

DH-IPC-HDW1420S

4MP IR Eyeball Network Camera



System Overview

The IR Megapixel Fixed Eyeball camera delivers 4MP resolution with a choice of 2.8mm or 3.6mm lens options. The camera's elegant blend of aesthetics combined with its compact form factor provides an excellent choice for a variety of small to mid-size, indoor/outdoor applications at an affordable price.

Functions

True Day/Night

A day/night mechanical IR cut filter makes this camera ideal 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 mart IR technology adjusts to the intensity of camera's infrared LEDs compensate for the distance of an object. Smart IR technology preents 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 innecessary 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.

- · 1/3" 4Megapixel progressive CMOS
- · H.264+ & H.264 dual-stream encoding
- · 20fps@4M(2688×1520) &25/30fps@3(2304×1296)
- · DWDR, Day/Night(ICR), 3DNR, AWB, AC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8 mm fixed lens (3.6mm optional)
- · Max IR LEDs Length 30m
- · IP67, PoE



Protection

poporting ±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 Sp	pecification				
Camera					
Image Sensor		1/3" 4Megapixel progresive CMOS			
Effective Pixels		2688(H) x1520(V)			
RAM/ROM		256MB/16MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s			
Minimum Illumination		0.4Lux/F2.2(Color), 0Lux/F2.2(IR on)			
S/N Ratio		More than 56dB			
IR Distance		Distance up to 30m(98ft)			
IR On/Off Contro	ol	Auto/ Manual			
IR LEDs		12			
Lens					
Lens Type		Fixed			
Mount Type		Board-in			
Focal Length		2.8 mm (3.6 mm optional)			
Max. Aperture		F2.0/F2.2			
Angle of View		H:106°/83°, V:56°/44°			
Focus Control		Fixed			
Close Focus Dista	ance	N/A			
	Lens	Detect	Observe	Recognize	Identity
DORI Distance	2.8 mm	63m(207ft)	25m(82ft)	13m(43ft)	(20ft)
	3.6 mm	80m(262ft)	32m(105ft)	16m(52ft)	8m(26ft)
PTZ					
Pan/Tilt Range		Pan:0° ~360° ;Tilt:0° ~90°			
Video				g	
Compression		Pan:0° ~360° ;Tilt:0° ~90° hation:0° ~360° H.264+/H.264			
Streaming Capab	pility	2 Streams			
Resolution		4M(268841520/2560x1440)/3M(2304×1296)/ 108061920×1080)/720P(1280×720)/ D1(04×576/704×480)/ CIF(352×288/352×240)			
Frame Rate		M(1 ~ 20fps)/3M (1 ~ 25/30fps)/2M (1 ~ 25/30fps) D1/CIF(1 ~ 25/30fps)			
Bit Rate Control		CBR/VBR			
Bit Rate Control Bit Rate Day/Night		H264H:80K ~ 10240Kbps			
Day/Night N		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	Auto/Manual 3D DNR Off / On (4 Zone, Rectangle) Off / On (4 Zone) Support
	Smart IR	Off / On (4 Zone) Support Support
	Digital Zoom	16x
	Flip	0°/90*280°/270°
	Mirror	off / On
	Privacy Masking	Off / On (4 Area, Rectangle)
	Audio	
	Audio Compression Network	N/A
	Network	
	Ethernet Control	RJ-45 (10/100Base-T)
	Protein	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	N/A

Construction

Casing	Metal+Plastic
Dimensions	Ф108mm×84.9mm(4.25"x3.15")
Net Weight	0.23Kg(0.51lb)
Gross Weight	0.387Kg(0.85lb)

Ordering Information Part Number Type Description DH-IPC-HDW1420SP 4MP IR Eyeball Network Camera, -0280B 2.8mm,PAL DH-IPC-HDW1420SN 4MP IR Eyeball Network Camera, -0280B 2.8mm,NTSC IPC-HDW1420SP 4MP IR Eyeball Network Camera, -0280B 2.8mm,PAL IPC-HDW1420SN 4MP IR Eyeball Network Camera, -0280B 2.8mm,NTSC 4MP camera DH-IPC-HDW1420SP 4MP IR Eyeball Network Camera, -0360B 3.6mm,PAL DH-IPC-HDW1420SN 4MP IR Eyeball Network Camera, -0360B 3.6mm,NTSC 4MP IR Eyeball Network Camera, IPC-HDW1420SP -0360B 3.6mm,PAL IPC-HDW1420SN 4MP IR Eveball Network Camera, -0360B 3.6mm/NTSC PFA136 unction box Accessories PFB203W Wall mount (optional) 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)





