

# DH-IPC-HDBW1230E

2MP 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.

#### 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).

- · 1/2.7" 2Megapixel progressive CMOS
- · H.265 & H.264 dual-stream encoding
- · 25/30fps@1080P(1920x1080)
- · DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- $\cdot$  Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm fixed lens (3.6mm optional)
- · Max IR LEDs length 30m
- · IP67, IK10, PoE



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

The camera allows for ±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.



## Lite Series | DH-IPC-HDBW1230E

### **Technical Specification**

Frame Rate

Bit Rate

Bit Rate Control

icennical S	pecification				
Camera					
Image Sensor		1/2.7" 2Megapixel progresive CMOS			
Effective Pixels		1920(H)x1080(V)			
RAM/ROM		256MB/32MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s			
Minimum Illumination		0.08Lux/F2.0( Color,1/3s,30IRE) 0.3Lux/F2.0( Color,1/30s,30IRE) 0Lux/F2.0(IR on)			
S/N Ratio		More than 50dB			
IR Distance		Distance up to 30m(98ft)			
IR On/Off Control		Auto/ Manual			
IR LEDs		24			
Lens					
Lens Type		Fixed			
Mount Type		Board-in			
Focal Length		2.8 mm (3.6 mm optional)			
Max. Aperture		F2.0/F2.0			
Angle of View		H: 104°/92°, V: 55°/50°			
Focus Control		Fixed			
Close Focus Distance		0.6m(0.9m)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	40(131ft)	16(52ft)	8(26ft)	4(13ft)
	3.6 mm	53(174ft)	21(69ft)	11(36ft)	5(16ft)
PTZ					
Pan/Tilt Range		Pan: 0° ~355°; Tilt: 0° ~65°; Rotation: 0° ~355°			
Intelligence		,	,		
Event Trigger		Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal			
		access, Storage anomaly Tripwire, Intrusion			
ivs Video		mpwire, indus	501		
Compression		H.265/H.264H/MJPEG(Sub Stream)			
Smart Codec		Support H.265+/H.264+			
Streaming Capability		2 Streams			
Resolution		1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)			

VGA(640×480)/CIF(352×288/352×240) Main Stream: 1080P(1 ~ 25/30fps)

Sub Stream: D1(1 ~ 25/30fps)

