

DH-SD4A425DB-HNY

4MP 25x Starlight IR WizSense 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

With its powerful optical zoom, and accurate pan and 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.

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.

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.

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.

- 1/2.8" 4Megapixel STARVIS™ CMOS.
- 25x optical zoom.
- · Starlight technology.
- Max. 25/30fps@4MP.
- IR distance up to 100 m.
- · Auto-tracking 1.0.
- · Perimeter protection.
- · Face detection.
- SMD 3.0.
- · IP66.













SmartH.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

Auto-tracking 1.0

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.

PFA Technology

PFA technology has introduced new methods of judgment that ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms that ensure image clarity when zooming and that shorten focus time. This makes the camera highly advanced in its functions, substantially improving the quality of your experience.

SMD

Empowered by Deep-Learning Algorithms, Dahua SMD filters outmotion detection alarms triggered by targets that are not a concern.

It quickly recognizes humans and vehicles, triggering alarms when an intrusion occurs.

Environment (-40 °C to +65 °C, IP66)

Developed to operate in extreme conditions, the camera can function intemperatures ranging from $-40\,^{\circ}\text{C}$ to $+65\,^{\circ}\text{C}$ ($-40\,^{\circ}\text{F}$ to $+149\,^{\circ}\text{F}$) at 95 %humidity. It was subjected to rigorous dust and water immersion tests,gaining its IP66 Ingress Protection certification, making it suitable fordemanding outdoor applications.

