

# DH-SD6CE445GB-HNR

4MP 45x Starlight IR Network PTZ Camera



Wiz Sense

Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

#### System Overview

Unique and elegant, the black semicircular sphere discreetly monitors from a distance without drawing undue attention to itself. It has a powerful optical zoom, and accurate pan, tilt and zoom capabilities, providing an all-in-one solution for long distance video surveillance of outdoor scenes. Together with infrared illumination and Starlight Technology, the camera is a great solution for dark, low light conditions. The series combines a day and night mechanical IR cut filter to produce high quality images in variable lighting conditions during the day, and True WDR for locations with direct sunlight and glare.

#### Functions

#### Starlight Technology

With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

#### **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.

#### **Face Detection**

Supports 6 attributes and 8 expressions: Gender, age, glasses, face mask, beard and expressions (anger, sadness, disgust, fear, surprise, calm,

happiness, and confusion). It also supports face cutout settings: Face, and single inch photo. Three snapshot methods are also featured: Real-time snapshot, priority snapshot, and quality priority.

- 1/2.8" 4Megapixel STARVIS™ CMOS.
- 45x optical zoom.
- Starlight technology.
- Max. 25/30fps@4M.
- IR distance up to 250 m.
- Auto-tracking 3.0.
- Perimeter protection.
- Face detection.
- SMD 4.0.
- IP67, IK10.



#### 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.

#### Protection (IP67, TVS 6000 V)

IP67, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

#### SMD 4.0

Dahua Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

# Wiz Sense | DH-SD6CE445GB-HNR

Technical Specification		IVS (Perimeter Protection)	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification; linkage tracking	
Camera				
Image Sensor	1/2.8" CMOS	Supports face detection, optimization, tracking,		
Pixel	4 MP		capturing pictures, uploading high-quality face snapshots, and face enhancement; Supports	
Max. Resolution	2560 (H) × 1440 (V)	Face Detection	attributes extraction. 6 attributes and 8 expressions: Gender, age, glasses, expressions (angry, sad, hate, scary, surprise, calm, happy and confused), mask, mustache; Supports face cutout: Face, one-inch	
ROM	4 GB			
RAM	1 GB	photo. Capturing strategies include real-time capturing, optimization, and quality first.		
Electronic Shutter Speed	1/1 s-1/30,000 s		Detects 6 helmet colors: Red, orange, yellow, blue, white, and black. An alarm will be triggered when a person is not wearing a helmet or when the color of the helmet that they are wearing does not match	
Scanning System	Progressive			
Min. Illumination	Color: 0.005 Lux@F1.6; B/W: 0.0005 Lux@F1.6; 0 Lux@F1.6 (IR on)	Construction Detection         Construction Detection		
Illumination Distance	250 m (820.21 ft)			
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR; Off			
Illuminator Number	6 (IR)		supports detecting the attributes of work uniforms such as the color of the uniform, and whether or	
Lens			not the person is wearing a mask and wearing shoe covers. An alarm will be triggered when the target	
Focal Length	3.95 mm–177.75 mm		is detected as not meeting the set requirements. It also detects and triggers alarms when only one	
Max. Aperture	F1.6-F4.95		person is in the construction site, and when no one is present in the detection area such as when a worker	
Field of View	H: 70.3°–1.8°; V: 37°–1°; D: 69.3°–2°	Auto Tracking	leaves their post or an area is left unmanned.	
Optical Zoom	45×	Auto Tracking SMD	Yes SMD 4.0	
Focus Control	Auto/Semi-Auto/Manual		Uses deep learning algorithms and works with back-	
Close Focus Distance	0.1 m-1 m (0.33 ft-3.28 ft)	Acupick	end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets.	
Iris Control	Auto/Manual Detect Observe Recognize Identify	Auto Patrol	It triggers the IVS rule when a target is detected and makes the camera link with the PTZ to rotate to the position of the target and patrol based on its presets.	
DORI Distance	3,555 m (11,663.39 ft) 1,404.2 m 711 m 355.5 m (4,606.96 ft) (2,332.68 ft) (1,166.34 ft)	Video		
PTZ		Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG(Sub Stream); Smart H.264+	
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –20° to +90°, auto flip 180°	Streaming Capability	3 streams	
Manual Control Speed Preset Speed	Pan: 0.1°/s–300°/s; Tilt: 0.1°/s–200°/s Pan: 400°/s; Tilt: 300°/s	Resolution	4M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576); VGA (640 × 480); CIF (352 × 288)	
Preset	300			
Tour	8 (up to 32 presets per tour)	Video Frame Rate	Main stream: 4M/3M/1080p/1.3M/720p (1–25/30 fps)	
Pattern	5 (up to 52 presets per tour)	Sub stream 1: D1/VGA/CIF (1–25/30 fp           Sub stream 2: 1080p/1.3M/720p (1–25)		
Scan	5	Bit Rate Control	CBR/VBR	
Power-off Memory	Yes	Video Bit Rate	H264: 96 kbps–14848 kbps H265: 38 kbps–8960 kbps	
Idle Motion	Pattern; Preset; Scan; Tour	Day/Night	Auto (ICR)/Color/B/W	
PTZ Protocol	DH-SD Pelco-P/D (auto recognition)	BLC	Yes	
		WDR	120 dB	
Intelligence	Detects motor and non-motor vehicles, faces and	HLC	Yes	
Video Metadata	human bodies. It also performs tracking, takes snapshots, uploads high-quality face images and optimizes images. It extracts attributes from motor vehicles, detecting up to 10 attributes for them.	White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/Natural light/Street lamp	

