

# DH-SD4E825GB-HNR-A-PV1

8MP 25X TiOC WizSense Network PTZ Camera





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**

The Three-in-One Camera (TiOC) solution combines 24/7 monitoring, active deterrence and real-time alarms with artificial intelligence into one smart, innovative solution. TiOC PTZ cameras adopt auto-tracking 3.0 technology, greatly improving the monitoring scope of key targets. For distributors and installers, it not only saves time, but also reduces cost.

# **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.

#### 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.

- · 1/2.8" 8Megapixel STARVIS™ CMOS.
- · 25x optical zoom.
- · Starlight technology.
- · Max. 25/30fps@8M.
- · IR distance up to 100 m.
- · Auto tracking 3.0.
- · Perimeter protection.
- · Face detection.
- · SMD 4.0.
- · IP66.
- · Full-color illuminator; red and blue warning light.













#### **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.

#### Protection (IP66, TVS 6000 V)

IP66, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

### **Auto Tracking**

This feature controls the pan, tilt and zoom actions of the camera to automatically track an object in motion, to keep it in view of the camera. Tracking 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.

#### **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.

Technical Specification			Supports face detection, optimization, capturing pictures, uploading high-quality face snapshots and enhancing face images. Attribute Extraction is also
Camera			
Image Sensor	1/2.8" CMOS	Face Detection	supported, where 6 attributes and 8 expressions can be detected. Face cutout is also offered, where you
Pixel	8 MP		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
Max. Resolution	3840 (H) × 2160 (V)		
ROM	4 GB	Auto Tracking	Yes
RAM	1 GB	SMD	SMD 4.0
Electronic Shutter Speed	1 s-1/30,000 s		It triggers the IVS rule when a target is detected and
Scanning System	Progressive	Auto Patrol	makes the camera link with the PTZ to rotate to the position of the target and patrol based on its presets
Min. Illumination	0.005 lux@F1.6 (Color, 30 IRE); 0.0005 lux@F1.6 (B/W, 30 IRE); 0 lux (illuminator on)	Active Deterrence	Red-blue light warning
Illumination Distance	100 m (328.08 ft) (IR); 50 m (164.04 ft) (White light)	Light Warning	Flash duration: 5 s–30 s Flash frequency: high, medium, low
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off	Sound Warning	Offers 11 types of sound alarms, and supports importing custom sound alarms.
Illuminator Number	2 (IR); 2 (Dual light fusion)	Video	
Lens		Video Compression	H.264H; H.264B; Smart H.265+; H.265; MJPEG (Sub Stream); Smart H.264+; H.264M
Focal Length	5 mm–125 mm	Streaming Capability	3 streams
Max. Aperture	F1.6-F3.6		4K (3840 × 2160); 4M (2560 × 1440); 3M (2048 ×
Field of View	H: 53.1°-3.4°; V: 30.4°-1.9°; D: 59.3°-3.9°	Resolution	1536); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Optical Zoom	25 ×		Main stream: 4K/4M/3M/1080p/1.3 M/720p@
Focus Control  Close Focus Distance	Auto; semi-auto; manual 0.1m-1.5 m (0.33 ft-4.92 ft)	Video Frame Rate	(1–25/30 fps) Sub stream 1: D1/CIF/VGA@(1–25/30 fps) Sub stream 2: 1080p/1.3 MP/720p@(1–25/30 fps)
Iris Control	Auto; manual	Bit Rate Control	CBR/VBR
	Detect Observe Recognize Identify	Video Bit Rate	H264: 128 Kbps–16,384 Kbps
DORI Distance	3310 m 1308 m 662 m 331 m		H265: 128 Kbps-11,776 Kbps
PTZ	(10859.58 ft) (4291.34 ft) (2171.92 ft) (1085.96 ft)	Day/Night	Auto (ICR); Color/B/W
	Pan: 0° to 360° endless;	BLC	Yes
Pan/Tilt Range	Tilt: –15° to +90°, auto flip 180°	WDR	DWDR
Manual Control Speed	Pan: 0.1°/s–200°/s; Tilt: 0.1°/s–120°/s	HLC	Yes
Preset Speed	Pan: 0.1°/s-240°/s; Tilt: 0.1°/s-200°/s	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Preset	300	Gain Control	Auto; manual
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 (EIS)
Idle Motion	Pattern; Preset; Scan; Tour	Defog	Electronic
Intelligence		Digital Zoom	16×
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving;	Image Rotation	180°
	parking detection; people gathering; linkage tracking	Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view; Multiple colors available

