

# DHI-NVR4116-4KS3

# 16CH Smart 1U 1HDD 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.
- · AI 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.

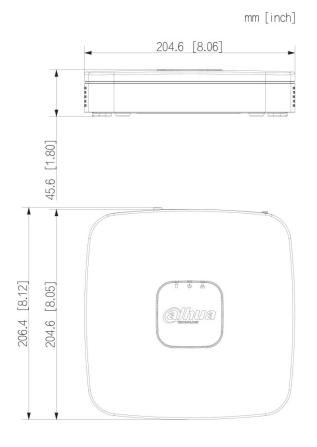
System  Main Processor  Industrial-grade processor  Main Processor  Industrial-grade processor  Main Processor  Industrial-grade processor  Operating Interface  Web, I local GLII  All  All  All Web, Recorder  SMD Plus  Face detection; face recognition, perimeter protection, SMD Plus  Face detection; face recognition, perimeter protection, SMD Plus  Formated Performance of All by Camera (Mumber of Channels)  Face Detection  Face Attributes  Face Detection  Face Recognition  Fa	echnical Specificatio	n		ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Car	
Main Processor  Industrial grade processor  Operating System  Embedded Jinux  Operating System  Embedded Jinux  Audio Compression  Script (System)  Network  Network  Network  Network  Network  Network Protocol  Interpretation (Jos., Park, Pol.), Park, Upp. Nr.P., Dec. (Jos., Park, Jun.), Park, Jun., Park,			Third-party Camera Access		
Operating System Embedded Linux  Operating Interface  Web, Local GLII  All Web, Local GLII  All Web, Local GLII  All Web, Local GLII  All Web, Local GLII  Network  Network  Network  Network  Network Frotocol  Why Finites, TCP/Fip-Five, UDP, NTF- DMC, Univ. Pip-Fire, DMS, Jalam Saver, in Sea Pip-Auto-Register, Darker, in the recognition, performance of All by Camera (Mumber of Channels)  Face Detection  Gender; are group, plasses, expressions, face mask; heard map  All White-channel Playback  Decording Playback  General, motion detection, intelligent; slam face and intercept of Channels  Gender; are group, plasses, expressions, face mask; heard map  Multi-channel Playback  Decording Playback  General, motion detection; intelligent; slam face and network  Record Mode  General, motion detection; intelligent; slam face playback, several playback, sev			Compression Standa	Compression Standard	
Audio Compression   G-711s; G-711s; PCM, G-72e			Video Compression	Smart H.265+; H.265; Smart H.264+; H.264	
All by Recorder  All by Recorder  All by Recorder  All by Camera  All by Camera  SMD Plus  Face electricon: face recognition; pertineter protection; SMD Plus perople counting; sterem analysis; heat map  Perimeter Protection  Perimeter Protection  Perimeter Performance of All by Camera (Marine Survey) protein several perimeter protection;  Perimeter Performance of All by Camera (Marine Survey) protein several perimeter protection  Perimeter Performance of All by Camera (Marine Survey) protein several perimeter performance of All by Camera (Marine Survey) protein several perimeter performance of All by Camera (Marine Survey) protein several perimeter performance of All by Camera (Marine Survey) protein several perimeter performance of All by Camera (Marine Survey) protein several perimeter performance of All by Camera (Marine Survey) protein several perimeter performance of All by Camera (Marine Survey) protein several perimeter performance of All by Camera (Marine Survey) protein several perimeter performance of All by Camera (Marine Survey) protein several perimeter performance of All by Camera (Marine Survey) protein several perimeter performance of All by Camera (Marine Survey) protein several perimeter performance of All by Camera (Marine Survey) protein several perimeter performance of All by Camera (Marine Survey) protein several perimeter performance of All by Camera (Marine Survey) protein several perimeter performance of All by Camera (Marine Survey) protein several perimeter performance of All by Camera (Marine Survey) protein several perimeter performance of All by Camera (Marine Survey) protein several perimeter period (Marine Survey) protein several period (Marine	- '		Audio Compression	G.711a; G.711u; PCM; G726	
