

DH-SD6CE245GB-HNR

2MP 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" 2Megapixel STARVIS™ CMOS.
- 45x optical zoom.
- Starlight technology.
- Max.50/60fps@2M.
- 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-SD6CE245GB-HNR

Technical Specification			Tripwire; intrusion; climbing fences; loitering
Camera		IVS (Perimeter Protection)	detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human
Image Sensor	1/2.8" CMOS	alarm classification; linkage tracking	
Pixel	2 MP		Supports face detection, optimization, tracking, capturing pictures, uploading high-quality face
Max. Resolution	1920 (H) × 1080 (V)	snapshots, and face enhancement; Supports attributes extraction. 6 attributes and 8 expre	
ROM	4 GB	Face Detection	Gender, age, glasses, expressions (angry, sad, hate, scary, surprise, calm, happy and confused), mask,
RAM	1 GB	mustache; Supports face cutout: Face, one-inch photo. Capturing strategies include real-time	
Electronic Shutter Speed	1/1 s-1/30,000 s		capturing, optimization, and quality first.
Scanning System	Progressive	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 the configured color. It also supports compliance detection for work uniforms. Up to 5 work uniform	
Min. Illumination	Color: 0.005 Lux@F1.6; B/W: 0.0005 Lux@F1.6; 0 Lux@F1.6 (IR on)		
Illumination Distance	250 m (820.21 ft)		sample libraries can be uploaded, which together can contain up to 1,000 images (the images must
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR; Off		be 1080p and in the JPG format). An alarm will be triggered when the similarity between the detected
Illuminator Number	6 (IR)	Construction Detection work uniform and the samples in the library is below the set threshold (that is, below the minimum compliance standard for work uniforms). The system	
Lens			supports detecting the attributes of work uniforms such as the color of the uniform, and whether or
Focal Length	3.95 mm–177.75 mm		not the person is wearing a mask and wearing shoe covers. An alarm will be triggered when the target
Max. Aperture	F1.6-F4.95	is detected as not meeting the set requirements. It also detects and triggers alarms when only one	
Field of View	H: 65.7°–1.9°V: 39.4°–1.1°D: 73.1°–2.1°		person is in the construction site, and when no one is present in the detection area such as when a worker
Optical Zoom	45×		leaves their post or an area is left unmanned.
Focus Control	Auto/Semi-Auto/Manual	Auto Tracking	Yes
Close Focus Distance	0.1 m–1 m (0.33 ft–3.28 ft)	SMD	SMD 4.0 Uses deep learning algorithms and works with back-
Iris Control	Auto/Manual Detect Observe Recognize Identify	Acupick	end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets.
DORI Distance	2451.7 m 972.9 m 490.3 m 245.2 m (8043.64 ft) (3191.93 ft) (1608.60 ft) (804.46 ft)	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.
PTZ		Video	
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –20° to +90°, auto flip 180°	Video Compression	H.264H; H.264B;Smart H.265+; H.264; H.265; MJPEG(Sub Stream); Smart H.264+
Manual Control Speed	Pan: 0.1°/s–260°/s Tilt: 0.1°/s–120°/s	Streaming Capability	3 streams
Preset Speed	Pan: 300°/s; Tilt: 200°/s		1080p (1920 × 1080); 960p (1280 × 960); 720p (1280
Preset	300	Resolution	× 720); D1 (704 × 576); VGA (640 × 480); CIF (352 × 288)
Tour	8 (up to 32 presets per tour)		
Pattern	5	Main stream: 1080p/1.3M/720p@(1-50/60 fps) Video Frame Rate Sub stream 1: D1/VGA/CIF@(1-25/30 fps)	
Scan	5		Sub stream 2: 1080p/1.3M/720p@(1-25/30 fps)
Power-off Memory	Yes	Bit Rate Control	CBR/VBR
Idle Motion	Pattern; Preset; Scan; Tour	Video Bit Rate	H264: 64 kbps–10496 kbps H265: 25 kbps–6400 kbps
PTZ Protocol	DH-SD Pelco-P/D (auto recognition)	Day/Night	Auto (ICR)/Color/B/W
Intelligence	Intelligence		Yes
Video Metadata	Detects motor and non-motor vehicles, faces and human bodies. It also performs tracking, takes	WDR	120 dB
	snapshots, uploads high-quality face images and optimizes images. It extracts attributes from motor vehicles, detecting up to 10 attributes for them.	HLC	Yes

Wiz Sense | DH-SD6CE245GB-HNR

White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/Natural light/Street lamp			
Gain Control	Auto/Manual			
Noise Reduction	2D/3D			
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 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; HTTPS; 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			
2MP WizSense PTZ Camera	DH-SD6CE245GB-HNR	2MP 45x Starlight IR WizSense Network PTZ Camera			
	SD6CE245GB-HNR	2MP 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-SD6CE245GB-HNR

Accessories

Included:



PFB305W Wall Mount Bracket



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

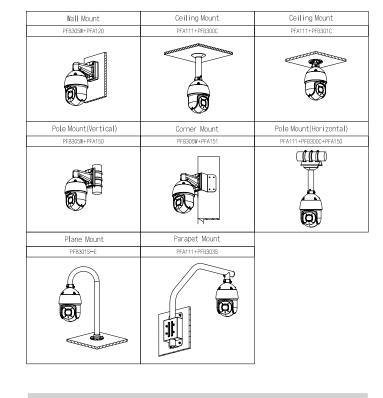


PFB300C Ceiling Mount Bracket



PFB301C Ceiling Mount Bracket





Dimensions (mm [inch])

