

# DHI-NVR4104/4108/4116-4KS2

4/8/16 Channel Smart 1U 4K&H.265 Lite Network Video Recorder



- H.265/H.264 codec decoding
- Max 80Mbps Incoming Bandwidth
- Up to 8MP Resolution for Preview and Playback
- Up to 2ch@4K/8ch@1080P decoding
- HDMI/VGA simultaneous video output



### System Overview

Dahua NVR4000-4KS2 is introduced as the first Lite series NVR that supports for 4K and H.265 encoding technology with excellent performance at an affordable price. For applications where image details are highly required, it delivers the capability of 4K resolution processing. The NVR can be served as edge storage, central storage or backup storage with an intuitive shortcut operation menu for remote management and control.

Due to its cost-effective and easy-to-install design, 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 that work independently of video management system (VMS). It features an open architecture that supports for multi-user access and is compatible with ONVIF 2.4 protocol, enabling interoperability with IP cameras.

### Functions

### 4K Resolution

4K resolution is a revolutionary breakthrough in image processing technology. 4K delivers four times the resolution of standard HDTV 1080p cameras and offers superior picture quality and image details. 4K resolution improves the clarity of a magnified scene to view or record crisp forensic video from large areas.

### High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

### Intelligent Video System(IVS)

Working with IVS-enabled IP cameras, the NVR recognizes and records video that contains IVS data on all IP channels. The NVR records standard intelligence at-the-edge features, as well as premium IVS features that detect abandoned or missing objects, Tripwire violations, and intrusion violations. The NVR is also capable of recording business analysis data – Facial Detection, People Counting, and Heat Map – from IP cameras with built-in Intelligent Business Analytics.

ANR (Automatic Network Replenishment Technology)

Network Video Recorders with the ANR function automatically store video data on an IP camera SD card when the network is disconnected. After recovery of the network, the NVR automatically retrieves the video data stored on the camera.

#### Easy4ip

The Easy4ip app is available on the iOS App Store and Google Play. It makes surveillance easy and simple, allowing you to remotely access NVR devices, view live video, receive event push notifications, and search for recorded videos from an iPhone, iPad, or Android phone at anytime from virtually anywhere!



# Lite Series | DHI-NVR4104/4108/4116-4KS2

# **Technical Specification**

### System

0,000		
Main Processor	Quad-core embedded processor	
Operating System	Embedded LINUX	
Aduio and Video		
IP Camera Input	4/8/16 Channel	
Two-way Talk	1 Channel Input, 1 Channel Output, RCA	
Display		
Interface	1 HDMI, 1 VGA	
Resolution	HDMI: 3840×2160, 1920×1080, 1280×1024, 1280×720	
	VGA: 1920×1080, 1280×1024, 1280×720	
Decoding Capacity	2ch@4K(30fps)/8ch@1080P(30fps)	
Multi-screen Display	4CH: 1/4	
	8CH: 1/4/8/9	
	16CH: 1/4/8/9/16	
OSD	Camera title, Time, Camera lock, Motion detection, Recording	
Recording		
Compression	H.265/ H.264	
Resolution	8Mp/ 6Mp/ 5MP/ 4MP/ 3MP/ 1080P/ 1.3MP/ 720P etc.	
Record Rate	80Mbps	
Bit Rate	16Kbps ~ 20Mbps Per Channel	
Record Mode	Manual, Schedule (Regular, Continuous), MD (Video detection: Motion Detection, Tampering, Video Loss), Stop	
Record Interval	1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec	

Video Detection and Alarm

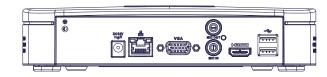
Trigger Events	Recording, PTZ, Tour, Video Push, Email, Snapshot, Buzzer and Screen Tips	
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering	
Alarm input	N/A	
Relay Output	N/A	
Playback and Backup		
Playback	4CH: 1/4	
	8CH: 1/4/9	
	16CH: 1/4/9/16	
Search Mode	Time /Date, MD and Exact Search (accurate to second), Smart search	
Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection, Digital Zoom	
Backup Mode	USB Device/Network	

Third-party Support	
Third-party Support	Arecont Vision, Airlive, AXIS, Canon, Dynacolor, JVC, LG, Panasonic, Pelco, PSIA, Samsung, Sanyo, Sony, Watchnet and more
Network	
Interface	1 RJ-45 Port (10/100Mbps)
Ethernet Port	1 Independent 100Mbps Ethernet Port
РоЕ	N/A
Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, SNMP, IP Search (Support Dahua IP camera, DVR, NVS, etc.), Easy4ip
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android
Interoperability	ONVIF 2.4, SDK, CGI
Storage	
Internal HDD	1 SATA III Port, Up to 6 TB capacity for each HDD
HDD Mode	Single
Auxiliary Interface	
USB	2 ports(1 Rear USB2.0, 1 Front USB2.0)
RS232	N/A
RS485	N/A
Electrical	
Power Supply	DC12V/2A
Power Consumption	<6.3W (Without HDD)
Environmental	
Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa
Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH
Construction	
Dimensions	Smart 1U, 204.6mm×204.6mm×45.6mm (8.1" x 8.1" x 1.8")
Net Weight	0.4kg (0.88 lb) (without HDD)
Gross Weight	1.5kg(3.31 lb)(without HDD)
Certifications	
CE	EN55032, EN55024, EN50130-4, EN60950-1
FCC	Part 15 Subpart B, ANSI C63.4-2014
UL	UL60950-1

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Ordering Information			
Туре	Part Number	Description	
4 Channel NVR	DHI-NVR4104-4KS2	4 Channel Smart 1U 4K&H.265 Lite Network Video Recorder	
8 Channel NVR	DHI-NVR4108-4KS2	8 Channel Smart 1U 4K&H.265 Lite Network Video Recorder	
16 Channel NVR	DHI-NVR4116-4KS2	16 Channel Smart 1U 4K&H.265 Lite Network Video Recorder	

## Rear Panel



### **Dimensions (mm)**