Al by Recorder  SMD Plus  Face detection, face recognition; perimeter protection;  Perimeter Protection  Face Detection  Face Detection  Face Detection  Face Recognition  SMD Plus by Recorder  verification and Video  Achannels  SMD Plus by Recorder  verification and Video  Achannels  Ad channels  Ad channels  Ad channels  Ad channels  Ad channels  Ad disabled: 160 Mbps introning, 150 Mbps recording and 60 Mbps outgoing  and 30 Mbps outgoing  Ald disabled: 150 Mbps outgoing  Ald disabled: 150 Mbps outgoing  Ald disabled: 120 Mbps	-	Web, Local GUI	Network		
Parameta, DVR, NVS, etc.]; P2P, Juto Regis SMD Plus; people counting; steries analysis; heat map   Mobile Phone Access   IOS, Android   IOS, IOS, IOS, IOS, IOS, IOS, IOS, IOS,	d.			HTTP; HTTPS; TCP/IP; IPv4; UDP; NTP; DHCP; DNS	
Mobile Phone Access   OS, Android   Perimeter Protection   SMD Plus people counting; stereo analysis, heat map   Perimeter Performance of A by Camera (Number of Channels)   Face Detection   Section   Face Attributes   Face Detection   Section   Face Attributes   Face Detection   Section   Face Attributes   Face Detection   Face Attributes   Face Detection   Face Attributes   Face Detection   Face Attributes   Face Detection   Face Recognition   F	by Recorder		Network Protocol	UPnP; IP Filter; DDNS; Alarm Server; IP Search (St IP camera, DVR, NVS, etc.); P2P; Auto Registration	
Perimeter Performance of Al by Camera (Number of Channels)  Face Detection  Face Attributes  Gender; age group; glasses; expressions; face mask; beard  Gender (Number of Channels)  Gender (Number of Channels)  Face Recognition  F	by Camera		Mobile Phone Access	iOS; Android	
Al by Camera (Number of Channels) Face Detection Face Attributes Gender; age group; glasses; expressions; face mask; beard General, Month of General, motion detection; intelligent; alan Backup Method USB device and network Instant playback, general playback, event piplayback, sent playback, general playback, event piplayback, smart playback, general playback, smart playback, smart playback, smart playback, smart playback, smart playback, general playback, event piplayback, smart playback, general playback, event piplayback, smart playback, smart playba	Perimeter Protection		Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; S	
Channels) Face Detection Face Attributes Gender; age group; glasses; expressions; face mask; beard Face Detection Face Attributes Gender; age group; glasses; expressions; face mask; beard Face Detection Face Record Mode General, motion detection; intelligent; alarn Backup Method USB device and network Backup Method USB device and network Face Recognition Face R			Browser	Chrome; IE; Safari; Edge; Firefox	
Face Attributes  Sender; age group; glasses; expressions; face mask; beard  Sender age group; glasses; expressions; face mask; beard  Back up Method  USB device and network  Instant playback, general playback, event p playback, smart playback, general playback, event p playback, smart	•	6 channels	Recording Playback		
Face Attributes    Secondary gig group; gasses; expressions; face mask;   Backup Method   USB device and network	ace Detection		Multi-channel Playback	Up to 16 channels	
Backup Method USB device and network Face Detection Performance of Al by Camera (Number of Channels)  Face Recognition Face R	co Attributos	Gender; age group; glasses; expressions; face mask;	Record Mode	General, motion detection; intelligent; alarm	
