

DHI-NVR4216-16P-4KS3

16CH 1U 16PoE 2HDDs Lite Network Video Recorder



Series Overview

The NVR4000-4KS3 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. When an IPC is connected to the NVR, a variety of AI functions become available such as face detection, perimeter protection, and people counting. This NVR is both cost-effective and easy-to-install, making it ideal for a wide range of applications such as for cities, transportation, education and finance.

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.

Face Detection by Camera

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 by Camera

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database.

- Supports Smart H.265+, H.265, Smart H.264+, H.264 and MJPEG decoding formats.
- Max. decoding capability: 8 x 1080p@30 fps or 2 x 8 MP@30 fps.
- Max. 160/160/80 Mbps incoming/recording/outgoing bandwidth.
- Supports IP cameras with a resolution up to 12 MP.
- · Al by Recorder supports 4-channel SMD Plus.
- Al by Camera supports face detection and recognition, perimeter protection, SMD Plus, people counting, stereo analysis and heat map.
- · Supports EPTZ, and one-click arming and disarming.















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.

Stereo Analysis by Camera

With deep learning algorithm and 3-dimensional scene information, Dahua Stereo Analysis technology can recognize people's behaviors, such as fall detection, violence detection, stay detection, and space exception, and then generates alarm signals and triggers linkage.

Heat Map by Camera

Dahua heat map technology is used to display the crowd density and people appearance probability. Export and display the crowd status by different colors. Generally, the crowd status is the statistics of people quantity in space and time dimensions.

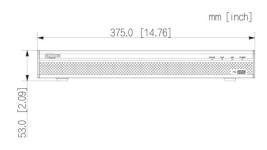
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Main Processor Deserting System Deserting Interface SMD Plus All y Recorder All All Systems All by Recorder All Deserting Interface SMD Plus Deserting Interface Deserting Interface SMD Plus Deserting Interface Desert	Technical Specification		Third-party Camera Access			
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Audio Compression C711s; C71s; C	Main Processor	Industrial-grade processor	Video Compression	Smart H.265+; H.265; Smart H.264+; H.264		
All Variance SMD Plus	Operating System	Embedded Linux	Audio Compression	G.711a; G.711u; PCM; G726		
All by Recorder All by Camera All by Camera All by Camera All by Camera Samp Place Samp Place defections; face recognition; perimeter protections; SMD Place; people counting; stereo analysis, heat may perimeter Protection. SMD Place; people counting; stereo analysis, heat may perimeter Protection. SMD Place; people counting; stereo analysis, heat may be perimeter Protection. SMD Place; people counting; stereo analysis, heat may be perimeter Protection. SMD Place; people counting; stereo analysis, heat may be perimeter Protection. SMD Place; people counting; stereo analysis, heat may be perimeter Protection. SMD Place; people counting; stereo analysis, heat may be perimeter protection. SMD Place; people counting; stereo analysis, heat may be perimeter protection. SMD Place; people counting; stereo analysis, heat may be perimeter protection. SMD Place; people counting; stereo analysis, heat may be perimeter protection. SMD Place; people counting; stereo analysis, heat may be people counting; stereo analysis, heat may be perimeter protection. SMD Place; people counting; stereo analysis, heat may be people counting; stereo analysis, heat may be perimeter protection. SMD Place; people counting; stereo analysis, heat may be perimeter protection. SMD Place; people counting; stereo analysis, heat may be perimeter protection. SMD Place; people counting; stereo analysis, beat may be perimeter protection. SMD Place; people counting; stereo analysis, beat may be perimeter protection. SMD Place; people counting; stereo analysis, beat may be perimeter protection. SMD Place; people counting; stereo analysis, beat may be perimeter protection. SMD Place; people counting; stereo analysis, beat may be perimeter protection. SMD Place; people counting; stereo analysis, beat may be perimeter protection. SMD Place; people counting; stereo analysis, beat may be perimeter protection. SMD Place; people counting; stereo analysis, beat may be perimeter protection. SMD Place; people counting; stereo analysis, beat may be people count	Operating Interface	Web, Local GUI	Network			
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Mobile Phone Access Mobile Ph	Al by Recorder		Network Protocol			
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Face Detection Face Attributes Gender; age group; glasses; expressions; face mask; beard Face Detection Performance of Al by Camera (Number of Channels) Face Recognition		5 statistics	Recording Playback			
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SMD Plus by Recorder	Performance of AI by Camera (Number of	6 channels	Alarm			
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SMD Plus by Camera 6 channels Intelligent Alarm SMD Plus; people counting; stereo analysis; heat map Audio and Video Access Channel 16 channels Port Network Bandwidth Al disabled: 160 Mbps incoming, 160 Mbps recording and 80 Mbps outgoing Al enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing Al enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing Al enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing Al enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing Al enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing Al enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing Al enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing Al enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing Al enabled: 90 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing Al enabled: 90 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing Al enabled: 90 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing Al enabled: 90 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing Al enabled: 90 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing Al enabled: 90 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing Al enabled: 90 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing Al enabled: 90 Mbps incoming, 80 Mbps recording and 80 Mbps incoming, 80 Mbps incoming, 80 Mbps incoming, 80 Mbps recording and 80 Mbps incoming, 80 Mbps inc		vehicle, reducing false alarms caused by leaves, rain and	Anomaly Alarm	conflict; MAC conflict; login locked; and cybersecurity		
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MP@30 fps; 7-channel 1080p@30 fps USB 2 (1 front USB 2.0 port, 1 rear USB 2.0 port) 1 HDMI, 1 VGA Simultaneous: HDMI 1 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 Video Output 4 Comparison of the comparison of t			RS-232	1		
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HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × VGA Video Output 720 VGA 1	Video Output	Simultaneous: HDMI: 3840 x 2160, 1920 x 1080, 1280 x 1024, 1280 x	HDMI			
Video ()utnut			VGA	1		
Network Part 1/10/100/1000 Mhns Ethernet part RI-45)						
HDMI: 1920 x 1080, 1280 x 1024, 1280 x 720 PoF Port 16 ports 10/100 Mbps IFFF 802 3 af/at			PoE Port	16 ports, 10/100 Mbps, IEEE 802.3 af/at		
Main Screen: 1/4/8/9/16 General			General			
Multi-screen Display Sub Screen: 1/4/8/9/16 Power Supply 100—240 VAC, 50/60 Hz	Multi-screen Display			100–240 VAC, 50/60 Hz		

