

DH-IPC-MBW4431-AS/M12

4MP IR Mobile 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

ІР6К9К

IP6K9K is the Degrees of protection (IP code, ISO 20653) for Road vehicles, Protection of electrical equipment against foreign objects, water and access. Products meet the IP6K9K standard, can be directly used high pressure / steam jet cleaning.

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.

Environmental

With a temperature range of-40 °C to +70 °C (-40 °F to +158 °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.

- · 1/3" 4Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@4M(2688×1520)
- · 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 30m
- · Micro SD memory, IP67, IK10, IP6K9K, PoE
- · E-MARK(ECE-Regulation No.10)













Protection

Supporting ±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 Specification					Day/Night	Auto(ICR) / Color / B/W	
Camera			BLC Mode	BLC / HLC / WDR(120dB)			
Image Sensor		1/3" 4Megapixel progressive scan CMOS				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Effective Pixels		2688(H) x 1520(V)				Gain Control	Auto/Manual
RAM/ROM		512MB/32MB				Noise Reduction	3D DNR
Scanning System		Progressive				Motion Detetion	Off / On (4 Zone, Rectangle)
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Region of Interest	Off / On (4 Zone)
Minimum Illumination		0.08Lux/F2.0(0.3Lux/2.0(Co 0Lux/F2.0(IR o	olor,1/30s,30II			Electronic Image Stabilization (EIS)	N/A
S/N Ratio		More than 50dB				Smart IR	Support
IR Distance		Distance up to	30m (98ft)			Defog	N/A
IR On/Off Control		Auto/ Manual				Digital Zoom	16x
IR LEDs						Flip	0°/90°/180°/270°
		2				Mirror	Off / On
Lens		Firmal				Privacy Masking	Off / On (4 Area, Rectangle)
Lens Type		Fixed				Audio	
Mount Type		Board-in				Compression	N/A
Focal Length		2.8mm (3.6mm, 6mm optional)				Network	
Max. Aperture		F2.0 (F2.0, F2.0)					-AS: RJ45(10/100Base-T)
Angle of View		2.8mm: Horizontal::104°; vertical: 55°; diagonal:125° 3.6mm: Horizontal::82.5°; vertical: 45°; diagonal:97° 6.0mm: Horizontal::55°; vertical: 31°; diagonal:65°				Ethernet	-M12:M12 D-Coding(10/100Base-T) HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP;
Optical Zoom		N/A				Protocol	FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP
Focus Control		Fixed				Interoperability	ONVIF, PSIA, CGI
Close Focus Distance		N/A				Streaming Method	Unicast / Multicast
	Lens 2.8 mm	Detect 56m(184ft)	Observe 22m(72ft)	Recognize 11m(36ft)	Identify 6m(20ft)	Max. User Access	10 Users /20 Users
DORI Distance	3.6 mm	80m(262ft)	32m(105ft)		8m(26ft)	Edge Storage	NAS Local PC for instant recording
	6.0 mm	120m(394ft)	48m(157ft)	24m(79ft)	12m(39ft)	Luge Storage	Mirco SD card 128GB
Pan/Tilt/Ro	tation					Web Viewer	IE, Chrome, Firefox, Safari
Pan/Tilt/Rotati	on Range	Pan:0°~20°; Tilt:±15°; Rotation:0°~360°				Management Software	Smart PSS, DSS, Easy4ip
Intelligence	!					Smart Phone	IOS, Android
IVS		Tripwire, Intrusion, Object Abandoned/Missing				Certifications	
Advanced Intelligent Functions Video		Face Detection				Certifications	CE (EN 60950:2000) 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(Environment)
Streaming Capability		3 Streams				Interface	
Resolution		4M(2688×1520)/3M(2304×1296)/ 1080P(1920×1080) /1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)				Video Interface	N/A
						Audio Interface	1/1 channel In/Out (-AS Model)
Frame Rate		Main Stream: 4M(1~25/30fps)				RS485	N/A
		Sub Stream: D1(1~25/30fps)				Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC (-AS Model)
		Third Stream: 720P(1~25/30fps)				Electrical	
Bit Rate Control		CBR/VBR				Power Supply	-AS: DC12V, PoE (802.3af)(Class 0) -M12: PoE (802.3af)(Class 0)
Bit Rate		H.264: 24~10240Kbps H.265: 14~9984Kbps				Power Consumption	<6.5W

Environmental				
Operating Conditions	-40° C $^{\sim}$ +70° C (-40° F $^{\sim}$ +158° F) / Less than 95% RH			
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Ingress Protection	IP67,IP6K9K			
Vandal Resistance	IK10			
Construction				
Casing	Metal			
Dimensions	140.6mm×112.9mm×69.4mm (5.53"×4.44"×2.73")			
Net Weight	0.59Kg (1.3lb)			
Gross Weight	0.8Kg (1.76lb)			

Ordering I	nformation	
Туре	Part Number	Description
	DH-IPC- MBW4431P-M12- 0280B	4MP IR Mobile Network Camera,WDR,PAL
	DH-IPC- MBW4431N-M12- 0280B	4MP IR Mobile Network Camera,WDR,NTSC
	IPC-MBW4431P- M12-0280B	4MP IR Mobile Network Camera,WDR,PAL
	IPC-MBW4431N- M12-0280B	4MP IR Mobile Network Camera,WDR,NTSC
	DH-IPC- MBW4431P-AS- 0280B	4MP IR Mobile Network Camera,WDR,PAL
	DH-IPC- MBW4431N-AS- 0280B	4MP IR Mobile Network Camera,WDR,NTSC
4MP camera	IPC-MBW4431P- AS-0280B	4MP IR Mobile Network Camera,WDR,PAL
4WIF Calliela	IPC-MBW4431N- AS-0280B	4MP IR Mobile Network Camera,WDR,NTSC
	DH-IPC- MBW4431P-M12- 0360B	4MP IR Mobile Network Camera,WDR,PAL
	DH-IPC- MBW4431N-M12- 0360B	4MP IR Mobile Network Camera,WDR,NTSC
	IPC-MBW4431P- M12-0360B	4MP IR Mobile Network Camera,WDR,PAL
	IPC-MBW4431N- M12-0360B	4MP IR Mobile Network Camera,WDR,NTSC
	DH-IPC- MBW4431P-AS- 0360B	4MP IR Mobile Network Camera,WDR,PAL
	DH-IPC- MBW4431N-AS- 0360B	4MP IR Mobile Network Camera,WDR,NTSC

	IPC-MBW4431P- AS-0360B	4MP IR Mobile Network Camera,WDR,PAL
	IPC-MBW4431N- AS-0360B	4MP IR Mobile Network Camera,WDR,NTSC
	DH-IPC- MBW4431P-M12- 0600B	4MP IR Mobile Network Camera,WDR,PAL
	DH-IPC- MBW4431N-M12- 0600B	4MP IR Mobile Network Camera,WDR,NTSC
4MP camera	IPC-MBW4431P- M12-0600B	4MP IR Mobile Network Camera,WDR,PAL
4ivir calliela	IPC-MBW4431N- M12-0600B	4MP IR Mobile Network Camera,WDR,NTSC
	DH-IPC- MBW4431P-AS- 0600B	4MP IR Mobile Network Camera,WDR,PAL
	DH-IPC- MBW4431N-AS- 0600B	4MP IR Mobile Network Camera,WDR,NTSC
	IPC-MBW4431P- AS-0600B	4MP IR Mobile Network Camera,WDR,PAL
	IPC-MBW4431N- AS-0600B	4MP IR Mobile Network Camera,WDR,NTSC

Side Mount	Plane Mount



