

DH-HAC-HDW2241M-E2

2MP Starlight HDCVI IR Dual-lens Camera

HDCVI



- · Starlight, 120dB true WDR, 3DNR
- · One-way power supply for dual-way video outputs
- · Broadcast-quality audio
- · HD/SD output switchable
- · Single view: max. 30fps@1080P
- · 3.6mm fixed lens (2.8mm, 6mm optional)
- · Max. IR length 30m, Smart IR
- · IP67, DC12V±30%

















System Overview

Experience 1080P full HD video and the simplicity of reusing existing coaxial infrastructure with HDCVI, the Starlight HDCVI camera with 120dB true WDR presents a high quality image with rich details even in extreme low-light conditions. It offers various motorized/fixed lens models with a multi-language OSD and HD/SD switchable output. Its superior image performance and starlight feature as well as the dual-lens deign make the camera an ideal choice for some special application scenarios such as corridor turn, hallway, wall corner, entrance, etc.

Functions

Excellent Versatility

Designed with junction box, the camera is in a friendly installation mode to shorten the mounting process and save accessories and labor cost. Besides, the particular structure makes the camera suitable for the applications of various scenes.

Dual-lens Feature

The camera equipped with double lens adopts one-way power supply for dual-way video outputs to save cost and time. Dual-eyeball design makes it possible to monitor two directions via one camera, achieving wider horizon.

Starlight

With the adoption of high performance sensor, the camera is able to provide incomparable performance even under extreme lowlight environment. The starlight feature allows more details to be captured and accurate color to be recognized at night or in scenes with limited illumination.

Broadcast-quality Audio

Audio information is used as supplementary evidence in video surveillance applications. The HDCVI camera supports audio signal transmission over coaxial cable. In addition, it adopts unique audio processing and transmission technology that best restores source audio and eliminates noise, guaranteeing the quality and effectiveness of collected audio information.

Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Advanced 3DNR

3DNR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Dahua's advanced 3DNR technology allows remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. Besides, the advanced 3DNR effectively decreases the band width and saves the storage space.

Long Distance Transmission

HDCVI technology guarantees long-distance and real-time transmission without any loss. It supports up to 800m for 1080P Full HD video via coaxial cable, and up to 300m via UTP cable.*

*Actual results verified by real-scene testing in Dahua's test laboratory.

Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments.

With working temperature range of-40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments.

Supporting $\pm 30\%$ input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Pro Series | DH-HAC-HDW2241M-E2

Technical Specification			Video Output	2-channel BNC high definition video output / CV video output (DIP switch)
Camera			Dec. /Allielia	
Image Sensor	2×1/2.8" CMOS		Day/Night	Auto (ICR) / Manual
Effective Pixels	Single view: 1920(H)×108	0(V), 2MP	OSD Menu	Multi-language
Scanning System	Progressive		BLC Mode	BLC / HLC / WDR
Electronic Shutter Speed	PAL: 1/4s~1/100000s NTSC: 1/3s~1/100000s		WDR Gain Control	120dB AGC
Minimum Illumination	0.004Lux/F1.6, 30IRE, 0Lu	ıx IR on	Noise Reduction	2D / 3D
/N Ratio	More than 65dB		White Balance	Auto / Manual
R Distance	Up to 30m (98feet)		Smart IR	Auto / Manual
R On/Off Control	Auto / Manual		Certifications	
RLEDs	2×12			CE (ENERGY) ENERGY ENEGY (A)
ens			Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4- UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
ens Type	Fixed lens / Fixed iris			OE (OE00930-1+CAN/CSA CZZ.Z NO.00930-1)
Mount Type	Board-in		Interface	
ocal Length	3.6mm (2.8mm, 6mm Op	tional)	Audio Interface	1
Max Aperture	F1.6		Eelectrical	
Angle of View	Single view(H): 86.9° (110	°/52.8°)	Power Supply	1×12V DC ±30%
Focus Control	N/A		Power Consumption	Max. 9.2W (12V DC, IR on)
Close Focus Distance	1200mm (500mm, 2200n 47.2" (19.7"/ 86.6")	nm)	Environmental	
OORI Distance	47.2 (15.7 / 80.0)		Operating Conditions	-40°C $^{\sim}$ +60°C (-40°F $^{\sim}$ +140°F) / Less than 95% * Start up should be done at above-40°C (-40°F
*Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the		which makes it easy to	Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95%
		calculated based on 4 which defines the	Ingress Protection & Vandal Resistance	IP67
criteria for Detect, Observe, Recognize and Identify respectively.		y.	Construction	
	DORI Definition	Distance	Casing	Aluminium

