DH-IPC-HDBW4800E

4K Ultra HD Network IR Mini Dome Camera

Features

- 1/2.3" 4K progressive scan CMOS
- H.264&MJPEG dual-stream encoding
- 15fps@4K(3840×2160)
- DWDR, Day/Night(ICR), 3DNR,AWB,AGC,BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- 4mm fixed lens
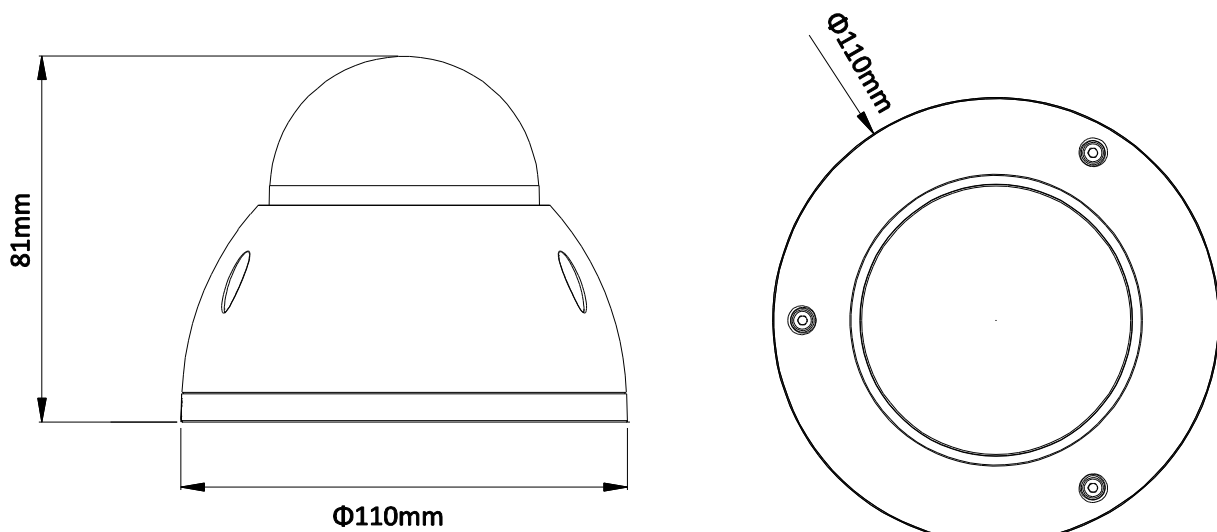- Max. IR LEDs Length 20m
- IP66, IK10, PoE

DH-IPC-HDBW4800E

Technical Specifications

Model	IPC-HDBW4800E
Camera	
Image Sensor	1/2.3" 4K progressive scan CMOS
Effective Pixels	3840(H)x2160(V)
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3(4)~1/10000s
Min. Illumination	0. 1Lux/F1.6 (Color), 0Lux/F1.8(IR on)
S/N Ratio	More than 50dB
Video Output	N/A
Camera Features	
Max. IR LEDs Length	20m
Day/Night	Auto(ICR)/Color/B/W
Backlight Compensation	BLC / HLC / DWDR
White Balance	Auto/Manual
Gain Control	Auto/Manual
Noise Reduction	3D
Privacy Masking	Up to 4 areas
Lens	
Focal Length	4mm
Max Aperture	F1.6
Focus Control	Manual
Angle of View	H: 80°
Lens Type	Fixed lens
Mount Type	Board-in Type
Video	
Compression	H.264/ MJPEG
Resolution	4K(3840×2160)/1080P(1920×1080)/720P(1280×720)/D1(704×576/704×480) /CIF(352×288/352×240)
Frame Rate	Main Stream	4K(1~15fps)/3M/1080P/ (1 ~ 25/30fps)
	Sub Stream	D1/CIF(1 ~ 25/30fps)
Bit Rate		H.264: 20K ~ 16Mbps
Audio	
Compression	N/A
Interface	N/A
Network	
Ethernet	RJ-45 (10/100Base-T)
Wi-Fi	N/A
Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, IP Filter, QoS, Bonjour
Compatibility	ONVIF, PSIA, CGI
Max. User Access	20 users

![Dahua Technology]

DH-IPC-HDBW4800E

Smart Phone	iPhone, iPad, Android, Windows Phone
Auxiliary Interface	
Memory Slot	N/A
RS485	N/A
Alarm	N/A
PIR Sensor Range	N/A
General	
Power Supply	DC12V, PoE (802.3af)
Power Consumption	<7W
Working Environment	-30°C~+60°C, Less than 95% RH
Ingress Protection	IP66
Vandal Resistance	IK10
Dimensions	Φ110mm×81mm
Weight	406g(531.8g with packaging)

Dimensions (mm)

DH-IPC-HDBW4800E

Accessory (optional)

PFB200W	PFA131	PFA123

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*Design and specifications are subject to change without notice.

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8-Channel 4K 2 SATA

1U 8 PoE Network Video Recorder

· H.265/H.264/MJPEG/MPEG4 Codec Decoding
· Max 320Mbps Incoming Bandwidth
· Up to 12MP Resolution Preview & Playback
· HDMI/VGA Simultaneous Video Output
· 3D Intelligent Positioning with Dahua PTZ Cameras

| Pro Series | H.265 | Smart Tracking | Face Detection | Heat Map | Tripwire | Intrusion | Missing Abandon Detection |

System Overview

Dahua's NVR52A08-8P-4KS2 network video recorder offers excellent performance and high recording quality for IP video surveillance applications. For applications where details are critical for identification, this professional NVR provides a powerful processor with up to 4K resolution. Additionally, the NVR features a mouse shortcut operation menu, remote management and control, centre storage, edge storage, and back up storage.

