

# DHI-N220104-P-4KS4

4CH Smart 1U 4PoE 1HDD Lite Network Video Recorder



#### **Series Overview**

The NVR2000-4KS3 model of the Lite Series NVR is favored for its outstanding performance. It supports 4K resolution for scenes that require highly detailed images, and can serve as the edge, central, or backup storage with an intuitive shortcut menu for remote management and control. This NVR also features Smart Motion Detection (SMD) by recorder, which can distinguish target vehicles and humans from ordinary ones in real-time. This NVR is both cost-effective and easy-to-install, making it ideal for a wide range of applications such as villas, shops and other small and medium-sized scenes.

## **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.

## **Perimeter Protection by Camera**

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

- Supports Smart H.265+, H.265, Smart H.264+, H.264 and MJPEG decoding formats.
- Max. decoding capability: 6 x 1080p@30 fps.
- Max. 80/80/60 Mbps incoming/recording/outgoing bandwidth.
- Supports IP cameras with a resolution up to 12 MP.
- · AI by Recorder supports 4-channel SMD Plus.
- · Al by Camera supports perimeter protection and SMD Plus.
- Supports one-click arming and disarming.







## **Technical Specification**

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Main Processor	Industrial-grade processor
Operating System	Embedded Linux
Operating Interface	Web, Local GUI

## ΑI

Al by Recorder	SMD Plus
AI by Camera	Perimeter protection; SMD Plus

## Perimeter Protection

Perimeter Performance of Al by Camera (Number of Channels)	4 channels
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#### SMD Plus

SMD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change
SMD Plus by Camera	4 channels

## Audio and Video

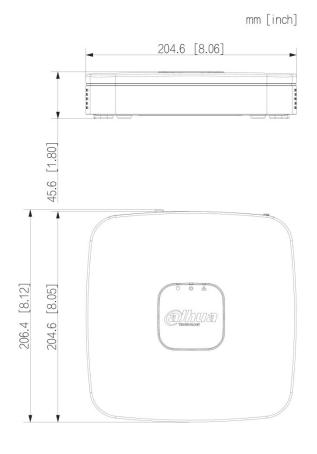
Access Channel	4 channels
Network Bandwidth	80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing
Resolution	12 MP; 8 MP; 5 MP; 4 MP; 3 MP; 1080p; 720p; D1
Decoding Capability	Al disabled: 1-channel 12 MP@30 fps; 1-channel 8 MP@30 fps; 2-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 6-channel 1080p@30 fps Al enabled: 1-channel 8 MP@30 fps; 1-channel 5 MP@30 fps; 2-channel 4 MP@30 fps; 4-channel 1080p@30 fps

Video Output	1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	
Multi-screen Display	1/4	
Third-party Camera Access	ONVIF	
Compression Standar	rd	
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	
Audio Compression	G.711a; G.711u; PCM; G726;	
Network		
Network		
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCP; DNS; SMTP; IP Filter; DDNS; IP Search (Supports IP camera, DVR, NVS, etc.); P2P; Auto Registration	
Mobile Phone Access	iOS; Android	
Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK	
Browser	Chrome; IE; Safari; Edge; Firefox	
Recording Playback		
Multi-channel Playback	Up to 4 channels	
Record Mode	General, motion detection; intelligent; alarm	
Backup Method	USB device and network	
Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback	
Alarm		
General Alarm	Motion detection; camera external alarm; PIR alarm	
Anomaly Alarm	Error (no disk, disk error, low space, low quota space; network disconnection; IP conflict; MAC conflict); video loss; video tampering; camera offline	
Intelligent Alarm	Perimeter protection; SMD Plus	
Alarm Linkage	Recording; snapshot; buzzer; log; preset; email; tour	
Port		
Audio Input	1-channel RCA	
Audio Output	1-channel RCA	
Alarm Input	NA (2 channels are optional)	
Alarm Output	NA (1-channel 12 V 1 A output is optional)	
HDD Interface	1 SATA port. Each disk can contain up to 20 TB. this limit varies depending on the environment temperature.	
USB	2 (2 rear USB 2.0 ports)	
HDMI	1	
VGA	1	
Network Port	1 (10/100 Mbps Ethernet port, RJ-45)	
PoE Port	4 ports, 10/100 Mbps, IEEE 802.3 af/at	
General		
Power Supply	53 V DC, 1.22 A	
Power Consumption	Total output of NVR is <10 W (without HDD) Total output power of PoE is 36 W, the maximum output power of a single port is 25.5 W	

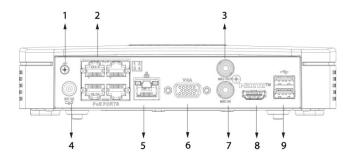
Net Weight	0.48 kg (1.06 lb)
Gross Weight	1.42 kg (3.13 lb)
Product Dimensions	204.6 mm <b>x</b> 206.4 mm <b>x</b> 45.6 mm(8.06" <b>x</b> 8.12" <b>x</b> 1.80") (W <b>x</b> D <b>x</b> H)
Packaging Dimensions	364.0 mm <b>x</b> 96.0 mm <b>x</b> 261.0 mm(14.33" <b>x</b> 3.78" <b>x</b> 10.28")(W <b>x</b> D <b>x</b> H)
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Operating Humidity	10%–93% (RH), non-condensing
Installation	Rack or desktop
Certifications	CE-LVD: IEC 62368-1:2014 CE-EMC: EN IEC 61000-3-2:2019, EN 61000-3-3:2013+A1:2019, EN 55032:2015+A11:2020, EN 55035:2017+A11:2020, EN 55024:2010+A1:2015, EN 50130-4:2011+A1:2014

Ordering Information		
Туре	Model	Description
NETWORK VIDEO RECORDER	DHI-N220104-P-4KS4	4CH Smart 1U 4PoE 1HDD Lite Network Video Recorder

## Dimensions (mm[inch])



## **Panels**



1 Ground

- 2 PoE Ports
- 3 AUDIO OUT, RCA Connector 4
  - Power Input
- 5 Network Port
- 6 VGA Port
- 7 AUDIO IN, RCA Connector
- 8 HDMI Port

9 USB Ports