	DORI Definition	Distance
Detect	25px/m (8px/ft)	2.8mm: 39m(128ft) 3.6mm: 55m(180ft) 6mm:83m(272ft)
Observe	63px/m (19px/ft)	2.8mm: 15m(49ft) 3.6mm:22m(27ft) 6mm:33m(108ft)
Recognize	125px/m (38px/ft)	2.8mm: 8m(26ft) 3.6mm: 11m(36ft) 6mm: 17m(56ft)
Identify	250px/m (76px/ft)	2.8mm: 4m(13ft) 3.6mm: 6m(20ft) 6mm: 8m(26ft)

Pan / Tilt / Rotation

	Pan: 0° ~ 360°
Pan/Tilt/Rotation	Tilt: 0° ~ 90°
	Rotation: 0° ~ 360°

Video

Resolution	Single view: 1080P (1920×1080)
Frame Rate	25/30fps@1080P, 25/30/50/60fps@720P

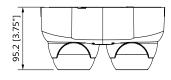
Noise Reduction	2D/3D
White Balance	Auto / Manual
Smart IR	Auto / Manual
Certifications	
Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014 UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Interface	
Audio Interface	1
Eelectrical	
Power Supply	1×12V DC ±30%
Power Consumption	Max. 9.2W (12V DC, IR on)
Environmental	
Operating Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% RH * Start up should be done at above-40°C (-40°F)
Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% RH
Ingress Protection & Vandal Resistance	IP67
Construction	
Casing	Aluminium
Dimensions	201mm×101mm×95mm (7.91"×3.98"×3.74")
Net Weight	0.68kg (1.50lb)
Gross Weight	1.05kg (2.31lb)

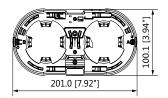
Pro Series | DH-HAC-HDW2241M-E2

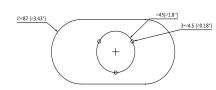
Ordering Information			
Туре	Part Number	Description	
	DH-HAC-HDW2241MP-E2 2.8mm		
	DH-HAC-HDW2241MP-E2 3.6mm	2MP Starlight HDCVI IR Dual- lens Camera, PAL	
2MP Camera	DH-HAC-HDW2241MP-E2 6mm		
Zivii Camera	DH-HAC-HDW2241MN-E2 2.8mm		
	DH-HAC-HDW2241MN-E2 3.6mm	2MP Starlight HDCVI IR Duallens Camera, NTSC	
	DH-HAC-HDW2241MN-E2 6mm		
	PFA151	Corner Mount Bracket	
	PFM800-E	Passive HDCVI Balun	
	PFM800-4K	Passive Video Balun	
Accessories	PFM800B-4K	Passive Video Balun	
	PFM321	12V 1A Power Adapter	
	PFM320	12V 2A Power Adapter	
	PFM300	12V 2A Power Adapter	

PFA151	Ceiling Mount	Corner Mount
		PFA151
	60	

Dimensions (mm/inch)







Accessories

Optional:



PFA151 Corner Mount Bracket



PFM800-E Passive HDCVI Balun



PFM800-4K Passive Video Balun



PFM800B-4K Passive Video Balun



PFM321 12V 1A Power Adapter



PFM320D-015 Power Adapter



PFM300 12V 2A Power Adapter

