

DH-HAC-HDW1400TMQ(-A)

4MP HDCVI Quick-to-install IR Eyeball Camera



- · Max 30fps@4MP
- · Quick-to-install eyeball saves installation time
- · CVI/CVBS/AHD/TVI switchable
- · 3.6mm fixed lens (2.8mm, 6mm optional)
- · Built-in mic(-A)
- · Max. IR length 60m, Smart IR
- · IP67, DC12V











System Overview

Experience 4MP full HD video and the simplicity of using existing cabling infrastructure with HDCVI. The Lite series 4MP HDCVI camera features a compact design and offers a high quality image at a friendly price. It offers various motorized/fixed lens models with a multi-language OSD and HD/SD switchable output. Its structural flexibility and high cost-performance makes the camera an ideal choice for SMB solutions.

Functions

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the XVR, such as sending control signal or triggering alarm. Moreover, HDCVI technology supports PoC for construction flexibility.

* Audio input is available for some models of HDCVI cameras.

Easy Installation

HDCVI Quick-to-install eyeball adopts quick-to-install pedestal, which can achieve easier installation than conventional eyeball. Quick-to-install camera reduces time and labor costs.

Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 700 m for 4MP HD video via coaxial cable, and up to 300 m via UTP cable.*

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

Simplicity

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

Smart IR

The camera is designed with IR LED illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Dahua's unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

Multi-formats

The camera supports multiple video formats including HDCVI, CVBS and other two common HD analog formats in the market. The four formats can be switched over through OSD menu or by PFM820(UTC controller). This feature makes the camera to be compatible with most end users' existing HD/SD DVRs.

Multi-language OSD

OSD menu provides multiple image adjustments and function settings to meet the requirements of different monitoring scenes. The OSD menu includes configurations such as backlight mode, day/night, white balance, privacy mask and motion detect. The camera supports 11 languages for OSD menu, namely, Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

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.

Lite Series | DH-HAC-HDW1400TMQ(-A)

Technical Specification						BLC	BLC/HLC/DWDR
Camera					WDR	DWDR	
Image Senso	r	1/2.7 inch CMOS				White Balance	Auto; manual
Max. Resolut	ion	2560(H)×1440(V)				Gain Control	Auto; manual
Pixel		4MP				Noise Reduction	2D NR
Scanning Sys	tem	Progressive				Smart IR	Yes
Electronic Sh	utter Speed	PAL: 1/25s–1/100000s NTSC: 1/30s–1/100000s				Electronic Defog	Yes
S/N Ratio		>65dB				Mirror	Off/On
Min. Illumina	tion	0.02Lux/F2.0, 30IRE, 0Lux IR on				Privacy Masking	Off/On (8 area, rectangle)
Illumination I	Distance	60 m (196.9 ft)				Certifications	
Illuminator O	n/Off Control	Auto; manual					CE (EN55032:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN55024:2010+A1:2015, EN 55035:2017,
Illuminator Number		2				Certifications	EN50130-4:2011+A1:2014) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Pan/Tilt/Rota	ation Range	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				Port	
Lens						Audio Output	One channel built-in mic (-A)
Lens Type		Fixed-focal				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Mount Type		M12				Power	
Focal Length		2.8 mm; 3.6 mm; 6 mm				Power Supply	12V ±30% DC
Max. Aperture		F2.0				Power Consumption	Max 5.2W (12V DC, IR on)
		2.8 mm: 125° x 105° x 56° (diagonal x horizontal x vertical)				Environment	
Field of View		3.6 mm: 104° x 87° x 47° (diagonal x horizontal x vertical) 6 mm: 62° x 54° x 31° (diagonal x horizontal x vertical)				Operating Temperature	-40°C to +60°C (-40°F to 140°F); <95% (noncondensation)
						Storage Temperature	-40°C to +60°C (-40°F to 140°F); <95% (noncondensation)
Iris Type		Fixed iris 2.8 mm: 0.7m (2.3 ft)				Protection Grade	IP67
Close Focus Distance		3.6 mm: 1.1m (3.6 ft) 6 mm: 2.7m (8.9 ft)				Structure	
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Casing	Metal dome+metal cover+plastic decorative ring
	2.8 mm	49.8m (163.4 ft)	19.9m (65.3 ft)	10m (32.8 ft)	5m (16.4 ft)	Camera Dimensions	φ121.9 mm × 99.1 mm (φ4.8" × 3.9")
	26	(163.4 It) 64m	25.6m	12.8m	6.4m	Net Weight	0.4 Kg (0.88 lb)
	3.6 mm	(210.0 ft)	(84 ft)	(42 ft)	(21 ft)	Gross Weight	0.6 Kg (1.32 lb)
	6 mm	106.7m (350.1 ft)	42.7m (140.1 ft)	21.3m (69.9 ft)	10.7m (35.1 ft)		
Video							

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4M (2560 × 1440); 1080P (1920 × 1080); 960 H (960 × 576/960 × 480)

PAL: 4M@25fps; 1080P@25fps; NTSC: 4M@30fps; 1080P@30fps

AHD: PAL: 4M@25fps; NTSC: 4M@30fps

PAL: 4M@25fps; NTSC: 4M@30fps CVBS: PAL: 960H; NTSC: 960H

TVI:

Frame Rate

Resolution

Day/Night

Ordering Information							
Туре	Part Number	Description					
	DH-HAC- HDW1400TMQP 2.8mm						
	DH-HAC- HDW1400TMQN 2.8mm						
	DH-HAC- HDW1400TMQP 3.6mm						
	DH-HAC- HDW1400TMQN 3.6mm						
	DH-HAC- HDW1400TMQP 6mm						
	DH-HAC- HDW1400TMQN 6mm	4MP HDCVI IR Eyeball Camera					
4MP Camera	DH-HAC- HDW1400TMQP-A 2.8mm						
	DH-HAC- HDW1400TMQN-A 2.8mm						
	DH-HAC- HDW1400TMQP-A 3.6mm						
	DH-HAC- HDW1400TMQN-A 3.6mm						
	DH-HAC- HDW1400TMQP-A 6mm						
	DH-HAC- HDW1400TMQN-A 6mm						
	PFA137	Junction box					
	PFA130-E	P66 Junction box					
	PFB205W	Wall Mount Bracket (For use alone or with PFA152-E)					
	PFA152-E	Pole Mount Bracket (For use with PFB204W					
Accessories	PFM8000-4K	Passive HDCVI Balun					
	PFM321D	12V 1A Power Adapter					
	PFM820 (Only 1080P and below are available)	UTC Controller					
	PFM904	Integrated Mount Tester					

Accessories

Optional:









PFA137 Junction box

PFA130-E P66 Junction box

PFB205W Wall Mount Bracket (For use alone or with PFA152-E)









PFA152-E Pole Mount Bracket (For use with PFB204W)

PFM800-4K Passive HDCVI Balun

PFM321D 12V 1A Power Adapter



PFM820 UTC Controller



PFM904 Integrated Mount Tester

Junction Mount	Wa ll Mount	Pole Mount(Vertical)

Dimensions (mm[inch])

