

## DHI-NVR4816/4832-16P-4KS2

16/32 Channel 2U 16PoE 4K&H.265 Lite Network Video Recorder



- · H.265/H.264 codec decoding
- · Max 200Mbps Incoming Bandwidth
- Up to 8MP Resolution for Preview and Playback
- · HDMI/VGA simultaneous video output
- Support IPC UPnP, 16PoE ports
- Support ANR technology to enhance the storage reliability when the network break down













## **System Overview**

Dahua's NVR4000-4KS2 is the first Lite series NVRs which can support 4K and H.265. And, it has the most reasonable price and best quality. This Lite NVR provides up to 8MP resolution. For applications where details are critical for identification, it provides a powerful image performace with up to 4K resolution. Additionally, the NVR features a mouse shortcut operation menu, remote management and control, centre storage, edge storage, and back up storage.

Designed as a cost-effective, easy installation, this NVR is ideal for a wide range of applications such as public safety, water conservancy, transportation, city centers, education, and financial institutions.

The NVR is compatible with numerous third-party devices making it the perfect solution for surveillance systems with or without a video management system (VMS). Its open architecture supports multi-user access and is compatible with ONVIF 2.4, enabling interoperability when combined with IP cameras.

## **Functions**

4K Resolution

The NVR supports 4K ultra HD resolution (3840 x 2160) for recording, live viewing and playback.

Intelligent Video System (Optional)

Working with built-in intelligent video analytics IP cameras, the NVR has the ability to detect and analyze moving objects for improved video surveillance. The NVR 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, People Counting, ideal for business intelligence, and Face Detection, for searching or identification of individuals.

Smart Add

With the Smart Add function, the installation of IP system is as easy as an analog system, no matter the NVR with or withou a PoE switch embedded. It should be noted that the NVR has to be in the same router as cameras.

ANR (Automatic Network Replenishment Technology)

Video record in SD card in IP cameras when the network breaks down, and after the network recovered, the video will be transferred to NVR and then recorded in it.

Easy4ip

You can monitor at anytime and anywhere with Easy4ip. With this function, you can manage your devices more convenient.



