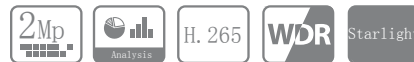


DH-IPC-MW4231A-E2

2MP Dual Lens Dash Camera



- 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- H.265&H.264 double-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
- 2.1mm(Rear),2.8mm(Front) Fixed lens
- Micro SD memory



System Overview

Dahua Dual Lens dash camera is specially designed for taxi, online car-hailing and other vehicles. The camera is equipped with two lens which can meet the view requirement of both front and rear. Besides, the device owns some smart technologies such as starlight, intelligent image analysis and so on. With its intelligent functions, the device can provide excellent image quality and efficient event reminders

Functions

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Wide Dynamic Range (WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Intelligent Video analysis (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area. In addition to scene analytics, the camera supports face detection to quickly capture a face and upload the image to a server. The camera also offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

HEVC (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the

data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

Technical Specification							Bit Rate Control		CBR/VBR	
Camera							Bit Rate		H.264: 32~ 10240Kbps H.265: 12~ 6400Kbps	
Image Sensor		1/2.8" 2Megapixel progressive scan CMOS					Day/Night		Rear : Auto(ICR) / Color / B/W Front: Electronic	
Effective Pixels		1920(H)x1080(V)					BLC Mode		BLC / HLC / WDR(120dB)	
RAM/ROM		512MB/32MB					White Balance		Auto/Manual	
Scanning System		Progressive					Gain Control		Auto/Manual	
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s					Noise Reduction		3D DNR	
Minimum Illumination		Front : 0.009Lux/F2.2(Color,1/3s,30IRE) 0.07Lux/F2.2(Color,1/30s,30IRE) 0Lux/F2.2(B/W) Rear : 0.009Lux/F2.0(Color,1/3s,30IRE) 0.07Lux/F2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on)					Motion Detection		Off / On (4 Zone, Rectangle)	
S/N Ratio		More than 50dB					Region of Interest		Off / On (4 Zone)	
IR Distance		Distance up to 2m(6.56ft)					Electronic Image Stabilization (EIS)		N/A	
IR On/Off Control		Auto/Manual					Smart IR		N/A	
IR LEDs		1					Defog		N/A	
Lens							Digital Zoom		16x	
Lens Type		Fixed					Flip		0°/90°/270°	
Mount Type		Board-in					Mirror		Off / On	
Focal Length		2.1mm(Rear)/2.8mm(Front)					Privacy Masking		Off / On (4 Area, Rectangle)	
Max. Aperture		F2.0(Rear)F2.2(Front)					Audio			
Angle of View		Rear : H:133.6° V:78.4° Front : H:114.6° V:57.5°					Compression		G.711A/G.711Mu/G.726/AAC	
Optical Zoom		N/A					Network			
Focus Control		N/A					Ethernet		M12 (10/100Base-T)	
Predictive Focus Algorithm (PFA)		N/A					Protocol		HTTP;HTTPS;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP; FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;S NMP;TLS	
Close Focus Distance		0.5m(1.64ft)					Interoperability		ONVIF;CGI	
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Streaming Method		Unicast / Multicast	
	2.1mm	36.7m(120ft)	14.7m(48ft)	7.3m(24ft)	3.7m(12ft)		Max. User Access		10Users/20Users	
	2.8mm	38.6m(127ft)	15.4m(51ft)	7.7m(25ft)	3.9m(13ft)		Edge Storage		NAS FTP Mirco SD card 128GB	
Pan/Tilt/Rotation							Web Viewer		IE, Chrome	
Pan/Tilt/Rotation Range		Bracket :Pan:0°~330°; Tilt:-15°-15° Rear Camera :Pan:15°-15°; Tilt:-15°-15°					Management Software		Smart PSS, DSS, DMSS	
Intelligence							Smart Phone		IOS, Android	
Event Trigger		Motion detection, Video tampering , Scene changing, Illegal Access,Storage anomaly					Certifications			
IVS		Tripwire, Intrusion, Object Abandoned/Missing					Certifications		CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B	
Advanced Intelligent Functions		Face Detection					Interface			
Video							Video Interface		N/A	
Compression		H.265/H.264H/MJPEG(Sub Stream)					Audio Interface		Built-in Mic	
Smart Codec		N/A					RS485		N/A	
Streaming Capability		2X2 Streams					Alarm		N/A	
Resolution		1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704×576/704x480) /CIF(352x288/342x240)								
Frame Rate		Main Stream: CH1: 1080P (1~25/30fps) CH2: 1080P (1~25/30fps)								
		Sub Stream: CH1: D1(1~25/30fps) CH2: D1(1~25/30fps)								

Electrical

Power Supply	DC12V(±30%)
Power Consumption	DC 12V: 4.4W 5.4W(IR on)

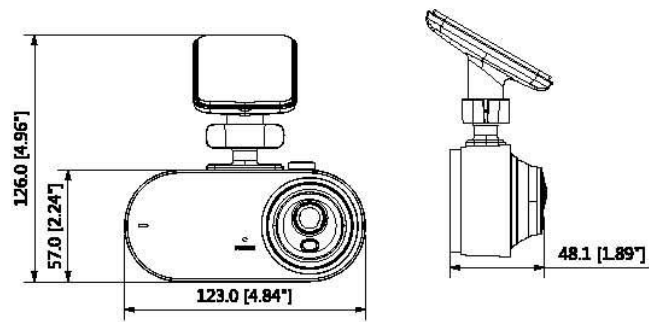
Environmental

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	N/A
Vandal Resistance	N/A

Construction

Casing	Metal,Plastic
Dimensions	123mm×126mm×48.1mm (4.84"×4.96"×1.89")
Net Weight	250g (0.55lb)
Gross Weight	320g (0.71lb)

Dimensions (mm/inch)



Ordering Information

Type	Part Number	Description
2MP camera	DH-IPC-MW4231AP-E2	2MP Dual Lens Dash Camera,PAL
	DH-IPC-MW4231AN-E2	2MP Dual Lens Dash Camera,NTSC
	IPC-MW4231AP-E2	2MP Dual Lens Dash Camera,PAL
	IPC-MW4231AN-E2	2MP Dual Lens Dash Camera,NTSC

M12 Connector

SN	Function
1	ETHTX-
2	ETHTX+
3	+12V
4	ETHRX-
5	ETHRX+
6	GND