NETWORK PROTOCOL  NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos RTSP; ARP	S/N Ratio	≥ 55 dB			
Network  Network Port  RJ-45 (10/100 Base-T)  FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP, 802_1x; HTTPS; SNMP; TCP/IP; DDNS; UPR NPS; CNP; DDP; GMP; HTTP; SSL, DHCP; SMTP; OSS RTSP; ARP  Interoperability  ONVIF (Profile S & Profile G & Profile T); CGI; SDK; P2  Streaming Method  Unicast/Multicast  User/Host  20 (total bandwidth: 64 M)  Storage  Micro SD card (512 GB); FTP/SFTP; NAS  IE 9 and later versions; Chrome 41 and later versions; Firefox 50 and later versions; Safari 10 and later versions  Management Software  DMSS; DSS Pro  Mobile Client  OS; Android  Certification  Certification  Certification  Certification  Certification  Certification  1 channel (LINE IN, bare wire)  Audio Output  1 channel (LINE IN, bare wire)  Audio Output  1 channel (LINE OUT, bare wire; built-in speaker (mutually exclusive))  Alarm Input  2 (on-off value input: 0-5 VDC)  Alarm Output  1 channel  Alarm Linkage  Capture; recording; send email; preset; tour; pattern alarm digital output; audio; warning light  Motion/tampering detection; audio detection; network disconnection detection; P conflict detection; memory card state detection; memory space detection  Power  Power Supply  Power Consumption  Power Consumption  Power Consumption  Power Consumption  Alarm Ewent  Departing Humidity  40 °C to +65 °C (-40 °F to +149 °F)  Operating Humidity  49 5%  Protection  TVS 6000 V lightning proof; IP66; surge protection;	Audio				
Network Port       RJ-45 (10/100 Base-T)         Network Protocol       FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPDE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnf NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos RTSP; ARP         Interoperability       ONVIF (Profile S & Profile G & Profile T); CGI; SDK; P2         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 SO and later versions; Safari 10 and later versions; Safari 10 and later versions         Management Software       DMSS; DSS Pro         Mobile Client       IOS; Android         Certification       CE: ENS5032/ENS5024/ENS0130-4 ECC: Part15 subpart8, ANSI C63.4-2014         Port       Audio Input       1 channel (LINE IN), bare wire; built-in speaker (mutually exclusive)         Alarm Input       2 (on-off value input: 0-5 VDC)         Alarm Output       1 channel         Alarm Linkage       Capture; recording; send email; preset; tour; pattern alarm digital output; audio; warning light         Alarm Event       Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory space detection         Power Supply       12 VDC; 3 A ± 10%; PoE+ (802.3at)         Poe+ (802.3at)       Poe+ (802.3at)	Audio Compression				
Network Protocol  FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTP5; SMMP; TCP/IP; DONS; UPIN NF5; ICMP; UDP; ISMMP; HTTP; SSt; DHCP; SMTP; Qos RTSP; ARP  Interoperability  ONVIF (Profile S & Profile G & Profile T); CGI; SDK; P2  Streaming Method  Unicast/Multicast  User/Host  20 (total bandwidth: 64 M)  Storage  Micro SD card (512 GB); FTP/SFTP; NAS  IE 9 and later versions; Chrome 41 and later versions; Safari 10 and later versions; Safari 10 and later versions; Safari 10 and later versions  Management Software  DMS5; DSS Pro  Mobile Client  iOS; Android  Certification  Certification  Certifications  CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014  Port  Audio Input  1 channel (LINE IN, bare wire)  Alarm Input  2 (on-off value input: 0-5 VDC)  Alarm Output  1 channel  Capture; recording; send email; preset; tour; pattern alarm digital output; audio; warning light  Motion/tampering detection; audio detection; network disconnection detection; peromitic detection; memory card state detection; memory space detection  Power  Power  Power Supply  12 VDC; 3 A ± 10%; PoE+(802.3at)  PoE: Basic: 8 W; Max: 16 W (white light + heated glass + PTZ on + alar + red and blue light flashing)  POE: Basic: 9 W; Max: 17 W (white light + heated glass + PTZ on + alar + red and blue light flashing)  POE: Basic: 9 W; Max: 17 W (white light + heated glass + PTZ on + alar + red and blue light flashing)  POE: Basic: 9 W; Max: 17 W (white light + heated glass + PTZ on + alar + red and blue light flashing)  POE: Basic: 9 W; Max: 17 W (white light + heated glass + PTZ on + alar + red and blue light flashing)  POE: Basic: 9 W; Max: 17 W (white light + heated glass + PTZ on + alar + red and blue light flashing)  POE: Basic: 9 W; Max: 17 W (white light + poet of the profile of t	Network				