Page				
All American   Comment	<b>Technical Specification</b>		Audio and Video	
Display	System		IP Camera Input	16/32 Channel
Display	Main Processor	Quad-core embedded processor	Two-way Talk	1 Channel Input, 1 Channel Output, RCA
Interface   1 MoMi, 1 VoGA   Resolution   SIMply (SMp) 1980P) 1380P) 1380P) 1380P) 1280P 1220P	Operating System	Embedded LINUX	Recording	
Interface 1 FMM, 196A   Second Final   Second Final	Display		Compression	H.265/H.264
Multi screen Display  1/A/R/36/16  Sobies  All Secretary Support  1/A/R/36/16  Sobies  Amount Scheduler (Regular, Continuous), MD (Video Detection and Alarm  1/1/28/16  Motion detection, Recording  1/1/28/26/16  Provideo Detection and Alarm  1/1/28/26/16  Motion Detection, MD (Alarm out, Video Push, Email, FTP, Supphish, Ruszer & Screen tips  1/1/28/26/16  Alarm Input  1/28/26/26/26/26/26/26/26/26/26/26/26/26/26/	Interface	1 HDMI, 1 VGA	Resolution	
OSD Camera Itile, Time, Video loss, Camera lock, Motion detection, Recording Video Detection and Alarm Trigger Events Recording, PTZ, Tour, Alarm out, Video Push, Email, FTP, Shaphol, Buzzer & Screen tips Video Detection Motion Detection, Mozones: 396(22-18), Video Loss & Tampering Motion Detection, Mozones: 396(22-18), Video Loss & Tampering Alarm input Je Channel, Low Level Effective, Green Termial Interface Relay Output A Channel, NO/NC Programmable, Green Termial Interface Relay Output A Channel, NO/NC Programmable, Green Termial Interface Relay Output A Channel, No/NC Programmable, Green Termial Interface Relay Output A Channel, No/NC Programmable, Green Termial Interface Relay Output A Channel, No/NC Programmable, Green Termial Interface Relay Output A Channel, No/NC Programmable, Green Termial Interface Relay Output A Channel, No/NC Programmable, Green Termial Interface Relay Output A Channel, No/NC Programmable, Green Termial Interface  I Sp Jorts (EEE802 Jas/At) HTTP, HTTPS, TCP/IP, IPvA/IPv6, UPPR, RTSP, UDP, SMTR, NTP, DHCP, DNS, IPFRer, PPPCE, DDNS, FTP, IPSCANC (Support Dishus) Programmable, Intercoperability Record Interval  I 1-30 min (sefault so min), Pro-record: 1 R1-45 Port(10/100/1000Mbps) Interface  I R1-45 Port(10/100/1000Mbps) Interface I R1-45	Resolution		Record Rate	200Mbps
Camera title, Time, Video lost, Camera lock, Mode	Multi-screen Display	1/4/8/9/16	Bit Rate	16Kbps ~ 20Mbps Per Channel
Trigger Events Recording, PTZ, Tour, Alarm out, Video Push, Email, FTP, Snapshot, Buzzer & Screen Hips Video Detection Loss & Tampering Low Level Effective, Green Terminal Interface Loss & Tampering Low Level Effective, Green Terminal Interface Relay Output 4 Channel, Mo/Mc Programmable, Green Terminal Interface Playback and Backup Playback and Backup Playback and Backup Playback and Green Terminal Interface Playback and Backup Playback and Green Terminal Interface Playback Interface Playback Event Careary Playback Function Playback Function Playback Function Playback Function Play Pause, Stop, Rewind, Fast play, Slow Play, Need File, Previous File, Next Carriers, Previous Carriers, Previ	OSD		Record Mode	(Video detection: Motion Detection, Tampering,
Trigger Events   Recording, PTZ, Tour, Alarm out, Video Push, Email, FTP, Snapshob, Buzer & Screen tips	Video Detection and Ala	rm	Record Interval	1 ~ 120 min (default: 60 min), Pre-record:
NetWork  Network  Alarm input  Alarm input  A Channel, No/Nc Programmable, Green Terminal Interface  Playback and Backup  Playback and Backup  Playback  Immediate  Immediate  Immediate  Immediate  Interface  I	Trigger Events		necord mervar	1~30 sec, Post-record: 10~300 sec