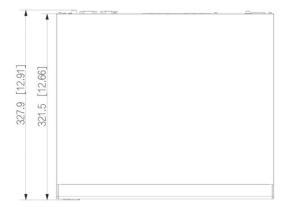
NVR4000-4KS3 Series | DHI-NVR4216-16P-4KS3

Power Consumption	Total output of NVR is <10 W(without HDD) Total output power of PoE is 130W,the maximum output power of a single port is 25.5W	
Net Weight	2.60 kg (5.73 lb)	
Gross Weight	3.80 kg (8.38 lb)	
Product Dimensions	375.0 mm x 327.9 mm x 53.0 mm (14.76" x 12.91" x 2.09") (W x D x H)	
Packaging Dimensions	451.0 mm x 147.0 mm x 425.0 mm (17.76" x 5.79" x 16.73") (W x D x 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-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3- 2:2019+A1:2021; EN 61000-3- 3:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014 CE-LVD: EN 62368-1:2014	

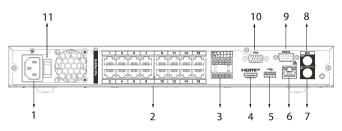
Ordering Information				
Туре	Model	Description		
NETWORK VIDEO RECORDER	DHI-NVR4216-16P-4KS3	16CH 1U 16PoE 2HDDs Lite Network Video Recorder		

Dimensions (mm[inch])





Panels



- 1 Power Input
- 3 Alarm In/Out
- 5 USB Port
- 7 AUDIO IN, RCA Connector
- 9 RS-232 Port
- 11 Power Switch
- 2 PoE Ports
- 4 HDMI Port
- 6 Network Port
- 8 AUDIO OUT, RCA Connector
- 10 VGA Port