

# DH-IPC-HDW2531T-AS-S2

5MP Lite IR Fixed-focal Eyeball Network Camera



- $\cdot$  5MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs 2688×1520 (2688×1520) @ 25/30 fps, and supports max. 5MP (2592×1944) @ 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 DNR, 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
- $\cdot$  12V DC/PoE power support
- · IP67 protection



#### System Overview

With upgraded H.265 encoding technology, Dahua Lite series camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better colorful image in the environment of low illumination. It supports SD card storage, waterproof function, dust-proof function, complying to the standards of IP67.

#### Functions

#### Smart ( H.265+ & H.264+ )

Adopting advanced algorithm of auto stream control according to the environment, Dahua smart encoding technology realizes the higher efficiency than (H.265 & H.264), providing high-quality video, and reducing the cost of storage and transmission.

#### Wide dynamic range (WDR)

Dahua adopts advanced Wide Dynamic Range (WDR) technology. You can get clear details in the environment of strong brightness contrast. In high brightness and back- light environment, bright region and dark region with strong light source, you can also get clear images.

#### 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.

#### Intelligent Video Analysis (IVS)

With advanced video algorithm, Dahua camera supports intelligent detection, such as tripwire and intrusion and so on.

#### 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.



# Lite Series | DH-IPC-HDW2531T-AS-S2

## **Technical Specification**

DORI         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)           3.6 mm         80 m         32.0 m         16.0 m         8.0 m	<b>Technical S</b>	pecification				
Effective Pixels       2592 (H) × 1944 (V)         ROM       128 MB         RAM       256 MB         RAM       256 MB         Scanning Syster       Progressive         Bit International System       Auto/Manuel Jose Jose Jose Jose Jose Jose Jose Jose	Camera					
ROM128 MBRAM128 MBRAM128 MBScanning SystemProgressiveElectronic Shuter SpeedAuto/Manual/J s -1/JOUOUSMin. Illuminator0.008 Lux $electronic Shuter SpeedMin. Illuminator0.008 Lux electronic Shuter SpeedMin. Illuminator0.008 Lux electronic Shuter SpeedRohoff Could C$	Image Sensor		1/2.7" 5Megapixel progressive CMOS			
RAM       256 MB         Progressive Vertical Scanning System       Progressive Vertical Scanning System         GLAND MALLE Seed         Auto/Manue/IJS s-1/100000000000000000000000000000000000	Effective Pixels		2592 (H) × 1944 (V)			
Reference in the second of th	ROM		128 MB			
Introduction of the second o	RAM		256 MB			
Main Illumination       0.008 Lux $= 1.6$ IR Distance       30 m (98.43 $\pm 1.5$ IR Distance       Auto/Manua         IR On/Off Control       Auto/Manua         IR LEDS Number       2         Pan/Tilt/Rotation Range       Pan: 0 <sup>360</sup> " states sta	Scanning Syste	m	Progressive			
Note of the second of the se	Electronic Shut	ter Speed	Auto/Manual 1/3 s-1/100000 s			
Note of the second se	Min. Illuminatio	on	0.008 Lux @ F1.6			
In Regeneration of the second of the secon	IR Distance		30 m (98.43 ft)			
Pan/Tilt/Rotation: $a^{0}-360^{\circ}$ Station: $a^{0}-360^{\circ}$ Lens         Lens Type         Lens Type         Mount Type         Mount Type         Scale and the second sec	IR On/Off Cont	rol	Auto/Manual			
Tilt: 0°-78° Rotation: 0°-360°LensLens TypeFixedLens TypeM12Mount Type $112$ Focal Length $112$ Focal Length $116$ Max. Aperture $116$ Max. Aperture $116$ Field of View $2.8$ mm: Pan: 103.0° Tilt: 71.0° Diagonal: 1132.0° 3.6 mm: $1102$ Field of View $2.8$ mm: Pan: 84.0° Tilt: 58.0° Diagonal: 1132.0° S.6 mm: $3.6$ mm: 84.0° Tilt: 58.0° 	IR LEDs Number		2			
