

DH-IPC-HDBW1220ES2

2MP IR Mini-Dome Network Camera



- · 1/2.9" 2Megapixel progressive CMOS
- · H.264+ & H.264 dual-stream encoding
- · 25/30fps@2M(1920x1080)
- · DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8 mm fixed lens (3.6 mm optional)
- · Max IR LEDs Length 30m
- · IP67, IK10, PoE











System Overview

The IR Megapixel Fixed MiniDome camera delivers 2MP resolution with a choice of 2.8mm or 3.6mm wide angle lens options. 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

True Day/Night

A day/night mechanical IR cut filter makes this camera ideal for applications with fluctuating lighting conditions, delivering color images during the day and automatically switching to monochrome as the scene darkens

Regions of interest

Regions of Interest (ROI) is a user defined feature that allows the operator to monitor specific areas of a scene while still maintaining overall situational awareness of less important areas

Smart IR

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object. Smart IR technology prevents IR LEDS from whiting 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).

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.

Environmental

With a temperature range of -30 °C to +60 °C (-22°F to +140 °F), the camera is designed for extreme temperature environments. The camera complies to an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications. For environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

Protection

Supporting $\pm 10\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides protectection against the camera and its structure from the effects of lightning.

Interoperability

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

Smart H.264+

Delivering high quality video without straining the network, Smart H.264+ is the optimized implementation of H.264. The Smart H.264+ encoding platform includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing a savings of up to 70% of bandwidth and storage when compared with standard H.264.



Technical Specification		
Camera		
Image Sensor	1/2.9" 2Megapixel progresive CMOS	
Effective Pixels	1920(H)x1080(V)	
RAM/ROM	256MB/16MB	
Scanning System	Progressive	
Minimum Illumination	0.01Lux/F2.0(Color), 0Lux/F2.0(IR on)	
S/N Ratio	More than 50dB	
IR Distance	Smart intelligent IR, 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:110°/83°,V:57°/44°	
Focus Control	Fixed	
Close Focus Distance	N/A	
PTZ		
Pan/Tilt Range	Pan:0° ~355° ;Tilt:0° ~65° ;Rotation:0° ~355°	
Video		
Compression	H.264+/H.264	
Streaming Capability	2 Streams	
Resolution	1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)	
France Date	2M (1 ~ 25/30fps)s)	
Frame Rate	D1/CIF(1 ~ 25/30fps)	
Bit Rate Control	CBR/VBR	
Bit Rate	H264: 24K ~ 8192Kbps	
Day/Night	Auto(ICR) / Color / B/W	
BLC Mode	BLC / HLC / DWDR	

White Balance Auto/Natural/Street Lamp/Outdoor/Manual Gain Control Auto/Manual Noise Reduction 3D DNR Motion Detetion Off / On (4 Zone, Rectangle) Region of Interest Off / On (4 Zone) Electronic Image Support Smart IR Support Digital Zoom 16x Flip 0'/90'/180'/270' Mirror Off / On Privacy Masking Off / On (4 Area, Rectangle) Audio Compression N/A Network Ethernet R.J-45 (10/100Base-T) Protocol HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP; DHCP;DNS;DDNS;PPDG;IPP4/VG;QoS;UPPP;NTP; Bonjour;802.1x;Multicast;CMP;IGMP; Interoperability ONVIF, PSIA, CGI 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, Easy4lp Smart Phone IOS, Android Phone Certifications CE (EN 60950-2000) UL: UlG0950-1 FCC: FCC Part 15 Subpart B Interface Video Interface N/A Audio Interface N/A Audio Interface N/A Audio Interface N/A Alarm N/A Electrical Power Supply DC12V PoE (802.3af)(Class 0)			
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Edge Storage NAS Local PC for instant recording Web Viewer IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS, Easy4ip Smart Phone Certifications CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B Interface Video Interface N/A Audio Interface N/A Alarm N/A Electrical	Streaming Method	Unicast / Multicast	
Edge Storage Local PC for instant recording Web Viewer IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS, Easy4ip Smart Phone IOS, Android Phone Certifications CE (EN 60950:2000) UI:UL60950:1 FCC: FCC Part 15 Subpart B Interface Video Interface N/A Audio Interface N/A Alarm N/A Electrical	Max. User Access	10 Users/20 Users	
Management Software Smart PSS, DSS, Easy4ip Smart Phone IOS, Android Phone Certifications CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B Interface Video Interface N/A Audio Interface N/A RS485 N/A Alarm N/A Electrical	Edge Storage		
Smart Phone Certifications CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B Interface Video Interface N/A Audio Interface N/A RS485 N/A Alarm N/A Electrical	Web Viewer	IE, Chrome, Firefox, Safari	
Certifications CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B Interface Video Interface N/A Audio Interface N/A RS485 N/A Alarm N/A Electrical	Management Software	Smart PSS, DSS, Easy4ip	
CE (EN 60950:2000) UI:UL60950-1 FCC: FCC Part 15 Subpart B Interface Video Interface N/A Audio Interface N/A RS485 N/A Alarm N/A Electrical	Smart Phone	IOS, Android Phone	
Certifications UL:UL60950-1 FCC: FCC Part 15 Subpart B Interface Video Interface N/A Audio Interface N/A RS485 N/A Alarm N/A Electrical	Certifications		
Video Interface N/A Audio Interface N/A RS485 N/A Alarm N/A Electrical	Certifications	UL:UL60950-1	
Audio Interface N/A RS485 N/A Alarm N/A Electrical	Interface		
RS485 N/A Alarm N/A Electrical	Video Interface	N/A	
Alarm N/A Electrical	Audio Interface	N/A	
Electrical	RS485	N/A	
2.000.100.1	Alarm	N/A	
Power Supply DC12V PoE (802.3af)(Class 0)	Electrical		
	Power Supply	DC12V PoE (802.3af)(Class 0)	
Power Consumption <3.7W	Power Consumption	<3.7W	

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Strorage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
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	
2MP camera	DH-IPC-HDBW1220EP -0280B	2MP IR Mini-Dome Network Camera, 2.8mm,PAL	
	DH-IPC- HDBW1220EN -0280B	2MP IR Mini-Dome Network Camera, 2.8mm,NTSC	
	IPC-HDBW1220EP -0280B	2MP IR Mini-Dome Network Camera, 2.8mm,PAL	
	IPC-HDBW1220EN -0280B	2MP IR Mini-Dome Network Camera, 2.8mm,NTSC	
	DH-IPC-HDBW1220EP -0360B	2MP IR Mini-Dome Network Camera, 3.6mm,PAL	
	DH-IPC- HDBW1220EN -0360B	2MP IR Mini-Dome Network Camera, 3.6mm,NTSC	
	IPC-HDBW1220EP -0360B	2MP IR Mini-Dome Network Camera, 3.6mm,PAL	
	IPC-HDBW1220EN -0360B	2MP IR Mini-Dome Network Camera, 3.6mm,NTSC	
Accessories (optional)	PFA136	Junction box	
	PFB203W	Wall mount	
	PFA152	Pole mount	

Accessories

Optional:







PFA136 Juntion Box

PFB203W Wall Mount

PFA152 Pole Mount

Junction Mount	Pole Mount
PFA136	PFB203W + PFA152
Wall Mount	
PFB203W	

Dimensions (mm/inch)





