

# DH-IPC-HDBW2441R-Z(A)S-ANZ

4MP IR Vari-focal Dome Network Camera



Launched by Dahua Technology, Lite-ANZ 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, Lite-ANZ provides intelligent, simple and inclusive products and solutions.

### **System Overview**

With advanced deep learning algorithm, Dahua Lite-ANZ 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**

### 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) are largely reduced.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@20 fps and supports 2560 × 1440 (2560 × 1440)@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 and IK10 protection.



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

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### **Technical Specification**

Camera					
Image Sensor		1/2.9" CMOS			
Max. Resolution		2688 (H) × 1520 (V)			
ROM		128 MB			
RAM		128 MB			
Scanning Sys	tem	Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.006 lux@F1.5 (Color, 30 IRE) 0.0006 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		>56 dB			
Illumination	Distance	40 m (131.23 ft) (IR LED)			
Illuminator C	n/Off Control	Auto; Manual			
Illuminator Number		2 (IR LED)			
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–75° Rotation: 0°–355°			
Lens					
Lens Type		Motorized vari-focal			
Lens Mount		ф14			
Focal Length		2.7 mm–13.5 mm			
Max. Apertu	re	F1.5			
Field of View		H: 104°–29°; V: 54°–16°; D: 125°–34°			
Iris Control		Fixed			
Close Focus I	Distance	0.8 m (2.62 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	64.0 m (209.97 ft)	25.6 m (83.99 ft)	12.8 m (41.99 ft)	6.4 m (20.99 ft)
	Т	210.0 m (688.97 ft)	84.0 m (275.59 ft)	42.0 m (137.80 ft)	21.0 m (68.90 ft)
Intelligence					
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)			
Smart 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.264H; H.264B; MJPEG (Only supported			

Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Smart H.265+ Smart H.264+
Video Frame Rate	Main stream: 2688 × 1520@(1–20 fps )/2560 × 1440@ (1-25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 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.

Stream Capability2 streamsResolution2688 + 1520 (2684 × 1520; 1580 × 1440 (2580 × 1440); 2504 × 1296 (2304 × 1296; 1080 p (1920 × 1000); 1.3M 200 × 1000				
Resolution2304 1296 (2304 x 1296): 10800 (1920 x 1080): 1.3M 480): VGA (640 x 480): CIF (352 x 288/352 x 240)Bit Rate ControlCBR/VBRVideo Bit Rate12.64: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbpsDay/NightAuto(ICR)/Color/B/WBLCVsHLCVsHLCValoWhite Balance20 dBGain ControlManual,AutoMotion DetectionOFF/ON (4 areas, rectangular)Motion DetectionOFF/ON (4 areas, rectangular)Marge Rotation19.02MirrorVesHurdinal Composition of the solution and lower)Solution and lower)MirrorVesAudio Compression0.711a0 / 270' (Suppost 90' / 270' with 2688 x 1520)MirrorVesAudio Compression0.711a0 / 270' (Suppost 90' / 270' with 2688 x 1520)Audio Compression0.711a0 / 270' (Suppost 90' / 270' with 2688 x 1520)Audio Compression0.711a0 / 270' (Suppost 90' / 270' with 2688 x 1520)Audio Compression0.50 card; SD card full; SD card error; network solution and lower)Audio Compression0.50 card; SD card full; SD card error; network solution wither enterprise; mitroson addicated to with enterpr	Stream Capability	2 streams		
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Video Bit NateH.265: 12 kbps-6144 kbpsDay/NightAuto(ICR)/Color/B/WBLCYesHLCYesWDR120 dBWhite BalanceCustom for natural; street lamp; outdoor; manual; regional customGain ControlManual,AutoNoise ReductionDF/ON (4 areas, rectangular)Motion DetectionOFF/ON (4 areas)Smart IlluminationYesImage RotationYesMirrorYesPrivacy Masking4 areasAudioYesAudio CompressionG.7113 G.711Mu; G.726; PCMAudio CompressionG.7113 G.711Mu; G.726; PCMAudio CompressionSo SD card; SD card full; SD card error; network disconnertion; PC conflict; illegal access; motion detectory, video tampering; tripwire; intrusion; audio 	Bit Rate Control	CBR/VBR		
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SDK and API   Yes     Network Protocol   IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP     Interoperability   ONVIF (Profile S/Profile T); CGI; P2P; Milestone     User/Host   6 (Total bandwidth: 36 M)     Storage   FTP; SFTP; Micro SD card (support max. 256 GB)     Browser   IE Chrome Firefox     Management Software   Smart PSS; DMSS	Network			
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Network Protocol SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP   Interoperability ONVIF (Profile S/Profile T); CGI; P2P; Milestone   User/Host 6 (Total bandwidth: 36 M)   Storage FTP; SFTP; Micro SD card (support max. 256 GB)   Browser IE Chrome Firefox   Management Software Smart PSS; DSS; DMSS	SDK and API	Yes		
User/Host   6 (Total bandwidth: 36 M)     Storage   FTP; SFTP; Micro SD card (support max. 256 GB)     Browser   IE Chrome Firefox     Management Software   Smart PSS; DMSS	Network Protocol	SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast;		
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Browser IE Chrome Firefox   Management Software Smart PSS; DSS; DMSS	User/Host	6 (Total bandwidth: 36 M)		
Browser Chrome Firefox   Management Software Smart PSS; DSS; DMSS	Storage	FTP; SFTP; Micro SD card (support max. 256 GB)		
	Browser	Chrome		
Mobile Client iOS; Android	Management Software	Smart PSS; DSS; DMSS		
	Mobile Client	iOS; Android		

