

DH-HAC-HDW1400T-Z(-A)

4MP HDCVI IR Eyeball Camera



- $\boldsymbol{*}$ The parameters and datasheets below can only be applied to 1400-S3 series.
- · Max 30fps@4MP
- · HD and SD output switchable
- · 2.7-12mm motorized lens
- · 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.

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-30 °C to +60 °C (-22 °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-HDW1400T-Z(-A)

Technical Specification					Gain Control	Auto; manual	
Camera					Noise Reduction	2D NR	
Image Sensor		1/2.7 inch CMOS				Smart IR	Yes
Effective Pixels		2560(H)×1440(V), 4MP				Electronic Defog	Yes
Scanning System		Progressive				Mirror	Off/On
Electronic Shutter Speed		PAL: 1/25s–1/100000s NTSC: 1/30s–1/100000s				Privacy Masking	Off/On (8 area, rectangle)
S/N Ratio		>65dB				Certifications	
Minimum Illumination		0.02Lux/F1.7, 30IRE, 0Lux IR on				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 C63.4-201 UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Fill Light Working Distance		60 m (196.9 ft)					
IR On/Off Control		Auto; manual				Port	
IR LED Number		2				Audio Output	One channel built-in mic (-A)
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				Video Output	Video output choices of CVI/TVI/AHD/CVBS by on BNC port
Lens			Power				
Lens Type		Motorized v	ari-focal			Power Supply	12V ±30% DC
Auto Focus		N/A				Power Consumption	Max 6.6W (12V DC, IR on)
Mount Type		ф14				Environment	
Focal Length		2.7 mm-12 mm				Operating Temperature	-30°C to +60°C (-22°F to 140°F);<95% (noncondensation)
Max. Aperture Field of View		F1.7 Diagonal: 38°– 127° Horizontal: 33°–106° Vertical: 19°– 56°				Storage Temperature	-30°C to +60°C (-22°F to 140°F);<95% (noncondensation)
						Protection Grade	IP67
Iris Type		Fixed iris				Structure	
Close Focus Distance		0.8m (2.6 ft)				Casing	Mental throughout the whole casing
DORI Distance		Detect	Observe	Recognize	Identify	Camera Dimensions	Ф122mm×104.8mm (Ф4.80"×4.13")
	2.7mm	58.7m	23.5m	11.7m	5.9m	Net Weight	0.57 Kg (1.26 lb)
	12mm	(192.6 ft) 177.8m (583.3 ft)	(77.1 ft) 71.1m (233.27 ft)	(38.4 ft) 35.6m (116.8 ft)	(19.4 ft) 17.8m (58.4 ft)	Gross Weight	0.72 Kg (1.59 lb)

Video

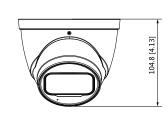
Frame Rate	CVI: PAL: 4M@25fps; 1080P@25fps; NTSC: 4M@30fps; 1080P@30fps AHD: PAL: 4M@25fps; NTSC: 4M@30fps TVI: PAL: 4M@25fps; NTSC: 4M@30fps CVBS: PAL: 960H; NTSC: 960H		
Resolution	4M (2560 × 1440); 1080P (1920 × 1080); 960 H (960 × 576/960 × 480)		
Day/Night	Auto switch by ICR		
BLC	BLC/HLC/DWDR		
WDR	DWDR		
White Balance	Auto; manual		

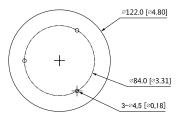
Lite Series | DH-HAC-HDW1400T-Z(-A)

Ordering Information							
Туре	Part Number	Description					
	DH-HAC- HDW1400TP-Z 2.7- 12mm						
4MP Camera	DH-HAC- HDW1400TN-Z 2.7- 12mm	4MP HDCVI IR Eyeball Camera					
	DH-HAC-HDW1400TP- Z-A 2.7-12mm						
	DH-HAC-HDW1400TN- Z-A 2.7-12mm						
	PFA137	Junction Box					
	PFA130-E	IP66 Junction box					
	PFB203W	Wall Mount Bracket (For use alone or with PFA152-E)					
	PFA152-E	Pole Mount Bracket (For use with PFB203W)					
	PFA106	Mount Adapter (For use with PFB220C)					
Accessories	PFB220C	Ceiling Mount Bracket (For use with PFA106)					
	PFM800-4K	Passive HDCVI Balun					
	PFM321D	12V 1A Power Adapter					
	PFM820 (Only 1080P and below are available)	UTC Controller					
	PFM904	Integrated Mount Tester					

Ceiling Mount	Wall Mount	Pole Mount	Hanging Mount
PFA130-E	PFB203W	PFB203W+PFA152-E	PFA106+PFB220C
	6		6

Dimensions (mm[inch])





Accessories

Optional:



PFA137 Junction box



PFA130-E IP66 Junction box



PFB203W Wall Mount Bracket (For use alone or with



Pole Mount Bracket (For use with PFB203W)



Mount Adapter (For use with PFB220C)





PFM800-4K Passive HDCVI Balun



12V 1A Power Adapter



PFB220C

Ceiling Mount Bracket

PFM820 UTC Controller



PFM904 Integrated Mount Tester