

DH-IPC-UDW3659T-S-PRO

6MP WizColor Fixed-focal Eyeball WizSense + Network 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.

Series Overview

With advanced deep learning algorithm, Dahua WizSense + 3 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

Functions

WizColor Technology

Dahua WizColor Technology seamlessly combines with the powerful AI-ISP, large pixel size sensor and large aperture in cameras. This unique integration enables cameras to effortlessly capture high-quality images with vibrant colors during nighttime scenarios, ensuring fine details are preserved and minimizing motion blur. Unlike traditional self-illuminating cameras, Dahua WizColor Technology maximizes the utilization of weak light sources, such as moonlight and city lights reflected in the sky, delivering captivating full-color images of the entire scene. It also ensures that monitoring distances are not compromised at night due to limited illumination ranges, facilitating full-color image capture even over long distances.

AI-ISP

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

SMD Plus

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

- 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 6MP (3288 ×1850) @20 fps, and supports 4MP (2688 × 1520) @25/30 fps.
- · H.265 codec, high compression rate, ultra-low bit rate.
- · Built-in warm light, and the max. illumination distance is 30 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- · Supports max. 256 G Micro SD card; built in Mic.
- 12 VDC/PoE power supply, easy for installation.
- · IP67 protection.
- SMD Plus.















Perimeter Protection

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

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.

Protection (IP67, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normally after soaking in 1 m deep water for 30 minutes. Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

by the sub stream)

