video Compression	H.264H;H.264B;Smart H.265+;H.264;H.265;MJPEG(Sub Stream);Smart H.264+
Max. Aperture	F1.6-F4.9	Streaming Capability	3 streams
Field of View	H: 63.9°–2.1°; V: 37.3°–1.2°; D: 71.2°–2.4°	Streaming capability	4K (3840 × 2160); 4M (2560 × 1440); 3M (2048 ×
Optical Zoom Focus Control	33 × Auto; semi-auto; manual	Resolution	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)
Close Focus Distance	1 m-8 m (3.28 ft-26.25 ft)		Main stream: 8M/4M/1080p/960p/720p@(1–25/30
Iris Control	Auto; manual; iris prio	Video Frame Rate	fps) Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: 1080p/960p/720p@(1-25/30 fps)
	Detect Observe Recognize Identify	Bit Rate Control	CBR/VBR
DORI Distance	3,808 m 1504.2 m 761.6 m 380.8 m (12493.44 ft) (4935.04 ft) (2498.69 ft) (1249.34 ft)	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;	WDR	120 dB
Manual Control Speed	Tilt: 0°/s-100°/s	HLC	Yes
Preset Speed	Pan: 0°/s–240°/s; Tilt: 0°/s–100°/s	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Preset	300	Gain Control	Auto; manual; gain prio
Tour	8 (up to 32 presets per tour)	Noise Reduction	2D NR; 3D NR
Pattern	5	Motion Detection	Yes
Scan	5	Region of Interest (RoI)	Yes
Power-off Memory	Yes	Image Stabilization	Electronic Image Stabilization (EIS)
Idle Motion	Pattern; Preset; Scan; Tour	Defog	Electronic
PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)	Digital Zoom	16×
Intelligence	Supports detection of motor vehicles, non-motor	Image Rotation	180°
Video Metadata	vehicles, faces and human bodies, optimization, capturing pictures, and uploading high-quality face snapshots. It extracts attributes from motor vehicles and non-motors, detecting up to 10 attributes for motor vehicles.	Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view; Multiple colors available

motor vehicles.

>55 dB	
233 (1)	
PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2;	
G722.1; G729; G723	
RJ-45 (10/100 Base-T)	
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	
ONVIF (Profile S & Profile G & Profile T); CGI; SDK	
Unicast/Multicast	
20 (total bandwidth: 64 M)	
Micro SD card (512 GB); FTP/SFTP; NAS	
IE 9 and later versions; Chrome 41 and later versions; Firefox 52 and later versions; Safari 10 and later versions	
DMSS; DSS Pro	
iOS; Android	
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	
1 (baud rate: 1200 bps–9600 bps)	
1 channel (LINE IN, bare wire)	
1 channel (LINE OUT,bare wire)	
7 (on-off value input: 0–5 VDC)	
2 channels	
Capture; recording; send email; preset; tour; pattern; alarm digital output; audio	
Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; power exception detection	
36 VDC, 2.23 A ± 25% (included); HI-PoE	
Basic: 17 W; Max: 33 W (illuminator +Heater+ PTZ)	
Max: 33 W (illuminator +Heater+ PTZ)	

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

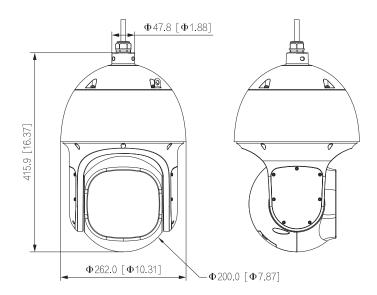


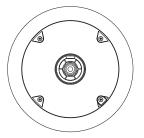
PFB710C Ceiling Mount Bracket



PFA150 Pole Mount Bracket

Dimensions (mm[inch])







PFB301S-E Plane Mount Bracket

Wall Mount	Ceiling Mount	Ceiling Mount
PFB306W+PFA126	PFA118+PFB710C	PFA118+PFB301C
		Ö
Pole Mount(Vertical)	Corner Mount	Pole Mount(Horizontal)
PFB306W+PFA150	PFB306W+PFA151	PFA118+PFB301C+PFA150
Plane Mount		1
PFB301S=E		