AMX-3014L-16/16P-4KS2/I



16 Channel 1.5U 16PoE 4HDDs Network Video Recorder



Wec imaxcampro 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.

Series Overview

This AI network video recorder is a highly cost-effective product, providing functions such as local live view, multi-screen display, real-time storage on local HDD, fast operation by mouse, and remote management and control. This product is suitable for face detection and recognition at entrances and exits, and perimeter protection of people and vehicles.

Functions

Face Detection

Face detection is to detect if there is any human face appearing in the video. This technology adopts a deep learning algorithm to support face detection, tracking, optimization and capturing, and then output the best face snapshot.

Face Recognition

Face Recognition technology extracts the features of captured faces and compares them with those in face database to recognize the person identity.

Perimeter Protection

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to perform secondary recognition for the targets. Improving alarm accuracy.

- Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format
- Access, storage or forwarding at 256 Mbps (160 Mbps when Al function enabled)
- Max. decoding capability: 10 × 1080p@30 fps. Supports adaptive decoding
- AI by NVR: 1-channel face detection and recognition; 2-channel perimeter protection; up to 10 face databases and 20,000 face images; 4-channel SMD Plus
- Al by Camera: Face detection and recognition, perimeter protection; SMD Plus; ANPR; people counting; stereo analysis; heat map
- Support IPC UPnP, 16PoE ports
- Security baseline 2.1



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 Search

Support AI seach by metadata of different targets or uploading face pictures to device and comparing them with recorded faces by similarity. Enable operators to quickly and easily search through multi channels and long duration, efficiently find out when and where a person of interest appeard.

Smart Fan

The NVR is equipped with a smart fan to achieve high cooling efficiency. It automatically turns on or turns off according to CPU and ambient temperature. The fan is long-lasting and low noise, reducing maintenance costs and improving the user experience.

Technical Specification

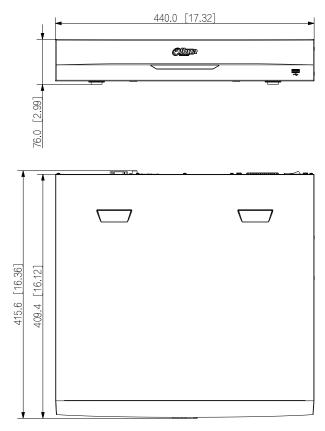
System	
Main Processor	Industrial-grade embedded processor
Operating System	Embedded Linux
Operation Interface	Web; local GUI
AI	
AI by Camera	Face detection; face recognition; perimeter protection; SMD Plus; ANPR; people counting; stereo analysis; heat map
Al by Device	Face detection; face recognition; perimeter protection; SMD Plus
Perimeter Protection	
Perimeter Performance AI by Device(Number of Channels)	2
Perimeter Performance of AI by Camera (Number of Channels)	8
Face Detection	
Face Attributes	6 attibutes: Gender; age group (6); glasses; expressions (8); mouth mask; beard
Face Detection Performance of AI by Device (1080P) (Number of Channels)	1 (up to 12 face images/second)
Face Detection Performance of Al by Camera (Number of Channels)	8
Face Recognition	
Face Database Capacity	Up to 10 face databases with 20,000 images
Face Recognition Performance of Al by Device (1080P) (Number of Channels)	1 (up to 4 face images/second)
Face Recognition Performance of AI by Camera (Number of Channels)	8
SMD Plus	
SMD Plus by Device	4
SMD Plus by Camera	16-channel SMD Plus (Al by camera): Detects tripwire and intrustion of human or vehicle; filters false alarms caused by leaves, raindrops and change of brightness away
ANPR	
ANPR by Camera	4
Video	
Access Channel	16 channels
Network Bandwidth	Al off: Access: 256 Mbps; Storage: 256 Mbps; Forward: 256 Mbps Al on: Access: 160 Mbps; Storage: 160 Mbps; Forward: 160 Mbps
Resolution	16MP; 12MP; 8MP; 5MP; 4MP; 3MP; 2MP; 720p; D1

