

# DH-SD6AD445GA-HNV-IR

4MP 45x Starlight Laser Network PTZ Camera





Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, 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 industry verticals.

#### **System Overview**

With its powerful optical zoom and accurate pan, tilt capabilities, the PTZ camera provides 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**

## Wide Dynamic Range

The camera produces vivid images, even in high-contrast lighting conditions, by using industry-leading wide dynamic range (WDR) technology. For scenes that quickly alternate between bright and low lighting, WDR adjusts to fully capture both the bright and dark areas of a scene, producing superior quality videos.

- · 1/2.8" 4Megapixel STARVIS™ CMOS.
- · 45x optical zoom.
- · Starlight technology.
- Max. 25/30 fps@2560 × 1440.
- IR distance up to 300 m.
- · Auto tracking 3.0.
- · Perimeter protection. PPE Detection (Optional)
- Face detection
- · Video Metadata.
- SMD 4.0.
- IP67.
- · Envirionmental Protection : Fan







#### **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.

#### **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.

Technical Specification						Intelligence	
Camera							Motor vehicle, non-motor vehicle, face, and human body
Image Sensor	1/2.8" CMOS					Video Metadata	detection; optimization; capturing pictures; uploading high-quality face snapshots. Attribute extraction of motor vehicle is also supported, where 10 attributes can be
Pixel	4 MP						detected.
Max. Resolution	2560 (H) × 1440 (V)					IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm classification; linkage tracking
ROM	4 GB						
RAM	1 GB					Face Detection	Supports face detection, optimization, capturing pictures, uploading high-quality face snapshots and enhancing face images. Attribute Extraction is also 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.
Electronic Shutter Speed	1 s-1/30,000 s						
Scanning System	Progressive						
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR/laser light on)						
Illumination Distance	300 m (984.25 ft)					Auto Tracking	Yes
Illuminator On/Off Control	Zoom prio; Manual; Auto; Off					SMD	SMD4.0
Illuminator Number	7 (IR)					Quick Pick	Yes
Wiper	Wiper					Video	
Lens						Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG (Sub Stream); Smart H.264+
Focal Length	3.95 mm–177.7 mm					Streaming Capability	3 streams
Max. Aperture	F1.6-F4.95						4M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296);
Field of View	H: 63.2°-1.8°; V: 37.6°-1.1°; D: 70.8°-2.1°					Resolution	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	45×						Main stream: 4M/3M/1080p/1.3M/720p@(1-25/30 fps)
Focus Control  Close Focus Distance	Auto; semi-auto; manual					Video Frame Rate	Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: 1080p/1.3M/720p@(1-25/30 fps)
	0.1 m-1 m (0.33 ft-3.28 ft)					Bit Rate Control	CBR/VBR
Iris Control	Auto; manual; iris prio  Detect Observe Recognize Identify					Video Bit Rate	H.264: 96 kbps-14,848 kbps H.265: 38 kbps-8,960 kbps
DORI Distance	3,555 m	1,404.2 m	711 m	355.5 m		Day/Night	Color; B/W; Auto; Electronic
	(11,663.39 ft)	(4,606.96 ft)	(2,332.68 ft)	(1,166.34 ft)		BLC	Yes
PTZ						WDR	120 dB
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –20° to +90°, auto flip 180°					HLC	Yes
Manual Control Speed	Pan: 0.1°/s-200°/s Tilt: 0.1°/s-120°/s					White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Preset Speed	Pan: 240°/s; Tilt: 200°/s					Gain Control	Auto; manual; gain prio
Preset	300					Noise Reduction	2D NR; 3D NR
Tour	8 (up to 32 presets per tour)					Motion Detection	Yes
Pattern	5					Region of Interest (RoI)	Yes
Scan	5					Image Stabilization	EIS
Power-off Memory	Yes					Defog	Electronic
Idle Motion	Pattern; Preset; Scan; Tour					Digital Zoom	16×
PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)					Image Rotation	180°
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Privacy Masking withing to 8 areas in the same view; multiple colors available  S/N Ratio						