Alarm Input  16 Channel, Low Level Effective, Green Terminal Interface  Relay Output  4 Channel, No/Ke Programmable, Green Terminal Interface  Playback and Backup  Playback and Backup  Playback and Backup  Playback interface  17/8/16  Search Mode  17/8/16  Search Mode  18/8/16  Max. User Access  128 users  Smart Phone  19hone, iPad, Android  Play, Pause, Stop, Revind, Fast play, Slow Play, New, Fife, Previous Effe, Pet Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom  Backup Mode  USB Device/Network  Power Supply  AC100V ~ 240V, 50 ~ 60 Hz  Storage  Internal HDD  8 SATA III Port, Up to 6 TB capacity for each HDD  Power Consumption  Power Consumption  Power Consumption  Power Consumption  Power Consumption  Power Supply  AC100V ~ 240V, 50 ~ 60 Hz  NNR: <14.1W (Without HDD)  PoE: Max 25.5w for single port, 150w in total  Environmental  Storage Conditions  10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa  Auxiliary Interface  USB  3 USB Ports (2 USB2.0, 1 USB3.0)  RS232  1 Port, for PC Communication and Keyboard  USB  1 Port, for PTZ Control  Third-party Support  Oahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, and more  CE  Ethernet Port  1 Independent 1000Mbps Ethernet Port  1 Independent 1000Mbps  Internet Port  1 Independent 1000Mbps  Internet Port  1 Interpoper Data Purple, Pope, Durple, Pope, Durple, Dur	Video Detection		Network	
Relay Output 4 Channel, NO/NC Programmable, Green Terminal Interface	Video Detection		Interface	1 RJ-45 Port(10/100/1000Mbps)
Playback and Backup  Playback and Backup  Playback  1/A/8/16  Search Mode  1/A/8/16  Search	Alarm input		Ethernet Port	1 Independent 1000Mbps Ethernet Port
Playback 1/4/8/16  Search Mode Time/Date, Alarm, MD & Exact search (accurate to second), Smart search (accurate second), Smart search	Relay Output		PoE	16 ports (IEEE802.3af/at)
Playback  1/4/8/16  Search Mode  Time/Date, Alarm, MD & Exact search (accurate to second), Smart Phone (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  B SATA III Port, Up to 6 TB capacity for each HDD  HDD Mode  Single  Environmental  Storage Conditions  -10°C ~+55°C (+14°F ~+131°F), 86 ~ 106kpa  Auxiliary Interface  USB  3 USB Ports (2 USB2.0, 1 USB3.0)  RS232  1 Port, for PC Communication and Keyboard  Dimensions  2U, 440mmx450.1mmx95mm (1.73° x 1.7°)  RS485  1 Port, for PTZ Control  Net Weight  5.4kg (11.9 lb) (without HDD)  Third-party Support  Certifications  CE  EN55032, EN55024, EN50130-4, EN60950-1	Playback and Backup			
Search Mode   Gaccurate to second), Smart search   Smart Phone   IPhone, IPad, Android	Playback	1/4/8/16	Network Function	
Playback Function  Playback Function  Playback Function  Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom  Backup Mode  USB Device/Network  Electrical  Power Supply  AC100V ~ 240V, 50 ~ 60 Hz  NVR: <14.1W (Without HDD)  PoE: Max 25.5w for single port, 150w in total  HDD Mode  Single  Environmental  esATA  N/A  Operating Conditions  Just ~ +155°C (+14°F ~ +131°F), 86 ~ 106kpa  Auxiliary Interface  USB  3 USB Ports (2 USB2.0, 1 USB3.0)  RS232  1 Port, for PC Communication and Keyboard  Dimensions  1 Port, for PC Communication and Keyboard  Dimensions  Dimensions  2 U, 440mm×450.1mm×95mm (17.3" x 17.7" x 3.7")  RS485  1 Port, for PTZ Control  Third-party Support  Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, and more  CE  ENS5032, ENS5024, ENS0130-4, EN60950-1	Search Mode		Max. User Access	128 users