Decoding Capability	Al off: 1 channel × 16MP@20 fps; 1 channel × 12MP@20 fps; 2 channels × 8MP@30 fps; 4 channels × 5MP@30 fps; 5 channels × 4MP@30 fps; 10 channels × 1080p@30 fps Al on: 1 channel × 16MP@20 fps; 1 channel × 12MP@20 fps; 2 channels × 8MP@30 fps; 3 channel × 5MP@30 fps; 4 channels × 4MP@30 fps; 8 channels × 1080p@30 fps	
Video Output	1-ch VGA output and 1-ch HDMI output; simultaneous/ heterogeneous video sources output for VGA and HDMI is configurable	
Multi-screen Display	1st Screen: 1/4/8/9/16 2nd Screen: 1/4/8/9	
Third Party Camera Access	Panasonic; Sony; Samsung; Axis, Pelco; Arecont; ONVIF; Canon; RTSP;	
Compression		
Video	Smart H.265+; Smart H.264+; H.265; H.264; MJPEG	
Audio	PCM; G.711A; G.711U; G.726	
Network		
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDNS; FTP; Alarm Server; IP Search P2P; auto register	
Mobile Phone Access	Android; iOS	
Interoperability	ONVIF(profile T/S/G); CGI; SDK	
Browser	Chrome; IE9 or later; firefox	
Record Playback		
Multi-channel Playback	Up to 16 channels	
Record Mode	Manual; schedule (general; MD; alarm; MD & alarm; intelligent)	
Storage Method	Local HDD; network	
Backup	USB device	
Playback Function	 Play; pause; stop; fast forward; fast backward; rewind; play by frame Full screen; backup (cut/file) ; partially enlarge; audio on/off 	
Alarm		
General Alarm	Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm	
Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception	
Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map	
Alarm Linkage	Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email	
External Port		
HDD	4 SATA ports, up to 10 TB. The maximum HDD capacity varies with environment temperature	
USB	1 front USB 2.0 port, 1 rear USB 3.0 ports	
HDMI	1 (max. resolution: 4K)	
VGA	1	
Network	1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet port	
PoE	16 × PoE ports	
RCA Input	1	

