

DH-IPC-HFW4239T-ASE

2MP WDR Full-color Starlight Mini Bullet Network Camera



System Overview

With upgraded H.265 encoding technology, Eco-savvy series brings high efficient video compression capability. It can save bandwidth and storage. Meanwhile, the series features starlight, full-color starlight, smart IR technology and intelligent image analysis techniques. This series supports reminder function, meanwhile fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard.

Functions

Full-color Starlight

With the adoption of high performance sensor and large-sized aperture lens, the camera is able to provide a more colorful image even under lowlight environment. Full-color starlight cameras are prefect for applications of low-light conditions which is over 1 lux, such as parking lots, urban streets, schools, museums, etc.

*Full-color starlight cameras can not work in total darkness environment.

ePoE technology

The ePoE technology of Dahua, designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Dahua ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

Wide Dynamic Range(WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

- \cdot 1/2.8" 2Megapixel progressive scan STARVIS^{\rm TM} CMOS
- · H. 265&H.264 triple-stream encoding
- · 25/30fps@1080P(1920×1080)
- · Smart Detection supported
- · WDR(120dB), Day/Night(Electronic), 3DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 3.6mm fixed lens (6mm optional)
- \cdot 1/1 Alarm in/out, 1/1 audio in/out
- Micro SD Memory, IP67, IK10, PoE



Intelligent Video System (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area. In addition to scene analytics, the camera supports face detection to quickly capture a face and upload the image to a server. The camera also offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

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, allowing the camera to operate in the harshest environments.

Protection(IP67, wide voltage)

The camera allows for ±30% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 4KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67), the camera is the choice for installation in even the most unforgiving environments.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec 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 H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.



Technical Specification

Camera						
Image Sensor		1/2.8" 2Megapixel progressive scan CMOS				
Effective Pixels		1920(H) × 1080(V)				
RAM/ROM		256MB/32MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				
Minimum Illumination		0.001Lux/F1.0 (Color,1/3s,30IRE) 0.006Lux/F1.0 (Color,1/30s,30IRE)				
S/N Ratio		More than 50dB				
IR LEDs		N/A				
Lens						
Lens Type		Fixed				
Mount Type			Board-in			
Focal Length		3.6mm (6mm optional)				
Max. Aperture		F1.0(F1.0)				
Angle of View		H: 87°/54°, V:47°/20°				
Focus Control		Fixed				
Close Focus Distance		1.6m(5.3ft)/3.5m (11.5ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	3.6 mm	53m(174ft)	21m(69ft)	11m(36ft)	5m(16ft)	
	6.0 mm	83m(289ft)	33m(108ft)	17m(56ft)	8m(26ft)	
Pan/Tilt/Ro	tation					
Pan/Tilt/Rotati	on Range	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°				
Intelligence						
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access,Storage anomaly				
IVS		Tripwire, Intrusion, Object Abandoned/Missing				
Advanced Intel	ligent Functions	Face Detection				
Video						
Compression	Compression		H.265/H.264/H.264B/H.264H/MJPEG(Sub Stream)			
Smart Codec		Support H.265+/H.264+				
Streaming Capability		3 Streams				
Resolution		1080P(1920x1080)/1.3M(1280x960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)				
Frame Rate		Main Stream: 1080P (1~25/30fps)				
		Sub Stream: D1(1~25/30fps)				
		Third Stream: 1080P(1~25/30fps)				
Bit Rate Control		CBR/VBR				
Bit Rate		H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps				
Day/Night		Color(default) /Auto(Electronic) / B/W				
BLC Mode		BLC / HLC / WDR(120dB)				

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 Stabilization (EIS)	N/A				
Smart IR	N/A				
Defog	N/A				
Digital Zoom	16x				
Flip	0°/90°/180°/270°				
Mirror	Off / On				
Privacy Masking	Off / On (4 Area, Rectangle)				
Audio					
Compression	G.711a/ G.711Mu/ AAC/ G.726				
Network					
Ethernet	RJ-45 (10/100Base-T)				
Protocol	HTTP;HTTPS;TCP;ARP;RTSP;RTP;RTCP;UDP;PPPOE;IE EE802.1X;SMTP;SNMP;FTP;DHCP;DNS;DDNS;PPPOE; IPV4/V6;QoS;UPnP;NTP;Bonjour;IEEE 802.1X;Multic ast;ICMP;IGMP;TLS;SSH;NFS				
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 Mirco SD card 128GB				
Web Viewer	IE, Chrome, Firefox, Safari				
Management Software	Smart PSS, DSS, DMSS				
Smart Phone	IOS, Android				
Certifications					
Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B				
Interface					
Video Interface	N/A				
Audio Interface	1/1 channel In/Out				
RS485	N/A				
Alarm	1 channel In: 5MA 5VDC 1 channel Out: 300mA 12VDC				
Electrical					
Power Supply	DC12V, PoE (802.3af)(Class 0)				
Power Consumption	<4W				

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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	244.1mm×79mm×75.9mm (9.61"×3.11"×2.99")		
Net Weight	0.815kg (1.80lb)		
Gross Weight	1.08kg (2.38lb)		

Ordering Information

Туре	Part Number	Description
2MP camera	DH-IPC- HFW4239TP-ASE	2MP Full-color Starlight Mini Bullet Network Camera, WDR, PAL
	DH-IPC- HFW4239TN-ASE	2MP Full-color Starlight Mini Bullet Network Camera, WDR,NTSC
	HFW4239TP-ASE	2MP Full-color Starlight Mini Bullet Network Camera, WDR,PAL
	HFW4239TN-ASE	2MP Full-color Starlight Mini Bullet Network Camera, WDR,NTSC
Accessories (optional)	PFA135	Junction box
	PFA152-E	Pole Mount
	LR1002	ePoE Over Coax Converter

Accessories

Optional:



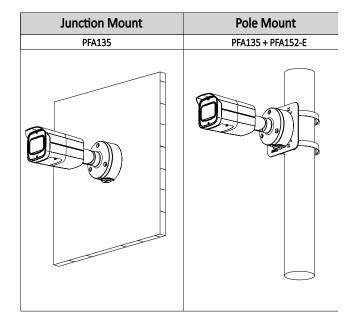




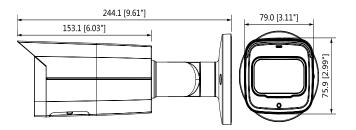
PFA135 Junction Box

PFA152-E Pole Mount

LR1002 ePoE Over Coax Converter



Dimensions (mm/inch)





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