Audio Compression PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723  Network  Network Port RJ-45 (10/100 Base-T)  FTP, RTMP; IPV6; Bonjour; IPV4; DNS; RTCP; PPD6E; NTP; RTP; 802.1x; HTTP5; SNMP; TCP/IP*; DDNS; UPNP; MSS; ICMP; MTP; RTP; 802.1x; HTTP5; SNMP; TCP/IP*; DDNS; UPNP; MSS; ICMP; MRP; MSQ; Lx; HTTP5; SNMP; TCP/IP*; DDNS; UPNP; MSS; ICMP; MRP  Interoperability CGI; SDK; ONVIF (Profile S&G&T)  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 52 and later versions  Management Software DMSS; DSS Pro  Mobile Client IOS; Android  Certification  Certification  Certification  *CE: E234884-A6503-IT-1 and 4789976478-2.4-1 FCC: 4790130386-1"  Port  RS-485 1 (baud rate: 1200 bps-9600 bps)  Audio Input 1 channel (LINE IN, bare wire)  Audio Output 1 channel (LINE OUT, bare wire)  Alarm Linkage Capture; Recording; send email; preset; tour; pattern; alarm digital input  Alarm Event disconnection detection; iP conflict detection; nemory card state detection; memory space detection  Power  Power Supply H-Poil Sasic: 13 W Max: 27 W (illuminator+PTZ)  Environment  Operating Humidity \$95%  Protection TVS 6000 V lightning proof; surge protection; voltage transient protection  Structure  Product Dimensions 382 mm x 0239.8 mm (15.04" x 09.44")  Net Weight 6.8 kg (14.99 lb)	Privacy Masking	view;				
Audio Compression  PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723  Network  Network Prot R.45 (10/100 Base-T)  FTP; RTMP; IPV6; Bonjour; IPV4; DNS; RTCP; PPP0E; NTP; RTP; B02.1x; HTTPS; SNMP; TCP/IP; DONS; UPRP; NFS; ICMP; UPP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP  Interoperability CG; SDK; ONVIF (Profile S&G&T)  Streaming Method Unicast/Multicast  User/Host 20 (total bandwidth: 64 M)  Storage Micro SD card (5.12 GB); FTP/SFTP; NAS  IE 9 and later versions Chrome 41 and later versions Chrome 41 and later versions Safari 10 and later versions  Management Software DMS5; DSS Pro  Mobile Client iOS; Android  Certification  Certification  Certification  Certification  Port  RS-485 1 (baud rate: 1200 bps-9600 bps)  Audio Input 1 channel (LINE IN, bare wire)  Audio Output 1 channel (LINE OUT, bare wire)  Alarm Linkage Capture; Recording; send email; preset; tour; pattern; alarm digital input  Motion/tampering detection; audio detection; network disconnection detection; per conflict detection; memory card state detection; memory space detection  Power  Power Supply Hope Above Consumption Basic: 13 W Max: 27 W (Illuminator+PTZ)  Environment  Operating Temperature -40 °C to +70 °C (-40 °F to +158 °F)  Operating Humidity < 95%  Protection TVS 6000 V lightning proof; surge protection; voltage transient protection  Structure  Product Dimensions 382 mm × 0239.8 mm (15.04" × 09.44")  Net Weight 6.8 kg (14.99 lb)	S/N Ratio	≥ 55 dB				
Network  Network Port  R1-45 (10/100 Base-T)  FTP; RTMP; IPV6; Bonjour; IPV4; DNS; RTCP; PPP0E; NTP; RTP; RD2.1x; HTTPs; SNMP; TCP/IP; DONS; UPNP; NFS; ICMP; UPNP; IGMP; HTTP; SSL; DHCP; SMTP; CQos; RTSP; ARP  Interoperability  CGI; SDK; ONVIF (Profile S&G&T)  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 52 and later versions Sfirefox 52 and later versions  Management Software  DMSS;DSS Pro  Mobile Client  Certification  Certification  Certifications  "CE: E234884-A6503-IT-1 and 4789976478-2.4-1 ECC: 4790130386-1"  Port  RS-485  1 (baud rate: 1200 bps-9600 bps)  Audio Input  1 channel (LINE IN, bare wire)  Alarm Linkage  Capture; Recording; send email; preset; tour; pattern; alarm digital input  Motion/tampering detection; audio detection; network disconnection detection; iP conflict detection; memory card state detection; iP conflict detection; memory card state detection; premory space detection  Power  Power Consumption  Basic: 13 W Max: 27 W (illuminator+PTZ)  Environment  Operating Temperature  -40 °C to +70 °C (-40 °F to +158 °F)  Operating Humidity  595%  Protection  TVS 6000 V lightning proof; surge protection; voltage transient protection  Structure  Product Dimensions  382 mm × Ф239.8 mm (15.04" × Ф9.44")  Net Weight  6.8 kg (14.99 lb)	Audio					
Network Port  RJ-45 (10/100 Base-T)  FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPDE; NTP; RTP; 802.1x; HTTP5; SMMP; TCP/IP; DDNS; UPAP; NTS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP  Interoperability  CGI; SDK; ONVIF (Profile S&G&T)  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 52 and later versions Safari 10 and later versions Management Software  DMSs;DSS Pro  Mobile Client  Certification  Certification  Certifications  "CE: E234884-A6503-IT-1 and 4789976478-2.4-1 FCC: 4790130386-1"  Port  RS-485  1 (baud rate: 1200 bps−9600 bps)  Audio Input  1 channel (LINE IN, bare wire)  Audio Output  1 channel (LINE OUT,bare wire)  Alarm Linkage  Alarm Linkage  Alarm Event  Motion/tampering detection; undio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection  Power  Power Supply  Assic: 13 W Max: 27 W (Illuminator+PTZ)  Environment  Operating Temperature  -40 "C to +70 "C (-40 "F to +158 "F)  Operating Humidity  ≤ 95%  Protection  TVS 6000 V lightning proof; surge protection; voltage transient protection  Structure  Product Dimensions  382 mm × Φ239.8 mm (15.04" × Φ9.44")  Net Weight  Net Weight	Audio Compression					