Lite Series | NVR302A-16-4KS2/L

RCA Output1Alarm Input66Alarm Output6Rs-2321 channel, used to debug and pass through serial dataRs-4851 channel, used to control PTZ, and it supports multiple protocolsGeneral Parameter1Power SupplySingle, 100 V-240 V AC, 50 Hz-60 HzPower Consumption10tal output power of PoE is 130 W, the maximum output power output power of POE is 130 W, the maximum output power output power output power output power output power ou		
Alarn Output6RS-2321 channel, used to debug and pass through serial dataRS-4851 channel, used to control PTZ, and it supports multiple protocolsGeneral Parameter5Power SupplySingle, 100 V-240 V AC, 50 Hz-60 HzPower ConsumptionTotal output of NVR is ≤ 10 W (without HDD) Total output of NVR is ≤ 10 W (without HDD) power of a single port is 25.5WNet Weight4.82 kg (13.77 lb)Product Dimensions7.09 kg (20.26 lb)Package Dimensions5.9.00 mm × 415.6 mm x 76.0 mm (17.32" × 16.36" × 2.99") (W × L × H)Poreating Conditions-10 °C to +55 °C (+10 °F to +131 °F)Operating Humidity10%-93%Storage Humidity10%-93%InstallationDesktop/Rack mountInstallationDesktop/Rack mountCieftificationsCieftY CFR FCC Part15, SubpartB, Class A, Sc2012; Pin 1010-3-32:013+A1:2019; Pin Sc303-22:013+A1:2019; Pin Sc303-22:0	RCA Output	1
Rs-132I channel, used to debug and pass through serial dataRS-2321 channel, used to control PTZ, and it supports multiple protocolsGeneral ParameterI channel, used to control PTZ, and it supports multiple protocolsPower SupplySingle, 100 V-240 V AC, 50 Hz-60 HzPower ConsumptionTotal output of NVR is < 10 W (without HDD) Total output power of Po Eis 130 W, the maximum output power of a single port is 25.5WNet Weight4.82 kg (13.77 lb)Gross Weight7.09 kg (20.26 lb)Product Dimensions\$29.0 mm × 415.6 mm × 76.0 mm (17.32" × 16.36" × 2.99") (W × L × H)Package Dimensions\$29.0 nm × 499.0 mm × 211.0 mm (20.83" × 19.65" × 9.31") (W × L × H)Operating Conditions-10 °C to +55 °C (+10 °F to +131 °F)Storage Conditions0 °C to +40 °C (32 °F to 104 °F)Operating Humidity30%-85%Operating Altitude3,000 m (9,843 ft)InstallationDesktop/Rack mountcertificationsCC:47 CFR FCC Part15,SubpartB,Class A CE-EMC:EN S503:2013;Class A,EN EIC 63000- 3-2:2019;EN 61000-3-3:2013+A1:2019;EN S5033:2017;EN S0130- 4:2011+A1:2014	Alarm Input	16
RS-485Interaction of the protocolsRS-4851 channel, used to control PTZ, and it supports multiple protocolsGeneral ParameterPower SupplySingle, 100 V-240 V AC, 50 Hz-60 HzPower ConsumptionTotal output of NVR is < 10 W (without HDD) Total output power of PoE is 130 W, the maximum output power of a single port is 25.5WNet Weight4.82 kg (13.77 lb)Gross Weight7.09 kg (20.26 lb)Product Dimensions29.90 mm × 499.0 mm × 76.0 mm (17.32" × 16.36" × 2.99") (W × L × H)Package Dimensions529.0 mm × 499.0 mm × 211.0 mm (20.83" × 19.65" × 9.31") (W × L × H)Operating Conditions-10 °C to +55 °C (+10 °F to +131 °F)Operating Humidity10%-93%Storage Humidity30%-85%Operating Altitude3,000 m (9,843 ft)InstallationDesktop/Rack mountCertifications $C_{C:47}^{C:RF FCC Part15,SubpartB,Class A}_{CS:ENS503:2013;EN S5003:3213;A1:2019;EN S5003:2017;EN S0130-4:2011+A1:2014$	Alarm Output	6