# Wiz Sense | DH-SD6CE445GB-HNR

Gain Control	Auto/Manual	
Noise Reduction	2D/3D	
Motion Detection	Yes	
Region of Interest (Rol)	Yes	
Image Stabilization	Electronic (EIS)	
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	
S/N Ratio	≥ 55 dB	
Audio		
Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723	
Network		
Network Port	1 × RJ-45 (10/100 Base-T)	
Network Protocol	FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTP5; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP	
Interoperability	CGI; SDK; ONVIF (Profile S&G&T); P2P	
Streaming Method	Unicast/Multicast	
User/Host	20 (total bandwidth: 64 M)	
Storage	Micro SD card (Up to 512 GB);FTP;NAS	
Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions iOS 10 and later versions	
Management Software	DSS; DMSS	
Mobile Client	iOS; Android	
Certification		
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4- 2014	
Port		
Analog Output	1 channel (CVBS output, BNC)	
RS-485	1(Bit range: 1200 bps-9600 bps)	
Audio Input	1 channel	
Audio Output	1 channel	
Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital output	
Alarm Event	Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection	
Alarm I/O	7/2	
Audio I/O	1/1	

Power				
Power Supply	24 VDC, 2.5 A ± 25% PoE+ (802.3at)			
Power Consumption	Basic: 13 W Max: 25 W			
Environment				
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)			
Operating Humidity	≤ 95% (RH)			
Protection	IP67; IK10; TVS 6000V lightning proof; surge protection; voltage transient protection			
Structure				
Product Dimensions	337.4 mm × Φ209 mm (13.28" × Φ8.23")			
Net Weight	5.9 kg (13.00 lb)			
Gross Weight	9.6 kg (21.16 lb)			

Ordering Information					
Туре	Model	Description			
4MP WizSense PTZ Camera	DH-SD6CE445GB-HNR	4MP 45x Starlight IR WizSense Network PTZ Camera			
	SD6CE445GB-HNR	4MP 45x Starlight IR WizSense Network PTZ Camera			
Accessories	PFB305W	Wall Mount Bracket			
	DC 24 V/2.5 A	Power Adapter			
	PFA111	Mount Adapter			
	PFA120	Mount Adapter			
	PFB300C	Ceiling Mount Bracket			
	PFA150	Pole Mount Bracket			
	PFA151	Corner Mount Bracket			
	PFB301C	Ceiling Mount Bracket			
	PFB301S-E	Plane Mount Bracket			
	PFB303S	Parapet Mount Bracket			

# Wiz Sense | DH-SD6CE445GB-HNR

## Accessories

### Included:



PFB305W Wall Mount Bracket

DC 24 V/2.5 A Power Adapter

### Optional:



PFA111 Mount Adapter



PFA150 Pole Mount Bracket



PFB301S-E Plane Mount Bracket



PFA120 Water-proof Junction Box



PFA151 Corner Mount Bracket



PFB303S Parapet Mount Bracket

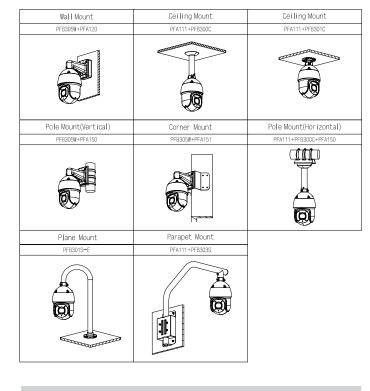


PFB300C Ceiling Mount Bracket



PFB301C Ceiling Mount Bracket





### Dimensions (mm [inch])

