

# DH-IPC-HDBW1531E-S

5MP WDR IR Mini-Dome Network Camera



System Overview

The IR Megapixel Fixed camera delivers 2MP/4MP/5MP resolution with a 2.8mm/3.6mm fixed lens.The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications at an affordable price.

#### **Functions**

#### Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

# Intelligent Video analysis (IVS)

Dahua camera is equipped with a built-in intelligent analytic algorithm based on video, which can realize intelligent functions like Tripwire and Intrusion, to quickly and accurately respond to monitoring events in specific area, It can enhance monitoring efficiency. In addition, the camera supports intelligent tamper detection, which is to generate warning message via detecting dramatic scene change and to guarantee effective video surveillance.

#### Wide Dynamic Range (WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

- · 1/2.7" 5Megapixel progressive CMOS
- · H.265& H.264 dual-stream encoding
- · 20fps@5M(2592×1944) &25/30fps@3M(2304×1296)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- $\cdot$  Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · Micro SD card slot, up to 128GB
- · 2.8 mm fixed lens (3.6 mm optional)
- · Max IR LEDs Length 30m
- · IP67, IK10, PoE













#### Smart IR Technology

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 30m (98ft).

#### Protection (IP67, IK10, wide voltage)

The camera allows for ±10% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 2KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.

#### Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from-30° C to +60° C (-22° F to +140° F) with 95% humidity.

#### Image flip

Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in 90° increments for better video optimization.

#### Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Specification						White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
Camera						Gain Control	Auto/Manual	
Image Sensor		1/2.7" 5Megapixel progresive CMOS				Noise Reduction	3D DNR	
Effective Pixels		2592(H)x1944(V)				Motion Detetion	Off / On (4 Zone, Rectangle)	
RAM/ROM		512MB/32MB				Region of Interest	Off / On (4 Zone)	
Scanning System		Progressive				Electronic Image Stabilization	N/A	
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				(EIS) Smart IR	Cupport	
Minimum Illumination		0.03Lux/F2.0( Color,1/3s,30IRE) 0.3Lux/2.0( Color,1/30s,30IRE) 0Lux/F2.0(IR on)				Digital Zoom	Support 16x	
S/N Ratio		More than 50dB				Flip	0°/90°/180°/270°	
IR Distance		Distance up to 30m(98ft)				Mirror	Off / On	
IR On/Off Contro	ol	Auto/ Manual				Privacy Masking	Off / On (4 Area, Rectangle)	
IR LEDs		24				Audio		
Lens						Compression	N/A	
Lens Type		Fixed				Network	Network	
Mount Type		Board-in				Ethernet	RJ-45 (10/100Base-T)	
Focal Length		2.8mm (3.6	mm optional)			Protocol	HTTP;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;FTP;DHCF;DNS;DDNS;PPPOE;IPv4/v6;SNMP;QoS;UPnP;NTP	
Max. Aperture		F2.0/F2.0				Interoperability	ONVIF, PSIA, CGI	
Angle of View		H:96°/78°,	V:70°/58°			Streaming Method	Unicast / Multicast	
Focus Control		Fixed				Max. User Access	10 Users / 20 Users	
Close Focus Distance Lens		N/A Detect	Observe	Recognize	Identify	Edge Storage	NAS Local PC for instant recording Micro SD Card 128GB	
DORI Distance	2.8 mm	63(207ft)	25(82ft)	13(43ft)	6(20ft)	Web Viewer	IE, Chrome, Firefox, Safari	
	3.6 mm	80(262ft)	32(105ft)	16(52ft)	8(26ft)	Management Software	Smart PSS, DSS,Easy4ip	
PTZ						Smart Phone	IOS, Android	
Pan/Tilt Range		Pan:0° ~35!	5° ;Tilt:0° ~65°	;Rotation:0° ^	~355°	Certifications		
Intelligence IVS	Tripwire, In	trusion			Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B		
Video						Interface	·	
Compression		H.265+/H.2	:65/H.264+/H.	264		Video Interface	N/A	
Streaming Capak	bility	2 Streams	,			Audio Interface	N/A	
		5M(2592×1	.944)/4M(268	8x1520/2560	x1440)/3M(2	RS485	N/A	
Resolution		304×1296)/1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/ VGA(640×480)/ CIF(352×288/352×240)				Alarm	N/A	
Frame Rate		5M(1 ~ 20fps)/3M (1 ~ 25/30fps)				Electrical		
		D1/CIF(1 ~ 25/30fps)				Power Supply	DC12V PoE(802.3af)(Class 0)	
Bit Rate Control		CBR/VBR				Power Consumption	<4.2W	
Bit Rate		H.265: 12K ~ 8448Kbps H.264: 32K ~ 10240Kbps						
Day/Night		Auto(ICR) /	Color / B/W					

BLC / HLC / WDR(120dB)

BLC Mode

# Lite Series | DH-IPC-HDBW1531E-S

### Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
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Ingress Protection	IP67
Vandal Resistance	IK10

#### Construction

Casing	Metal
Dimensions	Ф109.9mm × 81mm (4.33" x 3.19")
Net Weight	0.34Kg (0.75lb)
Gross Weight	0.47Kg (1.04lb)

Ordering Information						
Туре	Part Number	Description				
	DH-IPC- HDBW1531EP -0280B	5MP WDR IR Mini-Dome Network Camera, 2.8mm, PAL				
	DH-IPC- HDBW1531EN -0280B	5MP WDR IR Mini-Dome Network Camera, 2.8mm,NTSC				
	IPC-HDBW1531EP -0280B	5MP WDR IR Mini-Dome Network Camera, 2.8mm,PAL				
4MP camera	IPC-HDBW1531EN -0280B	5MP WDR IR Mini-Dome Network Camera, 2.8mm,NTSC				
	DH-IPC- HDBW1531EP -0360B	5MP WDR IR Mini-Dome Network Camera, 3.6mm,PAL				
	DH-IPC- HDBW1531EN -0360B	5MP WDR IR Mini-Dome Network Camera, 3.6mm,NTSC				
	IPC-HDBW1531EP -0360B	5MP WDR IR Mini-Dome Network Camera, 3.6mm,PAL				
	IPC-HDBW1531EN -0360B	5MP WDR IR Mini-Dome Network Camera, 3.6mm,NTSC				
	PFA136	Junction box				
Accessories	PFB203W	Wall mount				
(optional)	PFA152-E	Pole mount				
	PFA200W	Rain shade				

# Accessories

# Optional:









PFA136 Function Box

PFB203W Wall mount

PFA152-E Pole mount

PFA200W Rain Shade

Junction Mount	Pole Mount
PFA136	PFB203W + PFA152-E
Wall Mount	
PFB203W	
	Pole Mount with Rain Shade
	PFA136+ PFA152-E+PFA200W
Wall Mount with Rain Shade PFA136+PFA200W	

# Dimensions (mm/inch)





