

DH-HAC-HDBW3802E-ZH

8MP HDCVI WDR IR-Dome Camera

HDCVI



- · 1/2" 8MP progressive scan CMOS
- · 3x optical motorized zoom lens
- · Max. 15fps@3840×2160
- · 120dB true WDR, 3DNR
- · Intelligent functions
- · Max. 50m IR distance, smart IR
- · IP67 & IK10 ingress protection
- · Dual voltage input(DC12V/AC24V±25%)
- · DC12V voltage output
- · Up to 500m transmission with RG59 coaxial cable















System Overview

The 4K HDCVI camera adopts a high performance ISP and advanced 1/2" 8MP image sensor, ultra-long IR range, and motorized zoom lens, enabling a wider range of coverage and superior image details with 4K resolution. That makes it easy to collect evidence for effective playback and analysis. Its wide field of view and 4K resolution makes the camera an ideal choice for large-size businesses and places such as airports, stadiums, parking lots, and shopping malls.

Functions

4K Technology

4K technology as a revolutionary breakthrough in image, which enhance the expressive image of essence, allowing users to experience the best picture with more details and wider coverage brought about by the visual feast. For the purposes of 4K surveillance with four times the 1080P resolution, presented to the user with more details. Under the same scenario by raising the amount of pixels with the larger sensor it will reduce the total quantity of cameras and finally lower the whole project cost.

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 700m transmission for 4K and 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.

Multi-outputs

The camera supports HDCVI and CVBS signal outputs simultaneously with two BNC connectors. Multi-outputs facilitates construction in such situations as debugging through a tester. It also offers the possibility for cooperating with multiple devices including analog matrix or monitor.

Smart IF

The camera is designed with array LED IR illumination for best lowlight performance at maximum distance. 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 comes closer to the camera.

Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. Ture WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide amazing usable video.

Advanced 3DNR

3DNR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Dahua's advanced 3DNR technology allows remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. Besides, the advanced 3DNR effectively decreases the band width and saves the storage space.

Protection & Power Output

The camera's outstanding reliability is unsurpassed due to its rugged design. IP67&IK10 ingress protection maks it suitable for most environment such as bank,manufacturing and commercial facilities.

Supporting dual voltage input (DC $12V\pm25\%$ /AC $24V\pm25\%$) and DC12V max 4W voltage output . 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.

Ultra Series | DH-HAC-HDBW3802E-ZH

Camera					
Image Sensor	1/1.8" CMOS				
Effective Pixels	3840(H)×2160(V), 8MP				
Scanning System	Progressive				
Electronic Shutter Speed	1/1s~1/100,00s				
Minimum Illumination	0.005Lux/F1.5(Color), 30IRE,0Lux/F1.5(B/W)				
S/N Ratio	More than 65dB				
IR Distance	Up to 50m (164feet)				
IR On/Off Control	Auto / Manual				
IR LEDs	3				
Lens					
Lens Type	Motorized lens / Auto iris				
Mount Type	Board-in				
Focal Length	3.7-11mm				
Max Aperture	F1.5	F1.5			
Angle of View	H: 112°~46°				
Focus Control	Auto / Manual	Auto / Manual			
Close Focus Distance	200mm(7.87")	200mm(7.87")			
DORI Distance					
Note: The DORI distance is a "ge pinpoint the right camera for yo sensor specification and lab test criteria for Detect, Observe, Rec	ur needs. The DORI dista result according to EN	ance is calcul 62676-4 whi	ated based on		
	DORI	Distance			
	Definition	Wide	Tele		
Detect	25px/m (8px/ft)	83m(273ft)	190m(624ft)		

Pan: 0° ~ 355° Tilt: 0° ~ 85°

Rotation: 0° ~ 355°

8MP (3840×2160)

video output

PAL:3840×2160@12.5fps,2560x1440@25fps;

NTSC:3840×2160@15fps,2560x1440@30fps;

1-channel HDCVI 4K video output & 1-channel CVBS

Pan / Tilt / Rotation

Pan/Tilt/Rotation

Video Resolution

Frame Rate

Video Output

Max Aperture	F1.5				Power Supply	12V DC ±25%/24V AC ±25%	
Angle of View	H: 112°~46°				Power Output	DC 12V/Max 4W	
Focus Control	Auto / Manual				Power Consumption	Max 12.4W	
Close Focus Distance	200mm(7.87")				Environmental	Mux 12.11V	
DORI Distance				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)		
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.					Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% RH	
					Ingress Protection & Vandal Resistance	IP67 & IK10	
DORI Definit	DORI	Distance			Construction		
	Definition	Wide	Tele		Casing	Aluminium	
Detect	25px/m (8px/ft)	83m(273ft)	190m(624ft)		Dimensions	Ф159.1mm×117.9mm (Ф6.26"×4.64")	
Observe	63px/m (19px/ft)	33m(109ft)	76m(250ft)		Net Weight	0.90kg (1.98lb)	
	125 / /20 /5)	47 (545)	20 (425%)		Gross Weight	1.20kg (2.65lb)	
Recognize	125px/m (38px/ft)	17m(54ft)	38m(125ft)				
Identify	250ppm (76px/ft)	8m(27ft)	19m(62ft)				

Day/Night

OSD Menu

BLC Mode WDR

Gain Control

Noise Reduction

White Balance
Smart IR

Certifications

Certifications

Interface

Alarm I/O

Eelectrical

Audio Interface

Auto (ICR) / Manual

Multi-language
BLC / HLC / WDR

120dB

AGC

2D/3D

Auto / Manual

1-channel audio in

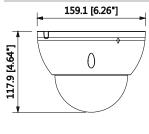
CE (EN55032, EN55024, EN50130-4)

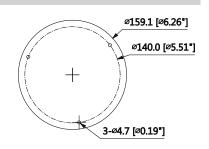
FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)

Ultra Series | DH-HAC-HDBW3802E-ZH

Ordering Information							
Туре	Part Number	Description					
8MP Camera	DH-HAC-HDBW3802EP-ZH-3711	8Megapixel 4K WDR IR-Bullet Camera with heater,PAL					
SIVIP Camera	DH-HAC-HDBW3802EN-ZH-3711	8Megapixel 4K WDR IR-Bullet Camera with heater, NTSC					
	PFA138	Junction box (For use alone)					
Accessories	PFB210W	Wall mount (For use alone or with PFA152-E pole mount)					
	PFA152-E	Pole mount (For use with PFB210W wall mount)					
	PFA101	Mount adapter (For use with PFB300C ceiling mount)					
	PFB300C	Ceiling mount (For use with PFA101 mount adapter)					
	PFB201C	In-ceiling mount					
	PFM800-E	1 Channel Passive HDCVI Balun					
	PFM320	12V 2A Power Adapter					
	PFM320D-015	12V 1.5A Power Adapter					

In-ceiling Mount Junction Mount Pole Mount PFB201C PFA138 PFB210W+PFA152-E Ceiling Mount Wall Mount PFB210W (Indoor) PFB210W (Outdoor) Dimensions (mm/inch)





Dimensions (mm/inch)

Optional:



PFA138 Junction box



PFB210W Wall mount



PFA152-E Pole mount



PFA101 Mount adapter



PFB300C Ceiling mount



PFB201C In-ceiling mount



PFM800-E Passive HDCVI Balun



PFM320 12V 2A Power Adapter



PFM320D-015 Power Adapter

