

# DH-IPC-HFW2531S-S-S2

## 5MP Lite IR Fixed-focal Bullet Network Camera



- 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
- 12V DC/PoE power support
- IP67 protection grade



### 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.

Technical Specification						
Camera						
Image Sensor		1/2.7” 5Megapixel progressive CMOS				
Effective Pixels		2592 (H) × 1944 (V)				
ROM		128 MB				
RAM		256 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				
Min. Illumination		0.008 Lux@F1.6				
IR Distance		30 m (98.43 ft)				
IR On/Off Control		Auto/Manual				
IR LEDs Number		1				
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				
Lens						
Lens Type		Fixed				
Mount Type		M12				
Focal Length		2.8 mm 3.6 mm				
Max. Aperture		F1.6 F1.6				
Field of View		2.8 mm: Pan: 103.0° Tilt: 71.0° Diagonal: 132.0° 3.6 mm: Pan: 84.0° Tilt: 58.0° Diagonal: 110.0°				
Iris Type		Fixed 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)	
Smart event						
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(Roi)		Yes (4 areas)	
Smart IR		Yes	
Image Rotation		0°/90°/180°/270° (Supports 90°/270° with 2688 × 1520 resolution and lower.)	
Mirror		Yes	
Privacy Masking		4 areas	
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	

## Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 5.6W

## Environment

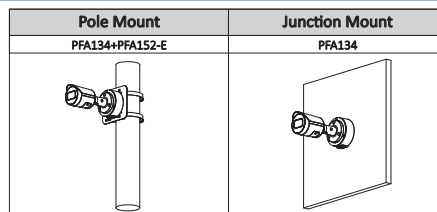
Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than ≤ 95% RH
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Protection Grade	IP67

## Structure

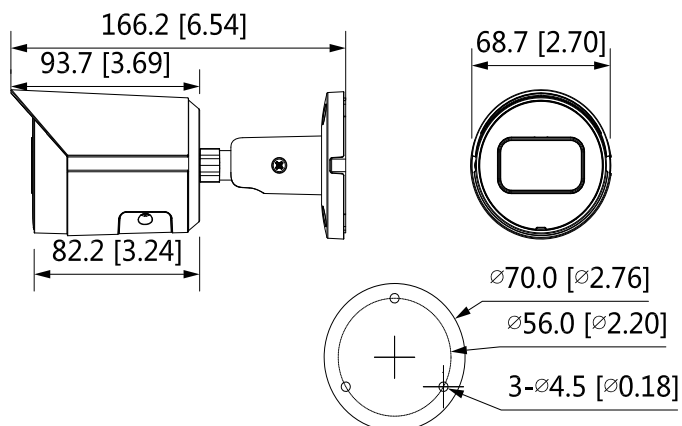
Casing	Metal
Dimensions	166.2 mm × Ø70 mm (6.54" × Ø2.76")
Net Weight	0.48 kg (1.1 lb)
Gross Weight	0.57 kg (1.3 lb)

## Ordering Information

Type	Part Number	Description
5MP Camera	DH-IPC-HFW2531SP-S-S2	5MP Lite IR Fixed-focal Bullet Network Camera,PAL
	DH-IPC-HFW2531SN-S-S2	5MP Lite IR Fixed-focal Bullet Network Camera,NTSC
Accessories (optional)	PFA134	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



## Dimensions (mm[inch])



## Accessories

### Optional:



PFA134  
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