Main process	Technical	Specificatio	n					Smart Codec	Smart H.265+; Smart H.264+
1309(1-257910b) 1309(1-257		эреспісаціо	"					Smart codec	
Main			1/1 0ll CMOC						1520@(1-25/30 fps)
Part									fps) *The values above are the max. frame rates of
Act									
Scanning System									subjected to the total encoding capacity.
Personal Solution								Streaming Capability	2 streams
Millumination			-					Resolution	(2688 × 1520); 3M (2048 × 1536); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 ×
A A A A A A A A A A									
Sit Rate Control Vision (20 mt) Vision (2									
Muminator On/OH Control Auto-Narual Packer Auto-Narual Auto-Na								Bit Rate Control	VBR;CBR
Pair 0" - 360" Pair								Video Bit Rate	
Angle Adjustment Tills 0" = 78" Motation: 0	Illuminator Number		2 (Warm light)					Day/Night	Color/B/W
Lens Filed File			Pan: 0° – 360	•				BLC	Yes
Lens Type Fixed-focal Lens Mount Mile Sam M	Angle Adjustment							HLC	Yes
Lens Mount	Lens							WDR	120 dB
Same	Lens Type		Fixed-focal					White Balance	1
Max. Aperture F1.0 Field of View 2.8 mm: H: 92°; ½: 51°; D: 107° 3.6 mm: H: 78°; ½: 42°; D: 91° Field of View 3.6 mm: H: 78°; ½: 42°; D: 91° Field of View 3.6 mm: H: 78°; ½: 42°; D: 91° Fix Control 5.5 mm: 4 m; H: 78°; ½: 42°; D: 91° Fix Control 6.5 mm: 4 m; H: 78°; ½: 42°; D: 91° Fix Control 7.5 min H: 78°; ½: 42°; D: 91° Fix Control 8.5 mm: 4 m; H: 78°; ½: 42°; D: 91° Fix Control 9.5 min H: 78°; ½: 42°; D: 91° Fix Control 9.5 min H: 78°; ½: 42°; D: 91° Fix Control 9.5 min H: 78°; ½: 42°; D: 91° Fix Control 9.5 min H: 78°; ½: 42°; D: 91° Fix Control 9.5 min H: 78°; ½: 42°; D: 91° Fix Control 9.5 min H: 78°; ½: 42°; D: 91° Fix Control 9.5 min H: 78°; ½: 42°; D: 91° Fix Control 9.5 min H: 78°; ½: 42°; D: 91° Fix Control 9.5 min H: 78°; ½: 42°; D: 91° Fix Control 9.5 min H: 78°; ½: 42°; D: 91° Fix Control 9.5 min H: 78°; ½: 42°; D: 91° Fix Control 9.5 min H: 78°; ½: 42°; D: 91° Fix Control 9.5 min H: 78°; ½: 42°; D: 91° Fix Control 9.5 min H: 78°; ½: 42°; D: 91° Fix Control 9.5 min H: 78°; ½: 42°; D: 91° Fix Control 9.5 min H: 78°; ½: 42°; D: 107° Fix Control 9.5 min H: 78°; ¾: 42°; D: 107° Fix Control 9.5 min H: 78°; ¾: 42°; D: 107° Fix Control 9.5	Lens Mount		M16					Gain Control	Auto/Manual
Motion Detection OFFON (4 areas, rectangular)	Focal Length		2.8 mm; 3.6 mm					Noise Reduction	3D NR
Field of View S.6 mm: H: 78°; V: 42°; D: 91° Region of Interest (Rol) Yes (4 areas)	Max. Aperture		F1.0					Motion Detection	OFF/ON (4 areas, rectangular)
Close Focus Distance 2.8 mm; 2.8 m (9.19 ft) 3.6 mm; 4 m (13.12 ft) Lens Detect Observe Recognize Identify 2.8 mm 2.8 mm (275.59 ft) (110.24 ft) (55.12 ft) (27.56 ft) DORI DORI DISTANCE 3.6 mm 102.0 m (334.65 ft) (133.86 ft) (66.93 ft) (33.46 ft) DISTANCE (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances, For intelligent function of the project design tool. Intelligence INTS (Perimeter Protection) SMD SMD Plus Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Network Protocol Network	Field of View							Region of Interest (RoI)	Yes (4 areas)
Lens Detect Deserve Recognize Identify Mirror Yes	Iris Control		Fixed					Smart Illumination	Yes
Lens Defect Observe Recognize Identify Privacy Masking 4 areas	Close Focus Distance		, ,					Image Rotation	
2.8 mm (275.59 ft) (110.24 ft) (55.12 ft) (27.56 ft) DORI DORI Distance **DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances, ref in intelligent function and commissioning manual/project design tool. Intelligence INS (Perimeter Protection) SMD SMD Plus Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Work together with Smart NVR to perform refine event videos Network Protocol Network Profile 5 & Profile G) Conly supported LDC Yes Audio Audio Audio Yes, built-in MIC Audio Compression G.711a; G.711Mu; PCM; G.726 Alarm Alarm No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; violage detection; voltage detection; voltage detection; voltage detection; voltage detection; voltage detection; SMD; security exception Network Network Port SDK and API Yes Network Protocol Networ		Lens	Detect	Observe	Recognize	Identify		Mirror	Yes
DORI DORI DORI Distance *DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances, refer to installation and commissioning manual/project design tool. Intelligence IVS (Perimeter Protection) SMD SMD Plus SMD Plus Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Video LDC Yes Audio Audio Audio Audio Compression G.711a; G.711Mu; PCM; G.726 Alarm Alarm No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security exception NetWork Network Network Port RJ-45 (10/100 Base-T) SDK and API Yes SMAP Plus SDK and API Yes Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Network Protocol Note Sprofile G & Profile G & Pro		2.8 mm						Privacy Masking	4 areas
DORI DISTANCE *DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool. Intelligence INS (Perimeter Protection) SMD SMD Plus Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Network Protocol Network Profile S & Profile S								LDC	Yes
CEN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool. Intelligence	DORI	3.6 mm						Audio	
video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool. Intelligence Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human) SMD SMD Plus SMD Plus Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Network Protocol Network Pro	Distance	*DORI (Detec	*DORI (Detect, Observe, Recognize, Identify) is a standard system					Built-in MIC	Yes, built-in Mic
The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool. Intelligence IVS (Perimeter Protection) Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human) SMD SMD Plus Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Network Protocol Ne		,	_			-		Audio Compression	G.711a; G.711Mu; PCM; G.726
and commissioning manual/project design tool. Intelligence Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human) SMD Plus SMD Plus SMO Yes Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Network Protocol Net		The numbers	The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation					Alarm	
Intelligence Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human) Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human) Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human) Network Network Port SMD Plus SDK and API Yes SMA Plus SDK and API IPv4; IPv6; HTTP; TCP; UDP; ARP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; P2P; Bonjour; Auto Registration Network Protocol Interoperability ONVIF (Profile S & Profile G & Profile T); CGI								Alarm Event	
IVS (Perimeter Protection) classification and accurate detection of vehicle and human) Network Port RJ-45 (10/100 Base-T) SMD Plus SDK and API Yes Smart Search Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Network Protocol ONVIF (Profile S & Profile G & Profile T); CGI	Intelligence								detection; video tampering; tripwire; intrusion; audio
SMD Plus SMD Plus SMC synt together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Network Protocol N	IVS (Perimeter Protection)		classification and accurate detection of vehicle and						
SDK and API Yes Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Network Protocol Note Network Protocol Network Protocol Network Protocol Network Protocol Note Network Protocol Note Network Protocol Network Pr	SMD								RJ-45 (10/100 Base-T)
Smart Search intelligent search, event extraction and merging to event videos Network Protocol Prof, ITP; ICP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; P2P; Bonjour; Auto Registration H 265: H 264: H 264B: MIPEG (Only supported Interoperability ONVIF (Profile S & Profile G & Profile T); CGI	510							SDK and API	Yes
H 265: H 264: H 264H: H 264B: MIPEG (Only supported Interoperability ONVIF (Profile S & Profile G); CGI			intelligent search, event extraction and merging to					Network Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; P2P; Bonjour;
	Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported					Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI

User/Host	20 (Total bandwidth: 48 M)			
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS			
Browser	IE; Chrome; Firefox			
Management Software	Smart PSS Lite; DSS; DMSS			
Mobile Client	iOS;Android			
Security	Digest;WSSE;Account lockout;Security logs;IP/MAC filtering;Generation and importing of X.509 certification;syslog;HTTPS;802.1x;Trusted boot;Trusted execution;Trusted upgrade;Session security;Security warning			
Certification				
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU			
Power				
Power Supply	12 VDC (±30%); PoE (802.3af)			
Power Consumption	Basic: 2.4 W (12 VDC); 3 W (PoE) Max. (H.265+ intelligence on + WDR + illuminator intensity): 5.6 W (12 VDC); 6.4 W (PoE)			
Environment				
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)			
Operating Humidity	≤95% (RH), non-condensing			
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)			
Storage Humidity	≤95% (RH), non-condensing			
Protection	IP67			
Structure				

Inner core: Metal;

109.5 mm × Φ109.9 mm (4.31" × Φ4.33")

Cover: Plastic

0.42 kg (0.93 lb)

0.59 kg (1.30 lb)

Casing Material

Net Weight

Gross Weight

Product Dimensions

Ordering Information						
Туре	Model	Description				
IP CAMERA	DH-IPC-UDW3659T-S-PRO	6MP WizColor Fixed-focal Eyeball WizSense + Network Camera				
	DH-PFA109	Mount Adapter				
	DH-PFB220C	Ceiling Mount Bracket				
	DH-PFB305W	Wall Mount Bracket				
	DH-PFA151	Corner Mount Bracket				
Accessories (Optional)	DH-PFA150	Pole Mount Bracket				
	DH-PFA152-E	Pole Mount Bracket				
	DH-PFB205W-E	Wall Mount Bracket				
	DH-PFA13G	Junction Box				
	DH-PFM321-EN	DC12V1A power adapter				

Туре	Model	Description
	DH-PFM320D-EN	DC12V2A power adapter
	PFM900-E	Integrated Mount Tester
	DHI-TF-W100-256GB	MicroSD Card
	DHI-TF-P100/256GB	MicroSD Card

Accessories

Optional:







DH-PFA109 Mount Adapter

DH-PFA13G Junction Box

DH-PFA150 Pole Mount Bracket







DH-PFA151 Corner Mount Bracket

DH-PFA152-E Pole Mount Bracket

DH-PFB205W-E Wall Mount Bracket



DH-PFB220C Ceiling Mount Bracket





DH-PFB305W Wall Mount Bracket

DH-PFM320D-EN DC12V2A power adapter



DH-PFM321-EN DC12V1A power adapter



MicroSD Card

DHI-TF-P100/256GB

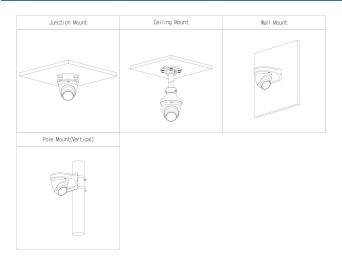


DHI-TF-W100-256GB MicroSD Card



PFM900-E Integrated Mount Tester





Dimensions (mm[inch])

mm [inch]