Part	Technical Specification			Supports face detection, face track box, capturing
Pace Auto Tracking Auto Tracking Yes Yes Yes Auto Tracking Yes Ye	Camera		Face Detection	
Max. Resolution	Image Sensor	1/2.8" CMOS	Auto Tracking	
Max. Resolution 175.04 175.05	Pixel	4 MP		Yes
RAM	Max. Resolution	2560 × 1440		
Red	ROM	128 MB		H.264H; H.264B; Smart H.265+; H.264; H.265;
	RAM	512 MB	Video Compression	
Min. Illumination	Electronic Shutter Speed	1/1s-1/30000s	Streaming Capability	3 streams
Min. Illumination	Scanning System	Progressive	Resolution	× 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1
Illuminator On/Off Control	Min. Illumination	B/W: 0.0005lux@F1.6	Video Sugar Date	Main stream: 4M/3M/1080p/1.3M/720p @(1–25/30
Note	Illumination Distance	100 m (328.08 ft) (IR)	Video Frame Rate	Sub stream 1: D1/VGA/CIF@ (1–25/30 fps)
Note of National	Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off	Bit Rate Control	CBR/VBR
Day/Night Auto (CR)/Color/B/W	Illuminator Number	6 (IR)	Video Bit Rate	·
Max. Aperture	Lens		Day/Night	Auto (ICR)/Color/B/W
His 19"-3.0" V3 99"-2.2" V3 99"-2.2" White Balance Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp Auto; manual	Focal Length	5 mm-125 mm	BLC	Yes
Field of View V: 33.7"	Max. Aperture	F1.6-F3.6	WDR	120 dB
Optical Zoom ZSX	Field of View	V: 39.7°-2.2°	HLC	Yes
Close Focus Distance 0.5 m-5 m (1.64 ft-16.40ft) Noise Reduction 2D NR; 3D NR	Optical Zoom		White Balance	
Detect Observe Recognize Identify Region of Interest (RoI) Yes	Focus Control	Auto; semi-auto; manual	Gain Control	Auto; manual
Detect Observe Recognize Identify 250 m 987.5 m 500 m 250 m (8202.10 ft) (3239.83 ft) (1640.42 ft) (820.21 ft) PTZ Pan/Tilt Range Pan: 0° to 360° endless Tilt: -5° to +90°, auto flip 180° Manual Control Speed Pan: 01%-240% Tilt: 0.1%-160% Preset Speed Pan: 240%, Tilt: 160% Preset Speed Pan: 240%, Tilt: 160% Pattern 5 Scan 5 Scan 5 Power-off Memory Ves Idle Motion Pattern; Preset; Scan; Tour Power-off Memory Ves Intelligence Intelligence Privacy Interval (140,10) Region of Interest (Rol) Pes Image Stabilization Electronic (EiS) Defog Electronic Digital Zoom 16x Image Rotation 180° Privacy Masking Up to 24 areas can be set, with up to 8 areas in the same view S/N Ratio 2.55 dB Audio Audio Compression G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; PCM Network Port RJ-45 (10/100 Base-T) Network Port RJ-45 (10/100 Base-T) Intelligence Interoperability C.Gi; SDK; ONVIF V19.06 (Profile S&G&T); P2P Interoperability C.Gi; SDK; ONVIF V19.06 (Profile S&G&T); P2P	Close Focus Distance	0.5 m-5 m (1.64 ft-16.40ft)	Noise Reduction	2D NR; 3D NR
DORI Distance 2500 m 987.5 m 1640.42 ft 820.21 ft 907.3 m 1640.42 ft 820.21 ft 906 g Electronic	Iris Control	Auto; manual; fixed	Motion Detection	Yes
PTZ Pan/Tilt Range Pan: 0" to 360" endless Tilt: -5" to +90", auto flip 180" Manual Control Speed Pan: 240"/s; Tilt: 160"/s Preset Speed Pan: 240"/s; Tilt: 160"/s Preset Speed Pantern 5 Scan 5 Power-off Memory Yes Indie Motion Pattern; Preset; Scan; Tour Power-off Memory Ves Intelligence Intelligence Interoperability Interoperability Interoperability Interoperability Interoperability Interoperability Defog Electronic Insx Betactronic Insx Betactronic In		Detect Observe Recognize Identify	Region of Interest (RoI)	Yes
Pan/Tilt Range Pan: 0° to 360° endless Tilt: -5° to +90°, auto flip 180° Manual Control Speed Pan: 0.1′s-240′s Tilt: 0.1′s-160′s Preset Speed Pan: 240°/s; Tilt: 160′/s Preset 300 Audio Tour 8 (up to 32 presets per tour) Pattern 5 Scan 5 Network Network Network Port Idle Motion Pattern, Preset, Scan; Tour Pattern, Preset, Scan; Tour Network Protocol DH-SD Intelligence 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 Audio Compression 6 711a; G,711Mu; G,726; MPEG2-Layer2; G722.1; PCM Network Network Network Port RJ-45 (10/100 Base-T) IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; ICMP; DHCP; DNS; DDNS; QoS; UPnP; NTP; IGMP; DHCP; DNS; DDNS; QoS; UPnP; NTP; IGMP, NFS; PPPOE; SNMP; P2P Interoperability CGI; SDK; ONVIF V19.06 (Profile S&G&T); P2P Interoperability Streaming Method Unicast/Multicast	DORI Distance		Image Stabilization	Electronic (EIS)