FTP, RTMP, IPV6; Bonjour; IPV4; DNS; RTCP, PPP0E; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPNP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP  Interoperability	Network					
Network Protocol       RTP, 802.1x; HTTPS; SMMP; TCP/IP; DDNS; UPPP; NFS; ICMP; UDP; IGMP; HTTP; SSI; DHCP; SMTP; Qos; RTSP; ARP         Interoperability       CGI; SDK; ONVIF (Profile S&G&T)         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         Management Software       DMSS; DSS Pro         Mobile Client       IOS; Android         Certification       "CE: E234884-A6503-IT-1 and 4789976478-2.4-1 FCC: 4790130386-1"         Port       FCC: 4790130386-1"         RS-485       1 (baud rate: 1200 bps-9600 bps)         Audio Input       1 channel (LINE IN, bare wire)         Audio Output       1 channel (LINE OUT, bare wire)         Alarm Linkage       Capture; Recording; send email; preset; tour; pattern; alarm digital input         Alarm Event       disconnection detection; permory card state detection; memory space detection         Power       Basic: 13 W Max: 27 W (illuminator+PTZ)         Environment       -40 °C to +70 °C (-40 °F to +158 °F)         Operating Temperature       -40 °C to +70 °C (-40 °F to +158 °F)         Operating Humidity       \$95%         Product Dimensions	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 Safari 10 and later versions  Management Software  DMSS;DSS Pro  Mobile Client  Certification  Certification  Certifications  "CE: E234884-A6503-IT-1 and 4789976478-2.4-1 FCC: 4790130386-1"  Port  RS-485  1 (baud rate: 1200 bps-9600 bps)  Audio Input  1 channel (LINE IN, bare wire)  Audio Output  1 channel (LINE OUT,bare wire)  Alarm Linkage  Capture; Recording; send email; preset; tour; pattern; alarm digital input  Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection  Power  Power Supply  Hi-PoE  Power Consumption  Basic: 13 W Max: 27 W (illuminator+PTZ)  Environment  Operating Temperature  -40 °C to +70 °C (-40 °F to +158 °F)  Operating Humidity  ≤ 95%  Protection  TVS 6000 V lightning proof; surge protection; voltage transient protection  Structure  Product Dimensions  382 mm × Ф239.8 mm (15.04" × Ф9.44")  Net Weight  Net Weight	Network Protocol	RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP;				
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  DMSS;DSS Pro  Mobile Client  iOS;Android  Certification  Certification  Certifications  "CE: E234884-A6503-IT-1 and 4789976478-2.4-1 FCC: 4790130386-1"  Port  RS-485  1 (baud rate: 1200 bps-9600 bps)  Audio Input  1 channel (LINE IN, bare wire)  Alarm Linkage  Capture; Recording; send email; preset; tour; pattern; alarm digital input  Alarm Event  Motion/tampering detection; audio detection; network disconnection detection; Pconflict detection; memory card state detection; memory space detection  Power  Power Supply  36 VDC, 2.23 A ± 25% HI-PoE  Power Consumption  Basic: 13 W Max: 27 W (illuminator+PTZ)  Environment  Operating Temperature  -40 °C to +70 °C (-40 °F to +158 °F)  Operating Humidity  \$ 95%  Protection  TVS 6000 V lightning proof; surge protection; voltage transient protection  Structure  Product Dimensions  382 mm × Ф239.8 mm (15.04" × Ф9.44")  Net Weight  6.8 kg (14.99 lb)	Interoperability	CGI; SDK; ONVIF (Profile S&G&T)				
Storage  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 Management Software  DMSS;DSS Pro  Mobile Client  iOS;Android  Certification  Certification  Certifications  "CE: £234884-A6503-IT-1 and 4789976478-2.4-1 FCC: 4790130386-1"  Port  RS-485  1 (baud rate: 1200 bps-9600 bps)  Audio Input  1 channel (LINE IN, bare wire)  Audio Output  1 channel (LINE OUT,bare wire)  Alarm Linkage  Capture; Recording; 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  Power Supply  36 VDC, 2.23 A ± 25% HI-PoE  Power Consumption  Basic: 13 W Max: 27 W (illuminator+PTZ)  Environment  Operating Temperature  -40 *C to +70 *C (-40 *F to +158 *F)  Operating Humidity  ≤ 95%  TVS 6000 V lightning proof; surge protection; voltage transient protection  Structure  Product Dimensions  382 mm × Ф239.8 mm (15.04" × Ф9.44")  Net Weight  6.8 kg (14.99 lb)	Streaming Method	Unicast/Multicast				