Performance of AI by Camera (Number of Channels)  Face Recognition  Face Recognition  Face Recognition  Performance of AI by Camera (Number of Channels)  Face Recognition  Performance of AI by Camera (Number of Channels)  SMD Plus  SMD Plus  4 channels  4 channels  5 condary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change  SMD Plus by Recorder  Audio and Video  Access Channel  16 channels  AI disabled: 160 Mbps incoming, 160 Mbps recording and 80 Mbps outgoing AI enabled: 260 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing AI enabled: 30 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing AI enabled: 30 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing AI enabled: 30 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing AI enabled: 30 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing AI enabled: 30 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing AI enabled: 30 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing AI enabled: 30 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing AI enabled: 30 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing AI enabled: 30 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing AI enabled: 30 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing AI enabled: 30 Mbps incoming, 80 Mbps incoming and 80 Mbps inc	te Attributes	beard	Backup Method	USB device and network	
Face Recognition Performance of Al by Camera (Number of Channels  SMD Plus  SMD Plus by Recorder  A channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change  SMD Plus by Camera  A channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change  SMD Plus by Camera  A channels  SMD Plus by Camera  A channels  A channels  SMD Plus by Camera  A channels  A channels  A channels  A channels  Port  Audio Input  1-channel RCA  Audio Input  1-channel RCA  Audio Output  1-channel RCA  Alarm Input  NA (2 channels is optional)  Alarm Input  NA (2 channels is optional)  Alarm Output  NA (1-channel 12 V 1 A output is optional)  A	rformance of AI by	6 channels	Playback Mode	Instant playback, general playback, event playbac playback, smart playback	
Face Recognition Performance of Al by Camera (Number of Channels)  SMD Plus  Intelligent Alarm  Camera disconnection; storage error; disk for conflict, MAC conflict, login locked; and cyt exception  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 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  6 channels  Port  Audio and Video  Access Channel  16 channels  Al disabled: 160 Mbps incoming, 160 Mbps recording and 80 Mbps outgoing  Al and bloth by Sudgoing  Al anabled: 160 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing  Al enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing  Alarm Input  NA (2 channels is optional)  Alarm Output  NA (1-channel 12 V 1 A output is optional)  Alarm Output  NA (1-channel 12 V 1 A output is optional)  Alarm Output  NA (1-channel 12 V 1 A output is optional)  Alarm Output  NA (1-channel 12 V 1 A output is optional)  HDD Interface  1 SATA port. up to 20 TB. this limit varies de the environment temperature.  USB  2 (2 rear USB 2.0 ports)  HDMI 1  Nework Port  1 (10/100/1000 Mbps Ethernet port, RJ-45  Me@30 fps; 7-channel 13 MP@30 fps; 3-channel 4  MP@30 fps; 7-channel 1080p@30 fps  1 HDMI, 1 VGA  Simultaneous:  HDMI: 3840 x 2160, 1920 x 1080, 1280 x 1024, 1280 x  Fower Supply  Tool power Sup	annels)		Alarm		
