

DH-IPC-HDBW4431F U M12

4MP IR Mini Dome Network Camera



- \cdot 1/3" 4Megapixel progressive scan CMOS
- · H.265&H.264 dual-stream encoding
- · 25/30fps@4M(2688×1520)
- · Smart Detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC,
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm fixed lens (3.6mm, 6mm optional)
- · Max. IR LEDs Length 20m
- · Micro SD memory, IP67, IK10, PoE













System Overview

Eco-savvy products by upgrading H.265 encoding technology, bringing high efficient video compression. It saves bandwidth and storage , energy-saving design to enhance the monitoring system . Meanwhile, the series offers features such as starlight , Smart IR technology , intelligent image analysis techniques. It provides excellent image quality and intelligent and efficient event reminders . This series provides IP67 weatherproof and IK10 vandal-proof protection feature. Give customers more value

Functions

Wide Dynamic Range

Embeded with industry leading wide dynamic range (WDR) technology, vivid picutures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Intelligent Video System (IVS)

With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed, ideal for business intelligence, and Facial Detection, for searching or identification of individuals.

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 $\pm 30\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 4KV lightning rating provides protectection against the camera and its structure from the effects of lightning.

Smart H.265+

Deliver high quality video without straining the network, Smart H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265.

HEVC (H.265)

H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264 , some retain the original technology , while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream , encoding quality , and the delay between algorithm complexity , optimize settings specific contents include : Improve compression efficiency , improve the robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay , reduce complexity , etc



BLC Mode

BLC / HLC / WDR(120dB)

Technical Specification						White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Camera						Gain Control	Auto/Manual
Image Sensor		1/3" 4Megapixel progressive scan CMOS				Noise Reduction	3D DNR
Effective Pixels		2688(H)x1520(V)				Motion Detetion	Off / On (4 Zone, Rectangle)
RAM/ROM		512MB/32MB				Region of Interest	Off / On (4 Zone)
Scanning System		Progressive					OH / OH (420HC)
Electronic Shutter Speed		1/3 s-1/100,000 s				Electronic Image Stabilization (EIS)	N/A
Minimum Illumination		0.08Lux/F2.0(Color,1/3s,30IRE) 0.3Lux/2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on)				Smart IR	Support
						Defog	N/A
S/N Ratio		More than 50dB				-	
IR Distance		Distance up to 20m (66ft)				Digital Zoom	16x
		Auto/ Manual				Flip	0°/90°/180°/270°
IR On/Off Control						Mirror	Off/On
IR LEDs		10				Privacy Masking	Off / On (4 Area, Rectangle)
Lens						Audio	
Lens Type		Fixed				Compression	G.711a/ G.711Mu/ AAC/ G.726
Mount Type		Board-in					
Focal Length		2.8mm (3.6mm, 6mm optional)				Network	
Max. Aperture		F2.0 (F2.0, F2.0)				Ethernet	RJ-45 (10/100Base-T)/M12 D-Coding
Angle of View		H: 104° (87°, 55°), V:57° (48°, 31°)				Drotocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP
Optical Zoom		N/A				Protocol	
Focus Control		Fixed				Interoperability	ONVIF, PSIA, CGI
Close Focus Distance		N/A				Streaming Method	Unicast / Multicast
	Lens	Detect	Observe	Recognize	Identify		
DORI Distance	2.8 mm	63m(207ft)	25m(82ft)	13m(43ft)	6m(20ft)	Max. User Access	10 Users /20 Users
Dom Distance	3.6 mm	80m(262ft)	32m(105ft)	16m(52ft)	8m(26ft)	Edge Storage	NAS Local PC for instant recording
		117m(384ft) 47m(154ft) 23m(75ft) 12m(39ft)			12m(39ft)		Mirco SD card 128GB
Pan/Tilt/Rotation						Web Viewer	IE, Chrome, Firefox, Safari
Pan/Tilt/Rotation Range		Pan:0°~60°; Tilt:0°~80°; Rotation:0°~360°				Management Software	Smart PSS, DSS, Easy4ip
Intelligence						Smart Phone	IOS, Android
IVS		Tripwire, Intrusion, Object Abandoned/Missing				Certifications	
Advanced Intelligent Functions Face Detection					CE (EN 60950:2000)		
Video						Certifications	UL:UL60950-1 FCC: FCC Part 15 Subpart B
Compression		H.265+/H.265/H.264+/H.264					E-mark(ECE-Regulation No.10) EN50155(Optional)
Streaming Capability		3 Streams				Interface	, , ,
Resolution		4M(2688×1520)/3M(2304×1296)/ 1080P(1920×1080)/1.3M(1280x960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)				Video Interface	N/A
Frame Rate		Main Stream: 4M(1~25/30fps)				Audio Interface	Built-in Mic
		Sub Stream: D1(1~25/30fps)				RS485	N/A
		Third Stream: 720P(1~25/30fps)				Alarm	N/A
Bit Rate Control		CBR/VBR H.264: 24~10240Kbps				Electrical	
Bit Rate		H.265: 14~9984Kbps				Power Supply	DC12V, PoE (802.3af)(Class 0)
Day/Night		Auto(ICR) / Color / B/W				Power Consumption	<4.5W
PLC Mode		BIC / HIC / WDB/1204B)					

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	Ф106mm×50.3mm (4.17"×1.98")
Net Weight	0.4kg (0.88lb)
Gross Weight	0.44kg (0.97lb)

Dimensions (mm/inch) @106 [@4.17*] @91 [@3.58*]

106 [4.17"]



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