

DH-IPC-HDBW1420E

4MP IR Mini-Dome Network Camera



- · 1/3" 3Megapixel progressive CMOS
- · H.264+ & H.264 dual-stream encoding
- · 20fps@4M(2688×1520) &25/30fps@3M(2304×1296)
- · 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 4MP 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 S _I	pecification				
Camera					
Image Sensor		1/3" 3Mega	1/3" 3Megapixel progresive CMOS		
Effective Pixels		2688(H)x1520(V)			
RAM/ROM		256MB/16M	256MB/16MB		
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s			
Minimum Illumination		0.31Lux/F2.2(Color), 0Lux/F2.2(IR on)			
S/N Ratio		More than 56dB			
IR Distance		Distance up to 30m(98ft)			
IR On/Off Control		Auto/ Manu	Auto/ Manual		
IR LEDs		12	12		
Lens					
Lens Type		Fixed			
Mount Type		Board-in			
Focal Length		2.8 mm (3.6 mm optional)			
Max. Aperture		F2.0/F2.2	F2.0/F2.2		
Angle of View		H:106°/83°,	H:106°/83°, V:56°/44°		
Focus Control		Fixed			
Close Focus Dist	ance	N/A	N/A		
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	63m(207ft)	25m(82ft)	13m(43ft)	6m(20ft)
	3.6 mm	80m(262ft)	32m(105ft)	16m(52ft)	8m(26ft)
PTZ					
Pan/Tilt Range		Pan:0° ~355	Pan:0° ~355° ;Tilt:0° ~65° ;Rotation:0° ~355°		
Video					
Compression		H.264+/H.26	H.264+/H.264		
Streaming Capability		2 Streams			
Resolution		4M(2688x1520/2560x1440)/3M(2304×1296)/ 1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/ CIF(352×288/352×240)			
Frame Rate		4M(1 ~ 20fps)/3M (1 ~ 25/30fps)/2M (1 ~ 25/30fps			
		D1/CIF(1 ~ 25/30fps)			
Bit Rate Control		CBR/VBR			
Bit Rate		H264H:80K ~ 10240Kbps			
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	RJ-45 (10/100Base-T)	
Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP; DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP; Bonjour;802.1x;Multicast;ICMP;IGMP;	
Interoperability	ONVIF, PSIA, CGI	
Streaming Method	Unicast / Multicast	
Max. User Access	10 Users/20 Users	
Edge Storage	NAS(Network Attached Storage),Local PC for instant recording	
Web Viewer	IE, Chrome, Firefox, Safari	
Management Software	Smart PSS, DSS,Easy4ip	
Smart Phone	iPhone, iPad, Android Phone	
Certifications		
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		
Power Supply	DC12V PoE (802.3af)(Class 0)	
Power Consumption	<4.3W	

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		
3MP camera	DH-IPC-HDBW1420EP -0280B	4MP IR Mini-Dome Network Camera, 2.8mm,DWDR, PAL		
	DH-IPC- HDBW1420EN -0280B	4MP IR Mini-Dome Network Camera, 2.8mm,NTSC		
	IPC-HDBW1420EP -0280B	4MP IR Mini-Dome Network Camera, 2.8mm,PAL		
	IPC-HDBW1420EN -0280B	4MP IR Mini-Dome Network Camera, 2.8mm,NTSC		
	DH-IPC-HDBW1420EP -0360B	4MP R Mini-Dome Network Camera, 3.6mm,PAL		
	DH-IPC- HDBW1420EN -0360B	4MP IR Mini-Dome Network Camera, 3.6mm,NTSC		
	IPC-HDBW1420EP -0360B	4MP IR Mini-Dome Network Camera, 3.6mm,PAL		
	IPC-HDBW1420EN -0360B	4MP 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)





