



DH-XVR4232AN-I

32 Channels Penta-brid 1080N/720P 1U 2HDDs WizSense Digital Video Recorder





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

Al-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.

- · H.265+/H.265 dual-stream video compression.
- · Supports 8-channel Al-Coding.
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs.
- Max 16 channels IP camera inputs, each channel up to 6MP; Max 128
 Mbps incoming bandwidth.
- Up to 16 channels video stream (analog channel) SMD Plus.
- · Long transmission distance over coax cable.

















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.

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, Al 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.





System Main Processor Main Industrial grade processor Embedded Linux Operating Interface Web; Local Clu SAMD Plus Some John School Some John John School Some John School Some John John John John John John John John	Technical Specification	on	Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback
Main Processor Decreting Institute Decreting Institute West Local Stuti West Local Stuti West Local Stuti West Local Stuti Behaviors SMD Plus by Recorder If charmes: Secondary fiftening for human and rentor whole SMD Plus, reducing faller alterna careed by levens, rain and plotter control whole studies are control whole studies and plotter control whole studies and plotter control whole studies are control on P charmes and plotter to the studies and plotter	System		Storage	
Decrating Psystem	Main Processor	Industrial-grade processor	G	Yes
Semantal priefface	Operating System	Embedded Linux		
SMD Plus SMD Plus Scharels Secondary fittening for human and motor vehicle 3MD Plus by Recorder Secondary fittening for human and motor vehicle 3MD Plus, retained files that share caused by leaves, rain and lighting condition; change SMD Plus by Recorder SMD Pl	Operating Interface	Web; Local GUI		
16 Channels	SMD Plus		General Alarm	
Audio and Video Analog Camera Input Dust a Camera Input Analog Camera	SMD Plus by Recorder	Secondary filtering for human and motor vehicle SMD Plus, reducing false alarms caused by leaves, rain and	Anomaly Alarm	conflict
Analog Camera input 32 BNC ports, CVI access by default, supports HDCVV HDCVIVCVIVS and refrect			Alarm Linkage	output, access controller, voice prompt, buzzer, log,
Amoly Camera input Amoly Camera input Amoly Camera input Amoly December 3, 2016 pp. 2720 pp. 2730 p	Audio and Video		Ports	
Audio Input	Analog Camera Input		TV Output	1 channel
P Camera Input	Camera Input	AHD 1080P@ 25/30 fps, 720P@ 25/30 fps	Audio Input	
P Camera Input Channels Incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps Main Stream: the 1st channel 1080N/720P (1 fp-25/30) fp.) others 1280N/720P (1 fp-25/30) fp.) others 1280N/720P (1 fp-31 fps); 950H/DI/CIF (1 fps-25/30) fp.) Video Bit Rate 32 kbps-6144 kbps per channel Video Bit Rate 32 kbps-6144 kbps per channel Video Bit Rate 32 kbps-6144 kbps per channel Video Bit Rate 34 kbps Mbit 1290 x 1980, 1280 x 1024, 1280 x 720 Mbit 1290 x 1980, 1280 x 1024, 1280 x 720 Mbit 1290 x 1980, 1280 x 1024, 1280 x 720 Mbit 1290 x 1980, 1280 x 1024, 1280 x 720 Mbit 1290 x 1980, 1280 x 1024, 1280 x 720 Mbit 1290 x 1980, 1260 x 1024, 1280 x 720 Mbit 1290 x 1980, 1260 x 1024, 1280 x 720 Mbit 1290 x 1980, 1260 x 1024, 1280 x 720 Mbit 1290 x 1980, 1260 x 1024, 1280 x 720 Mbit 1290 x 1980, 1260 x 1024, 1280 x 720 Mbit 1290 x 1980, 1260 x 1024, 1280 x 720 Mbit 1290 x 1980, 1260 x 1024, 1280 x 720 Mbit 1290 x 1980, 1260 x 1024, 1280 x 720 Mbit 1290 x 1980, 1260 x 1024, 1280 x 720 Mbit 1290 x 1980, 1260 x 1024, 1280 x 720 Mbit 1290 x 1980, 