Pan/Tilt Range Tilt:—5" to +90", auto flip 180° Manual Control Speed Pan: 0.1"/s-240"/s Tilt: 0.1"/s-160"/s Preset Speed Pan: 240"/s; Tilt: 160"/s Preset Speed Pan: 240"/s; Tilt: 160"/s Preset 300 Audio Audio Audio Compression Form Scan Scan So Network Network Network Network Port RJ-45 (10/100 Base-T) PTZ Protocol DH-SD Intelligence Interoperability Cig; SDK; ONVIF V19.06 (Profile S&G&T); P2P Interoperability Cig; SDK; ONVIF V19.06 (Profile S&G&T); P2P Interoperability Streaming Method Up to 24 areas can be set, with up to 8 areas in the same view S/N Ratio 2 55 dB Audio Audio Audio Audio Compression Form Audio Compression RJ-11a; G.711Mu; G.726; MPEG2-Layer2; G722.1; PCM PCM Network Port RJ-45 (10/100 Base-T) Interoperability Cig; SDK; ONVIF V19.06 (Profile S&G&T); P2P Interoperability Cig; SDK; ONVIF V19.06 (Profile S&G&T); P2P Streaming Method Unicast/Multicast	PTZ		Defog	Electronic
Manual Control Speed Pan: 0.1%-240% Filt: 0.1%-160% Image Rotation 180° Preset Speed Pan: 240%; Tilt: 160% Privacy Masking Up to 24 areas can be set, with up to 8 areas in the same view Preset 300 \$/N Ratio ≥55 dB Tour 8 (up to 32 presets per tour) Audio Compression G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; PCM Scan 5 Network Power-off Memory Yes Network Idle Motion Pattern; Preset; Scan; Tour Network Protocol IPV4; IPV6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; ICMP; DHCP; DMS; DDMS; QoS; UPnP; NTP; IGMP; NFS; PPPoE;SNMP; P2P Intelligence Interoperability CGI; SDK; ONVIF V19.06 (Profile S&G&T); P2P IVS (Perimeter Protection) Tripwire; intrusion; crossing fence detection; loitering detection; people gathering; fast moving; parking detection; people gathering; fast moving; parking detection; people gathering; Streaming Method Unicast/Multicast	Pan/Tilt Range		Digital Zoom	16x
Tilt: 0.1*/s–160*/s Preset Speed Pan: 240*/s; Tilt: 160*/s Preset 300 Tour 8 (up to 32 presets per tour) Pattern 5 Scan 5 Power-off Memory Yes Network Pattern, Preset; Scan; Tour Pattern, Proset; Scan; Tour Pattern DH-SD Intelligence Privacy Masking Privacy Masking Privacy Masking 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 Audio Compression FOM Network Network Network RJ-45 (10/100 Base-T) Prov4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; ICMP; DHCP; DNS; DDNS; QoS; UPnP; NTP; IGMP; NTS; PPPoE;SNMP; P2P Interoperability CGI; SDK; ONVIF V19.06 (Profile S&G&T); P2P Interoperability Streaming Method Unicast/Multicast			Image Rotation	180°
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Tour 8 (up to 32 presets per tour) Pattern 5 Scan 5 Power-off Memory Yes Idle Motion Pattern; Preset; Scan; Tour PTZ Protocol DH-SD Intelligence Interoperability Tripwire; intrusion; crossing fence detection; loitering detection; as a moving; parking detection; people gathering; fast moving; parking detection; people gathering; and detection; people gat	·		S/N Ratio	≥ 55 dB
Pattern 5 Scan 5 Power-off Memory Yes Network Port RJ-45 (10/100 Base-T) Idle Motion Pattern; Preset; Scan; Tour Network Protocol DH-SD Intelligence Intelligence Intelligence Interpretation Interoperability Intero	Preset		Audio	
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Idle Motion	Scan	5		PL 45 /10/100 Raco T\
PTZ Protocol Intelligence Intelligence Intelligence Interoperability CGI; SDK; ONVIF V19.06 (Profile S&G&T); P2P IVS (Perimeter Protection) RTMP; SMTP; FTP; ICMP; DHCP; DNS; DDNS; QoS; UPnP; NTP; IGMP; NFS; PPPoE; SNMP; P2P Interoperability CGI; SDK; ONVIF V19.06 (Profile S&G&T); P2P Streaming Method Unicast/Multicast	Power-off Memory	Yes	. VCCWOIN FOIL	
PTZ Protocol Intelligence Interoperability CGI; SDK; ONVIF V19.06 (Profile S&G&T); P2P IVS (Perimeter Protection) Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; Streaming Method Unicast/Multicast	Idle Motion	Pattern; Preset; Scan; Tour	Network Protocol	RTMP;SMTP; FTP; ICMP; DHCP; DNS; DDNS; QoS;
Interoperability CGI; SDK; ONVIF V19.06 (Profile S&G&T); P2P Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; Interoperability CGI; SDK; ONVIF V19.06 (Profile S&G&T); P2P Streaming Method Unicast/Multicast				UPnP; NTP; IGMP; NFS; PPPoE;SNMP; P2P
Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; Tripwire; intrusion; crossing fence detection; Streaming Method Unicast/Multicast	Intelligence		Interoperability	CGI; SDK; ONVIF V19.06 (Profile S&G&T); P2P
vehicle/human alarm classification: linkage tracking	IVS (Perimeter Protection)	loitering detection; abandoned/missing object;	Streaming Method	Unicast/Multicast