Browser    E 9 and later versions   Chrome 41 and later versions   Firefox 52 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 Firefox 52 and later versions Safari 10 and later versions         Management Software       DMSS;DSS Pro         Mobile Client       iOS;Android         Certification         "CE: £234884-A6503-IT-1 and 4789976478-2.4-1 FCC: 4790130386-1"         Port         RS-485       1 (baud rate: 1200 bps-9600 bps)         Audio Input       1 channel (LINE IN, bare wire)         Audio Output       1 channel (LINE OUT,bare wire)         Alarm Linkage       Capture; Recording; 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         Power Supply       36 VDC, 2.23 A ± 25% H-PoE         Power Consumption       Basic: 13 W Max: 27 W (illuminator+PTZ)         Environment         Operating Temperature       -40 °C to +70 °C (-40 °F to +158 °F)         Operating Humidity       ≤ 95%         Protection       TVS 6000 V lightning proof; surge protection; voltage transient protection         Structure         Product Dimensions       382 mm × Φ239.8 mm (15.04" × Φ9.44")         Net Weight       6.8 kg (14.99 lb) <td>Storage</td> <td>Micro SD card (512 GB); FTP/SFTP; NAS</td>	Storage	Micro SD card (512 GB); FTP/SFTP; NAS				
Mobile Client  Certification  Certifications  "CE: E234884-A6503-IT-1 and 4789976478-2.4-1 FCC: 4790130386-1"  Port  RS-485  1 (baud rate: 1200 bps-9600 bps)  Audio Input  1 channel (LINE IN, bare wire)  Alarm Linkage  Capture; Recording; send email; preset; tour; pattern; alarm digital input  Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection  Power  Power Supply  36 VDC, 2.23 A ± 25% HI-PoE  Power Consumption  Basic: 13 W Max: 27 W (illuminator+PTZ)  Environment  Operating Temperature  -40 °C to +70 °C (-40 °F to +158 °F)  Operating Humidity  ≤ 95%  Protection  TVS 6000 V lightning proof; surge protection; voltage transient protection  Structure  Product Dimensions  382 mm × Ф239.8 mm (15.04" × Ф9.44")  Net Weight  6.8 kg (14.99 lb)	Browser	Chrome 41 and later versions Firefox 52 and later versions				
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Certifications "CE: E234884-A6503-IT-1 and 4789976478-2.4-1   POrt FCC: 4790130386-1"   RS-485 1 (baud rate: 1200 bps−9600 bps)   Audio Input 1 channel (LINE IN, bare wire)   Audio Output 1 channel (LINE OUT,bare wire)   Alarm Linkage Capture; Recording; 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 36 VDC, 2.23 A ± 25% HI-PoE   Power Consumption Basic: 13 W Max: 27 W (illuminator+PTZ)   Environment -40 °C to +70 °C (-40 °F to +158 °F)   Operating Temperature -40 °C to +70 °C (-40 °F to +158 °F)   Operating Humidity ≤ 95%   Protection TVS 6000 V lightning proof; surge protection; voltage transient protection   Structure Product Dimensions 382 mm × Φ239.8 mm (15.04" × Φ9.44")   Net Weight 6.8 kg (14.99 lb)	Mobile Client	iOS;Android				
Port  RS-485	Certification					
RS-485 1 (baud rate: 1200 bps−9600 bps)  Audio Input 1 channel (LINE IN, bare wire)  Audio Output 1 channel (LINE OUT,bare wire)  Alarm Linkage Capture; Recording; send email; preset; tour; pattern; alarm digital input  Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection  Power  Power Supply 36 VDC, 2.23 A ± 25%  HI-PoE  Power Consumption Basic: 13 W Max: 27 W (illuminator+PTZ)  Environment  Operating Temperature −40 °C to +70 °C (−40 °F to +158 °F)  Operating Humidity ≤ 95%  Protection TVS 6000 V lightning proof; surge protection; voltage transient protection  Structure  Product Dimensions 382 mm × Φ239.8 mm (15.04" × Φ9.44")  Net Weight 6.8 kg (14.99 lb)	Certifications					
Audio Input  1 channel (LINE IN, bare wire)  Audio Output  1 channel (LINE OUT, bare wire)  Alarm Linkage  Capture; Recording; send email; preset; tour; pattern; alarm digital input  Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection  Power  Power Supply  36 VDC, 2.23 A ± 25% HI-PoE  Power Consumption  Basic: 13 W Max: 27 W (illuminator+PTZ)  Environment  Operating Temperature  -40 °C to +70 °C (-40 °F to +158 °F)  Operating Humidity  ≤ 95%  Protection  TVS 6000 V lightning proof; surge protection; voltage transient protection  Structure  Product Dimensions  382 mm × Ф239.8 mm (15.04" × Ф9.44")  Net Weight  6.8 kg (14.99 lb)	Port					
Audio Output       1 channel (LINE OUT,bare wire)         Alarm Linkage       Capture; Recording; 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       36 VDC, 2.23 A ± 25% HI-PoE         Power Consumption       Basic: 13 W Max: 27 W (illuminator+PTZ)         Environment       Operating Temperature         Operating Humidity       ≤ 95%         Protection       TVS 6000 V lightning proof; surge protection; voltage transient protection         Structure         Product Dimensions       382 mm × Φ239.8 mm (15.04" × Φ9.44")         Net Weight       6.8 kg (14.99 lb)	RS-485	1 (baud rate: 1200 bps–9600 bps)				
