HCVR 16 CH HD/ANA/IP 4 SATA
16-Channel Tribrid 720p Digital Video Recorder

- Embedded Processor
- Max 16 HDCVI/CVBS Inputs
- Max 2-Channel IP camera inputs
- Max 10 Mbps Incoming Bandwidth
- Up to 1080p Resolution for Preview and Playback
- 4 HDD, Up to 24 TB
- Smart Search
- Intelligent Video System (one IP channel)

System Overview

Dahua's 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 16 channels of HDCVI/CVBS inputs, and 2 channels IP camera, 16 channels local live-view channels, and 16 playback channels.

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.

Spot Output
The HCVR features Spot Output, allowing an operator to view a secondary monitor assigned to select cameras or video inputs in a high-security area.

Intelligent Video System (IVS)
With built-in intelligent video analytics, the HCVR has the ability to detect and analyze moving objects for improved video surveillance. The HCVR provides 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.

Smart Search
Smart Search allows an operator to specify a region in the playback video to search for a motion detection event, saving time and manpower.

Functions

Coaxial Upgrade
The HCVR is capable of upgrading CVI cameras over the coaxial cable, making camera maintenance convenient and efficient.

HDCVI/CVBS Auto-detect
The HCVR automatically recognizes the incoming signals of each attached camera without any setup, making installation easy and operation convenient.

Technical Specification

System

Main Processor	Embedded Processor
Operating System	Embedded LINUX

Display

Interface	1 HDMI, 1 VGA, 1 TV
Resolution	1920 × 1080, 1280 × 1024, 1280 × 720, 1024 × 768
Multi-screen Display	Spot
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	16 Channel, Low Level Effective, Green Terminal Interface
Relay Output	6 Channel, NO/NC Programmable, Green Terminal Interface

Playback and Backup

Sync Playback	1/4/9/16
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

Storage

Internal HDD	4 HDD, 24 TB
HDD Mode	Single
eSATA	1 Port

Auxiliary Interface

USB	3 USB Ports (USB 2.0)
RS232	1 Port for PC communication & 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

HDCVI Camera	16 Channel
IP Camera Input	2 Channel
Audio In/Out	4/1
Two-way Talk	1 Channel Input, 1 Channel Output, RCA

Recording

Compression	H.264
Resolution	1080p, 1080N, 720p
Record Rate	30 Mbps
Bit Rate	48 to 4096 Kb/s per Channel
Record Mode	Manual, Schedule (Regular, Continuous), MD (Video detection: Motion Detection, Camera Blank Video Loss), Alarm, Stop
Record Interval	1 to 120 min (default: 60 min), Pre-record: 1 to 30 sec, Post-record: 10 to 300 sec

Network

Interface	1 RJ-45 Ports (1000 Mbps)
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, etc.)
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android
Interoperability	ONVIF 2.4.1, CGI Conformant

Electrical

Power Supply	100 to 240VAC, 50/60 Hz
Power Consumption	< 40 W, without HDD

Environmental

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

Construction

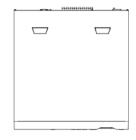|	
Dimensions	1.5 U, 440.0 mm × 416.0 mm × 68.0 mm (17.30 in. x 16.30 in. x 2.60 in.)
Net Weight	6.0 kg (13.23 lb), without HDD
Gross Weight	7.0 kg (15.43 lb)
Installation	Rack mount

Certifications

Certifications	FCC: SEFD1401087-B
	UL: E234884-A57-UL

Intelligence

IVS triggers an alarm and takes a defined action for the following events:

Premium Features

Motion	An object moves through any part of the scene.
Tripwire	A target crosses a user-defined line.
Intrusion	A target enters or exits a defined perimeter.
Scene Change	A person or object moves the camera to change the scene or covers the camera to obscure the scene.
Abandoned/Missing Object	A target leaves an object in designated area, or a target removes an object from the same designated area.

Ordering Information

Type	Part Number	Description
16 Channel HCVR	DHI-HCVR54A16L-V2	16-Channel 720P Digital Video Recorder
Accessories	ESS1504C ESS1508C	4/8 HDDs eSATA Storage

Dimensions (mm)

Accessories

ESS1504C

ESS1508C

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