Previous Camera, Full Screen, Repeat, Shuffle, Backup Mode  USB Device/Network  Power Supply  AC100V ~ 240V, 50 ~ 60 Hz  NVR: <14.1W (Without HDD)  Poe: Max 25.5w for single port, 150w in total  HDD Mode  Single  Environmental  esATA  N/A  Operating Conditions  To*C ~ +55*C (+14*F ~ +131*F), 86 ~ 106kpa  Auxiliary Interface  USB  3 USB Ports (2 USB2.0, 1 USB3.0)  RS232  1 Port, for PC Communication and Keyboard  Third-party Support  Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Pelco, Samsung, Sanyo, Sony, Videotec, and more  LSB  DIMERICAN  DIMERICAN  CE  NONIF 2.4, CGI Conformant  Electrical  NVR: <14.1W (Without HDD)  Poe: Max 25.5w for single port, 150w in total  NVR: <14.1W (Without HDD)  Poe: Max 25.5w for single port, 150w in total  Nort ~ +55*C (+14*F ~ +131*F), 86 ~ 106kpa  -10*C ~ +55*C (+14*F ~ +131*F), 86 ~ 106kpa  -20*C ~ +70*C (-4*F ~ +158*F), 0 ~ 90% RH  Construction  Electrical  Nort ~ +55*C (+14*F ~ +131*F), 86 ~ 106kpa  -20*C ~ +70*C (-4*F ~ +158*F), 0 ~ 90% RH  Construction  Power Supply  AC100V ~ 240V, 50 ~ 60 Hz  NVR: <14.1W (Without HDD)  Poe: Max 25.5w for single port, 150w in total  Environmental  Construction  Diver ~ +55*C (+14*F ~ +131*F), 86 ~ 106kpa  -20*C ~ +70*C (-4*F ~ +158*F), 0 ~ 90% RH  Construction  Dimensions  21, 440mm×450.1mm×95mm (17.3" × 17.7" × 3.7")  RS485  1 Port, for PTZ Control  Net Weight  Gross Weight  Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Pelco, Samsung, Sanyo, Sony, Videotec, and more  CE  ENS5032, ENS5024, EN50130-4, EN60950-1	Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle,	Smart Phone	iPhone, iPad, Android
Backup Mode  USB Device/Network  Power Supply  AC100V ~ 240V, 50 ~ 60 Hz  NVR: <14.1W (Without HDD)  PoE: Max 25.5w for single port, 150w in total  Environmental  Environmental  Environmental  Environmental  Storage Conditions  Auxiliary Interface  USB  3 USB Ports (2 USB2.0, 1 USB3.0)  RS232  1 Port, for PC Communication and Keyboard  Third-party Support  Third-party Support  Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, and more  Environmental  Environmental  Environmental  Environmental  Construction  Construction  Dimensions  2U, 440mmx450.1mmx95mm (17.3" x 17.7" x 3.7")  Net Weight  5.4kg (11.9 lb) (without HDD)  Gross Weight  9.5kg(20.9 lb)(without HDD)  Certifications  CE  EN55032, EN55024, EN50130-4, EN60950-1			Interoperability	ONVIF 2.4, CGI Conformant
Storage Internal HDD 8 SATA III Port, Up to 6 TB capacity for each HDD  ### HDD Mode  ### Single  ### Environmental  ### Doperating Conditions  ### Power Consumption  ### Power Consum	Backup Mode		Electrical	
Internal HDD  8 SATA III Port, Up to 6 TB capacity for each HDD  Power Consumption  Power Consumption  Poer Max 25.5w for single port, 150w in total  Environmental  Operating Conditions  -10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa  Auxiliary Interface  USB  3 USB Ports (2 USB2.0, 1 USB3.0)  RS232  1 Port, for PC Communication and Keyboard  RS485  1 Port, for PTZ Control  Third-party Support  Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, and more  Power Consumption  Poer Max 25.5w for single port, 150w in total  Environmental  Construction  Construction  Dimensions  2-0°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH  Construction  Dimensions  2U, 440mm×450.1mm×95mm (17.3" × 17.7" × 3.7")  Net Weight  5.4kg (11.9 lb) (without HDD)  Certifications  Certifications  CE  EN55032, EN55024, EN50130-4, EN60950-1		SSS SCHOOL NOTE	Power Supply	AC100V ~ 240V, 50 ~ 60 Hz
Internal HDD  8 SATA III Port, Up to 6 TB capacity for each HDD  HDD Mode  Single  Environmental  Operating Conditions  -10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa  Auxiliary Interface  USB  3 USB Ports (2 USB2.0, 1 USB3.0)  RS232  1 Port, for PC Communication and Keyboard  RS485  1 Port, for PTZ Control  Third-party Support  Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, and more  Environmental  Environmental  Environmental  Construction  Dimensions  -20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH  Construction  Dimensions  2U, 440mm×450.1mm×95mm (17.3" × 17.7" × 3.7")  Net Weight  5.4kg (11.9 lb) (without HDD)  Gross Weight  9.5kg(20.9 lb)(without HDD)  Certifications  CE  EN55032, EN55024, EN50130-4, EN60950-1	Storage		Power Consumption	NVR: <14.1W (Without HDD)