Alarm Linkage       Capture; Recording; 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       36 VDC, 2.23 A ± 25% HI-PoE         Power Consumption       Basic: 13 W Max: 27 W (illuminator+PTZ)         Environment       −40 °C to +70 °C (−40 °F to +158 °F)         Operating Temperature       −40 °C to +70 °C (−40 °F to +158 °F)         Operating Humidity       ≤ 95%         Protection       TVS 6000 V lightning proof; surge protection; voltage transient protection         Structure         Product Dimensions       382 mm × Φ239.8 mm (15.04" × Φ9.44")         Net Weight       6.8 kg (14.99 lb)	Audio Input	1 channel (LINE IN, bare wire)				
Alarm Linkage  alarm digital input  Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection  Power  Power Supply  36 VDC, 2.23 A ± 25% HI-PoE  Power Consumption  Basic: 13 W Max: 27 W (illuminator+PTZ)  Environment  Operating Temperature  −40 °C to +70 °C (−40 °F to +158 °F)  Operating Humidity  ≤ 95%  Protection  TVS 6000 V lightning proof; surge protection; voltage transient protection  Structure  Product Dimensions  382 mm × Ф239.8 mm (15.04" × Ф9.44")  Net Weight  6.8 kg (14.99 lb)	Audio Output	1 channel (LINE OUT,bare wire)				
Alarm Event disconnection detection; IP conflict detection; memory card state detection; memory space detection  Power  Power Supply 36 VDC, 2.23 A ± 25% HI-PoE  Power Consumption Basic: 13 W Max: 27 W (illuminator+PTZ)  Environment  Operating Temperature −40 °C to +70 °C (−40 °F to +158 °F)  Operating Humidity ≤ 95%  Protection TVS 6000 V lightning proof; surge protection; voltage transient protection  Structure  Product Dimensions 382 mm × Ф239.8 mm (15.04" × Ф9.44")  Net Weight 6.8 kg (14.99 lb)	Alarm Linkage					
Power Supply       36 VDC, 2.23 A ± 25% HI-PoE         Power Consumption       Basic: 13 W Max: 27 W (illuminator+PTZ)         Environment       -40 °C to +70 °C (-40 °F to +158 °F)         Operating Temperature       -40 °C to +70 °C (-40 °F to +158 °F)         Operating Humidity       ≤ 95%         Protection       TVS 6000 V lightning proof; surge protection; voltage transient protection         Structure         Product Dimensions       382 mm × Φ239.8 mm (15.04" × Φ9.44")         Net Weight       6.8 kg (14.99 lb)	Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory				
Power Supply  HI-PoE  Basic: 13 W Max: 27 W (illuminator+PTZ)  Environment  Operating Temperature  −40 °C to +70 °C (−40 °F to +158 °F)  Operating Humidity ≤ 95%  Protection  TVS 6000 V lightning proof; surge protection; voltage transient protection  Structure  Product Dimensions  382 mm × Φ239.8 mm (15.04" × Φ9.44")  Net Weight  6.8 kg (14.99 lb)	Power					
Power Consumption       Max: 27 W (illuminator+PTZ)         Environment       Operating Temperature       −40 °C to +70 °C (−40 °F to +158 °F)         Operating Humidity       ≤ 95%         Protection       TVS 6000 V lightning proof; surge protection; voltage transient protection         Structure         Product Dimensions       382 mm × Φ239.8 mm (15.04" × Φ9.44")         Net Weight       6.8 kg (14.99 lb)	Power Supply					
Operating Temperature −40 °C to +70 °C (−40 °F to +158 °F)  Operating Humidity ≤ 95%  Protection TVS 6000 V lightning proof; surge protection; voltage transient protection  Structure  Product Dimensions 382 mm × Φ239.8 mm (15.04" × Φ9.44")  Net Weight 6.8 kg (14.99 lb)	Power Consumption					
Operating Humidity       ≤ 95%         Protection       TVS 6000 V lightning proof; surge protection; voltage transient protection         Structure         Product Dimensions       382 mm × Φ239.8 mm (15.04" × Φ9.44")         Net Weight       6.8 kg (14.99 lb)	Environment					
Protection TVS 6000 V lightning proof; surge protection; voltage transient protection  Structure  Product Dimensions 382 mm × Φ239.8 mm (15.04" × Φ9.44")  Net Weight 6.8 kg (14.99 lb)	Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)				
Structure  Product Dimensions $382 \text{ mm} \times \Phi 239.8 \text{ mm} (15.04" \times \Phi 9.44")$ Net Weight $6.8 \text{ kg} (14.99 \text{ lb})$	Operating Humidity	≤ 95%				
Product Dimensions $382 \text{ mm} \times \Phi 239.8 \text{ mm} (15.04" \times \Phi 9.44")$ Net Weight $6.8 \text{ kg} (14.99 \text{ lb})$	Protection					
Net Weight 6.8 kg (14.99 lb)	Structure					
•	Product Dimensions	382 mm × Φ239.8 mm (15.04" × Φ9.44")				
Gross Weight 9.2 kg (20.28 lb)	Net Weight	6.8 kg (14.99 lb)				
	Gross Weight	9.2 kg (20.28 lb)				

