

DHI-NVR2116HS-4KS3

16CH Compact 1U 1HDD Lite Network Video Recorder



- Supports Smart H.265+, H.265, Smart H.264+, H.264 and MJPEG decoding formats.
- · Max. decoding capability: 6 × 1080p@30 fps.
- · Max. 144/144/72 Mbps incoming/recording/outgoing bandwidth.
- · Supports IP cameras with a resolution up to 12 MP.
- · Al by Recorder supports 4-channel SMD.
- · Al by Camera supports perimeter protection and SMD.
- · Supports one-click arming and disarming.







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 costeffective 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 ilter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

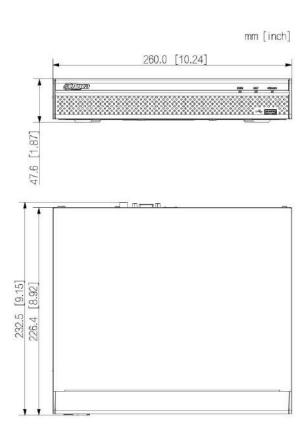
Perimeter Protection by Camera

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

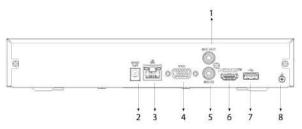
Technical Specification		Recording Playback		
System		Multi-channel Playback	Up to 16 channels	
, Main Processor	Industrial-grade processor	Record Mode	General, motion detection; intelligent; alarm	
Operating System	Embedded Linux	Backup Method	USB device and network	
Operating Interface	Web, Local GUI	Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback	
Al		Alarm		
Al by Recorder	SMD	General Alarm	Motion detection; camera external alarm; PIR alarm	
AI by Camera	Perimeter protection; SMD		Error (no disk, disk error, low space, low quota space;	
Perimeter Protection		Anomaly Alarm	network disconnection; IP conflict; MAC conflict); video loss; video tampering; camera offline	
Perimeter Performance of Al by Camera (Number of Channels)	All channels (4 targets/s)	Intelligent Alarm	Perimeter protection; SMD Plus	
		Alarm Linkage	Recording; snapshot; buzzer; log; preset; email; tour	
SMD Plus		Port		
SMD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Audio Input	1-channel RCA	
		Audio Output	1-channel RCA	
SMD Plus by Camera	All channels (8 targets/s)	Alarm Input	NA (2 channels are optional)	
Audio and Video		Alarm Output	NA (1-channel 12 V 1 A output is optional)	
Access Channel	16 channels	Disk Interface	1 SATA port. Each disk can contain up to 20 TB. this limit varies depending on the environment temperature.	
Network Bandwidth	Al disabled: 144 Mbps incoming, 144 Mbps recording and 72 Mbps outgoing Al enabled: 72 Mbps incoming, 72 Mbps recording and 36 Mbps outgoing	USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)	
Network Balluwiutii		HDMI	1	
Resolution	12 MP;8 MP;6 MP;5 MP;4 MP;3 MP;1080p;720p;960p;D1;CIF;QCIF	VGA	1	
		Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)	
Decoding Capability	Al disabled: 1-channel 12 MP@30 fps; 1-channel 8 MP@30 fps; 2-channel 6 MP@30 fps; 2-channel 5 MP@30 fps; 3-channel 1080p@30 fps Al enabled: 1-channel 8 MP@30 fps; 1-channel 6 MP@30 fps; 1-channel 5 MP@30 fps; 2-channel 4 MP@30 fps; 4-channel 1080p@30 fps	General		
		Power Supply	12 VDC, 1.5 A	
		Power Consumption	<10 W (without HDD)	
		Net Weight	0.85 kg (1.87 lb)	
Video Output	1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	Gross Weight	1.39 kg (3.06 lb)	
		Product Dimensions	260.0 mm × 232.5 mm × 47.6 mm(10.24" × 9.15" × 1.87") (W × D × H)	
Multi-screen Display	1/4/8/9/16	Packaging Dimensions	334.0 mm × 89.0 mm × 314.0 mm(13.15" × 3.50" × 12.36")(W × D × H)	
Third-party Camera Access	ONVIF	Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)	
Compression Standard		Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)	
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Operating Humidity	10%–93% (RH), non-condensing	
Audio Compression	G.711a; G.711u; PCM; G726;		CE-LVD: IEC 62368-1:2014	
Network Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCP; DNS; SMTP; IP Filter; DDNS; IP Search (Supports IP camera, DNR, NYS, etc.): P3th Auto Projectorion.	Certifications	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	
Mobile Phone Access	DVR, NVS, etc.); P2P; Auto Registration iOS; Android			
Interoperability	ONVIF 23.12(Profile T; Profile S; Profile G); CGI; SDK			
Browser	Chrome; IE; Safari; Edge; Firefox			

Ordering Information					
Туре	Model	Description			
NETWORK VIDEO RECORDER	DHI-NVR2116HS-4KS3	16CH Compact 1U 1HDD Lite Network Video Recorder			

Dimensions (mm[inch])



Panels



- 1 AUDIO OUT, RCA Connector
- 2 Power Input
- 3 Network Port
- 4 VGA Port
- 5 AUDIO IN, RCA Connector
- 6 HDMI Port
- 7 USB Port
- 3 Ground