RS-485protocolsGeneral ParameterPower SupplySingle, 100 V-240 V AC, 50 Hz-60 HzPower ConsumptionTotal output of NVR is < 10 W (without HDD) Total output power of PoE is 130 W, the maximum output power of a single port is 25.5WNet Weight4.82 kg (13.77 lb)Gross Weight7.09 kg (20.26 lb)Product Dimensions240.0 mm × 415.6 mm × 76.0 mm (17.32" × 16.36" × 2.99") (W × L × H)Package Dimensions529.0 mm × 499.0 mm × 211.0 mm (20.83" × 19.65" × 9.31") (W × L × H)Operating Conditions-10 °C to +55 °C (+10 °F to +131 °F)Operating Humidity0%-93%Storage Humidity30%-85%Operating Altitude3,000 m (9,843 ft)InstallationDesktop/Rack mountFCC:47 CFR FCC Part15,SubpartB,Class A 55024:2010+A1:2015,EN 55035:2017;EN 50130- 4:2011+A1:2014	RS-232	1 channel, used to debug and pass through serial data
Power SupplySingle, 100 V–240 V AC, 50 Hz–60 HzPower ConsumptionTotal output of NVR is ≤ 10 W (without HDD) Total output power of PoE is 130 W, the maximum output power of a single port is 25.5WNet Weight4.82 kg (13.77 lb)Gross Weight7.09 kg (20.26 lb)Product Dimensions440.0 mm × 415.6 mm x 76.0 mm (17.32" × 16.36" × 2.99") (W × L × H)Package Dimensions529.0 mm × 499.0 mm × 211.0 mm (20.83" × 19.65" × 9.31") (W × L × H)Operating Conditions-10 °C to +55 °C (+10 °F to +131 °F)Storage Conditions0 °C to +40 °C (32 °F to 104 °F)Operating Humidity10%–93%Storage Humidity30%–85%Operating Altitude3,000 m (9,843 ft)InstallationDesktop/Rack mountFCC:47 CFR FCC Part15,Subpart8,Class A CE-EMC:EN 55032:2015,Class A;EN IEC 61000- 3-2:2019;EN 65003-:3:2013+A1:2019;EN S5035:2017;EN S0130- 4:2011+A1:2014	RS-485	
Power ConsumptionTotal output of NVR is \$ 10 W (without HDD) Total output power of PoE is 130 W, the maximum output power of a single port is 25.5WNet Weight4.82 kg (13.77 lb)Gross Weight7.09 kg (20.26 lb)Product Dimensions440.0 mm × 415.6 mm x 76.0 mm (17.32" × 16.36" × 2.99") (W × L × H)Package Dimensions529.0 mm × 499.0 mm × 211.0 mm (20.83" × 19.65" × 9.31") (W × L × H)Operating Conditions-10 °C to +55 °C (+10 °F to +131 °F)Storage Conditions0 °C to +40 °C (32 °F to 104 °F)Operating Humidity10%-93%Storage Humidity30%-85%Operating Altitude3,000 m (9,843 ft)InstallationDesktop/Rack mountCertificationsFCC:47 CFR FCC Part15,Subpart8,Class A CE-EMC:EN 55032:2015,Class A,FEN IEC 61000- S5024:2010+A1:2015,EN 55035:2017;EN S0130- 4:2011+A1:2014	General Parameter	
Power ConsumptionTotal output power of PoE is 130 W, the maximum output power of a single port is 25.5WNet Weight4.82 kg (13.77 lb)Gross Weight7.09 kg (20.26 lb)Product Dimensions440.0 mm × 415.6 mm x 76.0 mm (17.32" × 16.36" × 2.99") (W × L × H)Package Dimensions529.0 mm × 499.0 mm × 211.0 mm (20.83" × 19.65" × 9.31") (W × L × H)Operating Conditions-10 °C to +55 °C (+10 °F to +131 °F)Storage Conditions0 °C to +40 °C (32 °F to 104 °F)Operating Humidity10%-93%Operating Altitude3,000 m (9,843 ft)InstallationDesktop/Rack mountFCC:47 CFR FCC Part 15,Subpart B,Class A 5-22019;EN 65003:2017;EN S0130- 4:2011+A1:2014	Power Supply	Single, 100 V–240 V AC, 50 Hz–60 Hz
Arrow of the second s	Power Consumption	Total output power of PoE is 130 W, the maximum output
Product Dimensions440.0 mm × 415.6 mm × 76.0 mm (17.32" × 16.36" × 2.99") (W × L × H)Package Dimensions529.0 mm × 499.0 mm × 211.0 mm (20.83" × 19.65" × 9.31") (W × L × H)Operating Conditions-10 °C to +55 °C (+10 °F to +131 °F)Storage Conditions0 °C to +40 °C (32 °F to 104 °F)Operating Humidity10%-93%Operating Altitude30%-85%Operating Altitude500 m (9.843 ft)InstallationDesktop/Rack mountCertificationsFCC:47 CFR FCC Part15, SubpartB,Class A, CE-EMC:EN 55032:2015, Class A, SEN IEC 61000- 3-2:2019; EN 61000-3-3:2013+A1:2019; EN S5034- 2:2011+A1:2014	Net Weight	4.82 kg (13.77 lb)
