



# DH-IPC-HDW5449H-ASE-D2

4 MP Dual Lens Fixed-focal Eyeball WizMind Full-color Network 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 verticals.

#### **Series Overview**

With starlight solution and deep learning algorithm, Dahua WizMind 5 Series network camera has various intelligent functions, including face capture, perimeter protection and people counting, which greatly improve the accuracy of video analysis. The series camera supports dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

#### **Functions**

#### **Face Detection**

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

#### **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.

#### **Multi-spectrum Fusion**

Dahua Multi-Spectrum Fusion technology extracts the details and brightness of the visible spectrum and infrared spectrum to make the fusion brightness close to the visible light brightness, so that the camera provides a better image.

- · Dual AI sensors with multi-spectral imaging technology that produces colorful images in low illumination conditions.
- · Outputs max. 4 MP (2688 × 1520)@25/30 fps.
- · Built-in warm light/IR LED, with a maximum illumination distance of
- · ROI, SMART H.264+/H.265+, AI 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, fast moving (the three functions support the classification and accurate detection of vehicle and human); abandoned object, missing object, loitering detection, people gathering, and parking detection.
- · Face detection: Track, snapshot, snapshot optimization, optimal face snapshot upload, face enhancement, and face exposure.
- · People counting: Queue management, people counting in area, entered/exited people counting, and generating and exporting report (day/month/year).
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; built-in mic and speaker.
- · 12 VDC/PoE power supply.
- · IP67 protection.











#### **Full-color**

With high-performance sensor and large aperture lens, Dahua Full-color technology can display clear colorful image in the environment of ultra-low illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

#### **Cyber Security**

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

#### 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 works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification							Tripwire people counting and people counting in area; generating and exporting report (day/
Camera						People Counting	month/year); queue management; 4 rules can be set for tripwire, people counting in area and queue
Image Sensor		1/1.8" + 1/1.8" CMOS				Intelligent Search	management  Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Max. Resolution		2688 (H) × 1520 (V)					
ROM		128 MB				Video	
RAM		1 GB				Video Compression	H.265; H.264; H.264B; MJPEG (Only supported by
Scanning System		Progressive				Smart Codec	the sub stream)  Smart H.265+; Smart H.264+
Electronic Shutter Speed		Auto/Manu	al 1/3 s–1/100	),000 s		Al Coding	AI H.265; AI H.264
Min. Illumination		0.0002 lux (	@F1.0			Ai coung	Main stream: 2688 × 1520@(1–25/30 fps)
S/N Ratio		>56 dB					Sub stream: 704 × 576@(1–25 fps)/704 × 480@ (1–30 fps)
Illumination Distance		50 m (164.04 ft)				Video Frame Rate	Third stream: 1920 × 1080@(1–25/30 fps) *The values above are the max. frame rates of each
Illuminator On/Off Control		Auto; manual					stream; for multiple streams, the values will be subjected to the total encoding capacity.
Illuminator Number		, 0 ,,	2 (warm light)			Stream Capability	3 streams
Pan/Tilt/Rotation Range		Pan: 0°–360 Tilt: 0°–78° Rotation: 0°				Resolution	4M (2688 × 1520); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Lens						Bit Rate Control	CBR/VBR
Lens Type		Fixed-focal				Video Bit Rate	H.264: 32 kbps–8192 kbps H.265: 19 kbps–8192 kbps
Lens Mount		M16				Day/Night	Color/B/W
Focal Length		2.8 mm; 3.6	mm; 6 mm			BLC	Yes
Max. Aperture		F1.0				HLC	Yes
Field of View		2.8 mm: Horizontal: 97°; Vertical: 48°; Diagonal: 115° 3.6 mm: Horizontal: 75°; Vertical: 39°; Diagonal: 87°				WDR	DWDR
Iris Control		6 mm: Horizontal: 47°; Vertical: 25°; Diagonal: 56°  Fixed				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
		2.8 mm: 4 m (13.1 ft)				Gain Control	Auto; manual
Close Focus Distance		3.6 mm: 5 m (16.4 ft) 6 mm: 6 m (19.7 ft)				Noise Reduction	3D NR
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Motion Detection	OFF/ON (4 areas, rectangular)
	2.8 mm	58.2 m (190.94 ft)	23.3 m (76.44 ft)	11.6 m (38.06 ft)	5.8 m (19.03 ft)	Region of Interest (RoI)	Yes (4 areas)
	3.6 mm	70.3 m (230.64 ft)	28.1 m (92.19 ft)	14.1 m (46.26 ft)	7.0 m (22.97 ft)	Image Rotation	$0^{\circ}\!/90^{\circ}\!/180^{\circ}\!/270^{\circ}$ (Support $90^{\circ}\!/270^{\circ}$ with $1080p$ resolution and lower)
	6 mm	116.1 m	46.5 m	23.2 m	11.6 m	Mirror	Yes
Cmart avan		(380.91 ft)	(152.56 ft)	(76.12 ft)	(38.06 ft)	Privacy Masking	4 areas
Smart event				Audio			
IVS		Abandoned object; missing object				Built-in MIC	Yes
Professional, intelligent		Yes				Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
riolessiona	ii, iiiteiligent	Intrusion, tr	ipwire, fast m	oving (the thr	ee functions	Alarm	
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection				Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast
SMD 3.0		Less false alarm, longer detection distance					moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; face detection; people counting in area; stay detection; people counting; people number error detection; security exception; defocus detection; people number alarm; queue time alarm
Face Detection		Face detection; track; optimization; snapshot; face enhancement; face exposure; face matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time setting					
		p. 10.1.47, 1000 difford filter, optimization time setting					

