

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.



Camera Image Sensor Effective Pixels RAM/ROM Scanning System Electronic Shutte	r Speed	1/2.8" 2Megap 1920(H)x1080(512MB/32MB Progressive Auto/Manual, 1		e scan CMOS		Bit Rate	H.264: 32~ 10240Kbps H.265: 12~ 6400Kbps Rear : Auto(ICR) / Color / B/W
Effective Pixels RAM/ROM Scanning System	r Speed	1920(H)x1080(512MB/32MB Progressive Auto/Manual, 1		e scan CMOS		Day/Night	Rear : Auto(ICR) / Color / B/W
RAM/ROM Scanning System	r Speed	512MB/32MB Progressive Auto/Manual, 1	V)				
Scanning System	r Speed	Progressive Auto/Manual, 1				Day/Night	Front: Electronic
	r Speed	Auto/Manual, 1				BLC Mode	BLC / HLC / WDR(120dB)
Electronic Shutte	r Speed					White Balance	Auto/Manual
		Front :	1/3~1/100000s			Gain Control	Auto/Manual
		0.009Lux/F2.2(Color,1/3s,30IRE) 0.07Lux/F2.2(Color,1/30s,30IRE) 0Lux/F2.2(B/W)				Noise Reduction	3D DNR
Minimum Illumin	ation					Motion Detection	Off / On (4 Zone, Rectangle)
William Mariniación		Rear : 0.009Lux/F2.0(Color,1/3s,30IRE) 0.07Lux/F2.0(Color,1/30s,30IRE)				Region of Interest	Off / On (4 Zone)
		OLux/F2.0(IR on)				Electronic Image Stabilization	N/A
S/N Ratio		More than 50dB				(EIS)	N/A
IR Distance		Distance up to 2m(6.56ft)				Smart IR	N/A
IR On/Off Control IR LEDs		Auto/Manual 1				Defog	N/A
		1				Digital Zoom	16x
Lens		F: 1					
Lens Type Mount Type		Fixed Deard in				Flip	0°/90°/270°
Mount Type Focal Length		Board-in 2.1mm(Rear)/2.8mm(Front)				Mirror	Off / On
Max. Aperture		F2.0(Rear)F2.2(Front)				Privacy Masking	Off / On (4 Area, Rectangle)
A =		Rear : H:133.6° V:78.4°				Audio	
Angle of View		Front : H:114.6° V:57.5°				Compression	G.711A/G.711Mu/G.726/AAC
Optical Zoom		N/A				Compression	G./11A/G./11Mu/G./20/AAC
Focus Control Predictive Focus Algorithm		N/A				Network	
(PFA)		N/A				Ethernet	M12 (10/100Base-T)
Close Focus Dista	nce	0.5m(1.64ft)					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
DORI	Lens	Detect	Observe	Recognize	Identify	Protocol	
Distance	2.1mm 2.8mm	36.7m(120ft) 38.6m(127ft)	14.7m(48ft) 15.4m(51ft)	7.3m(24ft) 7.7m(25ft)	3.7m(12ft) 3.9m(13ft)	Interoperability	ONVIF;CGI
Pan/Tilt/Rota		38.0111(12711)	15.4111(5111)	7.7111(2511)	3.5111(1511)		
Pan/Tilt/Rotation		Procket (Paninos-220s, Tilt: 15° 15°				Streaming Method	Unicast / Multicast
Pan/Tilt/Rotation	Range	Bracket :Pan:0*~330*; Tilt:-15*-15* Rear Camera :Pan:15*-15*, Tilt:-15*-15*				Max. User Access	10Users/20Users
Intelligence							NAS
		Motion detection, Video tampering , Scene changing,			changing,	Edge Storage	FTP Mirco SD card 128GB
Event Trigger IVS		Illegal Access, Storage anomaly Tripwire, Intrusion, Object Abandoned/Missing				Web Viewer	IE, Chrome
Advanced Intelligent Functions						Management Software	Smart PSS, DSS, DMSS
Video						Smart Phone	IOS, Android
Compression		H.265/H.264H/MJPEG(Sub Stream)				Certifications	
Smart Codec		N/A				Certifications	CE (EN 60950:2000)
Streaming Capability		2X2 Streams					UL:UL60950-1 FCC: FCC Part 15 Subpart B
Resolution		1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704×576/704x480) /CIF(352×288/342x240)				Interface	
Frame Rate		Main Stream: CH1: 1080P (1~25/30fps) CH2: 1080P (1~25/30fps)				Video Interface	N/A
						Audio Interface	Built-in Mic
		Sub Stream: CH1: D1(1~25/30fps)				RS485	N/A
		CH2: D1(1~25/3				Alarm	N/A

Electrical

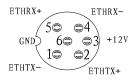
Power Supply	DC12V(±30%)
Power Consumption	DC 12V: 4.4W 5.4W(IR on)
Environmental	
Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Strorage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	N/A
Vandal Resistance	N/A

Construction

Casing	Metal,Plastic
Dimensions	123mm×126mm×48.1mm (4.84"×496"×1.89")
Net Weight	250g (0.55lb)
Gross Weight	320g (0.71lb)

Ordering Information						
Туре	Part Number	Description				
	DH-IPC- MW4231AP-E2	2MP Dual Lens Dash Camera,PAL				
2440	DH-IPC- MW4231AN-E2	2MP Dual Lens Dash Camera,NTSC				
2MP camera	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



Dimensions (mm/inch)