### | DH-IPC-HDBW2441R-Z(A)S-ANZ

Cyber Security	Video 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 execution; Trusted upgrade		
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: 2.3 W (12 VDC); 3.2 W (PoE) Max. (H.265+intelligence on +WDR +IR on): 6.4 W (12 VDC); 7.6 W (PoE) -ZAS: Basic: 2.3 W (12 VDC); 3.2 W (PoE) Max. (H.265+intelligence on +WDR +IR on): 6.5 W (12 VDC); 7.7 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)		
Protection	IP67; IK10		
Structure			
Casing Material	Metal		
Product Dimensions	93.4 mm × Φ122 mm (3.68" × Φ4.80")		
Net Weight	-ZS: 0.49 kg(1.08 lb) -ZAS: 0.52 kg(1.15 lb)		
Gross Weight	-ZS: 0.66 kg(1.46 lb) -ZAS: 0.68 kg(1.50 lb)		

Ordering Information				
Туре	Model	Description		
4MP Camera	DH-IPC-HDBW2441R-ZAS-ANZ	4MP IR Vari-focal Dome Lite-ANZ Network Camera		
	DH-IPC-HDBW2441R-ZS-ANZ	4MP IR Vari-focal Dome Lite-ANZ 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		
	РҒМ900-Е	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

### Accessories

### Optional:



PFA137

Junction

Box



PFB203W

Wall Mount

Bracket

PFA152-E

Pole Mount

Bracket



PFA109 Mount Adapter



PFM321D 12 VDC 1A Power Adapter





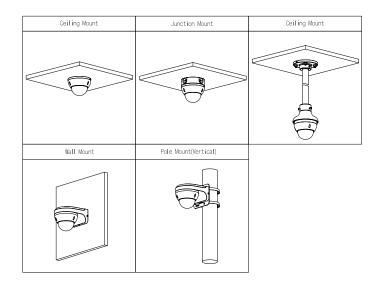


PFM900-E Integrated Mount Tester

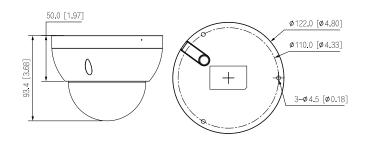


TF-P100 MicroSD Memory Card

### | DH-IPC-HDBW2441R-Z(A)S-ANZ



### Dimensions (mm[inch])



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