Lens TypeFixedMount TypeM12Focal Length $2.8  \text{mm}$ $3.6  \text{mm}$ Max. Aperture $F1.6$ F1.6Fase Apperture $F1.6$ F1.6Filed of View $2.8  \text{mmi}$ $2.8  \text{mmi}$ $2.4  \text{mmi}$ $3.6  \text{mmi}$ $2.4  \text{mmi}$ $3.6  \text{mmi}$ $3.6  \text{mmi}$ $3.6  \text{mmi}$ $3.6  \text{mmi}$ $3.6  \text{mmi}$ $3.0  \text{mi}$ $3.0  \text{mi}$ $3.0  \text{mi}$ $3.0  \text{mi}$ $3.0  \text{mi}$ $3.0  \text{mi}$ $1.2  \text{mi}$ $3.0  \text{mi}$ $3.0  \text{mi}$ $3.0  \text{mi}$ $1.2  \text{mi}$ $3.0  \text{mi}$ $3.0  \text{mi}$ $1.2  $	Pan/Tilt/Rotation Range		Tilt: 0°–78°			
Mount Type       M12         Focal Length $2.8 \text{ mm}$ $3.6 \text{ mm}$ $2.8 \text{ mm}$ $Ax. Aperture$ $F1.6$	Lens					
Focal Length       2.8 mm         Max. Aperture       F1.6         Max. Aperture       2.8 mm:         Base of the second se	Lens Type		Fixed			
3.6 mmMax. ApertureF1.6 F1.6Semm: Pan: 103.0° Tilt: 71.0° Diagonal: 132.0° 3.6 mm: Pan: 84.0° Tilt: 58.0° Diagonal: 11.0°Field of ViewField of ViewField of ViewSemm: Pan: 84.0° Tilt: 58.0° Diagonal: 11.0°Field of ViewField of ViewSemm: Pan: 84.0° Tilt: 58.0° Diagonal: 11.0°Field of ViewField of ViewField of ViewField of ViewField of ViewField of ViewField of ViewPan: 84.0° Tilt: 58.0° Diagonal: 11.0°Field of ViewField of ViewClose Focus Diagonal: 112-0°Semm: 1.6 mit (183.75 ft)Semm: 1.6 mit (183.75 ft)Semm: 1.6 mit (183.75 ft)Semm: 1.6 mit (183.75 ft)Semm	Mount Type		M12			
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Par: 103.0° Til: 71.0° Diagonal: 13J.0° Sa mm: Par: 86.0° Tilt: 58.0° Diagonal: 11J.0°Field of ViewSa mm: Par: 86.0° Tilt: 58.0° Diagonal: 11J.0°Iris TypeFixed apertureClose Focus J.2Sa mm: 0.9 3.6 mm: 1.6°Close Focus J.2Sa mm: 0.9 3.6 mm: 1.6°DoRISa mm: 0.9 Sa mm: 1.6°DORI DORI DistanceLensDetectObserveRecognizeIdentifyJ.2Sa mm: 0.9 Sa mm: 1.6°Sa mm: 0.9 Sa mm: 1.6°DORI DORI DIStanceSa mm: 0.9 Sa mm: 1.6°Sa mm: 0.9 Sa mm: 1.6°Sa mm: 0.9 Sa mm: 1.6°J.2Sa mm: 0.9 Sa mm: 1.6°Sa mm: 0.9 Sa mm: 1.6°Sa mm: 0.9 Sa mm: 1.6°J.2Sa mm: 0.9 Sa mm: 1.6°Sa mm: 0.9 Sa mm: 1.6°Sa mm: 0.9 Sa mm: 1.6°Sa mm: 0.9 Sa mm: 1.6°J.2Sa mm: 0.9 Sa mm: 1.6°Sa mm: 0.9 Sa mm: 1.6°Sa mm: 0.9 Sa mm: 1.6°J.2Sa mm: 0.9 Sa mm: 0.9Sa mm: 0.9 Sa mm: 0.9Sa mm: 0.9 Sa mm: 0.9Sa mm: 0.9 Sa mm: 0.9J.2Sa mm: 0.9 Sa mm: 0.9Sa mm: 0.9 Sa mm: 0.9<	Max. Aperture					
Close Focus Distance         2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.6 m (3.61 ft)           DORI Distance         Lens         Detect         Observe         Recognize         Identify           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)           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)	Field of View		Pan: 103.0° Tilt: 71.0° Diagonal: 132.0° 3.6 mm: Pan: 84.0° Tilt: 58.0°			
Lens         Detect         Observe         Recognize         Identify           DORI         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)           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)	Iris Type		Fixed apertu	re		
DORI         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)           3.6 mm         80 m (262.47 ft)         32.0 m (15.249 ft)         16.0 m (26.25 ft)         26.25 ft)	Close Focus Dis	stance				
2.8 mm         (183.73 ft)         (73.49 ft)         (36.75 ft)         (18.71 ft)           Distance         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)		Lens	Detect	Observe	Recognize	Identify
3.6 mm (262.47 ft) (104.99 ft) (52.49 ft) (26.25 ft)		2.8 mm				5.6 m (18.37 ft)
Smart event		3.6 mm				8.0 m (26.25 ft)
	Smart even	t				

