

DH-IPC-HDBW1231E-S

2MP WDR IR Mini-Dome Network Camera



System Overview

The IR Megapixel Fixed camera delivers 2MP resolution with a motorized 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 Codec (H.265+ & H.264+)

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) 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 Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard 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.

- · 1/2.8" 2Megapixel progressive CMOS
- · H.265 & H.264 dual-stream encoding
- · 25/30fps@1080P(1920x1080)
- · 120dB WDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · 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 $\pm 25\%$ 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 complies with an IK10 impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.)

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						5 /00 1	A - (ICD) / C - / D / W
Camera			Day/Night	Auto(ICR) / Color / B/W			
Image Sensor		1/2.8" 2Megapixel progresive CMOS				BLC Mode	BLC / HLC / 120dB WDR
Effective Pixels		1920(H)x1080(V)				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
RAM/ROM		256MB/32MB				Gain Control	Auto/Manual
Scanning System		Progressive				Noise Reduction	3D DNR
		Auto/Manual, 1/3~1/100000s				Motion Detection	Off / On (4 Zone, Rectangle)
Electronic Shutter Speed		0.009Lux/F2.0 (Color,1/3s,30IRE)				Region of Interest	Off / On (4 Zone)
Minimum Illumination		0.07Lux/F2.0 (Color,1/30s,30IRE) 0Lux/F2.0(IR on)				Electronic Image	Support
S/N Ratio		More than 50	dB			Smart IR	Support
IR Distance		Distance up to 30m(98ft)				Digital Zoom	16x
IR On/Off Control		Auto/ Manual				Flip	0°/90°/180°/270°
IR LEDs		24				Mirror	Off / On
Lens						Privacy Masking	Off / On (4 Area, Rectangle)
Lens Type		Fixed				Audio	
Mount Type		Board-in				Compression	N/A
Focal Length		2.8 mm (3.6 mm optional)				Network	
Max. Aperture		F2.0/F2.0				Ethernet	RJ-45 (10/100Base-T)
Angle of View		H:105°/82°,V:59°/47°				Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;RTCP;UDP;SMTP; FTP;DHCP;DNS;DDNS;PPP0E;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;
Focus Control		Fixed					TLS
Close Focus Dist	ance	0.6m(0.9m)				Interoperability	ONVIF Profile S&G, API
	Lens	Detect	Observe	Recognize	Identify	Streaming Method	Unicast / Multicast
DORI Distance	2.8 mm	43.6m(143ft)	17.4m(57ft)	8.7m(28.5ft)	4.4m(14.4ft)	Max. User Access	10 Users / 20 Users
PTZ	3.6 mm	55.2m(181ft)	22.1m(72.5ft)	11m(36ft)	5.5m(18ft)	Edge Storage	NAS Local PC for instant recording Micro SD Card 128GB
Pan/Tilt Range		Day Of CORES Tile Of ONE S. Datables Of CORES				Web Viewer	IE, Chrome, Firefox, Safari
		Pan:0° ~355° ;Tilt:0° ~65° ;Rotation:0° ~355°				Management Software	Smart PSS, DSS, DMSS
Intelligence						Smart Phone	IOS, Android
Event Trigger		Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal access, Storage anomaly				Certifications	
IVS		Tripwire, Intru	sion			Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Video						Interface	
Compression Smart Codec		H.265/H.264H Support H.265	I/MJPEG(Sub Str 5+/H.264+	eamj		Video Interface	N/A
Streaming Capability		2 Streams				Audio Interface	N/A
Resolution		1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/				RS485	N/A
		CIF(352×288/352×240) Main Stream: 1080P(1 ~ 25/30fps)				Alarm	N/A
Frame Rate			1(1 ~ 25/30fps)	. ,		Electrical	
Bit Rate Control		CBR/VBR				Power Supply	DC12V, PoE (802.3af)(Class 0)
Bit Rate		H.265: 12K ~ 6				Power Consumption	<4.6W
J. 1.00		H.264: 32K ~ 10240Kbps					

Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +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- HDBW1231EP-S	2MP WDR IR Mini-Dome Network Camera,PAL		
2142	DH-IPC- HDBW1231EN-S	2MP WDR IR Mini-Dome Network Camera,NTSC		
2MP camera	IPC-HDBW1231EP-S	2MP WDR IR Mini-Dome Network Camera,PAL		
	IPC-HDBW1231EN-S	2MP WDR IR Mini-Dome Network Camera,NTSC		
	PFA136	Junction box		
Accessories	PFB203W	Wall mount		
(optional)	PFA152-E	Pole mount		
	PFA200W	Rain shade		

Accessories

Optional:









PFA136 Junction 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)