Network Protocol       NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnf, NFS; ICMP; UDP; IGMP; HTTP; SSI; DHCP; SMTP; Qos RTSP; ARP         Interoperability       ONVIF (Profile S & Profile G & Profile T); CGI; SDK; P2         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; Safari 10 and later versions; Safari 10 and later versions; Safari 10 and later versions;         Management Software       DMSS; DSS Pro         Mobile Client       IOS; Android         Certification       CE: ENS5032/ENS5024/ENS0130-4 FCC: Part15 subpartB, ANSI C63.4-2014         Port       Audio Input         Audio Output       1 channel (LINE IN, bare wire)         Audio Output       1 channel (LINE IN, bare wire)         Alarm Input       2 (on-off value input: 0-5 VDC)         Alarm Output       1 channel         Alarm Linkage       Capture; recording; send email; preset; tour; pattern alarm digital output; audio; warning light         Alarm Event       Motion/tampering detection; audio detection; network disconnection detection; memory space detection; memory card state detection; memory space detection         Power Con	Network Port	RJ-45 (10/100 Base-T)			
Streaming Method  Unicast/Multicast  20 (total bandwidth: 64 M)  Storage  Micro SD card (512 GB); FTP/SFTP; NAS  IE 9 and later versions; Chrome 41 and later versions; Safari 10 and later versions  Management Software  DMSS; DSS Pro  Mobile Client  Certification  Certification  Certifications  CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014  Port  Audio Input  1 channel (LINE IN, bare wire)  Audio Output  1 channel (LINE OUT, bare wire; built-in speaker (mutually exclusive))  Alarm Input  2 (on-off value input: 0−5 VDC)  Alarm Output  1 channel  Alarm Event  Motion/tampering detection; audio detection; network disconnection detection; iP conflict detection; memory card state detection; memory space detection  Power  Power Consumption  Power Consumption  Environment  Operating Temperature  -40 °C to +65 °C (-40 °F to +149 °F)  Operating Humidity  2 (50 on V lightning proof; IP66; surge protection;	Network Protocol	NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnF NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos			
User/Host  20 (total bandwidth: 64 M)  Storage  Micro SD card (512 GB); FTP/SFTP; NAS  IE 9 and later versions; Chrome 41 and later versions; Firefox 50 and later versions; Safari 10 and later versions  Management Software  DMSS; DSS Pro  Mobile Client  Certification  Certification  Certifications  CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014  Port  Audio Input  1 channel (LINE IN, bare wire)  Alarm Input  2 (on-off value input: 0-5 VDC)  Alarm Output  1 channel  Alarm Linkage  Capture; recording; send email; preset; tour; pattern alarm digital output; audio, warning light  Motion/tampering detection; audio detection; network disconnection detection; per conflict detection; memory card state detection; memory space detection  Power  Power Supply  12 VDC, 3 A ± 10%; PoE+ (802.3at)  12 VDC: Basic: 8 W; Max: 16 W (white light + heated glass + PTZ on + alar + red and blue light flashing) POE: Basic: 9 W; Max: 17 W (white light + heated glass + PTZ on + alar + red and blue light flashing)  Environment  Operating Temperature  -40 °C to +65 °C (-40 °F to +149 °F)  Operating Humidity  595%  Protection  TVS 6000 V lightning proof; IP66; surge protection;	Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI; SDK; P2			
Browser   If 9 and later versions;   Chrome 41 and later versions;   Chrome 41 and later versions;   Safari 10 and later versions;   Safari 10 and later versions   Safari 10 and later versions;   Safari 10 and later versions   Management Software   DMSS; DSS Pro	Streaming Method	Unicast/Multicast			
Browser    IE 9 and later versions; Chrome 41 and later versions; Safari 10 and later versions; Safari 10 and later versions; Safari 10 and later versions   Management Software   DMSS; DSS Pro	User/Host	20 (total bandwidth: 64 M)			
Browser       Chrome 41 and later versions; Safari 10 and later versions; Safari 10 and later versions; Safari 10 and later versions         Management Software       DMSS; DSS Pro         Mobile Client       iOS; Android         Certification       CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014         Port       Audio Input         Audio Input       1 channel (LINE IN, bare wire)         Audio Output       1 channel (LINE OUT, bare wire; built-in speaker (mutually exclusive))         Alarm Input       2 (on-off value input: 0-5 VDC)         Alarm Output       1 channel         Alarm Linkage       Capture; recording; send email; preset; tour; pattern alarm digital output; audio; warning light         Motion/tampering detection; audio detection; network disconnection detection; iP conflict detection; memory card state detection; memory space detection         Power       Power         Power Supply       12 VDC, 3 A ± 10%; PoE+ (802.3at)         PoE: Basic: 8 W; Max: 15 W (white light + heated glass + PTZ on + alar + red and blue light flashing)         PoE: Basic: 9 W; Max: 17 W (white light + heated glass + PTZ on + alar + red and blue light flashing)         Environment         Operating Temperature       -40 °C to +65 °C (-40 °F to +149 °F)         Operating Humidity       ≤ 95%         Protection	Storage	Micro SD card (512 GB); FTP/SFTP; NAS			
