



NSC-HFW3441T-ZS

4MP IR Vari-focal Bullet Network Camera



Launched by Dahua Technology, 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

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) 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
- IP Address locking system, after several (customizable) number of wrong access
- · AES256 encryption for video recorded on SD card and exported video
- encrypted video live stream by TLS secure channel













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.

NetShield serie devices have passed hard penetration tests and have high level of cyber security.

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.

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	128 MB				HLC	Yes
RAM	512 MB	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					Gain Control	custom
Min. Illumination	0.005 Lux@F1.5 (Color, 30IRE) 0.0005 Lux@F1.5 (B/W, 30IRE) 0 Lux (Illuminator on)					Noise Reduction	Auto/Manual 3D DNR
S/N Ratio	> 56 dB				Motion Detection	OFF/ON (4 areas, rectangular)	
Illumination Distance	60 m (197 ft))				Region of Interest(RoI)	Yes (4 areas)
Illuminator On/Off Control	Auto/Manua	I				Smart Illumination	Yes
Illuminator Number	4 (IR LED)					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 1920×1080 resolution and lower.)
Pan/Tilt/Rotation Range	Pan: 0°-360°	Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°				Mirror	Yes
Lens					Privacy Masking	4 areas	
Lens Type	Motorized va	Motorized vari-focal				Alarm	
Mount Type	ф14					No SD card; SD card full; SD card error; less service time	
Focal Length Max. Aperture	2.7 mm–13.5 mm F1.5				Alarm Event	of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection; scene changing; intensity change; tripwire; intrusion; SMD	
	Horizontal: 1	04°-27°				Network	change, dipwire, inclusion, swib
Field of View	Vertical: 55° –15° Diagonal: 124° –31°			Network	RJ-45 (10/100 Base-T)		
Iris Type	Fixed	Fixed				SDK and API	Yes
Close Focus Distance	0.8 m (2.6 ft)	0.8 m (2.6 ft)				3DK dilu AFI	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP;
Lens	Detect	Observe	Recognize	Identify		Protocol	SMTP; FTP; SFTP; DHCP; DNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; SNMP
DORI Distance W	64.0 m (210.0ft)	25.6 m (84.0 ft) 88.8m	12.8 m (42.0 ft) 44.4 m	6.4 m (21.0 ft)		Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted
Т	(728.3 ft)	(291.3 ft)	(145.7 ft)	(72.8 ft)			execution; trusted upgrade
Professional, Intellig	ent					Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI
Perimeter Protection		rusion (Recogni				Scene Self-adaptation (SSA)	Yes
Intelligent Search	Work together with Smart NVR to perform refine intelligent Search intelligent search, event extraction and merging to event videos				User/Host	20 (Total bandwidth: 64 M)	
Video						Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS
Video Video Compression H.265; H.264; H.264H; H.264B; MJPEG(only supported				Browser	IE: IE8, IE9, IE11 Chrome Firefox		
by sub stream)				Management Software	DSS NetShield		
Smart Codec		5+/ Smart H.264					
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 (1280 × 720@1–25/30 fps)				Certification	CE-LVD: EN62368-1	
Stream Capability	3 streams 4M (2608 × 1520): 3M (2304 × 1206): 1090b (1020 ×					Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU

FCC: 47 CFR FCC Part 15, Subpart B

UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07

4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 ×

× 240)

Resolution

1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352

Power

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

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

Accessories

Optional:



PFA130-E Junction Box



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



PFA152-E Pole Mount



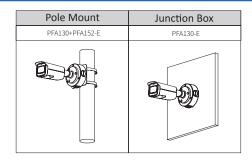
PFM900-E Integrated Mount tester



PFM321D DC12V1A Power Adapter



PFM114 TLC SD card



Dimensions (mm[inch])

