

# VD-2TM41-AS 4MP Lite IR Fixed-focal Eyeball Network Camera

- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 × 1440)@25/30 fps, Max. supports 4MP (2688 × 1520) @ 20 fps
- H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED, max IR distance: 30 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 detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnected, IP conflict, illegal access, voltage detection
- · Supports max. 256 GB Micro SD card, built-in Mic
- 12V DC/POE power supply
- IP67 protection

# **Series Overview**

With upgraded H.265 encoding technology, Dahua Lite series network camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better color image in the condition of low illumination. It supports SD card storage, dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 (Supported by some select models).

## **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.

# 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.















#### Starlight

With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

#### IVS

With advanced video algorithm, Dahua IVS technology supports intelligent functions, such as tripwire and intrusion.

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





Technical S	Specification	ı					2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 ×
Camera						Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (70 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/35 × 240)
Image Sensor		1/3" 4Mega <sub> </sub>	pixel progress	ive CMOS		Bit Rate Control	CBR/VBR
Max. Resolution		2688 (H) × 1	520 (V)			Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps
ROM		128 MB				Day/Night	Auto(ICR)/Color/B/W
RAM		128 MB				BLC	Yes
Scanning System		Progressive					
Electronic Shutter Speed		Auto/Manua	al 1/3 s–1/100	000 s		HLC	Yes
Min. Illuminat	tion	0.008 Lux @	0.008 Lux @ F1.6			WDR	120 dB
S/N Ratio		>56 dB				White Balance	Auto/natural/street lamp/outdoor/manual/regiona custom
Illumination D	istance	30 m (98.43	ft)			Gain Control	Auto/Manual
Illuminator Or	n/Off Control	Auto/Manua	al			Noise Reduction	3D NR
Illuminator Number		2 (IR LED)				Motion Detection	OFF/ON (4 areas, rectangular)
		Horizonal: 0				Region of Interest(RoI)	Yes (4 areas)
Pan/Tilt/Rotation Range			Vertical: 0°–78° Rotation: 0°–360°			Smart Illumination	Yes
Lens						Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with $2688\times 1$ resolution and lower.)
Lens Type		Fixed-focal				Mirror	Yes
Mount Type		M12	M12			Privacy Masking	4 areas
Focal Length		2.8 mm 3.6 mm	2.8 mm 3.6 mm			Audio	
Max. Aperture	е	F1.6 F1.6				Built-in MIC	Yes
		2.8 mm:	2 00 ) /+:	LEE 08 D:	121.08	Audio Compression	G.711A; G.711Mu; G.726
Field of View		3.6 mm:	Horizonal 102.0° × Vertical 55.0° × Diagonal 121.0° 3.6 mm: Horizonal 84.0° × Vertical 45.0° × Diagonal 100.0°			Alarm	
Iris Type		Fixed 2.8 mm: 0.9 m (2.95 ft)				Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltag detection; audio detection; safety exception
Close Focus D	istance	3.6 mm: 1.6 m (3.61 ft)				Network	
	Lens	Detect	Observe	Recognize	Identify	Network	RJ-45 (10/100 Base-T)
DORI Distance	2.8 mm	56 m (183.73 ft)	22.4 m (73.49 ft)	11.2 m (36.75 ft)	5.6 m (18.37 ft)	SDK and API	Yes
	3.6 mm	80 m (262.47 ft)	32.0 m (104.99 ft)	16.0 m (52.49 ft)	8.0 m (26.25 ft)		Video encryption; firmware encryption; configurati
Smart event			(2011) 19 (2011) 19			Cyber Security	encryption; Digest; WSSE; account lockout; securit logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted I
IVS Tripwire; intrusion				trusted execution; trusted upgrade  IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP;			
Video		H.265; H.264; H.264B; MJPEG (only supported by the				Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPOE;
Video Compression Smart Codec		sub stream) Smart H.265+/ Smart H.264+				Interoperability	Bonjour  ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
Video Frame Rate		Main stream: 2688 × 1520 (1 fps-20 fps) 2560 × 1440 (1 fps-25/30 fps)				User/Host	20
						Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); N
		Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)				515, 405	IE
						Browser	Chrome Firefox

Stream Capability

2 streams

Management Software

Smart PSS; DSS; DMSS



Mobile Phone	IOS; Android
Certification	
Certifications	CE-LVD: EN62368-1 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

# Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 6.6W

## Environment

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

## Structure

Casing	Metal
Dimensions	99.1 mm × Φ121.9 mm (3.9" × Φ4.8")
Net Weight	0.48 kg (1.1 lb)
Gross Weight	0.65 kg (1.4 lb)

Ordering Information				
Туре	Part Number	Description		
4MP Camera	DH-IPC- HDW2431TMP-AS-S2	4MP Lite IR Fixed-focal Eyeball Network Camera, PAL		
nviii cumeru	DH-IPC- HDW2431TMN-AS-S2	4MP Lite IR Fixed-focal Eyeball Network Camera, NTSC		
	PFA130-E	Junction Box		
	PFB203W	Wall Mount		
	PFA152-E	Pole Mount		
Accessories (optional)	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



PFB203W Wall Mount



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

Junction Mount	Wall Mount	Pole Mount
PFA130-E	PFB203W	PFB152-E+PFA203W

# Dimensions (mm[inch])