1260 x 1024, 1280 x 720 Mbit 1290 x 1980, 1260 x 1024, 1280 x 720 Mbit 1290 x 1980, 1260 x 1024, 1280 x 720 Mbit 1290 x 1980, 1280 x 1024, 1280 x 720 Mbit 1290 x 1980, 1280 x 1024, 1280 x 720 Mbit 1290 x 1980, 1280 x 1024, 1280 x 720 Mbit 1290 x 1980, 1280 x 1024, 1280 x 720 Mbit 1290 x 1980, 1280 x 1024, 1280 x 720 Mbit 1290 x 1980, 1280 x 1024, 1280 x 720 Mbit 1290 x 1980, 1280 x 1024, 1280 x 720 Mbit 1290 x 1980, 1280 x 1024, 1280 x 720 Mbit 1290 x 1980, 1280 x 1024	IP Camera Input	16 channels (analog channels are converted to IP channels)	Audio Output	1, RCA
Main Stream: the 1st channel 1080N/720P (1 fps-25/30 fps), others 1080N/720P (1 fps-25/30 fps), others 1080N/720P (1 fps-25/30 fps), others 1080N/720P (1 fps-15 fps); 960H/D1/CIF (1 fps-25/30 fps), others 1080N/720P (1 fps-15 fps); 960H/D1/CIF (1 fps-25/30 fps), others 1080N/720P (1 fps-15 fps); 960H/D1/CIF (1 fps-25/30 fps), others 1080N/720P (1 fps-15 fps); 960H/D1/CIF (1 fps-25/30 fps), others 1080N/720P (1 fps-15 fps); 960H/D1/CIF (1 fps-25/30 fps), others 1080N/720P (1 fps-15 fps); 960H/D1/CIF (1 fps-25/30 fps), others 1080N/720P (1			Two-way Talk	Yes (share the same audio input with the first channel)
Encoding Capacity 1080N/720f (1 fps-15 fps); 960H/D1/CIF (1 fps-25/30 fps) Sub steram: CIF (1 fps-7 fps) U5B 2 (1 front USB 2.0 port, 1 rear USB 3.0 port)	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)	HDD Interface	
Dual-stream Yes HDMI 1			RS-485	1
Note of the state	0 1 .		USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)
Audio Sampling 8 kHz, 16 bit Network Port 1 (10/100/1000 Mbps Ethernet port, Ri-45) Audio Bit Rate 64 kbps General Video Output VGA: 1920 x 1080, 1280 x 1024, 1280 x 720 HDM: 1920 x 1080, 1280 x 1024, 1280 x 720 HDM: 1920 x 1080, 1280 x 1024, 1280 x 720 HDM: 1920 x 1080, 1280 x 1024, 1280 x 720 HDM: 1920 x 1080, 1280 x 1024, 1280 x 720 HDM: 1920 x 1080, 1280 x 1024, 1280 x 720 HDM: 1920 x 1080, 1280 x 1024, 1280 x 720 HDM: 1920 x 1080, 1280 x 1024, 1280 x 720 HDM: 1920 x 1080, 1280 x 1024, 1280 x 720 HDM: 1920 x 1080, 1280 x 1024, 1280 x 720 HDM: 1920 x 1080, 1280 x 1024, 1280 x 720 HDM: 1920 x 1080, 1280 x 1024, 1280 x 720 HDM: 1920 x 1080, 1280 x 1024, 1280 x 720 HDM: 1920 x 1080, 1280 x 1024, 1280 x 720 HDM: 1920 x 1080, 1280 x 1024, 1280 x 720 HDM: 1920 x 1080, 1280 x 1024, 1280 x 720 HDM: 1920 x 1080, 1280 x 1024, 1280 x 720 HDM: 1920 x 1080, 1280 x 1024, 1280 x 720 HDM: 1920 x 1080, 1280 x 1024, 1280 x 720 HDM: 1920 x 1080 x 1024, 1280 x 720 HDM: 1920 x 1080 x 1024, 1280 x 1024, 1280 x 720 HDM: 1920 x 1080 x 1024, 1280 x		Yes	HDMI	1
Audio Bit Rate 64 kbps General 1HDMI, 1 VGA, 1 TV VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 1920 × 1080, 1280 × 1024, 1280 × 1024 HDMI: 1920 × 1080, 1280 × 1080 HDMI: 1920 × 1080 × 1080 HDMI: 1920 × 1	Video Bit Rate	32 kbps–6144 kbps per channel	VGA	1
Audio Compression Al Coding: H.265+; H.265+; H.264+; H.264 Audio Compression G.711A; G.711u; PCM Network Chrome, IE9 or above, Firefox Network Mode Record Mode General, motion detection; intelligent; alarm General Power Supply 12 VDC, 4 A Nower Supply 12 VDC, 4 A Power Consumption Lower than 12 W (without HDD) Network 1.92 kg (4.23 lb) 3.09 kg (6.81 lb) 1.92 kg (4.23 lb) 3.09 kg (6.81 lb) Product Dimensions 10, 375.0 mm × 289.4 mm × 53.0 mm (14.76" × 11.40" * 2.09") (W × D × H) Packaging Dimensions 433.0 mm × 141.0 mm × 366.0 mm (17.05" × 5.55" × 14.41") (W × D × H) Operating Temperature -10 "C to +55 "C (14 "F to +131 "F) Operating Humidity 0%-90% (RH) Installation Desktop Certifications	Audio Sampling	8 kHz, 16 bit	Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)