H.265: 12K ~ 6400Kbps H.264: 32K ~ 10240Kbps

CBR/VBR

Day/NightAuto(ICR) / Color / B/WBLC ModeBLC / HLC / DWDRWhite BalanceAuto/Natural/Street Lamp/Outdoor/ManualGain ControlAuto/ManualNoise Reduction3D DNRMotion DetectionOff / On (4 Zone, Rectangle)Region of InterestOff / On (4 Zone)Electronic ImageSupportSmart IRSupportDigital Zoom16xFlip0'90'/180'/270'MirrorOff / OnPrivacy MaskingOff / OnAutoloCompressionN/AN/ANetworkHTTP;HTP;STCP;ARP;FTSP;RTCP;UDP;SMTP; TTP;DidP;DNS;DDNS;PPPOE;IP44/AsQ:OS;UPNP; TTSProtocolUnicast / MulticastMax. User Access10 Users / 20 UsersEdge StorageNAS Local PC for instant recordingWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSix ArtopidSmart PhoneIOS; AndroidCertificationsCE (EN GO950-12) EC: CC Part 15 Subpart BInterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/APower SupplyDC12V, PC (602.3af)(Class 0)Prover SupplyDC12V, PC (602.3af)(Class 0)					
White BalanceAuto/Natural/Street Lamp/Outdoor/ManualGain ControlAuto/NanualNoise Reduction3D DNRMotion DetectionOff / On (4 Zone, Rectangle)Region of InterestOff / On (4 Zone)Electronic ImageSupportSmart IRSupportDigital Zoom16xFlipO'90'/180'/270'MirrorOff / On (4 Area, Rectangle)AudioOff / On (4 Area, Rectangle)AudioN/ANetworkVery MaskingProtocolN/ANetworkVery May, NajakaEthernetRI-45 (10/1008ase-T)ProtocolUnicast / MulticastMax. User Access10 Users / 20 UsersEdge StorageNAS Local PC for instant recordingWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSSSmart PhoneCE (EN 60950-2000) ULSJ LIG0950-1 EC: PCC Part 15 Subpart BInterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AProtocolVi/AProtocolCE (EN 60950-2000) ULSJ LIG0950-1 EC: PCC Part 15 Subpart BInterfaceN/AProtocolDistart PS, DSS, DMSSProtocolCE (EN 60950-2000) ULSJ LIG0950-1 EC: PCC Part 15 Subpart BInterfaceN/A <td>Day/Night</td> <td>Auto(ICR) / Color / B/W</td>	Day/Night	Auto(ICR) / Color / B/W			
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CompressionN/ANetworkEthernetRJ-45 (10/100Base-T)ProtocolHTTP;HTTP;TCP;ARP;RTSP;RTP;RTCP;UDP;SMTP; FTP;DHCP;DNS;DDNS;PPP0E;IPv4/v6;QoS;UPnP; TTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP; TLSInteroperabilityONVIF Profile S&G, APIStreaming MethodUnicast / MulticastMax. User Access10 Users / 20 UsersEdge StorageNAS Local PC for instant recordingWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSSSmart PhoneIOS, AndroidCertificationsCE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart BInterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/ARS485N/AAlarmN/APower SupplyDC12V, PoE (802.3af)(Class 0)	Privacy Masking	Off / On (4 Area, Rectangle)			
Network         Ethernet       RJ-45 (10/100Base-T)         Protocol       HTTP;HTTPs;TCP;ARP;RTSP;RTP;RTCP;UDP;SMTP; FTP;DHCP;DNS;DDNS;PPPoE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP; TLS         Interoperability       ONVIF Profile S&G, API         Streaming Method       Unicast / Multicast         Max. User Access       10 Users / 20 Users         Edge Storage       NAS Local PC for instant recording         Web Viewer       IE, Chrome, Firefox, Safari         Management Software       Smart PSS, DSS, DMSS         Smart Phone       IOS, Android         Certifications       CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B         Interface       N/A         Audio Interface       N/A         Audio Interface       N/A         RS485       N/A         Alarm       N/A         Electrical       Power Supply	Audio				
EthernetRJ-45 (10/100Base-T)EthernetRJ-45 (10/100Base-T)ProtocolHTTP;HTTPs;TCP;ARP;RTSP;RTSP;RTSP;RTCP;UDP;SMTP; FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPPP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP; TLSInteroperabilityONVIF Profile S&G, APIStreaming MethodUnicast / MulticastMax. User Access10 Users / 20 UsersEdge StorageNAS Local PC for instant recordingWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSSSmart PhoneIOS, AndroidCertificationsCE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart BInterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAlarmN/AElectricalPower SupplyPower SupplyDC12V, PoE (802.3af)(Class 0)	Compression	N/A			
ProtocolHTTP;HTTPs;TCP;ARP;RTSP;RTSP;RTP;RTCP;UDP;SMTP; FTP;DHCP;DNS;DDDNS;PPPOE;IPv4/v6;QoS;UPPP; TTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP; TLSInteroperabilityONVIF Profile S&G, APIStreaming MethodUnicast / MulticastMax. User Access10 Users / 20 UsersEdge StorageNAS Local PC for instant recordingWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSSSmart PhoneIOS, AndroidCertificationsCE (EN 60950-2000) UL:UL60950-1 FCC: FCC Part 15 Subpart BInterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAlarmN/APower SupplyDC12V, PoE (802.3af)(Class 0)	Network				
ProtocolFTP;DHCP;DNS;DDNS;PPPoE;PV4/v6;QoS;UPPP; TTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP; TLSInteroperabilityONVIF Profile S&G, APIStreaming MethodUnicast / MulticastMax. User Access10 Users / 20 UsersEdge StorageNAS Local PC for instant recordingWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSSSmart PhoneIOS, AndroidCertificationsCE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart BInterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAlarmN/AAlarmN/APower SupplyDC12V, POE (802.3af)(Class 0)	Ethernet	RJ-45 (10/100Base-T)			
Streaming MethodUnicast / MulticastMax. User Access10 Users / 20 UsersEdge StorageNAS Local PC for instant recordingWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSSSmart PhoneIOS, AndroidCertificationsCE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart BInterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAlarmN/AElectricalVideo SupplyPower SupplyDC12V, POE (802.3af)(Class 0)	Protocol	FTP;DHCP;DNS;DDNS;PPPoE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;			
Max. User Access10 Users / 20 UsersEdge StorageNAS Local PC for instant recordingWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSSSmart PhoneIOS, AndroidCertificationsCE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart BInterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/APower SupplyDC12V, POE (802.3af)(Class 0)	Interoperability	ONVIF Profile S&G, API			
Edge StorageNAS Local PC for instant recordingWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSSSmart PhoneIOS, AndroidCertificationsCE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart BInterfaceN/AVideo InterfaceN/AAudio InterfaceN/ARS485N/AAlarmN/AElectricalVideo SupplyDoct2V, PoE (802.3af)(Class 0)	Streaming Method	Unicast / Multicast			
Edge StorageLocal PC for instant recordingWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSSSmart PhoneIOS, AndroidCertificationsCE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart BInterfaceVideo InterfaceVideo InterfaceN/AAudio InterfaceN/ARs485N/AAlarmN/AElectricalPower SupplyDC12V, PoE (802.3af)(Class 0)	Max. User Access	10 Users / 20 Users			
Management SoftwareSmart PSS, DSS, DMSSSmart PhoneIOS, AndroidCertificationsCertificationsCertificationsCE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart BInterfaceN/AVideo InterfaceN/AAudio InterfaceN/ARS485N/AAlarmN/AElectricalVideo InterfacePower SupplyDC12V, POE (802.3af)(Class 0)	Edge Storage				
Smart PhoneIOS, AndroidCertificationsCE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart BInterfaceVideo InterfaceVideo InterfaceN/AAudio InterfaceN/ARS485N/AAlarmN/AElectricalVideo InterfacePower SupplyDC12V, PoE (802.3af)(Class 0)	Web Viewer	IE, Chrome, Firefox, Safari			
CertificationsCertificationsCE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart BInterfaceN/AAudio InterfaceN/AAudio InterfaceN/ARs485N/AAlarmN/AElectricalPower SupplyDC12V, PoE (802.3af)(Class 0)	Management Software	Smart PSS, DSS, DMSS			
CertificationsCE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart BInterfaceVideo InterfaceN/AAudio InterfaceN/ARs485N/AAlarmN/AElectricalPower SupplyDC12V, PoE (802.3af)(Class 0)	Smart Phone	IOS, Android			
CertificationsUL:UL60950-1 FCC: FCC Part 15 Subpart BInterfaceN/AAudio InterfaceN/ARS485N/AAlarmN/AElectrical	Certifications				
Video InterfaceN/AAudio InterfaceN/ARS485N/AAlarmN/AElectricalPower SupplyDC12V, PoE (802.3af)(Class 0)	Certifications	UL:UL60950-1			
Audio Interface     N/A       RS485     N/A       Alarm     N/A       Electrical        Power Supply     DC12V, PoE (802.3af)(Class 0)	Interface				
RS485     N/A       Alarm     N/A       Electrical       Power Supply     DC12V, PoE (802.3af)(Class 0)	Video Interface	N/A			
Alarm N/A Electrical DC12V, PoE (802.3af)(Class 0)	Audio Interface	N/A			
Electrical Power Supply DC12V, PoE (802.3af)(Class 0)	RS485	N/A			
Power Supply DC12V, PoE (802.3af)(Class 0)	Alarm	N/A			
	Electrical				
Power Consumption <5.5W	Power Supply	DC12V, PoE (802.3af)(Class 0)			
	Power Consumption	<5.5W			

