Dahua TECHNOLOGY

DHI-HCVR4104/08C-S3
4/8 Channel Tribrid 720P Smart 1U Digital Video Recorder

·Embedded processor
·Support HDCVI/CVBS video inputs
·Max 5/10 channels IP camera inputs
·Max 20/40Mbps Incoming Bandwidth
·Long transmission distance over coax cable
·Support 1 SATA HDD, up to 6TB

Lite Series	H.264	Plug&Play	4/8CH	P2P	1080p HDMI / VGA

System Overview

Dahua newest generation digital video recorder adopts HDCVI technology, our in-house technology is an over-coaxial-cable analog HD video transmission standard, allowing long-distance HD transmission at a lower cost to meet the requirements for a complex and large installation. It supports up to 8 channels of HDCVI/CVBS inputs, and 2 channels IP camera additionally.

Designed as a low-cost, easy installation product, this HCVR is ideal for a wide range of applications such as public safety, retail store, transportation, home protection and education. It 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 2.4.1.

Functions

5MP Resolution(DHI-HCVR4108C-S3)
The HCVR supports 5MP HD resolution (2560 x 1920) for recording, live viewing.

Smart Search
This function helps you get more motion detect video during a short time through drawing a region when playback. It is very useful when an emergency occurs.

P2P
Monitor at anytime and anywhere.
Easily and conveniently mange the device.

Onvif

Technical Specification

System

Main Processor	Embedded Processor
Operating System	Embedded LINUX

Display

Interface	1 HDMI ,1 VGA
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768
Multi-screen Display	4CH: 1/4/6 8CH: 1/4/8/9/16
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording

Video Detection and Alarm

Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering
Alarm input	--
Relay Output	--
Tracking Trigger Event	--

Playback and Backup

Playback	4CH: 1/4 8CH:1/4/9
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

Storage

Internal HDD	1 SATA Port, up to 6TB capacity
HDD Mode	Single
eSATA	--

Auxiliary Interface

USB	2 Ports (2 USB 2.0)
RS232	--

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

HDCVI Camera Input	4/8 Channel
IP Camera Input	4+1 Channel,each channel up tp 2MP 8+2 Channel, each channel up to 5MP
Audio In/Out	1/1
Two-way Talk	Reuse audio in/out, RCA

Recording

Compression	H.264
Resolution	1080N, 720P, 960H, D1, HD1, BCIF, CIF, QCIF
Record Rate	Main stream: 4CH:1080N/720P/960H/D1/HD1/ BCIF/CIF/QCIF (1~25/30fps) 8CH:1080N(12fps)/720P(15fps)/960H/D1/HD1/ BCIF/CIF/QCIF (1~25/30fps) Sub steram:4CH:CIF/QCIF(1~15fps) 8CH:CIF/QCIF(1~7fps)
Bit Rate	1Kbps ~ 6144Kbps Per Channel
Record Mode	Manual, Schedule (Regular, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop
Record Interval	1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec

Network

Interface	1 RJ-45 Port (100M)
Network Function	HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P,IP Search (Support Dahua IP camera, DVR, NVS, etc.)
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android
Interoperability	ONVIF 2.4.1, CGI Conformant

Electrical

Power Supply	DC12V/2A
Power Consumption	<15W (Without HDD)

Environmental

Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa
Storage Conditions	0°C ~ +50°C (+32°F ~ +122°F), 0 ~ 90% RH

Construction

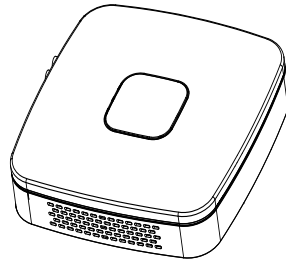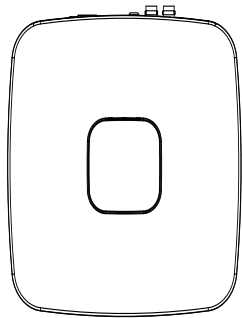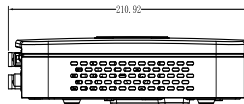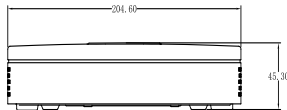|	
Dimensions	Smart 1U, 205×211×45mm (8.1"×8.3"×1.8")
Net Weight	0.5kg (1.1lb) (without HDD)
Gross Weight	1kg (2.2lb)
Installation	Desktop installation

Certifications

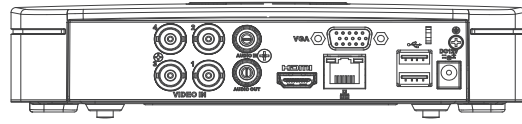|	
Certifications	FCC: Part 15 Subpart B ICES 003 Issue 6
	CE: EN 55032: 2012+AC:2013 (Class B) EN 55024 : 2010 EN 61000-3-2 : 2014 EN 50130-4: 2011 EN 61000-3-3 : 2013
	UL: 60950-1 and CAN/CSA C22.2 No. 60950-1-07

