

# DH-IPC-UDBW3558R-Z(A)S

5MP IR Vari-focal Dome 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**

#### **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.

- \*The parameters and datasheets below can only be applied to 3558-S2 series
- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5 MP (2960 × 1668) @20 fps, and supports 2688 × 1520 (2688 × 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 40 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.
- Alarm: 1 in, 1 out (Only ZAS supports); audio: 1 in, 1 out (Only ZAS supports); supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67, IK10 protection.
- · SMD Plus.













#### 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.

#### **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, IK10, 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.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). 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.

Technical Specification							Stream Capability	2 streams
Camera								2960 × 1668 (2960 × 1668); 2880 × 1620 (2880 × 1620); 2688 × 1520 (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 × 480); CIF (352 × 288/352 × 240)
Image Sensor		1/2.7" CMOS					Resolution	
Max. Resolution		2960 (H) × 1668 (V)					Resolution	
ROM		128 MB					Bit Rate Control	CBR/VBR
RAM		256 MB						H.264: 32 kbps–8192 kbps
Scanning System		Progressive					Video Bit Rate	H.265: 12 kbps–8192 kbps
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Day/Night	Auto(ICR)/Color/B/W
Min. Illumination		0.007 lux@F1.5 (Color, 30 IRE) 0.0007 lux@F1.5 (B/W, 30 IRE)					BLC HLC	Yes Yes
C/N Datia		0 lux (Illuminator on) >56 dB					WDR	120 dB
	S/N Ratio		<del>(1</del> ) (10)					Auto; natural; street lamp; outdoor; manual; regional
Illumination Distance		40 m (131.23 ft) (IR)					White Balance	custom
Illuminator On/Off Control		Auto; Manual					Gain Control	Auto; Manual
Illuminator N	Illuminator Number						Noise Reduction	3D NR
Pan/Tilt/Rot	ation Range	Pan: 0°–355° Tilt: 0°–75°					Motion Detection	OFF/ON (4 areas, rectangular)
Lens		Rotation: 0°–355°					Region of Interest (RoI)	Yes (4 areas)
		Motorized vari-focal					Smart Illumination	Yes
Lens Mount	Lens Type  Lens Mount		TI-TOCAT				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $2688\times1520$ resolution and lower)
Focal Length		2.7 mm–13.5 mm					Mirror	Yes
Max. Aperture		F1.5					Privacy Masking	4 areas
Field of View		H: 113°-31°; V: 58°-18°; D: 138°-36°					Audio	
Iris Control		Fixed					Built-in MIC	Yes
Close Focus Distance		0.8 m (2.62 ft)					Audio Compression	G.711a; G.711Mu; PCM; G.726
	Lens	Detect	Observe	Recognize	Identify		Alarm	
DORI		64.0 m	25.6 m	12.8 m	6.4 m		Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwine; intrusion; audio detection; voltage detection; defocus detection; external alarm (Only- ZAS supports); SMD; security exception
Distance	W T	(210.00 ft) 210.0 m (689.00 ft)	(84.00 ft) 84.0 m (275.60 ft)	(42.00 ft) 42.0 m (137.80 ft)	(21.00 ft) 21.0 m (68.90 ft)			
Intelligen	ce	(22.22.1)					Network	
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and					Network Port	RJ-45 (10/100 Base-T)
		human)  Work together with Smart NVR to perform refine					SDK and API	Yes
Smart Search		intelligent search, event extraction and merging to event videos					Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Boujour
Video								
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone
Smart Codec		Smart H.265+; Smart H.264+					User/Host	20 (Total bandwidth: 48 M)
Video Frame Rate		Main stream: $2960 \times 1668 \ @(1-20 \ fps)/2688 \times 1520 \ @(1-25/30 \ fps)$ sub stream: $704 \times 576 \ @(1-25 \ fps)/704 \times 480 \ @(1-30 \ fps)$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.					Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
							Browser	IE; Chrome; Firefox
							Management Software	Smart PSS; DSS; DMSS
							Mobile Client	iOS; Android

Cyber Security	Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification				
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) (Only- ZAS supports)				
Audio Output	1 channel (RCA port) (Only- ZAS supports)				
Alarm Input	1 channel in: 5mA 3V–5V DC (Only- ZAS supports)				
Alarm Output	1 channel out: 300mA 12V DC (Only- ZAS supports)				
Power					
Power Supply	12 VDC/PoE (802.3af)				
Power Consumption	-ZS: Basic: 2.4 W (12 VDC); 3 W (PoE) Max. (H.265+ max. resolution + max. stream+ WDR + IR intensity + IVS): 6.1 W (12 VDC); 7.3 W (PoE) -ZAS: Basic: 2.4 W (12 VDC); 3 W (PoE) Max. (H.265+ max. resolution + max. stream+ WDR + IR intensity + IVS): 6.2 W (12 VDC); 7.4 W (PoE)				
Environment					
Operating Temperature	−30 °C to +60 °C (−22 °F to +140 °F)				
Operating Humidity	≤95%				
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)				
Storage Humidity	≤95%				
Protection	IP67; IK10				
Structure					
Casing Material	Metal				
Product Dimensions	93.4 mm × Φ122 mm (3.68" × Φ4.80")				
Net Weight	-ZS: 0.50 kg (1.10 lb) -ZAS: 0.51 kg (1.12 lb)				
Gross Weight	-ZS: 0.66 kg (1.46 lb) -ZAS: 0.67 kg (1.48 lb)				

Ordering Information							
Туре	Model	Description					
5MP Camera	DH-IPC-UDBW3558R-ZAS	5MP IR Vari-focal Dome WizSense + Network Camera					
SIMP Carriera	DH-IPC-UDBW3558R-ZS	5MP IR Vari-focal Dome WizSense + Network Camera					
	PFA137	Junction Box					
	PFB203W	Wall Mount Bracket					
	PFA109	Mount Adapter					
Accessories	PFB220C	Ceiling Mount Bracket					
(Optional)	PFA152-E	Pole Mount Bracket					
	PFM321D	12 VDC 1A Power Adapter					
	PFM900-E	Integrated Mount Tester					
	TF-P100	MicroSD Memory Card					

#### **Accessories**

## Optional:







Bracket

Ceiling Mount Bracket



PFA152-E Pole Mount Bracket



PFA109

Mount Adapter

PFM321D 12 VDC 1A Power Adapter



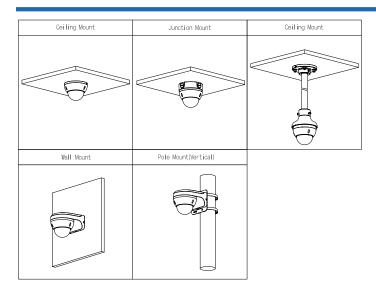
PFB220C

PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

# Wiz Sense | DH-IPC-UDBW3558R-Z(A)S



### Dimensions (mm[inch])

