

# DH-HAC-HDBW1220R-VF

2MP HDCVI IR Dome Camera

# **HDCVI**



- · Max 30fps@1080P
- · HD and SD output switchable
- · 2.7-13.5mm vari-focal lens
- · Max. IR length 30m, Smart IR
- · IP67, IK10, DC12V















#### **System Overview**

Experience full HD 1080P/ HD 720P video with the simplicity of using existing cabling infrastructure. The Lite series features compact design and high quality image at friendly price. It offers various vari-focal/fixed lens models with multi-language OSD and HD/SD switchable output. The structure flexibility and best cost-performance makes lite series 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 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.\*

\*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 array 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 HCVRs 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 and privacy mask. 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 IK10 impact resistant rating to provide maximum durability against vandals, making it capable of withstanding the equivalent of 55kg (120lbs) of force.

With working temperature range of -40  $^{\circ}$ C to +60  $^{\circ}$ C (-40  $^{\circ}$ F to +140  $^{\circ}$ F), the camera is designed for extreme temperature environments.

Supporting  $\pm 25\%$  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-HDBW1220R-VF

Effective Pixels  Effective Pixels  Scanning System  Pr  Electronic Shutter Speed  Minimum Illumination  O.  S/N Ratio  IR Distance  UI  IR Con/Off Control  IR LEDs  Lens  Lens Type  Mount Type  Bo  Focal Length  2	/2.9" CMOS  920(H)×1080(V), 2MP  rogressive  AL: 1/25~1/100000s  TSC: 1/30~1/100000s  02Lux/F1.3, 30IRE, 0Lux IR on  lore than 65dB  p to 30m (98feet)  uto / Manual
Scanning System Proceed Scanning System Electronic Shutter Speed No. Minimum Illumination O. S/N Ratio M. IR Distance U. IR On/Off Control Active State Stat	AL: 1/25~1/100000s TSC: 1/30~1/100000s 02Lux/F1.3, 30IRE, 0Lux IR on lore than 65dB p to 30m (98feet)
Electronic Shutter Speed  Minimum Illumination  O. S/N Ratio  IR Distance  UI IR On/Off Control  IR LEDs  Lens  Lens Type  Mount Type  Focal Length  PA N  A  A  A  A  A  A  A  A  A  A  A  A	AL: 1/25~1/100000s TSC: 1/30~1/100000s 02Lux/F1.3, 30IRE, 0Lux IR on lore than 65dB p to 30m (98feet)
Minimum Illumination  S/N Ratio  IR Distance  IR On/Off Control  IR LEDs  Lens  Lens Type  Mount Type  Focal Length  N  N  N  N  N  N  N  N  N  N  N  N  N	TSC: 1/30~1/100000s  02Lux/F1.3, 30IRE, 0Lux IR on  lore than 65dB  p to 30m (98feet)
S/N Ratio M IR Distance U IR On/Off Control A IR LEDs 2 Lens Lens Type V Mount Type Bo Focal Length 2.	lore than 65dB p to 30m (98feet)
IR Distance UI IR On/Off Control Au IR LEDs 2 Lens Lens Type Va Mount Type Bo Focal Length 2.	p to 30m (98feet)
IR On/Off Control  IR LEDs  Lens  Lens Type  Mount Type  Bo  Focal Length  2	
IR LEDs 2  Lens  Lens Type Va  Mount Type Ba  Focal Length 2.	uto / Manual
Lens Type Va  Mount Type Bo  Focal Length 2.	
Lens Type Va Mount Type Bo Focal Length 2.	
Mount Type Bo Focal Length 2.	
Focal Length 2.	ari-focal lens / Fixed iris
-	oard-in
Max Aperture F1	7-13.5mm
	1.3
Angle of View	: 104°~28°
Focus Control M	lanual
Close Focus Distance 20	

#### **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	
		Wide	Tele
Detect	25px/m (8px/ft)	46m(150ft)	159m(520ft)
Observe	63px/m (19px/ft)	18m(60ft)	63m(208ft)
Recognize	125px/m (38px/ft)	9m(30ft)	32m(104ft)
Identify	250ppm (76px/ft)	5m(15ft)	16m(52ft)

# Pan / Tilt / Rotation

	Pan: 0° ~ 355°
Pan/Tilt/Rotation	Tilt: 0° ~ 75°
	Rotation: 0° ~ 355°

# Video

Resolution	1080P (1920×1080)
Frame Rate	25/30fps@1080P, 25/30/50/60fps@720P
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

	CE (EN55032, EN55024, EN50130-4)
Certifications	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
/ tadio interrace	

#### Eelectrical

Power Supply	12V DC ±25%
Power Consumption	Max 3.4W (12V DC, IR on)

# Environmental

Operating Conditions	-40°C $^{\sim}$ +60°C (-40°F $^{\sim}$ +140°F) / Less than 90% RH * Start up should be done at above -40°C (-40°F)
Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH
Ingress Protection & Vandal Resistance	IP67 & IK10

### Construction

Casing	Aluminium
Dimensions	Ф122mm×88.9mm (Ф4.8"×3.5")
Net Weight	0.40kg (0.88lb)
Gross Weight	0.55kg (1.21lb)

# Lite Series | DH-HAC-HDBW1220R-VF

Ordering Information		
Туре	Part Number	Description
2MP Camera	DH-HAC-HDBW1220RP-VF	2MP HDCVI IR Dome Camera, PAL
ZIVIP Calliera	DH-HAC-HDBW1220RN-VF	2MP HDCVI IR Dome Camera, NTSC
	PFA137	Junction box (For use alone)
	PFB203W	Wall mount (For use alone or with PFA152-E pole mount)
	PFA152-E	Pole mount (For use with PFB203W wall mount)
	PFB200C	In-ceiling mount (For use alone)
Accessories	PFA200W	Rain Shade (For use with PFB203W wall mount or with PFB203W wall mount and PFA152-E pole mount)
	PFM820	UTC Controller
	PFM800-E	1 Channel Passive HDCVI Balun
	PFM809-4CH	4 Channel Passive HDCVI Balun
	PFM321	12V 1A Power Adapter
	PFM320	12V 2A Power Adapter

#### Accessories

Optional:



PFA137 Junction box



PFA200W Rain Shade



PFM809-4CH 4 Channel Passive HDCVI Balun



PFB203W Wall mount



PFM820 UTC Controller



PFM321 12V 1A Power Adapter



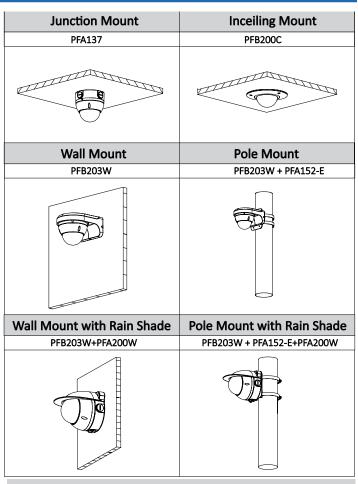
PFA152-E Pole mount



PFM800-E Passive HDCVI Balun



PFM320 12V 2A Power Adapter



# Dimensions (mm/inch)