Ordering Information						
Туре	Model	Description				
SD6AL Series	DH-SD6AD445GA- HNV-IR	4MP 45x Starlight IR Network PTZ Camera				
	DC36V/2.23A	Power Adapter				
	PFA111	Mount adapter				
	PFB303W	Bracket				
	PFB300C	Ceiling Mount				
Accessories	PFA150	Vertical pole mount				
Accessories	PFA151+PFB303W	Corner Mount				
	PFA150+DH-PFB300C	Horizontal Pole Mount				
	PFB301C	Ceiling Mount				
	PFB301S-E	Plane Mount				
	PFB303S	Parapet Mount				

### **Accessories**

# Included:







PFA111 Mount adapter



PFB303W Bracket

# Optional:



PFB300C Ceiling Mount Bracket



PFA150 Pole Mount Bracket



PFA151+PFB303W Corner Mount Bracket



PFA150+PFB300C Horizontal Pole Mount



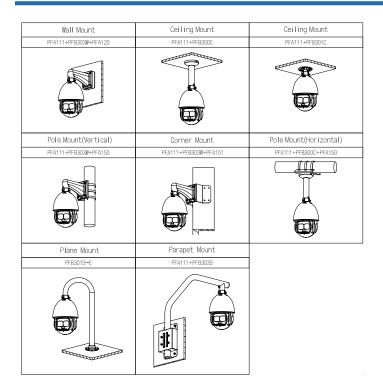
PFB301C Ceiling Mount



PFB301S-E Plane Mount



PFB303S Parapet Mount



# Dimensions (mm[inch])