Face Recognition Performance of Al by Camera (Number of Channels)  SMD Plus  Intelligent Alarm  Anomaly Alarm  Intelligent Alarm  Face detection; face recognition; storage error; disk for Channels)  Intelligent Alarm  Face detection; face recognition; perimeter SMD Plus; people counting; stereo analysis Alarm Linkage  Record; snapshot; IPC external alarm output buzzer; log; preset; email  SMD Plus by Recorder  Audio and Video  Access Channel  Access Channel  Access Channel  Access Channel  Access Channel  Adisabled: 160 Mbps incoming, 160 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 Alarm Input  Alarm Input  Na (2 channels is optional)  Alarm Output  Na (1-channel 12 V 1 A output is optional)  Alarm Output  Na (1-channel 12 V 1 A output is optional)  HDD Interface  1 SATA port. up to 20 TB. this limit varies de the environment temperature.  1 SATA port. up to 20 TB. this limit varies de the environment temperature.  1 SATA port. up to 20 TB. this limit varies de the environment temperature.  1 SATA port. up to 20 TB. this limit varies de the environment temperature.  1 SATA port. up to 20 TB. this limit varies de the environment temperature.  1 SATA port. up to 20 TB. this limit varies de the environment temperature.  1 SATA port. up to 20 TB. this limit varies de the environment temperature.  1 SATA port. up to 20 TB. this limit varies de the environment temperature.  1 SATA port. up to 20 TB. this limit varies de the environment temperature.  1 SATA port. up to 20 TB. this limit varies de the environment temperature.  1 SATA port. up to 20 TB. this limit varies de the environment temperature.  1 SATA port. up to 20 TB. this limit varies de the environment temperature.  1 SATA port. up to 20 TB. this limit varies de the environment temperature.  1 SATA port. up to 20 TB. this limit varies de the environment temperature.  1 SATA port. up to 20 TB. this limit varies de the environment	ace Recognition		General Alarm	Motion detection; privacy masking; video loss; so	
SMD Plus by Recorder	rformance of AI by mera (Number of	6 channels	Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersec	
SMD Plus by Recorder vehicle, reducing false alarms caused by leaves, rain and lighting condition change  SMD Plus by Camera 6 channels  Audio and Video  Access Channel 16 channels  Aldisabled: 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: 90 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 60 Mbps outgoing Alarm Output NA (1-channel 12 V 1 A output is optional) HDD Interface  1 SATA port. up to 20 TB. this limit varies de the environment temperature.  USB 2 (2 rear USB 2.0 ports)  HDMI 1 MP@30 fps; 3-channel 18 MP@30 fps; 4-channel 8 MP@30 fps; 4-channel 8 MP@30 fps; 4-channel 8 MP@30 fps; 2-channel 8 MP@30 fps; 2-channel 8 MP@30 fps; 2-channel 8 MP@30 fps; 2-channel 8 MP@30 fps; 3-channel 1 MP@30 fps; 3-channel 8 MP@30 fps; 2-channel 8 MP@30 fps; 3-channel 8 MP@30 fps; 2-channel 8 MP@30 fps; 2-channel 8 MP@30 fps; 2-channel 8 MP@30 fps; 2-channel 8 MP@30 fps; 3-channel 8 MP@30 fps; 3-channel 8 MP@30 fps; 3-channel 8 MP@30 fps; 2-channel 8 MP@30 fps; 3-channel	MD Plus		Intelligent Alarm	Face detection; face recognition; perimeter proto SMD Plus; people counting; stereo analysis; heat	
Audio Input  1-channel RCA  Audio Output  1-channel RCA  Audio Output  1-channel RCA  Audio Output  1-channel RCA  Ald isabled: 160 Mbps incoming, 160 Mbps recording and 80 Mbps outgoing Al enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing  All enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing  All enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing  Resolution  12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF; QCIF  All disabled: 1-channel 12 MP@30 fps; 2-channel 8 MP@30 fps; 3-channel 5 MP@30 fps; 4-channel 4 MP@30 fps; 3-channel 5 MP@30 fps; 4-channel 4 MP@30 fps; 3-channel 1 080p@30 fps  All enabled: 1-channel 12 MP@30 fps; 1-channel 8 MP@30 fps; 2-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 7-channel 1080p@30 fps  All disabled: 1-channel 12 MP@30 fps; 1-channel 8 MP@30 fps; 3-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 4 MP@30 fps; 7-channel 1080p@30 fps  All disabled: 1-channel 12 MP@30 fps; 1-channel 8 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 4 MP@30 fps; 1-channel 8 MP@30 fps; 1-chan	1D Plus by Recorder	vehicle, reducing false alarms caused by leaves, rain and	Alarm Linkage	Record; snapshot; IPC external alarm output; aud buzzer; log; preset; email	