General IVS Analytics	Tripwire; intrusion
Video	
Video Compression	H.265; H.264; H.264B; MJPEG
Smart Codec	Yes
Video Frame Rate	Main stream: 2592 × 1944 (1 fps-20 fps) 2688 × 1520 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)

Stream Capability	2 streams
Resolution	2592×1944(2592×1944); 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)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 12 Kbps-8192 Kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest(Rol)	Yes (4 areas)
Smart IR	Yes
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 $\times$ 1520 resolution and lower.)
Mirror	Yes
Privacy Masking	4 areas
Audio	
Built-in MIC	No
Audio Compression	G.711A; G.711Mu; G.726; AAC
Network	
Network	RJ-45 (10/100 Base-T)
Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP ; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; Bonjour
Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec
User/Host	20
Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
Browser	IE Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS; Android
Certification	
Certifications	CE-LVD: EN60950-1 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

## Lite Series | DH-IPC-HDW2531T-AS-S2

#### Power

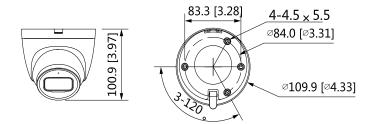
Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 7.2W
Environment	
Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than $\leq$ 95%
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Protection	IP67
Structure	
Casing	Metal + Plastic
Dimensions	100.9 mm × Φ109.9 mm (3.97" × Φ4.33")
Net Weight	0.39 kg (0.9 lb)
Gross Weight	0.56 kg (1.2 lb)

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PFM114 TLC SD Card

Junction Mount	Wall Mount	Pole Mount	
PFA130-E	PFB203W	PFA152-E+PFB203W	

## Dimensions (mm[inch])



#### **Ordering Information** Part Number Description Туре DH-IPC-5MP Lite IR Fixed-focal Eyeball Network HDW2531TP-AS-S2 Camera, PAL 5MP Camera DH-IPC-5MP Lite IR Fixed-focal Eyeball Network HDW2531TN-AS-S2 Camera, NTSC PFA130-E Junction Box PFB203W Wall Mount PFA152-E Pole Mount Accessories PFM321D DC12V1A Power Adapter (optional) Single-port Long Reach Ethernet over Coax LR1002-1ET/1EC Extender PFM900-E Integrated Mount Tester PFM114 TLC SD Card

#### Accessories

#### **Optional:**



PFA130-E Junction Box



PFM321D DC12V1A Power Adapter



PFB203W Wall Mount

LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFA152-E Pole Mount



PFM900-E Integrated Mount Tester

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