

DH-IPC-HFW3441T-ZS

4MP IR Vari-focal Bullet WizSense Network Camera



Wiz Sense

Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al 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

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.

- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520)@30 fps
- H.265 codec, high compression rate, low bit rate
- · Built-in IR LED, max. IR distance: 60 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: Intrusion, tripwire (support the classification and accurate detection of vehicle and human)
- Abnormality detection: Motion detection, video tampering, scene changing, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- · Supports max. 256 G Micro SD card
- 12V DC/POE power supply
- IP67, IK10(optional) protection
- SMD Plus













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.

Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading 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 $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

× 240)

Technical Specification						Bit Rate Control	CBR/VBR	
Camera				Video Bit Rate	H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps			
Image Sensor 1/3"4Megapixel progressive CMOS			Day/Night	Auto(ICR)/Color/B/W				
Max. Resolution		2688 (H) ×1520 (V)					BLC	Yes
ROM		128 MB					HLC	Yes
RAM		512 MB					WDR	120 dB
Scanning System		Progressive					White Balance	Auto/natural/street lamp/outdoor/manual/regional
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s						custom
Min. Illumination		0.005 Lux@F1.5 (Color, 30IRE) 0.0005 Lux@F1.5 (B/W, 30IRE)					Gain Control Noise Reduction	Auto/Manual 3D DNR
S/N Ratio		0 Lux (Illuminator on) > 56 dB					Motion Detection	OFF/ON (4 areas, rectangular)
Illumination Dist	ance	60 m (197 ft)					Region of Interest(RoI)	Yes (4 areas)
		Auto/Manual					Smart Illumination	Yes
Illuminator On/Off Control Illuminator Number		4 (IR LED)					Image Rotation	$0^\circ/90^\circ/180^\circ/270^\circ$ (Support $90^\circ/270^\circ$ with $1920\times1080^\circ$ resolution and lower.)
Pan/Tilt/Rotation Range		Pan: 0°-360°; Tilt: 0°-90°; Rotation: 0°-360°					Mirror	Yes
Lens						Privacy Masking	4 areas	
Lens Type		Motorized vari-focal					Alarm	
Mount Type Focal Length		φ14 2.7 mm–13.5 mm					Alarm Event	No SD card; SD card full; SD card error; less service tin of SD card (smart card supports); network disconnect IP conflict; illegal access; voltage detection; security exception; motion detection; scene changing; intensit change; tripwire; intrusion; SMD
Max. Aperture		F1.5						
Field of View		Horizontal: 104°–27° Vertical: 55° –15°					Network	
rield of view		Diagonal: 124° –31°					Network	RJ-45 (10/100 Base-T)
Iris Type		Fixed					SDK and API	Yes
Close Focus Dista	ance Lens	0.8 m (2.6 ft) Detect	Observe	Recognize	Identify		Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RT SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP Multicast; ICMP; IGMP; NFS; PPPoE; SNMP
DORI Distance	W	64.0 m (210.0ft) 222.0 m	25.6 m (84.0 ft) 88.8m	12.8 m (42.0 ft) 44.4 m	6.4 m (21.0 ft) 22.2 m		Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security lo IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trus
Professional,		(728.3 ft) (291.3 ft) (145.7 ft) (72.8 ft)				Interoperability	execution; trusted upgrade ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Mileston- Genetec	
Perimeter Protec	_	Tripwire; intrusion (Recognition of human and vehicle)					Scene Self-adaptation	Yes
Intelligent Search	h	Work together with Smart NVR to perform refine					(SSA) User/Host	20 (Total bandwidth: 64 M)
intelligent search		intelligent search, event extraction and merging to event videos					Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS
Video								IE: IE8, IE9, IE11
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)					Browser	Chrome Firefox
Smart Codec		Smart H.265+/ Smart H.264+					Management Software	Smart PSS, DSS, DMSS
Video Frame Rate		Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) third stream (180 × 770@1–75/30 fps)				Mobile Phone Certification	IOS; Android	
Stroam Canability		third stream (1280 × 720@1–25/30 fps) 3 streams					Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive
Stream Capability		4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704						2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Resolution		× 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					Power	

Wiz Sense | DH-IPC-HFW3441T-ZS

Power Supply	12V DC/PoE (802.3af)		
Power Consumption	< 9.8W		
Environment			
Operating Conditions	−30°C to +60°C (−22°F to +140°F)/less than 95%		
Storage Conditions	-40°C to +60°C (-40°F to +140°F)		
Protection Grade	IP67		

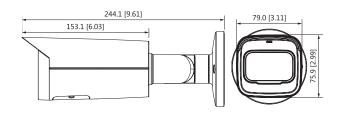
Structure	5
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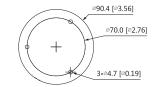
Casing	Metal
Dimensions	244.1 mm × 79.0 mm × 75.9 mm (9.6" × 3.1" × 3.0") (L × W × H)
Net Weight	820 g (1.8lb)
Gross Weight	1090 g (2.4lb)

Ordering Information					
Туре	Part Number	Description			
4MP Camera	DH-IPC-HFW3441TP-ZS	4MP IR Vari-focal Bullet WizSense Network Camera,PAL			
	DH-IPC-HFW3441TN-ZS	4MP IR Vari-focal Bullet WizSense Network Camera,NTSC			
	PFA130-E	Junction Box			
	PFA152-E	Pole Mount			
Accessories	PFM321D	DC12V1A Power Adapter			
(optional)	LR1002-1ET/1EC	Single-port Long Reach Ethernet Over Coax Extender			
	PFM900-E	Integrated Mount Tester			
	PFM114	TLC SD Card			

Pole Mount Junction Box PFA130-E+PFA152-E PFA130-E

Dimensions (mm[inch])





Accessories

Optional:







LR1002-1ET/1EC Single-port long reach ethernet over coax extender



PFA152-E Pole Mount



PFM900-E Integrated Mount tester



PFM321D DC12V1A Power Adapter



PFM114 TLC SD card