

DH-IPC-MBW4431P-M12

4MP IR Mobile Network Camera



- 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)



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

IP6K9K

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

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures 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.

Protection

Supporting ±30% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 4KV lightning rating provides protection 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							
Camera						Day/Night	Auto(ICR) / Color / B/W
Image Sensor						BLC Mode	BLC / HLC / WDR(120dB)
Effective Pixels						White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
RAM/ROM						Gain Control	Auto/Manual
Scanning System						Noise Reduction	3D DNR
Electronic Shutter Speed						Motion Detetion	Off / On (4 Zone, Rectangle)
Minimum Illumination						Region of Interest	Off / On (4 Zone)
S/N Ratio						Electronic Image Stabilization (EIS)	N/A
IR Distance						Smart IR	Support
IR On/Off Control						Defog	N/A
IR LEDs						Digital Zoom	16x
Lens						Flip	0°/90°/180°/270°
Lens Type						Mirror	Off / On
Mount Type						Privacy Masking	Off / On (4 Area, Rectangle)
Focal Length						Audio	
Max. Aperture						Compression	N/A
Angle of View						Network	
Optical Zoom						Ethernet	-AS: RJ45(10/100Base-T) -M12:M12 D-Coding(10/100Base-T)
Focus Control						Protocol	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
Close Focus Distance						Interoperability	ONVIF, PSIA, CGI
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Streaming Method	Unicast / Multicast
	2.8 mm	56m(184ft)	22m(72ft)	11m(36ft)	6m(20ft)	Max. User Access	10 Users /20 Users
	3.6 mm	80m(262ft)	32m(105ft)	16m(52ft)	8m(26ft)	Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
	6.0 mm	120m(394ft)	48m(157ft)	24m(79ft)	12m(39ft)	Web Viewer	IE, Chrome, Firefox, Safari
Pan/Tilt/Rotation						Management Software	Smart PSS, DSS, Easy4ip
Pan/Tilt/Rotation Range						Smart Phone	IOS, Android
Intelligence						Certifications	
IVS						Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B E-mark(ECE-Regulation No.10) EN50155(Environment)
Advanced Intelligent Functions						Interface	
Video						Video Interface	N/A
Compression						Audio Interface	1/1 channel In/Out (-AS Model)
Streaming Capability						RS485	N/A
Resolution						Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC (-AS Model)
Frame Rate						Electrical	
Bit Rate Control						Power Supply	-AS: DC12V, PoE (802.3af)(Class 0) -M12: PoE (802.3af)(Class 0)
Bit Rate						Power Consumption	<6.5W

Environmental

Operating Conditions	-40° C ~ +70° C (-40° F ~ +158° F) / Less than 95% RH
Storage Conditions	-40° C ~ +70° C (-40° F ~ +158° F) / Less than 95% RH
Ingress Protection	IP67,IP6K9K
Vandal Resistance	IK10

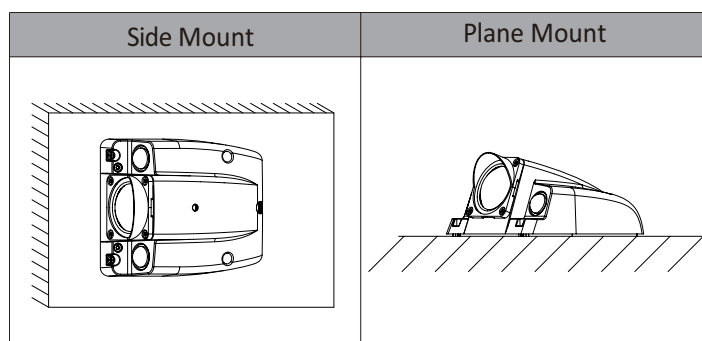
Construction

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 Information

Type	Part Number	Description
4MP camera	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
	IPC-MBW4431P-AS-0280B	4MP IR Mobile Network Camera,WDR,PAL
	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

4MP camera	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
	IPC-MBW4431P-M12-0600B	4MP IR Mobile Network Camera,WDR,PAL
	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



Dimensions (mm/inch)