User/Host 20 (total bandwidth: 64 M); Storage Micro SD card (512 GB); FTP/SFTP; NAS Configuration encryption; trusted execution;User account password; Digest;security logs; User account lockout; syslog; videoencryption; 802.1x;IP/MAC filtering; HTTPS; trustedupgrade; trustedboot; TLS2.0; Management Software DMSS; DSS PRO Mobile Client Certification Ce: ENS5032/ENS5024/ENS0130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UI: UL62368-1 Port Audio Input 1 channel (LINE IN, bare wire) Alarm Linkage Capture; preset; tour; pattern; recordings on SD card; alarm digital input; send email Motion/Tampering detection; audio detection; network disconnection detection; memory space detection; memory card state detection; memory space detection Alarm I/O 2/1 Audio I/O 1/1 Power Power Supply 12 VDC/2 A ± 10% (included) Pof + (802.3at) Power Consumption Basic: 9.5 W Max.: 21.5 W (illuminator on + fan on + PTZ) Environment Operating Temperature -40 °C to +65 °C (-40 °F to +149 °F) Operating Humidity ≤ 95% Protection Structure Product Dimensions 170.4 mm × Φ171.1 mm (6.71" × Φ6.74") Net Weight 3.2 kg (7.05 lb)				
Configuration encryption; trusted execution; User account password; Digest; security logs; User account lockout; syslog; videoencryption; 802. 1x; IP/MAC filtering; HTTPS; trustedupgrade; trustedboot; TLS2.0; Management Software DMSS; DSS PRO Mobile Client Certification Certification Cet: EN55032/EN55024/ENS0130-4 FCC: Part15 subpartB, ANSI C63.4-2014 Ut: UL62368-1 Port Audio Input 1 channel (LINE IN, bare wire) Alarm Linkage Capture; preset; tour; pattern; recordings on SD card; alarm digital input; send email Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; memory space detection Alarm I/O 2/1 Audio I/O 1/1 Power Power Supply Power Consumption Basic: 9.5 W Max.: 21.5 W (illuminator on + fan on + PTZ) Environment Operating Temperature -40 °C to +65 °C (-40 °F to +149 °F) Operating Humidity \$ 95% Protection IP66, TVS 6000 V lightning proof; surge protection; voltage transient protection Structure Product Dimensions 170.4 mm × Φ171.1 mm (6.71" × Φ6.74") Net Weight 2.5 kg (5.51 lb)	User/Host	20 (total bandwidth: 64 M);		
ccount password; Digest;security logs; User account lockout; syslog; videoencryption; 802.1x;IP/MAC filtering; HTTPS; trustedupgrade; trustedboot; TLS2.0; Management Software DMSS; DSS PRO Mobile Client iOS; Android Certification Certifications CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UL: UL62368-1 Port Audio Input 1 channel (LINE IN, bare wire) Audio Output 1 channel (LINE OUT, bare wire) Alarm Linkage Capture; preset; tour; pattern; recordings on SD card; alarm digital input; send email Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; memory space detection Alarm I/O 2/1 Audio I/O 1/1 Power Power Supply 12 VDC/2 A ± 10% (included) PoE+ (802.3at) Power Consumption Basic: 9.5 W (illuminator on + fan on + PTZ) Environment Operating Temperature −40 °C to +65 °C (−40 °F to +149 °F) Operating Temperature 1PG6, TVS 6000 V lightning proof; surge protection; voltage transient protection Structure Product Dimensions 170.4 mm × Ф171.1 mm (6.71" × Ф6.74") Net Weight 2.5 kg (5.51 lb)	Storage	Micro SD card (512 GB); FTP/SFTP; NAS		
Mobile Client Certification Certification Certifications CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UI: UL62368-1 Port Audio Input 1 channel (LINE IN, bare wire) Alarm Linkage Capture; preset; tour; pattern; recordings on SD card; alarm digital input; send email Motion/Tampering detection; audio detection; network disconnection detection; Pc conflict detection; memory card state detection; memory space detection and space detection; memory space detection and space detection and space detection; Poemflict detectio	Cyber Security	account password; Digest;security logs; User account lockout; syslog; videoencryption; 802.1x;IP/MAC		
Certification Certifications CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UL: UL62368-1 Port Audio Input 1 channel (LINE IN, bare wire) Audio Output 1 channel (LINE OUT, bare wire) Alarm Linkage Capture; preset; tour; pattern; recordings on SD card; alarm digital input; send email Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection Alarm I/O 2/1 Audio I/O Power Power Supply 12 VDC/2 A ± 10% (included) PoE+ (802.3at) Power Consumption Basic: 9.5 W Max: 21.5 W (illuminator on + fan on + PTZ) Environment Operating Temperature -40 °C to +65 °C (−40 °F to +149 °F) Operating Humidity ≤ 95% Protection Structure Product Dimensions 170.4 mm × Φ171.1 mm (6.71" × Φ6.74") Net Weight 2.5 kg (5.51 lb)	Management Software	DMSS; DSS PRO		
CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UL: UL62368-1 Port Audio Input 1 channel (LINE IN, bare wire) Alarm Linkage Capture; preset; tour; pattern; recordings on SD card; alarm digital input; send email Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection Alarm I/O 2/1 Audio I/O 1/1 Power Power Supply 12 VDC/2 A ± 10% (included) PoE+ (802.3at) Power Consumption Basic: 9.5 W Max.: 21.5 W (illuminator on + fan on + PTZ) Environment Operating Temperature −40 °C to +65 °C (−40 °F to +149 °F) Operating Humidity ≤ 95% Protection 1P66, TVS 6000 V lightning proof; surge protection; voltage transient protection Structure Product Dimensions 170.4 mm × Φ171.1 mm (6.71" × Φ6.74") Net Weight 2.5 kg (5.51 lb)	Mobile Client	iOS; Android		
FCC: Part15 subpartB, ANSI C63.4-2014 UL: UL62368-1 Port Audio Input 1 channel (LINE IN, bare wire) Alarm Linkage Capture; preset; tour; pattern; recordings on SD card; alarm digital input; send email Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection Alarm I/O 2/1 Audio I/O Power Power Supply Power Consumption Basic: 9.5 W Max.: 21.5 W (illuminator on + fan on + PTZ) Environment Operating Temperature −40 °C to +65 °C (−40 °F to +149 °F) Operating Humidity ≤ 95% Protection Structure Product Dimensions 170.4 mm × Φ171.1 mm (6.71" × Φ6.74") Net Weight 2.5 kg (5.51 lb)	Certification			
Audio Input 1 channel (LINE IN, bare wire) 1 channel (LINE OUT, bare wire) 1 channel (LINE OUT, bare wire) Capture; preset; tour; pattern; recordings on SD card; alarm digital input; send email Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection Alarm I/O 2/1 Audio I/O 1/1 Power Power Supply 12 VDC/2 A ± 10% (included) PoE+ (802.3at) Power Consumption Basic: 9.5 W Max.: 21.5 W (illuminator on + fan on + PTZ) Environment Operating Temperature -40 °C to +65 °C (-40 °F to +149 °F) Operating Humidity ≥ 95% Protection Structure Product Dimensions 170.4 mm × Φ171.1 mm (6.71" × Φ6.74") Net Weight 2.5 kg (5.51 lb)	Certifications	FCC: Part15 subpartB, ANSI C63.4-2014		
Audio Output 1 channel (LINE OUT, bare wire) Alarm Linkage Capture; preset; tour; pattern; recordings on SD card; alarm digital input; send email Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection Alarm I/O 2/1 Audio I/O 1/1 Power 12 VDC/2 A ± 10% (included) PoE+ (802.3at) Power Consumption Basic: 9.5 W Max.: 21.5 W (illuminator on + fan on + PTZ) Environment Operating Temperature −40 °C to +65 °C (−40 °F to +149 °F) Operating Humidity ≤ 95% Protection IP66, TVS 6000 V lightning proof; surge protection; voltage transient protection Structure Product Dimensions 170.4 mm × Φ171.1 mm (6.71" × Φ6.74") Net Weight 2.5 kg (5.51 lb)	Port			
Alarm Linkage Capture; preset; tour; pattern; recordings on SD card; alarm digital input; send email Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection Alarm I/O 2/1 Audio I/O 1/1 Power Power Supply 12 VDC/2 A ± 10% (included) PoE+ (802.3at) Power Consumption Basic: 9.5 W Max.: 21.5 W (illuminator on + fan on + PTZ) Environment Operating Temperature -40 °C to +65 °C (-40 °F to +149 °F) Operating Humidity ≤ 95% Protection IP66, TVS 6000 V lightning proof; surge protection; voltage transient protection Structure Product Dimensions 170.4 mm × Φ171.1 mm (6.71" × Φ6.74") Net Weight 2.5 kg (5.51 lb)	Audio Input	1 channel (LINE IN, bare wire)		
Alarm Linkage card; alarm digital input; send email Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection Alarm I/O Alarm I/O 2/1 Audio I/O 1/1 Power Power Supply 12 VDC/2 A ± 10% (included) PoE+ (802.3at) Power Consumption Basic: 9.5 W Max.: 21.5 W (illuminator on + fan on + PTZ) Environment Operating Temperature -40 °C to +65 °C (−40 °F to +149 °F) Operating Humidity ≤ 95% Protection IP66, TVS 6000 V lightning proof; surge protection; voltage transient protection Structure Product Dimensions 170.4 mm × Φ171.1 mm (6.71" × Φ6.74") Net Weight 2.5 kg (5.51 lb)	Audio Output	1 channel (LINE OUT, bare wire)		
Alarm Event space detection; memory card state detection; memory space detection; memory card state detection; memory space detection Alarm I/O 2/1 Audio I/O 1/1 Power Power Supply 12 VDC/2 A ± 10% (included) PoE+ (802.3 at) Power Consumption Basic: 9.5 W Max.: 21.5 W (illuminator on + fan on + PTZ) Environment Operating Temperature −40 °C to +65 °C (−40 °F to +149 °F) Operating Humidity ≤ 95% Protection Vertical Product Dimensions 170.4 mm × Φ171.1 mm (6.71" × Φ6.74") Net Weight 2.5 kg (5.51 lb)	Alarm Linkage			
