

# DH-XVR1B16H

16 Channel Penta-brid 4M-N/1080P Cooper 1U Digital Video Recorder



## System Overview

Dahua, as a technology leader, is always the first ever developed the shining new technology in the security industry, and today we present Cooper Series XVR. Designed as a full compatibility product, XVR is able to provide end user the simplicity of analog system, namely lower system cost, simple installation and use of existing cable. And with the adoption of Smart H.265+/H.265, the series improves encoding efficiency, saving on bandwidth/storage costs. It is ideal for a wide range of civil applications such as retail store, home protection and so on.

Featuring high performance with attractive costs, the Cooper Series offers a great solution for users facing budget constraints who both require quality and performance.

## Functions

### Smart H.265+

Smart Codec, H.265+ can reduce up to 90% bit rate and storage requirements compared with H.264 without having to invest in new cameras.

### HDCVI/AHD/TVI/CVBS/IP Auto-detect

The XVR can auto recognize the signal of front-camera without any setting. It makes operation more friendly and convenient.

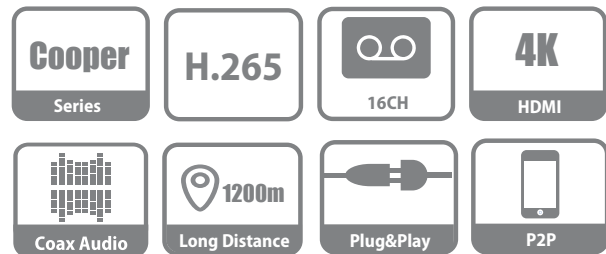
### High Definition Camera Input

The XVR supports up to 5MP HDCVI camera and 6MP IP camera input.

### Coaxial Audio/Upgrade/Alarm

The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

- H.265+/H.265 dual-stream video compression
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 24 channels IP camera inputs, each channel up to 6MP; Max 96Mbps incoming bandwidth
- Long transmission distance over coax cable
- Supports 1 SATA HDD, up to 6TB
- Smart Search and Intelligent Video System



### POS Functionality

This function includes POS ticket information overlay and search which can be widely used in retail programs.

### Long Distance Transmission

The HDCVI system supports long distance transmission over coaxial cable and UTP, max. 700m for 4K/4MP, 800m for 1080P and 1200m for 720P.

### Intelligent Video System (IVS)

With built-in intelligent video analytics, the XVR has the ability to detect and analyze moving objects for improved video surveillance. The XVR 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.

### Face Detection

It is a typical technology being used in a variety of applications for searching or identification of individuals.

### 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.

**Technical Specification****System**

Main Processor	Embedded Processor
Operating System	Embedded LINUX

**Video and Audio**

Analog Camera Input	16 Channel, BNC
HDCVI Camera	5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps
AHD Camera	5MP, 4MP, 1080P@25/30, 720P@25/30fps
TVI Camera	5MP, 4MP, 1080P@25/30, 720P@25/30fps
CVBS Camera	PAL/NTSC
IP Camera Input	16+8CH, each channel up to 6MP
Audio In/Out	1/1, RCA
Two-way Talk	Reuse audio in/out, RCA

**Recording**

Video Compression	H.265+/H.265/H.264+/H.264
Resolution	5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF
Record Rate	Main stream: 5M-N(1~10fps), 4M-N/1080P(1~15fps); 1080N/720P/960H/D1/CIF (1~25/30fps) Sub stream: D1/CIF(1~15fps)
Video Bit Rate	32Kbps ~ 6144Kbps Per Channel
Record Mode	Manual, Schedule (General, 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
Audio Compression	G.711A, G.711U, PCM
Audio Sample Rate	8KHz, 16 bit Per Channel
Audio Bit Rate	64Kbps Per Channel

**Display**

Interface	1 HDMI ,1 VGA
Resolution	HDMI: 3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720 VGA: 1920×1080, 1280×1024, 1280×720
Multi-screen Display	When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16/25
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording

**Network**

Interface	1 RJ-45 Port (1000M)
Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter ,DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.)
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android
Interoperability	ONVIF 16.12, CGI Conformant

**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, Tampering and Diagnosis
Alarm input	N/A
Relay Output	N/A

**Playback and Backup**

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

**Storage**

Internal HDD	1 SATA Port, up to 6TB capacity
eSATA	N/A

**Auxiliary Interface**

USB	1 USB 2.0 , 1 USB 3.0
RS232	N/A
RS485	N/A

**Electrical**

Power Supply	DC12V/2A
Power Consumption (Without HDD)	<10W

**Construction**

Dimensions	Compact 1U, 260×236×48mm(10.2"×9.3"×1.9")
Net Weight (without HDD)	0.86kg (1.90lb)
Gross Weight	1kg (2.2lb)
Installation	Desktop installation

**Environmental**

Operating Conditions	-10°C ~ +45°C (+14°F ~ +113°F), 10~ 90% RH
Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F) , 0~ 90% RH

**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
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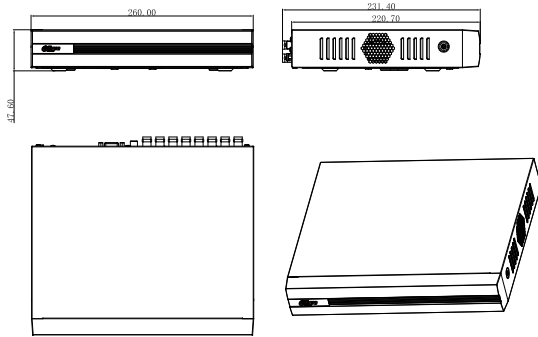
**Certifications**

Certifications	FCC: Part 15 Subpart B
	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024
	UL: UL 60950-1

**Ordering Information**

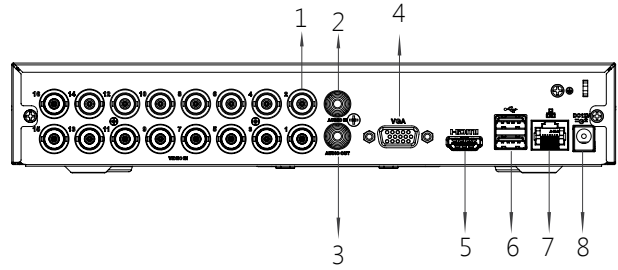
Type	Part Number	Description
16 Channel XVR	DH-XVR1B16H	16 Channel Penta-brid 4M-N/1080P Compact 1U Digital Video Recorder

**Dimensions(mm)**



**Rear Panel**

DH-XVR1B16H



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|---|--------------------------|---|-------------------|
| 1 | VIDEO IN                 | 5 | HDMI Interface    |
| 2 | AUDIO IN, RCA Connector  | 6 | USB Interface     |
| 3 | AUDIO OUT, RCA Connector | 7 | Network Interface |
| 4 | VGA Interface            | 8 | DC12V Power Input |