Mobile Client  Certification  Certifications  CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014  Port  Audio Input  1 channel (LINE IN, bare wire)  Audio Output  1 channel (LINE OUT, bare wire; built-in speaker (mutually exclusive))  Alarm Input  2 (on-off value input: 0−5 VDC)  Alarm Output  1 channel  Capture; recording; send email; preset; tour; pattern alarm digital output; audio; warning light  Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection  Power  Power Supply  12 VDC; 3 A ± 10%; PoE+ (802.3at)  12 VDC: Basic: 8 W; Max: 16 W (white light + heated glass + PTZ on + alar + red and blue light flashing) PoE: Basic: 9 W; Max: 17 W (white light + heated glass + PTZ on + alar + red and blue light flashing)  Environment  Operating Temperature  -40 °C to +65 °C (-40 °F to +149 °F)  Operating Humidity  ≤ 95%  TVS 6000 V lightning proof; IP66; surge protection;	Browser	Chrome 41 and later versions; Firefox 50 and later versions;			
Certification  Certifications  CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014  Port  Audio Input  1 channel (LINE IN, bare wire)  1 channel (LINE OUT, bare wire; built-in speaker (mutually exclusive))  Alarm Input  2 (on-off value input: 0−5 VDC)  Alarm Output  1 channel  Capture; recording; send email; preset; tour; pattern alarm digital output; audio; warning light  Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection  Power  Power Supply  12 VDC; Basic: 8 W; Max: 16 W (white light + heated glass + PTZ on + alar + red and blue light flashing) POE: Basic: 9 W; Max: 17 W (white light + heated glass + PTZ on + alar + red and blue light flashing)  Environment  Operating Temperature  -40 °C to +65 °C (-40 °F to +149 °F)  Operating Humidity  ≤ 95%  TVS 6000 V lightning proof; IP66; surge protection;	Management Software	DMSS; DSS Pro			
Certifications  CE: EN55032/EN55024/EN550130-4 FCC: Part15 subpartB, ANSI C63.4-2014  Port  Audio Input  1 channel (LINE IN, bare wire)  1 channel (LINE OUT, bare wire; built-in speaker (mutually exclusive))  Alarm Input  2 (on-off value input: 0−5 VDC)  Alarm Output  1 channel  Capture; recording; send email; preset; tour; pattern alarm digital output; audio; warning light  Motion/tampering detection; audio detection; network disconnection detection; percording warning light  Alarm Event  Power  Power  Power Supply  12 VDC, 3 A ± 10%; PoE+ (802.3at)  12 VDC: Basic: 8 W; Max: 16 W (white light + heated glass + PTZ on + alar + red and blue light flashing) PoE: Basic: 9 W; Max: 17 W (white light + heated glass + PTZ on + alar + red and blue light flashing)  Environment  Operating Temperature  -40 °C to +65 °C (-40 °F to +149 °F)  Operating Humidity  ≤ 95%  Protection  TVS 6000 V lightning proof; IP66; surge protection;	Mobile Client	iOS; Android			
Port  Audio Input  1 channel (LINE IN, bare wire)  1 channel (LINE OUT, bare wire; built-in speaker (mutually exclusive))  Alarm Input  2 (on-off value input: 0−5 VDC)  Alarm Output  1 channel  Capture; recording; send email; preset; tour; pattern alarm digital output; audio; warning light  Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection  Power  Power Supply  12 VDC, 3 A ± 10%; PoE+ (802.3at)  12 VDC: Basic: 8 W; Max: 16 W (white light + heated glass + PTZ on + alar + red and blue light flashing)  POE: Basic: 9 W; Max: 17 W (white light + heated glass + PTZ on + alar + red and blue light flashing)  Environment  Operating Temperature  -40 °C to +65 °C (-40 °F to +149 °F)  Operating Humidity  ≥ 95%  Protection  TVS 6000 V lightning proof; IP66; surge protection;	Certification				
Audio Input  1 channel (LINE IN, bare wire)  1 channel (LINE OUT, bare wire; built-in speaker (mutually exclusive))  Alarm Input  2 (on-off value input: 0−5 VDC)  Alarm Output  1 channel  Capture; recording; send email; preset; tour; pattern alarm digital output; audio; warning light  Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection  Power  Power Supply  12 VDC, 3 A ± 10%; PoE+ (802.3at)  12 VDC: Basic: 8 W; Max: 16 W (white light + heated glass + PTZ on + alar + red and blue light flashing) POE: Basic: 9 W; Max: 17 W (white light + heated glass + PTZ on + alar + red and blue light flashing)  Environment  Operating Temperature  -40 °C to +65 °C (-40 °F to +149 °F)  Operating Humidity  ≤ 95%  Protection  TVS 6000 V lightning proof; IP66; surge protection;	Certifications				
Audio Output  1 channel (LINE OUT,bare wire;built-in speaker (mutually exclusive))  Alarm Input  2 (on-off value input: 0−5 VDC)  Alarm Output  1 channel  Capture; recording; send email; preset; tour; pattern alarm digital output; audio; warning light  Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection  Power  Power Supply  12 VDC, 3 A ± 10%; PoE+ (802.3at)  12 VDC: Basic: 8 W; Max: 16 W (white light + heated glass + PTZ on + alar + red and blue light flashing) POE: Basic: 9 W; Max: 17 W (white light + heated glass + PTZ on + alar + red and blue light flashing)  Environment  Operating Temperature  -40 °C to +65 °C (−40 °F to +149 °F)  Operating Humidity  ≤ 95%  Protection  TVS 6000 V lightning proof; IP66; surge protection;	Port				