Designed as a low-cost, easy installation, this NVR is ideal for a wide range of applications such as public safety, water conservancy, transportation, city centers, education, and financial institutions. The NVR is compatible with numerous third-party devices making it the perfect solution for surveillance systems with or without a video management system (VMS). Its open architecture supports multi-user access and is compatible with ONVIF 2.4, enabling interoperability when combined with 4K cameras.

Functions

Fisheye Dewarping
The NVR features multiple fisheye dewarping modes to make viewing video easy whether its live or during playback.

N+M Hot Standby
The highly reliable redundancy N+M Hot Standby design provides a secure, failover technique ensuring immediate backup. In the event of a system failure, the slave instantly takes over the master ensuring no data is lost.

4K Resolution
The NVR supports 4K ultra HD resolution (3840 x 2160) for recording, live viewing and playback.

Intelligent Video System (IVS)
With built-in intelligent video analytics, the NVR has the ability to detect and analyze moving objects for improved video surveillance. The NVR provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed, People Counting, ideal for business intelligence, and Facial Detection, for searching or identification of individuals.

Heat Map
The NVR's Heat Map option highlights the areas with the highest concentration of people. This information can then be exported into a customized report to assist in business or forensic analysis.

Point of Sale (POS)
Ideal for grocery and retail stores, the optional POS solution allows the NVR to receive a POS transaction via corresponding video. This feature allows merchants to analyze specific transactions via the Fuzzy search Algorithm.

Smart Tracking
The auto tracking PTZ feature automatically tracks a moving target throughout the camera's field of view. This function is ideal for following an object as it moves through airports, parking lots, city centers, or other applications.

ANR (Automatic Network Replenishment Technology)
Video record in SD card in IP cameras when the network breaks down, and after the network recovered, the video will be transferred to NVR and then recorded in it.

ONVIF

Technical Specification

System

Main Processor	Quad-core Embedded Processor
Operating System	Embedded LINUX

Display

Interface	1 HDMI (up to 3840x2160), 1 VGA
Resolution	3840x2160, 1920×1080, 1280×1024, 1280×720, 1024×768
Multi-screen Display	N/A
OSD	Camera Title, Time, Video Loss, Camera Lock, Motion Detection, Recording

Video Detection and Alarm

Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Camera Blank
Alarm Input	4 Channel, Low Level Effective, Green Terminal Interface
Relay Output	2 Channel, NO/NC Programmable, Green Terminal Interface
Tracking Trigger Event	Targeting, Zoom, Tracking, Recording, Snapshot, Alarm

Playback and Backup

Sync Playback	1/4/8
Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)
Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom
Backup Mode	USB Device/Network/Internal SATA burner/eSATA Device

Storage

Internal HDD	2 SATA III Ports, Up to 12 TB
HDD Mode	Single
eSATA	N/A

Auxiliary Interface

Front Cover	N/A
USB	2 Ports (1 Rear USB 3.0, 1 Front USB 2.0)
SAS	N/A
RS232	1 Port, for PC Communication and Keyboard
RS485	1 Port, for PTZ Control

Third-party Support

Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more

Audio and Video

IP Camera Input	8 Channel
Two-way Talk	1 Channel Input, 1 Channel Output, RCA

Recording

Compression	H 265/H.264/MJPEG/MPEG4
Resolution	12MP/ 8MP /6MP /5MP /4MP /3MP /1080p / 720p / D1
Record Rate	320Mbps
Bit Rate	16kbps~20Mbps for per channel
Record Mode	Manual, Schedule (Regular (Continuous), MD, Alarm), Stop
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec

Network

Interface	1 RJ-45 port (10/100/1000Mbps)
Ethernet Port	1 Independent 1000Mbps Ethernet Ports
Network Function	HTTP, TCP/IP, IPv4/IPv6, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server, IP Search(Support Dahua IP camera, DVR, NVS), P2P
Optical Fiber Interface	N/A
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android
Interoperability	ONVIF 2.4, CGI Conformant

Electrical

Power Supply	Single, AC 100~240V, 50/60 Hz
Power Consumption	NVR: 15.2W (without HDD) PoE: Max 25.5W for single port, 130W in total

Environmental

Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa
Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH

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Construction

Dimensions	1U, 375mm×331mm×53mm (14.7" x 13.0" x 2.1")
Net Weight	2.6kg (5.73 lb) (without HDD)
Gross Weight	4kg (8.81 lb)

Certifications

FCC	VFHKEM1607001083IT
UL	E234884-A107-UL

Ordering Information

Type	Part Number	Description
8 Channel 4K PoE NVR	DHI-NVR52A08-8P-4KS2	8 Channel PoE 4K Network Video Recorder
Accessory	PFH101	Optional Rack Mount Tray, Compatible for 1U/ Mini 1U/ Compact 1U Storage Devices (482.6mm x 281.2mm x 43.7mm)

PFH101

Dimensions (mm)