Audio I/O Power Power Supply $12 \text{ VDC}/2 \text{ A} \pm 10\% \text{ (included)}$ $PoE+ (802.3 \text{ at})$ Power Consumption $PoE+ (802.3 \text{ at})$ Basic: 9.5 W $PoE+ (802.3 \text{ at})$ Environment Operating Temperature $PoE+ (802.3 \text{ at})$ $PoE+ ($	Alarm Event	network disconnection detection; IP conflict detection; memory card state detection; memory		
Power Supply $ \begin{array}{ll} 12\text{VDC}/2\text{A}\pm10\%(\text{included}) \\ \text{PoE+}(802.3\text{at}) \\ \\ \text{Power Consumption} & \text{Basic: 9.5 W} \\ \text{Max: 21.5 W}(\text{illuminator on + fan on + PTZ}) \\ \\ \text{Environment} \\ \\ \text{Operating Temperature} & -40^{\circ}\text{C to +65 °C }(-40^{\circ}\text{F to +149 °F}) \\ \\ \text{Operating Humidity} & \leq 95\% \\ \\ \text{Protection} & \text{IP66, TVS 6000 V lightning proof; surge protection; } \\ \\ \text{Structure} \\ \\ \text{Product Dimensions} & 170.4\text{mm}\times\Phi171.1\text{mm}(6.71\text{"}\times\Phi6.74\text{"})} \\ \\ \text{Net Weight} & 2.5\text{kg}(5.51\text{lb}) \\ \\ \end{array} $	Alarm I/O	2/1		
Power Supply $\begin{array}{ll} 12\text{VDC}/2\text{A}\pm10\%(\text{included})\\ \text{PoE+}(802.3\text{at}) \end{array}$ Power Consumption $\begin{array}{ll} \text{Basic: 9.5 W}\\ \text{Max.: } 21.5\text{W}(\text{illuminator on + fan on + PTZ}) \end{array}$ Environment $\begin{array}{ll} \text{Operating Temperature} & -40^{\circ}\text{C to +65^{\circ}\text{C}}(-40^{\circ}\text{F to +149^{\circ}\text{F}}) \end{array}$ Operating Humidity ≤ 95% $\begin{array}{ll} \text{Protection} & \text{IP66, TVS } 6000\text{V lightning proof; surge protection; } \\ \text{voltage transient protection} \end{array}$ Structure $\begin{array}{ll} \text{Product Dimensions} & 170.4\text{mm}\times\Phi171.1\text{mm}(6.71"\times\Phi6.74") \end{array}$ Net Weight $\begin{array}{ll} 2.5\text{kg}(5.51\text{lb}) \end{array}$	Audio I/O	1/1		
Power Supply PoE+ (802.3at) Power Consumption Basic: 9.5 W Max.: 21.5 W (illuminator on + fan on + PTZ) Environment Operating Temperature -40 °C to +65 °C (-40 °F to +149 °F) Operating Humidity ≤ 95% Protection IP66, TVS 6000 V lightning proof; surge protection; voltage transient protection Structure Product Dimensions 170.4 mm × Ф171.1 mm (6.71" × Ф6.74") Net Weight 2.5 kg (5.51 lb)	Power			
Power Consumption Max.: 21.5 W (illuminator on + fan on + PTZ) Environment Operating Temperature -40 °C to +65 °C (-40 °F to +149 °F) Operating Humidity ≤95% Protection IP66, TVS 6000 V lightning proof; surge protection; voltage transient protection Structure Product Dimensions 170.4 mm × Ф171.1 mm (6.71" × Ф6.74") Net Weight 2.5 kg (5.51 lb)	Power Supply	The state of the s		
Operating Temperature $-40 ^{\circ}\text{C}$ to $+65 ^{\circ}\text{C}$ ($-40 ^{\circ}\text{F}$ to $+149 ^{\circ}\text{F}$) Operating Humidity $\leq 95\%$ Protection IP66, TVS 6000 V lightning proof; surge protection; voltage transient protection Structure Product Dimensions $170.4 \text{mm} \times \Phi 171.1 \text{mm} (6.71" \times \Phi 6.74")$ Net Weight $2.5 \text{kg} (5.51 \text{lb})$	Power Consumption			
Operating Humidity ≤ 95% Protection IP66, TVS 6000 V lightning proof; surge protection; voltage transient protection Structure Product Dimensions 170.4 mm × Φ171.1 mm (6.71" × Φ6.74") Net Weight 2.5 kg (5.51 lb)	Environment			
Protection IP66, TVS 6000 V lightning proof; surge protection; voltage transient protection Structure Product Dimensions $170.4 \text{ mm} \times \Phi 171.1 \text{ mm} (6.71" \times \Phi 6.74")$ Net Weight $2.5 \text{ kg} (5.51 \text{ lb})$	Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)		
Voltage transient protection Structure Product Dimensions $170.4 \text{ mm} \times \Phi 171.1 \text{ mm} (6.71" \times \Phi 6.74")$ Net Weight $2.5 \text{ kg} (5.51 \text{ lb})$	Operating Humidity	≤ 95%		
Product Dimensions $170.4 \text{ mm} \times \Phi 171.1 \text{ mm} (6.71" \times \Phi 6.74")$ Net Weight $2.5 \text{ kg} (5.51 \text{ lb})$	Protection			
Net Weight 2.5 kg (5.51 lb)	Structure			
	Product Dimensions	170.4 mm × Φ171.1 mm (6.71" × Φ6.74")		
Gross Weight 3.2 kg (7.05 lb)	Net Weight	2.5 kg (5.51 lb)		
	Gross Weight	3.2 kg (7.05 lb)		