Video Output VGA: 1920 x 1080, 1280 x 1024, 1280 x 720 HDMI: 1920 x 1080, 1280 x 1024, 1280 x 720 Multi-screen Display 1/4/8/9/16/25/36 Multi-screen Display 1/4/8/9/16/25/36 Onvif, Panasonic, Sony, Axis, Arecont, Pelco, Canon, Samsung Compression Standard Video Compression Al Coding; H.265+; H.265; H.264+; H.264 Video Compression G.711A; G.711u; PCM Network Network Network Protocol HTTP; HTTPS; TCP / IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P Mobile Phone Access IOS, Android Installation Desktop Certifications Certifications Certifications Power Consumption Lower than 12 W (without HDD) Net Weight 1.92 kg (4.23 lb) Soy kg (6.81 lb) Gross Weight 1.92 kg (4.23 lb) 3.09 kg (6.81 lb) Product Dimensions 10, 375.0 mm x 289.4 mm x 53.0 mm (14.76" x 11.40": 2.00") (W x D x H) 433.0 mm x 141.0 mm x 366.0 mm (17.05" x 5.55" x 14.41") (W x D x H) Packaging Dimensions 14.41" (W x D x H) Operating Temperature -10 "C to +55 "C (14 "F to +131 "F) Operating Humidity O%—90% (RH) Desktop Certifications Ce	Audio Bit Rate	64 kbps	General	
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 Network Protocol HTTP; HTTPS; TCP / IP, IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P Mobile Phone Access IOS, Android Interoperability ONVIF 21.06, CGI Browser Chrome, IE9 or above, Firefox Record Mode General, motion detection; intelligent; alarm Net Weight 1.92 kg (4.23 lb) 1.93 kg (4.23 lb) 1.92 kg (4.23 lb) 3.09 kg (6.81 lb) Product Dimensions 11, 375.0 mm × 289.4 mm × 53.0 mm (14.76" × 11.40" × 2.09") (W× D× H) 1.97 kg (6.21 lb) 1.97 kg (4.23 lb) 1.98 kg (4.23 lb) 1.99 kg (4.23 lb) 1.90 kg (6.81 lb) Product Dimensions 10, 375.0 mm × 289.4 mm × 53.0 mm (14.76" × 11.40" × 2.09") (W× D× H) 1.90 kg (6.81 lb) 1.91 kg (4.23 lb) 1.92 kg (4.23 lb) 2.99 kg (6.81 lb) 1.97 kg (6.81 lb) 1.92 kg (4.23 lb) 1.93 kg (6.81 lb) 1.93 kg (6.81 lb) 1.94 kg (1.76 kg (1.7	Video Output	VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	Power Supply	12 VDC, 4 A
Third-party Camera Access Samsung Compression Standard Video Compression Al Coding; H.265+; H.264+; H.264 Product Dimensions 10, 375.0 mm × 289.4 mm × 53.0 mm (14.76" × 11.40" : 2.09") (W × D × H) Audio Compression G.711A; G.711u; PCM Packaging Dimensions 433.0 mm × 141.0 mm × 366.0 mm (17.05" × 5.55" × 14.41") (W × D × H) Network Network Network Protocol HTTP; HTTP; TCP / IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P Mobile Phone Access iOS, Android Interoperability ONVIF 21.06, CGI Browser Chrome, IE9 or above, Firefox Network Mode Single-address mode Record Mode General, motion detection; intelligent; alarm	Multi-screen Display	1/4/8/9/16/25/36	Power Consumption	Lower than 12 W (without HDD)
Compression Standard Video Compression Al Coding; H.265+; H.265+; H.264 Audio Compression G.711A; G.711u; PCM Network Network Network Protocol HTTP; HTTPs; TCP / IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P Interoperability ONVIF 21.06, CGI Browser Chrome, IE9 or above, Firefox Network Mode Record Mode General, motion detection; intelligent; alarm Gross Weight 3.09 kg (6.81 lb) Product Dimensions 1U, 375.0 mm × 289.4 mm × 53.0 mm (14.76" × 11.40" × 2.09") (W × D × H) 1U, 375.0 mm × 289.4 mm × 53.0 mm (14.76" × 11.40" × 2.09") (W × D × H) 1U, 375.0 mm × 289.4 mm × 53.0 mm (14.76" × 11.40" × 2.09") (W × D × H) 1U, 375.0 mm × 289.4 mm × 53.0 mm (14.76" × 11.40" × 2.09") (W × D × H) 1U, 375.0 mm × 289.4 mm × 53.0 mm (14.76" × 11.40" × 2.09") (W × D × H) 433.0 mm × 141.0 mm × 366.0 mm (17.05" × 5.55" × 14.41") (W × D × H) Operating Temperature -10 *C to +55 *C (14 *F to +131 *F) Operating Humidity 0%-90% (RH) Desktop 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 FCC: Part 15 Subpart B Record Mode General, motion detection; intelligent; alarm	Third-party Camera Access		Net Weight	1.92 kg (4.23 lb)