Alarm Input  2 (on-off value input: 0–5 VDC)  Alarm Output  1 channel  Capture; recording; send email; preset; tour; pattern alarm digital output; audio; warning light  Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection  Power  Power Supply  12 VDC, 3 A ± 10%; PoE+ (802.3at)  12 VDC: Basic: 8 W; Max: 16 W (white light + heated glass + PTZ on + alar + red and blue light flashing)  POE: Basic: 9 W; Max: 17 W (white light + heated glass + PTZ on + alar + red and blue light flashing)  Environment  Operating Temperature  -40 °C to +65 °C (-40 °F to +149 °F)  Operating Humidity  ≤ 95%  TVS 6000 V lightning proof; IP66; surge protection;	Audio Input	1 channel (LINE IN, bare wire)			
Alarm Output  1 channel  Capture; recording; send email; preset; tour; pattern alarm digital output; audio; warning light  Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection  Power  Power Supply  12 VDC, 3 A ± 10%; PoE+ (802.3at)  12 VDC: Basic: 8 W; Max: 16 W (white light + heated glass + PTZ on + alar + red and blue light flashing) POE: Basic: 9 W; Max: 17 W (white light + heated glass + PTZ on + alar + red and blue light flashing)  Environment  Operating Temperature  -40 °C to +65 °C (-40 °F to +149 °F)  Operating Humidity  ≤ 95%  TVS 6000 V lightning proof; IP66; surge protection;	Audio Output				
Alarm Linkage  Capture; recording; send email; preset; tour; pattern alarm digital output; audio; warning light  Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection  Power  Power Supply  12 VDC, 3 A ± 10%; PoE+ (802.3at)  12 VDC: Basic: 8 W; Max: 16 W (white light + heated glass + PTZ on + alar + red and blue light flashing) POE: Basic: 9 W; Max: 17 W (white light + heated glass + PTZ on + alar + red and blue light flashing)  Environment  Operating Temperature  -40 °C to +65 °C (-40 °F to +149 °F)  Operating Humidity  ≤ 95%  TVS 6000 V lightning proof; IP66; surge protection;	Alarm Input	2 (on-off value input: 0–5 VDC)			
Alarm Linkage       alarm digital output; audio; warning light         Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection         Power       12 VDC, 3 A ± 10%; PoE+ (802.3at)         Power Supply       12 VDC: Basic: 8 W; Max: 16 W (white light + heated glass + PTZ on + alar + red and blue light flashing)         POE: Basic: 9 W; Max: 17 W (white light + heated glass + PTZ on + alar + red and blue light flashing)         Environment         Operating Temperature       -40 °C to +65 °C (-40 °F to +149 °F)         Operating Humidity       ≤ 95%         Protection       TVS 6000 V lightning proof; IP66; surge protection;	Alarm Output	1 channel			
Alarm Event       network disconnection detection; IP conflict detection; memory space detection         Power       12 VDC, 3 A ± 10%; PoE+ (802.3at)         Power Supply       12 VDC: Basic: 8 W; Max: 16 W (white light + heated glass + PTZ on + alar + red and blue light flashing)         PoE: Basic: 9 W; Max: 17 W (white light + heated glass + PTZ on + alar + red and blue light flashing)         Environment         Operating Temperature       -40 °C to +65 °C (-40 °F to +149 °F)         Operating Humidity       ≤ 95%         Protection       TVS 6000 V lightning proof; IP66; surge protection;	Alarm Linkage				
Power Supply  12 VDC, 3 A ± 10%; PoE+ (802.3at)  12 VDC: Basic: 8 W; Max: 16 W (white light + heated glass + PTZ on + alar + red and blue light flashing) POE: Basic: 9 W; Max: 17 W (white light + heated glass + PTZ on + alar + red and blue light flashing)  Environment  Operating Temperature  -40 °C to +65 °C (-40 °F to +149 °F)  Operating Humidity  ≤ 95%  TVS 6000 V lightning proof; IP66; surge protection;	Alarm Event	network disconnection detection; IP conflict detection; memory card state detection; memory			
PoWer Supply  PoE+ (802.3at)  12 VDC: Basic: 8 W; Max: 16 W (white light + heated glass + PTZ on + alar + red and blue light flashing) POE: Basic: 9 W; Max: 17 W (white light + heated glass + PTZ on + alar + red and blue light flashing)  Environment  Operating Temperature  -40 °C to +65 °C (-40 °F to +149 °F)  Operating Humidity  ≤ 95%  TVS 6000 V lightning proof; IP66; surge protection;	Power				
Basic: 8 W; Max: 16 W (white light + heated glass + PTZ on + alar + red and blue light flashing) POE: Basic: 9 W; Max: 17 W (white light + heated glass + PTZ on + alar + red and blue light flashing)  Environment  Operating Temperature	Power Supply				
Environment  Operating Temperature  -40 °C to +65 °C (-40 °F to +149 °F)  Operating Humidity ≤ 95%  TVS 6000 V lightning proof; IP66; surge protection;	Power Consumption	Basic: 8 W; Max: 16 W (white light + heated glass + PTZ on + alar + red and blue light flashing) POE: Basic: 9 W; Max: 17 W (white light + heated glass + PTZ on + alar			
Operating Humidity ≤ 95%  TVS 6000 V lightning proof; IP66; surge protection;	Environment				
Protection TVS 6000 V lightning proof; IP66; surge protection;	Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)			
	Operating Humidity	≤95%			
	Protection				

