

DH-HAC-HDW1400TQ(-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 40m, 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

lightning.

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

Lite Series | DH-HAC-HDW1400TQ(-A)

Technical Specification						BLC		BLC/HLC/DWDR	
Camera					WDR			DWDR	
Image Sensor		1/2.7 inch CMOS				White	Balance	Auto; manual	
Max. Resolution	on	2560(H)×1440(V)				Gain C	Control	Auto; manual	
Pixel		4MP				Noise	Reduction	2D NR	
Scanning Syste	em	Progressive				Smart	IR	Yes	
Electronic Shu	ıtter Speed	PAL: 1/25s-1/100000s NTSC: 1/30s-1/100000s				Electro	onic Defog	Yes	
S/N Ratio		>65dB				Mirror		Off/On	
Min. Illuminat	ion	0.02Lux/F2.0, 30IRE, 0Lux IR on				Privac	y Masking	Off/On (8 area, rectangle)	
Illumination D	istance	40 m (131.2 ft)				Certi	Certifications		
Illuminator Or	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		1				Certifi	cations	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	tion Range	Pan: 0°–360° Tilt: 0°–78°				Port			
Long		Rotation: 0°–360°				Audio	Output	One channel built-in mic (-A)	
Lens 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					Supply	12V ±30% DC	
Max. Aperture		F2.0 ;F2.0 ;F2.0					Consumption	Max 3.2W (12V DC, IR on)	
Max. Apereure		2.8 mm: 125° x 105° x 56°					Environment		
Field of View		(diagonal x horizontal x vertical) 3.6 mm: 104° x 87° x 47° (diagonal x horizontal x vertical) 6 mm: 62° x 54° x 31°					Operating Temperature -40°C to +60°C (-40°F to 140°F); <95% (non-		
						Opera	ting lemperature	condensation)	
Iris Type		(diagonal x horizontal x vertical) Fixed iris				Storag	ge Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non- condensation)	
Close Focus Distance		2.8 mm: 0.7m (2.3 ft) 3.6 mm: 1.1m (3.6 ft) 6 mm: 2.7m (8.9 ft)				Protec	ction Grade	IP67	
						Struc	Structure		
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Casing	5	Metal inner core+plastic cover+plastic pedestal	
	2.8 mm	49.8m	19.9m	10m	5m	Camer	ra Dimensions	φ109.9 mm × 100.9 mm (φ4.33" × 3.97")	
	2.6 ***	(163.4 ft) 64m	(65.3 ft) 25.6m	(32.8 ft) 12.8m	(16.4 ft) 6.4m	Net W	'eight	0.32 Kg (0.71 lb)	
	3.6 mm	(210.0 ft)	(84 ft)	(42 ft)	(21 ft)	Gross	Weight	0.49 Kg (1.08 lb)	
	6 mm	106.7m (350.1 ft)	42.7m (140.1 ft)	21.3m (69.9 ft)	10.7m (35.1 ft)				
Video									

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

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

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

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

Auto switch by ICR

TVI:

Frame Rate

Resolution

Day/Night

Ordering Information Description Part Number Type DH-HAC-HDW1400TQP 2.8mm DH-HAC-HDW1400TQN 2.8mm DH-HAC-HDW1400TQP 3.6mm DH-HAC-HDW1400TQN 3.6mm DH-HAC-HDW1400TQP 6mm DH-HAC-HDW1400TQN 6mm DH-HAC-HDW1400TQP-A 2.8mm 4MP HDCVI IR Eyeball Camera 4MP Camera DH-HAC-HDW1400TQN-A 2.8mm DH-HAC-HDW1400TQP-A 3.6mm DH-HAC-HDW1400TQN-A 3.6mm DH-HAC-HDW1400TQP-A 6mm DH-HAC-HDW1400TQN-A 6mm PFA13G Junction box PFA130-E IP66 Junction box Wall Mount Bracket (For use alone or with PFB205W PFA152-E) Pole Mount Bracket (For use with PFB204W) PFA152-E Accessories PFM8000-4K Passive HDCVI Balun PFM321D 12V 1A Power Adapter PFM820 UTC Controller (Only 1080P and below are available) PFM904 Integrated Mount Tester

Accessories

Optional:







PFA130-E P66 Junction box



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



Pole Mount Bracket (For use with PFB204W)



PFM800-4K Passive HDCVI Balun



12V 1A Power Adapter



UTC Controller



Integrated Mount Tester

Junction Mount	Wa ll Mount	Pole Mount(Vertical)

Dimensions (mm[inch])

