

# DH-XVR4216AN-I

16 Channels Penta-brid 720P 1U 2HDDs WizSense Digital Video Recorder



### Wiz Sense

Launched by Dahua Technology, WizSense 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. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

#### **Series Overview**

Dahua Technology, a world-leading video-centric smart IoT solution and service provider, debuted its new XVR series, XVR4000-I Series featuring max.full-channel SMD Plus to benefit customers from AI upgrade (The number of channels differs depending on the model. Please refer to the specifications below for information on the number of channels.). This series has been developed to reduce false-alarm rates and the cost of human surveillance, thus bringing great value to customers in search of products with accurate human/vehicle alarm to raise the security level of various indoor and outdoor facilities.

### Functions

#### **SMD** Plus

With intelligent algorithm, Dahua 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.

#### **Smart Dual Illuminators**

With Smart Dual Illuminators technology, you can select Smart Illumination Mode for the system to automatically switch between IR mode and white light mode. It allows white light to be turned on when a target is detected by the SMD Plus/Perimeter Protection function of AI-enabled XVR. This significantly reduces light pollution at night. Together with other modes, including IR Mode and White Light Mode, the smart dual illumination technology can meet the requirements of a wide variety of scenes.

#### **One-click Arming/Disarming**

With just one click, you can enable or disable alarm linkages to show messages, send emails, output audio alarms and more, through the mobile app and platform.

- H.265+/H.265 video compression
- Supports Full-channel AI-Coding
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 18 channels IP camera inputs, each channel up to 6MP; Max 64 Mbps Incoming Bandwidth
- Long transmission distance over coax cable
- $\cdot$  Up to 8 channels video stream (analog channel) SMD Plus
- Supports 2 SATA HDD, up to 16 TB



#### **Customizable Alarm Audio**

Designed for your convenience, the TiOC alarm can be customized to meet your needs. It is flexible, allowing you to directly upload your customized audio through the mobile app and XVR.

#### AI Coding

Compared with H.265/H.264, AI coding can reduce more than 50% bit rate and storage requirements without loss of decoding compatibility, providing clear human and vehicle details.

#### Smart H.265+

Smart H.265+ Codec reduces bit rate and storage requirements by up to 90%, outranking standard H.264 video compression and eliminating the need to invest in a new camera.

#### Long-distance Transmission

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

#### Audio over Coax

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

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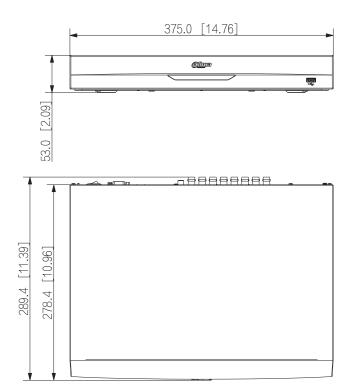
Technical Specification				
System				
Main Processor	Industrial-grade processor			
Operating System	Embedded Linux			
Operating Interface	Web; Local GUI			
SMD Plus				
SMD Plus by Recorder	8 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change			
Audio and Video				
Analog Camera Input	16 BNC ports, CVI access by default, supports HDCVI/ AHD/TVI/CVBS auto-detect			
Camera Input	1. CVI: 1080p@ 25/30 fps, 720p@25/30 fps 2. TVI: 1080p@ 25/30 fps, 720p@25/30 fps 3. AHD: 1080p@ 25/30 fps, 720p@25/30 fps 4. CVBS: PAL/NTSC			
IP Camera Input	Up to 18 channels of IPC access 2 IP channels by default + 16 channels (analog channels are converted to IP channels) incoming bandwidth: 64 Mbps, recording bandwidth: 64 Mbps and outgoing bandwidth: 64 Mbps *After IP channels are added beyond the existing channels,the AI Function(SMD) will be disabled.			
Encoding Capacity	Main Stream: the 1st channel 1080N, 720p@ (1 fps–25/30 fps), others 1080N, 720p@ (1 fps–15 fps); 960H, D1, CIF@ (1 fps–25/30 fps) Sub stream: CIF@ (1 fps–7 fps)			
Dual-stream	Yes			
Video Bit Rate	32 kbps-6144 kbps			
Audio Sampling	8 kHz, 16 bit			
Audio Bit Rate	64 kbps			
Video Output	1 HDMI, 1 VGA HDMI/VGA: 1920 × 1080, 1280 × 1024, 1280 × 720			
Multi-screen Display	1/4/8/9/16			
Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung			
Compression Standard				
Video Compression	Al Coding; H.265+; H.265; H.264+; H.264			
Audio Compression	G.711a; G.711u; PCM			
Network				
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P			
Mobile Phone Access	iOS; Android			
Interoperability	ONVIF 21.12; CGI Conformant			
Browser	Chrome IE9 or later Firefox			
Network Mode	Single-address mode			
Recording Playback				
Record Mode	General, motion detection, alarm			

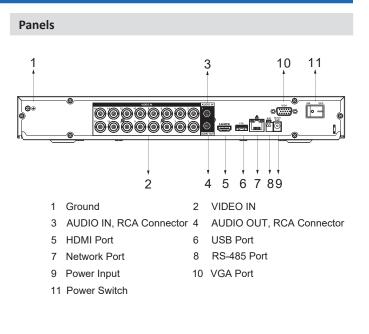
Recording Playback	1/4/9/16		
Backup Method	USB device and network		
Playback Mode	Instant playback, general playback, event playback, tag playback		
Alarm			
General Alarm	Motion detection, video loss, tampering		
Anomaly Alarm	No disk, disk error, low space, offline, ip conflict, MAC conflict		
Alarm Linkage	Record, snapshot (panoramic), IPC external alarm output, access controller, voice prompt, buzzer, log, preset, email		
Ports			
Audio Input	1-channel RCA 16-channel BNC (Coaxial Audio)		
Audio Output	1-channel RCA		
Two-way Talk	Yes (share the same audio input with the first channel)		
HDD Interface	2 SATA ports, up to 16 TB. The maximum HDD capacity varies with environment temperature.		
RS-485	1 port, for PTZ control		
USB	2 USB ports (USB 2.0)		
HDMI	1		
VGA	1		
Network Port	1 (10/100 Mbps Ethernet port, RJ-45)		
General			
Power Supply	12 VDC, 4 A		
Power Consumption	<10 W		
Net Weight	1.61 kg (3.55 lb)		
Gross Weight	2.86 kg (6.30 lb)		
Product Dimensions	375.0 mm × 289.4 mm × 53.0 mm (14.76" × 11.39" × 2.09") (W × D × H)		
Packaging Dimensions	433.0 mm× 366.0 mm × 141.0 mm (17.05" × 14.41" × 5.55" ) (W× D× H)		
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)		
Operating Humidity	0%–90% (RH)		
Installation	Desktop		
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; EN50130; EN 55024		

Ordering Information			
Туре	Model	Description	
16 Channels WizSense XVR	DH-XVR4216AN-I	16 Channels Penta-brid 720P 1U Digital Video Recorder	

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## Dimensions (mm[inch])





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