eSATA N/A Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa  Auxiliary Interface Storage Conditions -20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH  USB 3 USB Ports (2 USB2.0, 1 USB3.0) Construction  RS232 1 Port, for PC Communication and Keyboard Dimensions 2U, 440mm×450.1mm×95mm (17.3" x 17.7" x 3.7")  RS485 1 Port, for PTZ Control Net Weight 5.4kg (11.9 lb) (without HDD)  Third-party Support Gross Weight 9.5kg(20.9 lb)(without HDD)  Third-party Support Certifications  Certifications  CE EN55032, EN55024, EN50130-4, EN60950-1	Internal HDD	8 SATA III Port, Up to 6 TB capacity for each HDD	·	PoE: Max 25.5w for single port, 150w in total
Auxiliary Interface  USB 3 USB Ports (2 USB2.0, 1 USB3.0)  RS232 1 Port, for PC Communication and Keyboard  RS485 1 Port, for PTZ Control  Third-party Support  Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, and more  Storage Conditions  -20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH  Construction  Dimensions  2U, 440mm×450.1mm×95mm (17.3" × 17.7" × 3.7")  Net Weight  5.4kg (11.9 lb) (without HDD)  Gross Weight  9.5kg(20.9 lb)(without HDD)  Certifications  CE  EN55032, EN55024, EN50130-4, EN60950-1	HDD Mode	Single	Environmental	
USB 3 USB Ports (2 USB2.0, 1 USB3.0) Construction  RS232 1 Port, for PC Communication and Keyboard Dimensions 2U, 440mm×450.1mm×95mm (17.3" x 17.7" x 3.7")  RS485 1 Port, for PTZ Control Net Weight 5.4kg (11.9 lb) (without HDD)  Third-party Support Gross Weight 9.5kg(20.9 lb)(without HDD)  Third-party Support Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, and more CE EN55032, EN55024, EN50130-4, EN60950-1	eSATA	N/A	Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa
RS232 1 Port, for PC Communication and Keyboard Dimensions 2U, 440mm×450.1mm×95mm (17.3" x 17.7" x3.7")  RS485 1 Port, for PTZ Control Net Weight 5.4kg (11.9 lb) (without HDD)  Third-party Support Gross Weight 9.5kg(20.9 lb)(without HDD)  Third-party Support Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, and more CE EN55032, EN55024, EN50130-4, EN60950-1	Auxiliary Interface		Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH
RS485 1 Port, for PTZ Control Net Weight 5.4kg (11.9 lb) (without HDD)  Third-party Support Gross Weight 9.5kg(20.9 lb)(without HDD)  Third-party Support Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, and more CE EN55032, EN55024, EN50130-4, EN60950-1	USB	3 USB Ports (2 USB2.0, 1 USB3.0)	Construction	
Third-party Support  Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, and more  CE  S.4kg (11.9 lb) (without HDD)  Gross Weight  9.5kg(20.9 lb)(without HDD)  Certifications  CE  EN55032, EN55024, EN50130-4, EN60950-1	RS232	1 Port, for PC Communication and Keyboard	Dimensions	
Third-party Support  Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, and more  CE  EN55032, EN55024, EN50130-4, EN60950-1	RS485	1 Port, for PTZ Control	Net Weight	5.4kg (11.9 lb) (without HDD)
Third-party Support  Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, and more  CE  EN55032, EN55024, EN50130-4, EN60950-1	Third-party Support		Gross Weight	9.5kg(20.9 lb)(without HDD)
Pelco, Samsung, Sanyo, Sony, Videotec, and more CE EN55032, EN55024, EN50130-4, EN60950-1	Third-party Support	Canon, CP Plus, Dynacolor, Honeywell, Panasonic,	Certifications	
FCC Part 15 Subpart B, ANSI C63.4-2014			CE	EN55032, EN55024, EN50130-4, EN60950-1
			FCC	Part 15 Subpart B, ANSI C63.4-2014

UL60950-1+CAN/CSA C22.2 No.60950-1

Ordering Information				
Туре	Part Number	Description		
16 Channel NVR	DHI-NVR4816-16P- 4KS2	16 Channel 2U 16PoE 4K&H.265 Lite Network Video Recorder		
32 Channel NVR	DHI-NVR4832-16P-4KS2	32 Channel 2U 16PoE 4K&H.265 Lite Network Video Recorder		
Accessories	N/A	N/A		

## Dimensions (mm) 440 450.13

