

# XVR0412-I

4 Channel Penta-brid 1080N/720p Compact 1U 1HDD X-Sense Digital Video Recorder



**X-Sense**

- H.265+/H.265 dual-stream video compression
- Supports Full-channel AI-Coding
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 5 channels IP camera inputs, each channel up to 2MP; Max 32 Mbps incoming bandwidth
- Up to 4 channels video stream ( analog channel ) SMD Plus



## X-Sense

Launched by noXt - **High Design & Performance**, X-Sense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. X-Sense provides intelligent, simple and inclusive products and solutions.

## Functions

### SMD Plus

With intelligent algorithm, Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

### AI Coding

Compared with H.265/H.264, AI coding can reduce more than 50% bit rate and storage requirements while have no loss of decoding compatibility, providing clear human and vehicle details.

### Smart Codec

With advanced scene-adaptive rate control algorithm, no smart codec technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

### HDCVI/AHD/TVI/CVBS 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 2MP HDCVI camera and 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.

### Long Distance Transmission

The HDCVI system supports long distance transmission over coaxial cable and UTP, max. 800 m for 1080p and 1200 m for 720p.

## Technical Specification

### System

Main Processor	Embedded processor
Operating System	Embedded linux

### SMD Plus

Performance	4 channels
AI Search	Search by target classification (Human, Vehicle)

### Video and Audio

Analog Camera Input	4 channels, BNC
HDCVI Camera Input	1080p@25/30 fps, 720p@50/60 fps, 720p@25/30 fps
AHD Camera Input	1080p@ 25/30 fps, 720p@ 25/30 fps
TVI Camera Input	1080p@25/30 fps, 720p@25/30 fps
CVBS Camera Input	PAL/NTSC
IP Camera Input	4+1 channels, each channel up to 2MP
Audio In/Out	1/1, RCA
Two-way Talk	Reuse audio in/out, RCA

### Recording

Compression	AI Coding/H.265+/H.265/H.264+/H.264
Resolution	1080N; 720p; 960H; D1; CIF
Record Rate	Main Stream: 4-channel: All channels 1080N/720p/960H/D1/CIF/(1 fps–25/30 fps) Sub stream: 4channel: CIF/(1 fps–15 fps)
Bit Rate	32 kbps–6144 kbps per channel
Record Mode	Manual; Schedule (General, Continuous); MD (Video detection: Motion Detection, Video Loss, Tampering); Alarm; Stop
Record Interval	1 min– 60 min (default: 60 min), Pre-record: 1 s–30 s, Post-record: 10 s–300 s
Audio Compression	G.711A; G.711U; PCM
Audio Sample Rate	8 KHz, 16 bit per channel
Audio Bit Rate	64 kbps per channel

### Display

Interface	1 HDMI; 1 VGA
Resolution	1920 × 1080, 1280 × 1024, 1280 × 720
Multi-screen Display	When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6
OSD	Camera title; Time; Video loss; Camera lock; Motion detection; Recording

### Network

Interface	1 RJ-45 Port (100 Mbps)
Network Function	HTTP; HTTPS; TCP/IP; IPv4/IPv6; Wi-Fi; 3G/4G; SNMP; UPnP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDNS; FTP; Alarm Server; P2P; IP Search
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
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 6 TB capacity
eSATA	N/A

### Auxiliary Interface

USB	2 USB ports (USB 2.0)
RS485	1 Port, for PTZ Control
RS232	N/A

### Electrical

Power Supply	DC 12V/1.5A
Power Consumption (Without HDD)	< 4W

### Construction

Dimensions	Compact 1U, 260.0 mm × 237.9 mm × 47.6 mm (10.24" × 9.37" × 1.87")
Net Weight (without HDD)	0.86 kg (1.90 lb)
Gross Weight	1.37 kg (3.02 lb)
Installation	Desktop installation

### Environmental

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

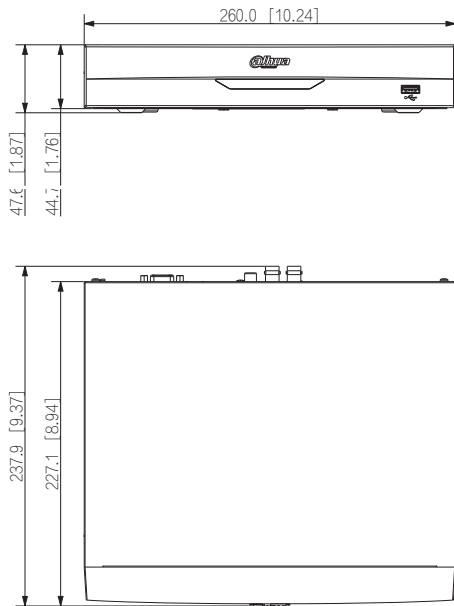
### Third-party Support

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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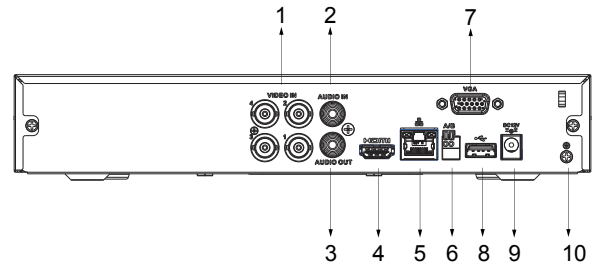
### Certifications

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
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Dimensions (mm[inch])



Panels



- 1 Video In
- 2 Audio In
- 3 Audio Out
- 4 HDMI Port
- 5 Network Port
- 6 RS-485 Port
- 7 VGA Port
- 8 USB Port
- 9 DC 12V Power Input
- 10 Ground