

DH-HAC-HDW1400TRQ(-A)

4MP HDCVI Quick-to-install IR Eyeball Camera



- Max 30fps@4MP
- Quick-to-install eyeball saves installation time
- Built-in mic (-A)
- CVI/CVBS/AHD/TVI switchable
- 3.6mm fixed lens (2.8mm optional)
- Max. IR length 25m, Smart IR
- IP50, 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 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 that ensures 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.

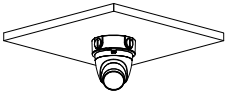
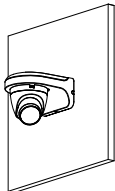
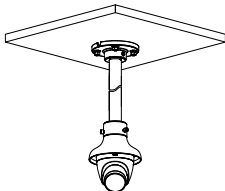
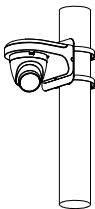
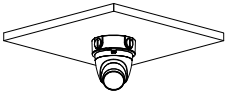
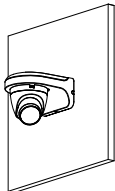
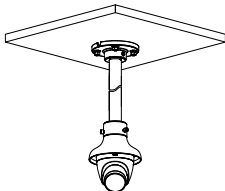
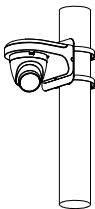
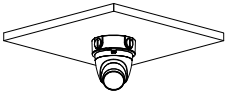
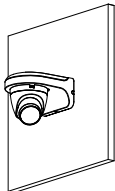
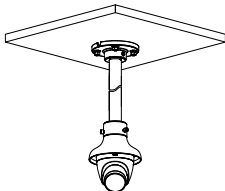
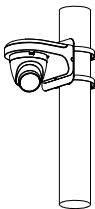
Multi-language OSD

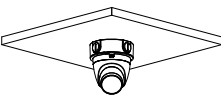
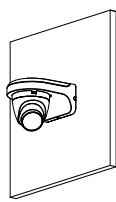
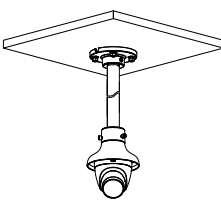
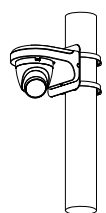
OSD menu provides multiple image adjustments and function settings to meet the requirements of different monitoring scenes. The OSD menu includes configurations such as backlight mode, day/night, white balance, privacy mask and motion detect. The camera supports 11 languages for OSD menu, namely, Chinese,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

Protection

With working temperature range of -40°C to +50°C (-40°F to 122°F), the camera is designed for extreme temperature environments. Supporting ±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.

Technical Specification						White Balance		Auto; manual	
Camera						Gain Control		Auto; manual	
Image Sensor		1/2.7 inch CMOS				Noise Reduction		2D NR	
Max. Resolution		2560(H)×1440(V)				Smart IR		Yes	
Pixel		4MP				Mirror		Off/On	
Scanning System		Progressive				Privacy Masking		Off/On (8 area, rectangle)	
Electronic Shutter Speed		PAL: 1/25s–1/100000s NTSC: 1/30s–1/100000s				Certifications			
S/N Ratio		>65dB				Certifications		CE (EN55032:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN55024:2010+A1:2015, EN 55035:2017, 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)	
Min. Illumination		0.02Lux/F2.0 30IRE, 0Lux IR on				Port			
Illumination Distance		25m (82.0 ft)				Video Output		Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
IR On/Off Control		Auto; manual				Audio Interface		Built-in Mic (-A)	
Illuminator Number		2 (IR)				Power			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				Power Supply		12V ±30% DC	
						Power Consumption		Max 2.8W (12V DC, IR on)	
Lens						Environment			
Lens Type		Fixed-focal				Operating Temperature		-40°C to +50°C (-40°F to 122°F);<95% (non-condensation)	
Mount Type		M12				Storage Temperature		-40°C to +50°C (-40°F to 122°F);< 95% (non-condensation)	
Focal Length		2.8 mm; 3.6 mm				Protection Grade		IP50	
Max. Aperture		2.8mm: F2.0 3.6mm: F2.0				Structure			
Field of View		2.8mm: H: 105°;V: 56°;D: 125° 3.6mm: H: 84°;V: 47°;D:104°				Casing		Plastic	
Iris Type		Fixed iris				Dimensions		Φ97.1 mm × 93.0 mm (Φ3.82" × 3.66")	
Close Focus Distance		2.8mm: 0.7m(2.30 ft) 3.6mm: 1.1m(3.60 ft)				Net Weight		0.17 Kg (0.37lb))	
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Gross Weight		0.23 Kg (0.51lb)	
	2.8 mm	49.8m (163.4 ft)	19.9m (65.3 ft)	10m (32.8 ft)	5m (16.4 ft)				
	3.6 mm	64m (210.0 ft)	25.6m (84 ft)	12.8m (42 ft)	6.4m (21 ft)				
Video									
Frame Rate		CVI: PAL: 4M@25fps; 1080P@25fps; NTSC: 4M@30fps; 1080P@30fps AHD: PAL: 4M@25fps; NTSC: 4M@30fps TVI: PAL: 4M@25fps; NTSC: 4M@30fps CVBS: PAL: 960H; NTSC: 960H							
Resolution		4M (2560 × 1440); 1080P (1920 × 1080); 960 H (960 × 576/960 × 480)							
Day/Night		Auto switch by ICR							
BLC		BLC/HLC/DWDR							
WDR		DWDR							

Ordering Information			Accessories														
Type	Part Number	Description	Optional:														
4MP Camera	DH-HAC-HDW1400TRQP 2.8 mm	4MP HDCVI IR Eyeball Camera, PAL															
	DH-HAC-HDW1400TRQP 3.6 mm																
	DH-HAC-HDW1400TRQN 2.8 mm	4MP HDCVI IR Eyeball Camera, NTSC															
	DH-HAC-HDW1400TRQN 3.6 mm ;																
	DH-HAC-HDW1400TRQP-A 2.8 mm	4MP HDCVI IR Eyeball Camera, PAL															
	DH-HAC-HDW1400TRQP-A 3.6 mm																
	DH-HAC-HDW1400TRQN-A 2.8mm	4MP HDCVI IR Eyeball Camera, NTSC															
	DH-HAC-HDW1400TRQN-A 3.6mm																
Accessories	PFA13G	Junction Box															
	PFB205W	Wall Mount Bracket															
	PFA152-E	Pole Mount Bracket (For use with PFB205W)															
	PFA130-E	Junction box															
	PFM800-4K	Passive HDCVI Balun															
	PFM321D	12V 1A Power Adapter															
	PFM820 (Only 1080P and below are available)	UTC Controller															
	PFM904	Integrated Mount Tester															
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Junction Mount	Wall Mount	Ceiling Mount															
																	
Pole Mount(Vertical)																	
																	

Junction Mount	Wall Mount	Ceiling Mount
		
Pole Mount(Vertical)		
		

Dimensions (mm[inch])

