



# DH-SD8C845FG-HNF

8MP 45x WizMind 1/1.2" CMOS 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.

#### **Series 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.

### Scene

For challenging low-light conditions, Dahua's Starlight Ultra-low Light Technology makes the camera highly sensitive, capturing color in vivid detail even in lighting as low as 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, producing clear images in dark environments.

## **Funtions**

#### **Face Recognition**

Once facial attributes are extracted from captured faces, they are stored in a database where they can be easily searched and compared against other images. Once a successful match is found, the system outputs the result. The Dahua Face Recognition camera supports a built-in database that stores up to 10,000 facial images, helping the camera achieve real-time face capturing and comparison.

- 1/1.2" 8Megapixel STARVIS CMOS.
- 45x optical zoom.
- · Ultra light sensitivity.
- · Max. 25/30 fps@4K.
- · Auto-tracking.
- · Perimeter protection.
- · Face detection.
- Face recognition.
- · Metadata.
- · SMD Plus.
- IP67
- · Dual light fusion.
- · Electronic defog.
- · Wiper.













#### **Perimeter Protection**

Automatically filters false alarms caused by animals, rustling leaves, bright lights, etc, and enables system to act secondary recognition for the targets, which improve alarm accuracy.

#### **Auto-tracking**

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

## Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.



Technical Specificat	ion			
Camera				
Image Sensor	1/1.2" CMOS			
Pixel	8 MP	8 MP		
Max. Resolution	3840 (H) × 210	3840 (H) × 2160 (V)		
ROM	8 GB	8 GB		
RAM	4 GB			
Electronic Shutter Speed	1/1 s-1/30,000 s			
Scanning System	Progressive	Progressive		
Min. Illumination	B/W: 0.0001 l	Color: 0.0005 lux@F1.5 B/W: 0.0001 lux@F1.5 0 lux (Illuminator On)		
Illumination Distance		80 m (262.47 ft) (Only White Light) 250 m (820.21 ft) (Only IR)		
Illuminator On/Off Control	Zoom Prio; Ma	Zoom Prio; Manual; Smart IR; Off		
Illuminator Number	10 (Dual light	10 (Dual light fusion)		
Wiper	Yes	Yes		
Lens				
Focal Length	8 mm-360 mr	8 mm-360 mm		
Max. Aperture	F1.5-F5.7	F1.5-F5.7		
Field of View	H: 61.5°-2.1°; V: 36.7°-1.3°; D: 67.9°-2.7°			
Optical Zoom	45x			
Focus Control	Auto; semi-auto; manual			
Close Focus Distance	0.5 m-5 m (1.64 ft-16.40 ft)			
Iris Control	Auto; manual;	Auto; manual; fixed		
	Detect	Observe	Recognize	Identify
DORI Distance	4115.9 m (13503.61 ft)	1646.3 m (5401.25 ft)	823.2 m (2700.79 ft)	411.6 m (1350.39 ft)
PTZ				
Pan/Tilt Range		Pan: 0° to 360° endless Tilt: –20° to +90° auto flip		
Manual Control Speed		Pan: 0.1°/s-240°/s Tilt: 0.1°/s-100°/s		
Preset Speed	Pan: 240°/s; Tilt: 100°/s			
Preset	300	300		
Tour	8 (up to 32 presets per tour)			
Pattern	5	5		
Scan	5	5		
Power-off Memory	Yes	Yes		
Idle Motion	Pattern; Preset; Scan; Tour			
PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)			
		,		

Intelligence	
Video Metadata	Motor vehicle, non-motor vehicle, face, and human body detection; tracking; optimization; capturing pictures; uploading high-quality face snapshots.  Motor vehicle attributes: License plate, plate color, vehicle type, vehicle color, vehicle logo, vehicle model/year, sun visor, seatbelt., smoking, calling, ornament, and annual inspection sticker.  Non-motor vehicle attributes: Type, vehicle color, number of people, top type and color, and hat.  Human body attributes: Top and bottom type and color, bag, hat, gender, and umbrella.  Face attributes: Gender, age, facial expressions, glasses, face mask, and mustache.
IVS (Perimeter Protection)	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification; linkage tracking
Auto Tracking	Yes
SMD	SMD Plus
Video	
Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG(Sub Stream); Smart H.264+
Streaming Capability	3 streams
Resolution	4K (3840 × 2160); 4M (2560 × 1440); 1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
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)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 768 kbps–16384 kbps H.265: 256 kbps–10240 kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
WDR	Yes
HLC	Yes
White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp
Gain Control	Auto; manual
Noise Reduction	2D NR; 3D NR
Motion Detection	Yes
Region of Interest (RoI)	Yes
Image Stabilization	Electronic (EIS)
Defog	Electronic
Digital Zoom	16×
Image Rotation	180°
Privacy Masking	Up to 24 areas can be set with 8 areas in the same view; supports various colors for privacy masking
S/N Ratio	≥ 55 dB





Audio					
Audio Compression	G.711A; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; PCM				
Network	etwork				
Network Port	RJ-45 (10/100 Base-T)				
Carrier Network System	Yes				
Network Protocol	FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP				
Interoperability	CGI; 35114A; ONVIF (Profile S&G&T)				
Streaming Method	Unicast/Multicast				
User/Host	20 (total bandwidth: 64 M)				
Storage	NAS; 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	DSS; Smart Player; ConfigTool; NVR; Smart PSS; IVSS				
Mobile Client	iOS; Android				
Port					
Analog Output	1 channel (CVBS output, BNC)				
RS-485	1 (Baud rate: 1200 bps–115200 bps)				
Audio Input	1 channel (LINE IN, bare wire)				
Audio Output	1 channel (LINE OUT,bare wire)				
Alarm Linkage	Capture; record; send email; preset; tour; pattern; alarm digital input				
Alarm Event	Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; power exception detection				
Alarm I/O	7/2				
Audio I/O	1/1				
Power					
Power Supply	36 VDC/2.23 A ± 25% PoE (802.3bt) Only supports standard 802.3bt PoE Switch				
Power Consumption	Basic: 18 W Max.: 33 W (Illuminator On, PTZ)				
Environment					
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)				
Operating Humidity	≤ 95%				
Protection	IP67, TVS 8000 V lightning proof; surge protection; voltage transient protection				
Structure					
Product Dimensions	442 mm × Φ262 mm (17.40" × Φ10.32")				
Net Weight	9.6 kg (21.64 lb)				
Gross Weight	12.5 kg (27.56 lb)				

Ordering Information					
Туре	Model	Description			
8MP WizMind PTZ Camera	DH-SD8C845FG-HNF	8MP 45x WizMind 1/1.2" CMOS Network PTZ Camera			
	SD8C845FG-HNF	8MP 45x WizMind 1/1.2" CMOS Network PTZ Camera			
Accessories	DC36V/2.23A	Power Adapter			
	PFB306W-S	Bracket			
	PFA150	Pole Mount Bracket			
	PFB300C-S	Bracket			

## Accessories

## Included:



Power Adapter





PFB306W-S Wall Mount Bracket

# Optional:



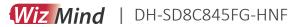
PFB300C-S Bracket



PFA150 Bracket

Wall Mount	Ceiling Mount	Pole Mount(Vertical)
PFB306W-S	PFB300C-S	PFA150+PFB306W-S
Pole Mount(Horizontal)		
PFA150+PFB300C-S		





# Dimensions (mm[inch])