Network						
Network Port	RJ-45 (10/100 Enhancement Base-T)					
SDK and API	Yes					
Cyber Security	Video encryption; configuration encryption; Digest; WSSE; account lockout; security logs; generation and importing of X.509 certification; HTTPS; trusted boot; trusted execution; trusted upgrade					
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; NTP; Multicast; DDNS					
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P					
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS					
Browser	IE: IE8, IE9, IE11 Chrome Firefox					
Management Software	Smart PSS; DSS; DMSS					
Mobile Client	iOS; Android					
Certification						
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14					
Port						
Audio Input	1 channel (RCA port)					
Audio Output	1 channel (RCA port)					
Alarm Input	1 channel in: 5 mA 3-5 VDC					
Alarm Output	1 channel out: 300 mA 12 VDC					
Power						
Power Supply	12 VDC (±30%); PoE (802.3af); ePoE					
Power Consumption	Basic: 3.9 W (12 VDC); 4.6 W (PoE) Max. (H.265+IR and Warm light on): 9.3 W (12 VDC); 10.5 W (PoE)					
Environment						
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)					
Operating Humidity	≤ 95%					
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)					
Protection	IP67					
Structure						
Casing	Metal					
Product Dimensions	Φ122 mm × 110.9 mm (Φ4.80" × 4.37")					
Net Weight	0.75 kg (1.65 lb)					
Gross Weight	0.94 kg (2.07 lb)					

Ordering Information							
Туре	Part Number	Description					
	DH-IPC- HDW5449HP-ASE- D2-0280B	4 MP Dual Lens Fixed-focal Eyeball WizMind Full-color Network Camera					
	DH-IPC- HDW5449HP-ASE- D2-0360B	4 MP Dual Lens Fixed-focal Eyeball WizMind Full-color Network Camera					
4MP Camera	DH-IPC- HDW5449HP-ASE- D2-0600B	4 MP Dual Lens Fixed-focal Eyeball WizMind Full-color Network Camera					
	IPC-HDW5449HP- ASE-D2-0280B	4 MP Dual Lens Fixed-focal Eyeball WizMind Full-color Network Camera					
	IPC-HDW5449HP- ASE-D2-0360B	4 MP Dual Lens Fixed-focal Eyeball WizMind Full-color Network Camera					
	IPC-HDW5449HP- ASE-D2-0600B	4 MP Dual Lens Fixed-focal Eyeball WizMind Full-color Network Camera					
	PFA137	Junction Box					
	PFB203W	Wall Mount Bracket					
	PFA152-E	Pole Mount Bracket					
	PFB220C	Celling Mount Bracket					
Accessories (Optional)	PFA106	Mount Adapter					
,	PFM321D	12 VDC 1A Power Adapter					
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender					
	PFM900-E	Integrated Mount Tester					
	PFM114	TLC SD Card					

## **Accessories**

### Optional:



PFA137 Junction Box



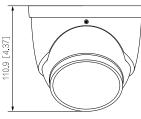
PFB203W Wall Mount Bracket



PFA152-E



Pole Mount Bracket



Dimensions (mm[inch])

3-04.5 [00.18] Ø84.0 [Ø3.31] Ø122.0 [Ø4.8]



PFB220C Celing Mount Bracket



PFA106 Mount Adapter



PFM321D 12 VDC 1A Power Adapter



LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFM900-E Integrated Mount Tester



PFM114 TLC SD Card

