

# DH-HAC-HDW1400R

4MP HDCVI IR Eyeball Camera



- \* The parameters and datasheets below can only be applied to 1400-S3 series.
- · Max 30fps@4MP
- · HD and SD output switchable
- · 3.6mm fixed lens (2.8mm optional)
- · Max. IR length 20m, Smart IR
- · 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

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-HDW1400R

Technical Specification						White Balance	Auto; manual
Camera						Gain Control	Auto; manual
Image Sensor		1/2.7 inch CMOS				Noise Reduction	2D NR
Effective Pixels		2560(H)×1440(V), 4MP				Smart IR	Yes
Scanning System		Progressive				Electronic Defog	Yes
Electronic Shutter Speed		PAL: 1/25s-2 NTSC: 1/30s				Mirror	Off/On
S/N Ratio		>65dB				Privacy Masking	Off/On (8 area, rectangle)
Minimum Illumination		0.02Lux/F2.0, 30IRE, 0Lux IR on				Certifications	
Fill Light Wor	Fill Light Working Distance		t)			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)
IR On/Off Control		Auto; manua	il				
IR LED Number		12				Port	
Pan/Tilt/Rota	Pan/Tilt/Rotation Range		-360°			Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Lens	Lens					Power	
Lens Type	Lens Type					Power Supply	12V ±30% DC
Mount Type		M12				Power Consumption	Max 3.3W (12V DC, IR on)
Focal Length		2.8 mm; 3.6 mm				Environment	
Max. Apertur	Max. Aperture					Operating Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non- condensation)
Field of View	Field of View		° x 105° x 56° orizontal x ver	rtical)		Storage Temperature	-40°C to +60°C (-40°F to 140°F); <95% (noncondensation)
11010 01 1101			° x 87° x 47° orizontal x ver	rtical)		Protection Grade	IP50
Iris Type	Iric Type					Structure	
піз туре		Fixed iris				Casing	Plastic throughout the whole casing
Close Focus Distance		2.8 mm: 0.7m (2.3 ft) 3.6 mm: 1.1m (3.6 ft)				Camera Dimensions	φ85.4 mm × 70.2 mm ( φ3.36" × 2.76" )
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Net Weight	0.13 Kg (0.29 lb)
	2.8 mm	49.8m (163.4 ft)	19.9m (65.3 ft)	10m (32.8 ft)	5m (16.4 ft)	Gross Weight	0.19 Kg (0.42 lb)
	3.6 mm	64m (210.0 ft)	25.6m (84 ft)	12.8m (42 ft)	6.4m (21 ft)		
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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						
Туре	Part Number	Description				
	DH-HAC-HDW1400RP 2.8mm					
ANAD Camara	DH-HAC-HDW1400RN 2.8mm	AMB HDCV/ IP Evoball Campra				
4MP Camera	DH-HAC-HDW1400RP 3.6mm	4MP HDCVI IR Eyeball Camera				
	DH-HAC-HDW1400RN 3.6mm					
	PFA13G	Junction Box				
	PFB205W	Wall Mount Bracket				
	PFA152-E	Pole Mount Bracket (For use with PFB205W)				
	PFA106	Mount Adapter (For use with PFB220C)				
Accessories	PFB220C	Ceiling Mount Bracket (For use with PFA106)				
Accessories	PFM800-4K	Passive HDCVI Balun				
	PFM321D	12V 1A Power Adapter				
	PFM820 (Only 1080P and below are available)	UTC Controller				
	PFM904	Integrated Mount Tester				

## Accessories

### **Optional:**







PFB205W Wall Mount Bracket



PFA152-E Pole Mount Bracket (For use with PFB205W)



PFA106 Mount Adapter (For use with PFB220C)



PFB220C Ceiling Mount Bracket (For use with PFA106)



PFM800-4K Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



PFM820 UTC Controller



PFM904 Integrated Mount Tester

Ceiling Mount	Wall Mount	Pole Mount	Hanging Mount
PFA13G	PFB205W	PFB205W+PFA152-E	PFA106+PFB220C

# Dimensions (mm[inch])



