

# DH-HAC-HDBW1400E 4MP HDCVI IR Dome Camera



# \* The parameters and datasheets below can only be applied to 1400-S2 series.

- · Max 30fps@4MP
- · HD and SD output switchable
- · 3.6mm fixed lens (2.8mm optional)
- · Max. IR length 30m, Smart IR
- · IP67, IK10, DC12V



### System Overview

Experience superior 4MP video and the simplicity of reusing existing coaxial infrastructure with HDCVI. The Lite series 4MP HDCVI camera features a compact design and offers a high quality image with rich details at a friendly price. It offers various vari-focal/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 HCVR, 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 long-distance and real-time transmission without any loss. It supports up to 700m for 4MP HD video via coaxial cable, and up to 300m 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 microcrystalline LED IR 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 not only XVRs but also 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.

The camera complies with an IK10 vandal resistance rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in).

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-HDBW1400E

# **Technical Specification**

# Camera

Image Sensor	1/2.7" CMOS			
Effective Pixels	2560(H)×1440(V), 4MP			
Scanning System	Progressive			
Electronic Shutter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s			
Minimum Illumination	0.03Lux/F2.0, 30IRE, 0Lux IR on			
S/N Ratio	More than 65dB			
IR Distance	Up to 30m (98feet)			
IR On/Off Control	Auto / Manual			
IR LEDs	12			
Lens				
Lens Type	Fixed lens / Fixed iris			
Mount Type	Board-in			
Focal Length	3.6mm (2.8mm Optional)			
Max Aperture	F2.0			
Angle of View	H: 76.4° (97.0°) V: 41.6° (52°)			
Focus Control	N/A			
Close Focus Distance	1400mm (800mm) 55.1'' (31.5'')			

## DORI Distance

Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.

	DORI Definition	Distance
Detect	25px/m (8px/ft)	2.8mm: 56m(184ft) 3.6mm: 80m(262ft)
Observe	63px/m (19px/ft)	2.8mm: 22m(73ft) 3.6mm: 32m(105ft)
Recognize	125px/m (38px/ft)	2.8mm: 11m(37ft) 3.6mm: 16m(52ft)
Identify	250ppm (76px/ft)	2.8mm: 6m(18ft) 3.6mm: 8m(26ft)

# Pan / Tilt / Rotation

Pan/Tilt/Rotation	Pan: 0° ~ 355° Tilt: 0° ~ 65° Rotation: 0° ~ 355°
Video	
Resolution	4MP (2560×1440)
Frame Rate	25/30fps@4MP, 25/30fps@1080P
Video Output	1-channel BNC high definition video output / CVBS video output (Can switch)
Day/Night	Auto (ICR) / Manual

OSD Menu	Multi-language		
BLC Mode	BLC / HLC / DWDR		
WDR	DWDR		
Gain Control	AGC		
Noise Reduction	2D		
White Balance	Auto / Manual		
Smart IR	Auto / Manual		
Certifications			
Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)		
Interface			
Audio Interface	N/A		
Eelectrical			
Power Supply	12V DC ±30%		
Power Consumption	Max 3.7W (12V DC, IR on)		
Environmental			
Operating Conditions	-40°C $\sim$ +60°C (-40°F $\sim$ +140°F) / Less than 95% RH * Start up should be done at above-40°C (-40°F)		
Storage Conditions	-40°C $^{\circ}$ +60°C (-40°F $^{\circ}$ +140°F) / Less than 95% RH		
Ingress Protection & Vandal Resistance	IP67, IK10		
Construction			
Casing	Aluminium		
Dimensions	Φ109.9mm×81.0mm (Φ4.33"×3.19")		
Net Weight	0.31kg (0.68lb)		
Gross Weight	0.45kg (0.99lb)		

# Lite Series | DH-HAC-HDBW1400E

Ordering Ir	nformation			Junction Mount	Pole Mount
Туре	Part Number	Description		PFA136	PFB203W + PFA152-E
	DH-HAC-HDBW1400EP 2.8mm				
	DH-HAC-HDBW1400EP 3.6mm	4MP HDCVI IR Dome Camera, PAL		67	
4MP Camera	DH-HAC-HDBW1400EN 2.8mm			Wall Mount	
	DH-HAC-HDBW1400EN 3.6mm	4MP HDCVI IR Dome Camera, NTSC		PFB203W	
Accessories	PFA136	Junction box (For use alone)			
	PFB203W	Wall mount (For use alone or with PFA152 pole mount)	vith		
	PFA152-E	Pole mount (For use with PFB203W wall mount)			Pole Mount with Rain Shade PFB203W + PFA152-E+PFA200W
	PFA200W	Rain Shade (For use with PFB203W wall mount or with PFB203W wall mount and PFA152-E pole mount)		Wall Mount with Rain Shade PFB203W+PFA200W	
	PFM820	UTC Controller			
	PFM800-4K	Passive Video Balun			
	PFM800B-4K	Passive Video Balun			
	PFM321	12V 1A Power Adapter			
	PFM320D-015	12V 1.5A Power Adapter		Dimensions (mm/inch)	
	PFM300	12V 2A Power Adapter		109.9 [4.33"]	Ø109.9 [Ø4.33"]

# Accessories

# Optional:



PFA136 Junction box



PFA200W Rain shade



PFM800B-4K Passive Video Balun

PFM300 12V2A Power Adapter



PFM820 UTC Controller



PFM321 12V 1A Power Adapter



PFA152-E

Pole mount

81.0 [3.19"]

0

PFM800-4K Passive Video Balun



PFM320D-015 Power Adapter





