

DH-IPC-HDBW3231F-M/M12

2MP IR Mini Dome Network camera



- · 1/2.8" 2Megapixel progressive scan CMOS
- · H.265&H.264 dual-stream encoding
- · 25/30fps@1080P(1920×1080)
- · WDR(120dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm, 3.6mm, 6mm fixed lens
- · Max. IR LEDs Length 23m
- · Micro SD memory,IP67,IK10,PoE+

System Overview

The Dahua mobile camera is specially designed for trains, buses and other vehicles. Due to its high-specification design, the mobile camera meets the requirements of vehicle standards such as EN50155, E-MARK(ECE-Regulation No.10), making the camera able to withstand the tough conditions like vibrations, shocks and wide range temperature fluctuations. The external camera meets the IP6K9K standard, which makes it dustproof and waterproof, sustaining high pressure / steam jet cleaning directly.

Functions

Starlight Technology

Featuring Dahua's Starlight Technology, this camera is ideal for applications with challenging lighting conditions. Its low-light performance delivers usable video with minimal ambient light. Even in extreme low-light conditions, Starlight Technology is capable of delivering color images in near complete darkness (0.009 lux).

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.















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



Environmental

Technical S	necification						
	pecinication					Noise Reduction	3D DNR
Camera						Motion Detection	Off / On (4 Zone, Rectangle)
Image Sensor		1/2.8 2Megapixel progressive scan CMOS				Region of Interest	Off / On (4 Zone)
Effective Pixels		1920(H)x1080(V)				Electronic Image Stabilization	
RAM/ROM		256MB/32MB				(EIS)	N/A
Scanning System		Progressive				Smart IR	Support
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Defog	N/A
Minimum Illumination		0.001Lux/F2.1 (Color,1/3s,30IRE) 0.03Lux/F2.1 (Color,1/30s,30IRE) 0Lux/F2.1 (IR on)				Digital Zoom	16x
S/N Ratio		More than 50dB				Flip	0°/90°/180°/270°
IR Distance		Distance up to 23m(75.5ft)				Mirror	Off / On
IR On/Off Contr	rol	Auto/Manual					
IR LEDs		10				Privacy Masking	Off / On (4 Area, Rectangle)
Lens						Audio	
Lens Type		Fixed				Compression	G.711a/G.711Mu/AAC
Mount Type		Board-in				Network	
Focal Length		2.8mm(3.6mm, 6mm optional)				Ethernet	RJ-45 (10/100Base-T)
Max. Aperture		F2.1(F2.2, F2.1)					HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;
Angle of View		H: 110 ° (89.5°, 52.8°) , V: 58 ° (50°, 30°)				Protocol	FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;
Optical Zoom		N/A					NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;S NMP;TLS
Focus Control Close Focus Dis	tanco	Fixed 0.6m(0.9m, 2m)				Interoperability	ONVIF Profile S&G, API
Close Focus Dis	Lens	Detect	Observe	Recognize	Identify	Streaming Method	Unicast / Multicast
DORI	2.8mm	44m(144ft)	18m(59ft)	9m(29ft)	4m(13ft)		
Distance	3.6mm	55m(180ft)	22m(187ft)	11m(95ft)	5.5m(46ft)	Max. User Access	10Users/20 Users
	6mm	83m(272ft)	33m(108ft)	17m(56ft)	8m(26ft)	Edge Storage	NAS Local PC for instant recording
Pan/Tilt/Rot	tation						Mirco SD card 128GB
Pan/Tilt/Rotati	on Range	Pan:-30°~30°; Tilt:0°~80°; Rotation:0°~360°			O°	Web Viewer	IE, Chrome, Firefox, Safari
Intelligence						Management Software	Smart PSS, DSS, DMSS
		Motion detection, Video tampering, Scene changing,			ne changing,	Smart Phone	IOS, Android
Event Trigger		Network disconnection, Ip address conflict, Illegal access, Storage anomaly				Certifications	
IVS		Tripwire, Intrusion, Object Abandoned/Missing					CE (EN 60950:2000)
Video						Certifications	UL:UL60950-1 FCC: FCC Part 15 Subpart B
Compression		H.265/H.264	4H/MJPEG(Sub	Stream)			EN50155(Environment)
Smart Codec		Support H.265+/H.264+				Interface	
Streaming Capability		2 Streams				Video Interface	N/A
Resolution		1080P(1920×1080)/ 1.3M(1280×960)/ 720P(1280×720)/ D1(704×576/704×480)/				Audio Interface	Built-in Mic
กสรบเนเบท		720F(1280X720)/ D1(704×576/704X480)/ VAG(640×480)/CIF(352×288/352×240)				RS485	N/A
Frame Rate		Main Stream: 1080P(1~25/30fps)				Alarm	N/A
		Sub Stream: D1 (1 ~ 25/30fps)				Electrical	
Bit Rate Control		CBR/VBR				Power Supply	DC12V, PoE (IEEE 802.3af)(Class 0)
Bit Rate		H.264H:16Kbps ~ 10240Kbps H.6Kbps~ 7424Kbps					DC 12V: 2.6W 3.7W(IR on)
Day/Night		Auto(ICR) / Color / B/W				Power Consumption	PoE: 3.5W 5W(IR on)
BLC Mode		BLC / HLC / WDR(120dB)					
White Balance		Auto/Manual					
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Auto/Manual

Gain Control

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Storage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	106mm×50.3mm(4.17"x1.98")
Net Weight	0.33kg(0.73lb)
Gross Weight	0.46 kg(1.01lb)

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Ordering Information					
Туре	Part Number	Description			
	DH-IPC- HDBW3231FP-M/M12- 0280B	2MP IR Starlight Dome Network Camera, PAL			
	DH-IPC- HDBW3231FN-M/M12- 0280B	2MP IR Starlight Dome Network Camera, NTSC			
	DH-IPC- HDBW3231FP-M/M12- 0360B	2MP IR Starlight Dome Network Camera, PAL			
	DH-IPC- HDBW3231FN-M/M12- 0360B	2MP IR Starlight Dome Network Camera, NTSC			
	DH-IPC- HDBW3231FP-M/M12- 0600B	2MP IR Starlight Dome Network Camera, PAL			
2MP camera	DH-IPC- HDBW3231FN-M/M12- 0600B	2MP IR Starlight Dome Network Camera, NTSC			
	IPC-HDBW3231FP-M/ M12-0280B	2MP IR Starlight Dome Network Camera, PAL			
	IPC-HDBW3231FN-M/ M12-0280B	2MP IR Starlight Dome Network Camera, NTSC			
	IPC-HDBW3231FP-M/ M12-0360B	2MP IR Starlight Dome Network Camera, PAL			
	IPC-HDBW3231FN-M/ M12-0360B	2MP IR Starlight Dome Network Camera, NTSC			
	IPC-HDBW3231FP-M/ M12-0600B	2MP IR Starlight Dome Network Camera, PAL			
	IPC-HDBW3231FN-M/ M12-0600B	2MP IR Starlight Dome Network Camera, NTSC			
	PFA139	Junction box			
Accessories (optional)	PFB204W	Wall mount			
	PFA152	Pole mount			

Accessories

Optional:







PFA139 Junction box

PFB204W Wall mount

PFA152 Pole mount

Junction Mount	Pole Mount
PFA139	PFB204W + PFA152
Wall Mount	
PFB204W	
PFB204W	

Dimensions (mm/inch)



