DH-IPC-HDW3641TM-AS

6MP IR Fixed focal Eyeball WizSense Network Camera

Wiz Sense

· 6MP,1/2.7"progressive scan CMOS, low illuminance, high image definition
· Outputs max. 6MP (3072 × 1728) @20 fps,and supports 4MP(2688 x 1520)@30fps
· H.265 codec, high compression rate, low bit rate
· Built-in IR LED, max. IR distance: 50 m
· ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
· Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
· Intelligent detection: Tripwire, intrusion
· Abnormality detection: Motion detection, video tampering, defocus detection; scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
· Supports max. 256 G Micro SD card, built-in Mic
· 12V DC/PoE power supply
· IP67 protection
· SMD Plus

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 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

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.

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.

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.

Starlight

Dahua Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

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% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Onvif

Technical Specification

Camera

Image Sensor	1/2.7" 6Megapixel progressive scan CMOS
Max. Resolution	3072(H) x 1728(V)
ROM	128 MB
RAM	512 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3 s–1/100000 s
Min. Illumination	0.005 Lux @F1.6
S/N Ratio	＞56 dB
Illumination Distance	50 m (164.0 ft)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	2 (IR LED)
Pan/Tilt/Rotation Range	Pan: 0˚–360˚; Tilt: 0˚–78˚; Rotation: 0˚–360˚

Lens

Lens Type	Fixed-focal
Mount Type	M12
Focal Length	2.8 mm; 3.6 mm
Max. Aperture	F1.6
Field of View	2.8 mm: Horizontal 99° × Vertical 53° × Diagonal 115° 3.6 mm: Horizontal 80° × Vertical 43° × Diagonal 94°
Iris Type	Auto
Close Focus Distance	2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.3 ft)

	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	56.0 m (183.8ft)	22.4 m (73.49ft)	11.2 m (36.74ft)	5.6 m (18.37ft)
	3.6 mm	79.4 m (260.49ft)	31.8 m (104.33ft)	15.9 m (52.16ft)	7.9 m (25.91ft)

Professional, intelligent

IVS (Perimeter Protection)	Tripwire; intrusion (Recognition of human and vehicle)
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.

Video

Video Compression	H.265,H.264,H.264B,H.264H,MJPEG (only supported by sub stream)
Smart Codec	Smart H.265+/ Smart H.264+
Video Frame Rate	Main stream (3072 × 1728@1–20 fps/ 2688 × 1520@1–25/30 fps) Sub stream (704 × 576@1–25 fps/ 704 × 480@1–30 fps) Third stream (1920 × 1080@1–25/30 fps)

Stream Capability	3 streams
Resolution	3072 × 1728; 2592 × 1944; 2688 × 1520; 2560 × 1440; 2304 ×1296; 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (354 × 288/354 × 240)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–8192 Kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
Scene Self-adaptation	Yes
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Defog	Yes
Image Rotation	0°/90°/180°/270° (Support with 1080p resolution and lower)
Mirror	Yes
Privacy Masking	4 areas

Audio

Built-in MIC	Yes
Audio Compression	G.711a; G.711Mu; G.726; AAC; G.723

Alarm

Alarm Event	No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; intensity change; tripwire; intrusion; SMD

Network

Network	RJ-45 (10/100 Base-T)
SDK and API	Yes
Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; SNMP
Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P

User/Host	20 Users
Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS
Browser	IE: IE8 and later Chrome Firefox
Management Software	Smart PSS, DSS, DMSS
Mobile Phone	IOS; Android

Certification

Certification	EN 55032 EN 61000-3-2 EN 61000-3-3 EN 55024 EN 50130-4 EN55035

Power

Power Supply	12V DC (±30%), PoE (802.3af)
Power Consumption	<7.2W

Environment

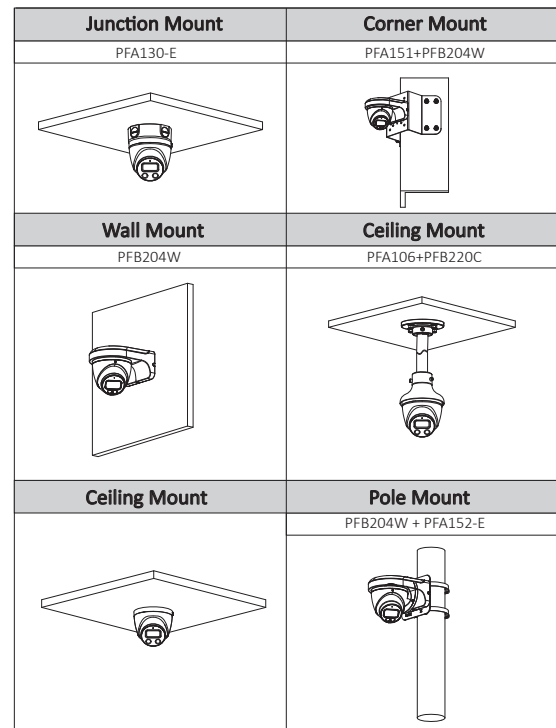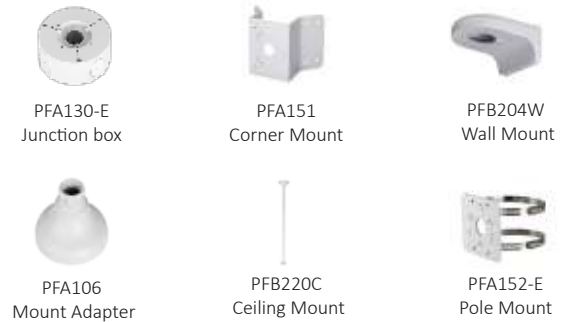| Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than 95%
Storage Conditions	-40° C to +60° C (-40° F to +140° F)
Protection Grade	IP67

Structure

Casing	Metal
Dimensions	Φ106 mm × 93.6 mm (4.17" × 3.69")
Net Weight	0.55 kg (1.21 lb)
Gross Weight	0.71 kg (1.57 lb)

Ordering Information

Type	Model	Description
6MP Camera	DH-IPC-HDW3641TMP-AS	6MP IR Fixed focal Eyeball WizSense Network Camera,PAL
Accessories	PFA130-E	Junction Box
	PFA151	Corner Mount
	PFB204W	Wall Mount
	PFA106	Mount Adapter
	PFB220C	Ceiling Mount
	PFA152-E	Pole Mount

Accessories

Optional:

PFA130-E
Junction box

PFA151
Corner Mount

PFB204W
Wall Mount

PFA106
Mount Adapter

PFB220C
Ceiling Mount

PFA152-E
Pole Mount

Junction Mount	Corner Mount
PFA130-E	PFA151+PFB204W
Wall Mount	**Ceiling Mount**
PFB204W	PFA106+PFB220C
Ceiling Mount	**Pole Mount**
	PFB204W + PFA152-E

Dimensions (mm[inch])

93.6 [3.69"]

∅106.0 [∅4.17"]
∅69.0 [∅2.72"]
4–∅4.5 [∅0.18"]