

# DH-IPC-HDW1220S

# 2MP IR Eyeball Network Camera



# **System Overview**

The IR Megapixel Fixed Eyeball camera delivers 2MP 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 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.

- · 1/2.9" 2Megapixel progressive CMOS
- · H.264+ & H.264 dual-stream encoding
- · 25/30fps@2M(1920×1080)
- · DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- $\cdot$  Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8 mm fixed lens (3.6mm optional)
- $\cdot$  Max IR LEDs Length 30m
- · IP67, PoE









#### 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				
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s				
Minimum Illumination		0.1Lux/F2.0(Color), 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		18	18			
Lens						
Lens Type		Fixed	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 Dista	ance	N/A				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	2.8 mm	45m(147ft)	18m(59ft)	9m(30ft)	5m(16ft)	
	3.6 mm	57m(187ft)	23m(75ft)	11m(33ft)	6m(20ft)	
PTZ						
Pan/Tilt Range		Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°				
Video						
Compression		H.264+/H.264				
Streaming Capability		2 Streams				
Resolution		1080P(1920x1080)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240)				
Frame Rate		2M (1 ~ 25/30fps)				
rranie nate		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	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	<5.4W

# Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +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				
Туре	Part Number	Description		
2MP camera	DH-IPC-HDW1220SP -0280B	2MP IR Eyeball Network Camera, 2.8mm,PAL		
	DH-IPC-HDW1220SN -0280B	2MP IR Eyeball Network Camera, 2.8mm,NTSC		
	IPC-HDW1220SP -0280B	2MP IR Eyeball Network Camera, 2.8mm,PAL		
	IPC-HDW1220SN -0280B	2MP IR Eyeball Network Camera, 2.8mm,NTSC		
	DH-IPC-HDW1220SP -0360B	2MP IR Eyeball Network Camera, 3.6mm,PAL		
	DH-IPC-HDW1220SN -0360B	2MP IR Eyeball Network Camera, 3.6mm,NTSC		
	IPC-HDW1220SP -0360B	2MP IR Eyeball Network Camera, 3.6mm,PAL		
	IPC-HDW1220SN -0360B	2MP IR Eyeball Network Camera, 3.6mm,NTSC		
Accessories (optional)	PFA136	Junction box		
	PFB203W	Wall mount		
	PFA152	Pole mount		

# Accessories

# Optional:







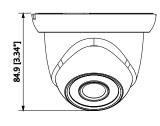
PFA136 Juntion Box

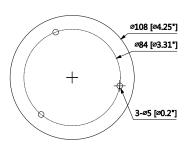
PFB203W Wall Mount

PFA152 Pole Mount

Junction Mount	Pole Mount	
PFA136	PFB203W + PFA152	
Wall Mount		
PFB203W		

# Dimensions (mm/inch)





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