Ordering Information					
Туре	Model	Description			
4MP PTZ Camera	DH-SD4A425DB-HNY	4MP 25x Starlight IR WizSense Network PTZ Camera			
	SD4A425DB-HNY	4MP 25x Starlight IR WizSense Network PTZ Camera			
	DC 12 V/2 A	Power Adapter			
	PFA101	Mount Adapter			
	PFB303W	Wall Mount Bracket			
	PFB300C	Ceiling Mount Bracket			
Accessories	PFA150	Pole Mount Bracket			
	PFA151	Corner Mount Bracket			
	PFB303S	Parapet Mount Bracket			
	PFM900-E	Integrated Mount Tester			
	TF-P100	MicroSD Memory Card			
	PFB5310C	In-ceiling Mount			

Accessories

Included:



DC 12 V/2A Power Adapter

Optional:



PFA101 Mount Adapter



PFB303W Wall Mount Bracket



PFB300C Ceiling Mount Bracket



PFA150 Pole Mount Bracket



PFA151 Corner Mount Bracket



PFB303S Parapet Mount Bracket



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



PFB5310C In-ceiling Mount

Installation

Ceiling Mount	Ceiling Mount	Wall Mount
Certify Mount	=	
	PFA101+PFB300C	PFA101+PFB303W
Pole Mount (Vertical)	Corner Mount	Parapet Mount
PFA101+PFB303W+PFA150	PFA101+PFB303W+PFA151	PFA101+PFB303S
In-ceiling Mount		
PFB5310C		

Dimensions (mm [inch])