## Lite Series | DH-IPC-HDBW1230E

#### Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
Storage Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10
Construction	
Casing	Metal
Dimensions	Φ109.9mm × 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-HDBW1230EP 2MP IR Mini-Dome Network Camera, -0280B 2.8mm,PAL DH-IPC-HDBW1230EN 2MP IR Mini-Dome Network Camera, -0280B 2.8mm,NTSC IPC-HDBW1230EP 2MP IR Mini-Dome Network Camera, -0280B 2.8mm,PAL IPC-HDBW1230EN 2MP IR Mini-Dome Network Camera, -0280B 2.8mm,NTSC 2MP camera DH-IPC-HDBW1230EP 2MP IR Mini-Dome Network Camera, -0360B 3.6mm,PAL DH-IPC-HDBW1230EN 2MP IR Mini-Dome Network Camera, -0360B 3.6mm,NTSC 2MP IR Mini-Dome Network Camera, 3.6mm,PAL IPC-HDBW1230EP -0360B 2MP IR Mini-Dome Network Camera, IPC-HDBW1230EN -0360B 3.6mm,NTSC PFA136 Junction box PFB203W Wall mount Accessories (optional) PFA152-E Pole mount PFA200W Rain Shade

### Accessories

#### **Optional:**

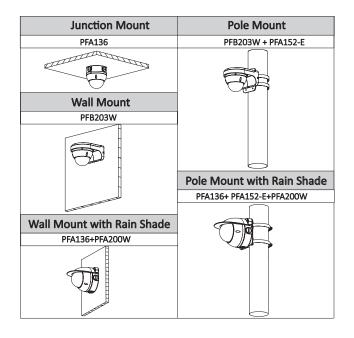




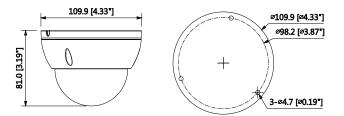


PFA136 Junction Box

PFB203W PFA152-E Wall mount Pole mount PFA200W Rain Shade



#### Dimensions (mm/inch)





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