Ordering Information

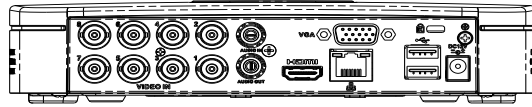| Type	Part Number	Description
4/8 Channel HCVR	DHI-HCVR4104C-S3	4 Channel Tribrid 720P Smart 1U Digital Video Recorder
	DHI-HCVR4108C-S3	8 Channel Tribrid 720P Smart 1U Digital Video Recorder

Dimensions (mm)

Rear Panel

DHI-HCVR4104C-S3

DHI-HCVR4108C-S3

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TECHNOLOGY

DH-HAC-HFW1000RM

1MP HDCVI IR Bullet Camera

HDCVI

· Max 30fps@720P
· HD and SD output switchable
· 3.6mm fixed lens (2.8mm optional)
· Max. IR length 20m, Smart IR
· IP67, DC12V

Lite Series	720p HD	20m IR	DC 12V	IP67	☀ ❄

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 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 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, 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.
With working temperature range of-40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments.
Supporting ±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.

Technical Specification

Camera

Image Sensor	1/4" CMOS
Effective Pixels	1280(H)×720(V), 1MP
Scanning System	Progressive
Electronic Shutter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s
Minimum Illumination	0.05Lux/F2.0, 0Lux IR on
S/N Ratio	More than 65dB
IR Distance	Up to 20m (66feet)
IR On/Off Control	Auto / Manual
IR LEDs	12

Lens

Lens Type	Fixed lens / Fixed iris
Mount Type	Board-in
Focal Length	3.6mm (2.8mmOptional)
Max Aperture	F2.0
Angle of View	H: 60°(83.4°)
Focus Control	N/A
Close Focus Distance	600mm (500mm) 23.6'' (19.69'')

Pan / Tilt / Rotation

Pan/Tilt/Rotation	Pan: 0° ~ 360° Tilt: 0° ~ 90° Rotation: 0° ~ 360°

Video

Resolution	720P (1280×720)
Frame Rate	25/30fps@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

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

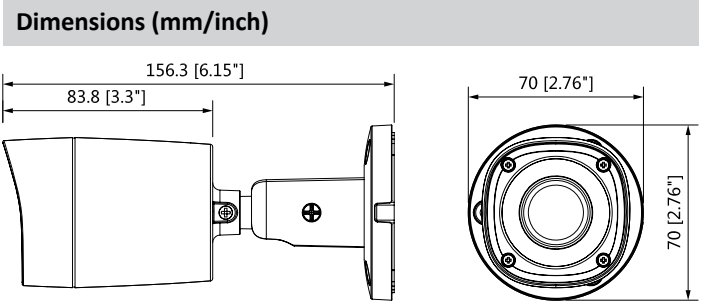|	
Power Supply	12V DC ±25%
Power Consumption	Max 2.8W (12V DC, IR on)

Environmental

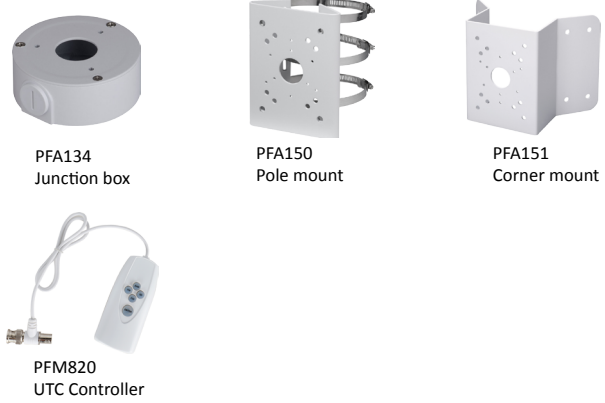|	
Operating Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH * Start up should be done at above -40°C (-40°F)
Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH
Ingress Protection &Vandal Resistance	IP67

Construction

Casing	Aluminium
Dimensions	156.3mm×70mm×70mm (6.15"×2.76"×2.76")
Net Weight	0.30kg (0.66lb)
Gross Weight	0.37kg (0.82lb)

Ordering Information

Type	Part Number	Description
1MP Camera	DH-HAC-HFW1000RMP 2.8mm	1MP HDCVI IR Bullet Camera, PAL
	DH-HAC-HFW1000RMP 3.6mm	
	DH-HAC-HFW1000RMN 2.8mm	1MP HDCVI IR Bullet Camera, NTSC
	DH-HAC-HFW1000RMN 3.6mm	
Accessories	PFA134	Junction box (For use alone or with PFA150 pole mount or with PFA151 corner mount)
	PFA150	Pole mount (For use with PFA134 junction box)
	PFA151	Corner mount (For use with PFA134 junction box)
	PFM820	UTC Controller

Dimensions (mm/inch)

156.3 [6.15"]
83.8 [3.3"]
70 [2.76"]
70 [2.76"]

Accessories

Optional:

PFA134
Junction box

PFA150
Pole mount

PFA151
Corner mount

PFM820
UTC Controller

Corner Mount	Pole Mount
PFA134 + PFA151	PFA134 + PFA150
Junction Mount	
PFA134	