Video Compression Al Coding; H.265+; H.265; H.264+; H.264 Audio Compression G.711A; G.711u; PCM Packaging Dimensions Packaging Dimensions Al Coding; H.265+; H.265; H.264+; H.264 Product Dimensions 1U, 375,0 mm × 289,4 mm × 53.0 mm (14.76" × 11.40" ; 2.09") (W × D × H) Addio Compression G.711A; G.711u; PCM Packaging Dimensions Packaging Dimensions Al Coding; H.265+; H.265; H.264+; H.264 Product Dimensions 1U, 375,0 mm × 289,4 mm × 53.0 mm (14.76" × 11.40" ; 2.09") (W × D × H) Addio Compression G.711A; G.711u; PCM Packaging Dimensions Packaging Dimensions Packaging Dimensions Packaging Dimensions Packaging Dimensions Packaging Dimensions 1U, 375,0 mm × 289,4 mm × 53.0 mm (14.76" × 11.40" ; 2.09") (W × D × H) Addio Compression G.711A; G.711u; PCM Packaging Dimensions Packaging D			Gross Weight	3.09 kg (6.81 lb)
Network Network Protocol HTTP; HTTPS; TCP / IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P Mobile Phone Access iOS, Android Installation Desktop Certifications Certifications Certifications Certifications 14.41") (W × D × H) Operating Temperature -10 °C to +55 °C (14 °F to +131 °F) Operating Humidity 0%—90% (RH) Desktop Certifications Certi			Product Dimensions	1U, 375.0 mm × 289.4 mm × 53.0 mm (14.76" × 11.40" × 2.09") (W × D × H)
Network Protocol HTTP; HTTPS; TCP / IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P Operating Humidity O%—90% (RH) Installation Desktop 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 FCC: Part 15 Subpart B Record Mode General, motion detection; intelligent; alarm	Audio Compression	G.711A; G.711u; PCM	Packaging Dimensions	·
Network Protocol DHCP; DNS; DDNS; P2P Operating Humidity O%—90% (RH) Installation Desktop 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 FCC: Part 15 Subpart B Record Mode General, motion detection; intelligent; alarm	Network		Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)
Interoperability ONVIF 21.06, CGI Browser Chrome, IE9 or above, Firefox Network Mode Recording Playback Record Mode General, motion detection; intelligent; alarm 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 FCC: Part 15 Subpart B	Network Protocol		Operating Humidity	0%-90% (RH)
Browser Chrome, IE9 or above, Firefox Certifications CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 FCC: Part 15 Subpart B Recording Playback Record Mode General, motion detection; intelligent; alarm	Mobile Phone Access	iOS, Android	Installation	Desktop
Browser Chrome, IE9 or above, Firefox 50130, EN 55024 FCC: Part 15 Subpart B Network Mode Single-address mode Recording Playback Record Mode General, motion detection; intelligent; alarm	Interoperability	ONVIF 21.06, CGI	Certifications	CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN
Recording Playback Record Mode General, motion detection; intelligent; alarm	Browser	Chrome, IE9 or above, Firefox		
Record Mode General, motion detection; intelligent; alarm	Network Mode	Single-address mode		
	Recording Playback			
Recording Playback 1/4/9/16	Record Mode	General, motion detection; intelligent; alarm		
	Recording Plavback	1/4/9/16		



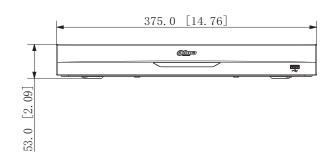
Backup Method

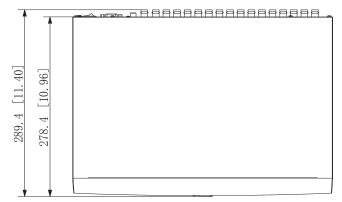
USB device and network



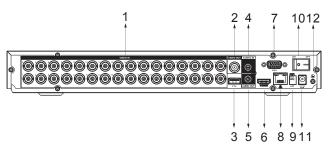
Ordering Information				
Туре	Model	Description		
32 Channels WizSense XVR	DH-XVR4232AN-I	1U DIGITAL VIDEO RECORDER		

Dimensions (mm[inch])





Panels



1 Video In 2 Video Out 3 USB Port 4 Audio In 5 Audio Out 6 HDMI Port 7 VGA Port 8 Network Port 9 RS-485 Port 10 Power Switch 11 DC 12V Power Input 12 Ground

