

DH-IPC-HDBW3231F-M/M12

2MP IR Mini Dome Network camera



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.

- · 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+
- · Supports Watermark
- · EN50155(Environment), E-MARK















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

Technical S _I	pecification						
Camera						Noise Reduction	3D DNR
Image Sensor		1/2.8 2Megapixel progressive scan CMOS				Motion Detection	Off / On (4 Zone, Rectangle)
Effective Pixels		1920(H)x1080(V)				Region of Interest	Off / On (4 Zone)
RAM/ROM		256MB/32MB				Electronic Image Stabilization	N/A
Scanning System		Progressive				(EIS)	.,,,
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Smart IR	Support
Minimum Illumination		0.001Lux/F2.1 (Color,1/3s,30IRE) 0.03Lux/F2.1 (Color,1/30s,30IRE)				Defog Digital Zoom	N/A 16x
C/N D-+:-		OLux/F2.1 (IR on) More than 50dR				-	
S/N Ratio		More than 50dB Distance up to 23m(75.5ft)				Flip	0°/90°/180°/270°
IR Distance						Mirror	Off / On
IR On/Off Control		Auto/Manual				Privacy Masking	Off / On (4 Area, Rectangle)
IR LEDs		10				Audio	
Lens						Addio	
Lens Type		Fixed				Compression	G.711a/G.711Mu/AAC
Mount Type		Board-in				Network	
Focal Length			nm, 6mm optior	nal)		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°) N/A				Protocol	FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;S NMP;TLS
Optical Zoom Focus Control		Fixed					
Close Focus Dis	tance	0.6m(0.9m, 2m)				Interoperability	ONVIF Profile S&G, API
	Lens	Detect	Observe	Recognize	Identify	Streaming Method	Unicast / Multicast
DORI	2.8mm	44m(144ft)	18m(59ft)	9m(29ft)	4m(13ft)	Max. User Access	10Users/20 Users
Distance	3.6mm 6mm	55m(180ft) 83m(272ft)	22m(187ft) 33m(108ft)	11m(95ft) 17m(56ft)	5.5m(46ft) 8m(26ft)	-1.	NAS
Pan/Tilt/Rot		00111(27210)	55(155.1)	17.11(3014)	om(zort)	Edge Storage	Local PC for instant recording Mirco SD card 128GB
Pan/Tilt/Rotati		Pan:-30°~30°; Tilt:0°~80°; Rotation:0°~360°			•	Web Viewer	IE, Chrome, Firefox, Safari
Intelligence	· ·	ran30 30, mil.0 au, notation.0 300				Management Software	Smart PSS, DSS, DMSS
memberiee		Motion detection Video temporing Scope changing				Smart Phone	IOS, Android
Event Trigger		Motion detection, Video tampering, Scene changing, Network disconnection, Ip address conflict, Illegal access, Storage anomaly				Certifications	
IVS		Tripwire, Intr	rusion				CE (EN 60950:2000) UL:UL60950-1
Video						Certifications	FCC: FCC Part 15 Subpart B EN50155(Environment)
Compression		H.265/H.264H/MJPEG(Sub Stream)					
Smart Codec		Support H.26	65+/H.264+			Interface	
Streaming Capability		2 Streams				Video Interface	N/A
Resolution		1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704×576/704x480)/				Audio Interface	Built-in Mic
		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 H.264H:16Kbps ~ 10240Kbps				Power Supply	DC12V, PoE (IEEE 802.3af)(Class 0)
Bit Rate		H.6Kbps~ 7424Kbps				Power Consumption	DC 12V: 2.6W 3.7W(IR on)
Day/Night		Auto(ICR) / Color / B/W					PoE: 3.5W 5W(IR on)
BLC Mode		BLC / HLC / WDR(120dB)					
White Balance		Auto/Manual					
Gain Control		Auto/Manual					

Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +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)

Ordering Information

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)