Product Dimensions2.99") (W × L × H)Package Dimensions529.0 mm × 499.0 mm × 211.0 mm (20.83" × 19.65" × 9.31") (W × L × H)Operating Conditions-10 °C to +55 °C (+10 °F to +131 °F)Storage Conditions0 °C to +40 °C (32 °F to 104 °F)Operating Humidity10%–93%Storage Humidity30%–85%Operating Altitude3,000 m (9,843 ft)InstallationDesktop/Rack mountCertificationsFCC:47 CFR FCC Part15,SubpartB,Class A, FCE-EMC:EN 5503:2015,Class A, EN IEC 61000- 3-2:2019;EN 61000-3-3:2013+A1:2019;EN 55035:2017;EN 50130- 4:2011+A1:2014	Gross Weight	7.09 kg (20.26 lb)
Package Dimensions9.31") (W × L × H)Operating Conditions-10 °C to +55 °C (+10 °F to +131 °F)Storage Conditions0 °C to +40 °C (32 °F to 104 °F)Operating Humidity10%-93%Storage Humidity30%-85%Operating Altitude3,000 m (9,843 ft)InstallationDesktop/Rack mountCertificationsFCC:47 CFR FCC Part15,SubpartB,Class A CS-22019;EN 61000-3-3:2013+A1:2019;EN S5034:2017;EN S0130- 4:2011+A1:2014	Product Dimensions	
Storage Conditions0 °C to +40 °C (32 °F to 104 °F)Operating Humidity10%–93%Storage Humidity30%–85%Operating Altitude3,000 m (9,843 ft)InstallationDesktop/Rack mountCertificationsFCC:47 CFR FCC Part15,SubpartB,Class A, FCE-EMC:EN 55032:2015,Class A, EN IEC 61000- 3-2:2019;EN 61000-3-3:2013+A1:2019;EN S5024:2010+A1:2015;EN S5035:2017;EN S0130- 4:2011+A1:2014	Package Dimensions	
Operating HumidityI0%-93%Storage Humidity30%-85%Operating Altitude3,000 m (9,843 ft)InstallationDesktop/Rack mountCertificationsFCC:47 CFR FCC Part 15,Subpart B,Class A, EN IEC 61000-3:2013;EN 15032:2015,Class A;EN IEC 61000-3:2013;EN 15032:2017;EN 50130-4:2011+A1:2014	Operating Conditions	–10 °C to +55 °C (+10 °F to +131 °F)
Storage Humidity30%-85%Operating Altitude3,000 m (9,843 ft)InstallationDesktop/Rack mountCertificationsFCC:47 CFR FCC Part15,SubpartB,Class A CE-EMC:EN 55032:2015,Class A;EN IEC 61000- 3-2:2019;EN 61000-3-3:2013+A1:2019;EN S5024:2010+A1:2015;EN 55035:2017;EN 50130- 4:2011+A1:2014	Storage Conditions	0 °C to +40 °C (32 °F to 104 °F)
Operating Altitude3,000 m (9,843 ft)InstallationDesktop/Rack mountCertificationsFCC:47 CFR FCC Part15,SubpartB,Class A CE-EMC:EN 55032:2015,Class A;EN IEC 61000- 3-2:2019;EN 51000-3-3:2013+A1:2019;EN 55024:2010+A1:2015;EN 55035:2017;EN 50130- 4:2011+A1:2014	Operating Humidity	10%-93%
InstallationDesktop/Rack mountCertificationsFCC:47 CFR FCC Part15,SubpartB,Class A CE-EMC:EN 55032:2015,Class A;EN IEC 61000- 3-2:2019;EN 61000-3-3:2013+A1:2019;EN 55024:2010+A1:2015;EN 55035:2017;EN 50130- 4:2011+A1:2014	Storage Humidity	30%-85%
Certifications FCC:47 CFR FCC Part15,SubpartB,Class A CE-EMC:EN 55032:2015,Class A;EN IEC 61000- 3-2:2019;EN 61000-3-3:2013+A1:2019;EN 55024:2010+A1:2015;EN 55035:2017;EN 50130- 4:2011+A1:2014	Operating Altitude	3,000 m (9,843 ft)
CE-EMC:EN 55032:2015,Class A;EN IEC 61000- 3-2:2019;EN 61000-3-3:2013+A1:2019;EN 55024:2010+A1:2015;EN 55035:2017;EN 50130- 4:2011+A1:2014	Installation	Desktop/Rack mount
	Certifications	CE-EMC:EN 55032:2015,Class A;EN IEC 61000- 3-2:2019;EN 61000-3-3:2013+A1:2019;EN 55024:2010+A1:2015;EN 55035:2017;EN 50130- 4:2011+A1:2014

Dimensions (mm[inch])



Panels

