

# DH-HAC-HDW1200T-Z(-A)

2MP HDCVI IR Eyeball Camera



- Max 30fps@1080P
- HD and SD output switchable
- 2.7-12 mm motorized lens
- Built-in mic(-A)
- Max. IR length 60m, Smart IR
- IP67, DC12V



## System Overview

Experience 1080P full HD video and the simplicity of using existing cabling infrastructure with HDCVI. The Lite series 1080P 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 800m(1080p)/1200m(720P) transmission via coaxial cable, and up to 300m(1080P)/450m(720P) via UTP cable.\*

\*This function is available for select models.

### 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-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

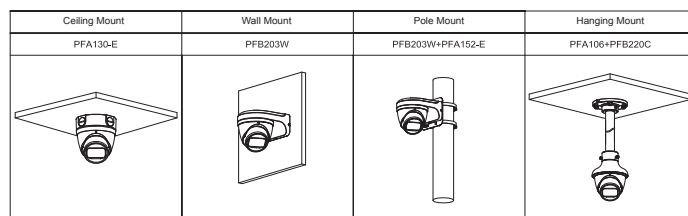
The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments. With working temperature range of -30 °C to +60 °C (-22 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting ±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						
Camera						
Image Sensor		1/2.7 inch CMOS				
Effective Pixels		1920(H)×1080(V), 2MP				
Scanning System		Progressive				
Electronic Shutter Speed		PAL: 1/25s–1/100000s NTSC: 1/30s–1/100000s				
S/N Ratio		>65dB				
Minimum Illumination		0.02Lux/F1.7, 30IRE, 0Lux IR on				
Fill Light Working Distance		60 m (196.9 ft)				
IR On/Off Control		Auto; manual				
IR LED Number		2				
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				
Lens						
Lens Type		Motorized vari-focal				
Auto Focus		N/A				
Mount Type		φ14				
Focal Length		2.7 mm-12 mm				
Max. Aperture		F1.7				
Field of View		Diagonal: 38°– 125° Horizontal: 33°–102° Vertical: 19°– 53°				
Iris Type		Fixed iris				
Close Focus Distance		1.2 m (3.9 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	2.7 mm	49.7 m (163.1 ft)	19.9 m (65.3 ft)	9.9 m (32.5 ft)	5 m (16.4 ft)	
	12 mm	82.8 m (271.7 ft)	33.1 m (108.6 ft)	16.6 m (54.5 ft)	8.3 m (27.2 ft)	
Video						
Frame Rate		CVI: 1080P@25/30fps; 720P@25/30fps; 720P@50/60fps; AHD: 1080P@25/30fps; 720P@25/30fps; TVI: 1080P@25/30fps; 720P@25/30fps; 720P@50/60fps; CVBS: 960H				
Resolution		1080P (1920×1080); 720P (1280×720); 960H (960×576/960×480)				
Day/Night		Auto switch by ICR				
BLC		BLC/HLC/DWDR				
WDR		DWDR				
White Balance		Auto; manual				
Gain Control		Auto; manual				
Noise Reduction		2D NR				
Smart IR		Yes				

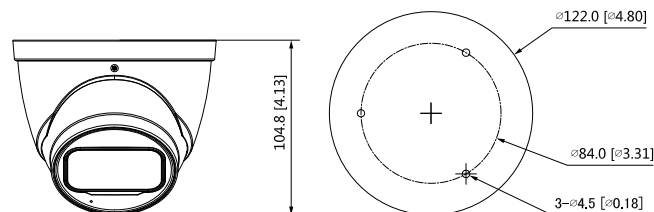
Electronic Defog	Yes
Mirror	Off/On
Privacy Masking	Off/On (8 area, rectangle)
Certifications	
Certifications	CE (EN55032:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN55024:2010+A1:2015, EN 55035:2017, EN50130-4:2011+A1:2014) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Port	
Audio Output	One channel built-in mic (-A)
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Power	
Power Supply	12V ±30% DC
Power Consumption	Max 8.2W (12V DC, IR on)
Environment	
Operating Temperature	-30°C to +60°C (-22°F to 140°F);<95% (non-condensation)
Storage Temperature	-30°C to +60°C (-22°F to 140°F);<95% (non-condensation)
Protection Grade	IP67
Structure	
Casing	Metal throughout the whole casing
Camera Dimensions	Φ122mm×104.8mm ( Φ4.80"×4.13" )
Net Weight	0.57 Kg (1.26 lb)
Gross Weight	0.72 Kg (1.59 lb)

## Ordering Information

Type	Part Number	Description
2MP Camera	DH-HAC-HDW1200TP-Z 2.7-12mm	2MP HDCVI IR Eyeball Camera
	DH-HAC-HDW1200TN-Z 2.7-12mm	
	DH-HAC-HDW1200TP-Z-A 2.7-12mm	
	DH-HAC-HDW1200TN-Z-A 2.7-12mm	
Accessories	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)
	PFB220C	Ceiling Mount Bracket (For use with PFA106)
	PFM800-E	Passive HDCVI Balun
	PFM321D	12V 1A Power Adapter
	PFM904	Integrated Mount Tester



## Dimensions (mm[inch])



## Accessories

Optional:



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)



PFB220C  
Ceiling Mount Bracket



PFM800-E  
Passive HDCVI Balun



PFM321D  
12V 1A Power Adapter



PFM904  
Integrated Mount Tester