## Structure

Product Dimensions	269.9 mm × Φ160.0 mm (10.63" × Φ6.30")
Net Weight	2.6 kg (5.73 lb)
Gross Weight	4 kg (8.82 lb)

Ordering Information				
Туре	Model	Description		
8MP WizSense PTZ Camera	DH-SD4E825GB-HNR- A-PV1	8MP 25x Starlight IR WizSense Network PTZ Camera		
	SD4E825GB-HNR-A-PV1	8MP 25x Starlight IR WizSense Network PTZ Camera		
	PFB305W	Wall Mount Bracket		
	DC12V/3A	Power Adapter		
	PFA126	Mount Adapter		
	PFA111	Mount Adapter		
Accessories	PFB300C	Ceiling Mount Bracket		
Accessuries	PFB301C	Ceiling Mount Bracket		
	PFA151	Corner Mount Bracket		
	PFA150	Pole Mount Bracket		
	PFB303S	Parapet Mount Bracket		
	PFB301S-E	Plane Mount Bracket		

#### **Accessories**

#### Included:



PFB305W Wall Mount Bracket

#### Optional:



DC12V/3A Power Adapter



PFA126 Mount Adapter



PFA111 Junction Box



PFB300C Ceiling Mount Bracket



PFB301C Ceiling Mount Bracket



PFA151 Corner Mount Bracket



Pole Mount Bracket



PFB303S Parapet Mount Bracket



PFB301S-E Plane Mount Bracket