Access Channel  Access Channel  Al disabled: 160 Mbps incoming, 160 Mbps recording and 80 Mbps outgoing Al enabled: 80 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing Al enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing  HDD Interface  12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF; QCIF  Al disabled: 1-channel 12 MP@30 fps; 2-channel 8 MP@30 fps; 3-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 12 MP@30 fps; 3-channel 8 MP@30 fps; 3-channel 12 MP@30 fps; 3-channel 8 MP@30 fps; 2-channel 8 MP@30 fps; 3-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 5 MP@30 fps; 3-channel 5 MP@30 fps; 3-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 5 MP@30 fps; 3-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 5 MP@30 fps; 3-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 5 MP@30 fps;	AD Plus by Camera	6 channels	Port		
Access Channel  Al disabled: 160 Mbps incoming, 160 Mbps recording and 80 Mbps outgoing Al enabled: 80 Mbps incoming, 80 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  Resolution  Alarm Output  NA (1-channel 12 V 1 A output is optional)  HDD Interface  1 SATA port. up to 20 TB. this limit varies de the environment temperature.  USB  2 (2 rear USB 2.0 ports)  Al disabled: 1-channel 12 MP@30 fps; 2-channel 8  MP@30 fps; 3-channel 5 MP@30 fps; 4-channel 4  MP@30 fps; 3-channel 1080p@30 fps Al enabled: 1-channel 12 MP@30 fps; 1-channel 8  MP@30 fps; 2-channel 5 MP@30 fps; 3-channel 4  MP@30 fps; 7-channel 1080p@30 fps  Al enabled: 1-channel 1080p@30 fps	audio and Video		Audio Input	1-channel RCA	
Network Bandwidth  Al enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing  Al enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing  HDD Interface  12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF; QCIF  USB  2 (2 rear USB 2.0 ports)  Al disabled: 1-channel 12 MP@30 fps; 2-channel 8 MP@30 fps; 3-channel 5 MP@30 fps; 4-channel 4 MP@30 fps; 3-channel 1080p@30 fps  Al enabled: 1-channel 12 MP@30 fps; 1-channel 8 MP@30 fps; 2-channel 8 MP@30 fps; 2-channel 1080p@30 fps  Al enabled: 1-channel 1080p@30 fps  1 HDMI  1 Network Port  1 (10/100/1000 Mbps Ethernet port, RJ-45 General  Simultaneous: HDMI: 3840 x 2160, 1920 x 1080, 1280 x 1024, 1280 x 720  Power Supply  Table output of NVR is c10 W/without HDD:		16 channels	Audio Output	1-channel RCA	
Al enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing  Resolution  12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF; QCIF  Al disabled: 1-channel 12 MP@30 fps; 2-channel 8 MP@30 fps; 3-channel 5 MP@30 fps; 4-channel 4 MP@30 fps; 3-channel 12 MP@30 fps; 1-channel 8 MP@30 fps; 2-channel 12 MP@30 fps; 1-channel 8 MP@30 fps; 2-channel 12 MP@30 fps; 3-channel 8 MP@30 fps; 3-channel 1080p@30 fps  Al enabled: 1-channel 12 MP@30 fps; 4-channel 4 MP@30 fps; 3-channel 5 MP@30 fps; 3-channel 8 MP@30 fps; 3-channel 1080p@30 fps  Al enabled: 1-channel 12 MP@30 fps; 4-channel 4 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 5 MP@30 fps; 3-channe			Alarm Input	NA (2 channels is optional)	
HDD Interface   SAIA port. up to 20 fb. this limit varies of the environment temperature.	etwork Bandwidth		Alarm Output	NA (1-channel 12 V 1 A output is optional)	
Al disabled: 1-channel 12 MP@30 fps; 2-channel 8   MP@30 fps; 3-channel 5 MP@30 fps; 4-channel 4   MP@30 fps; 8-channel 1080p@30 fps	redution		HDD Interface	1 SATA port. up to 20 TB. this limit varies depend the environment temperature.	
MP@30 fps; 3-channel 5 MP@30 fps; 4-channel 4  MP@30 fps; 8-channel 1080p@30 fps Al enabled: 1-channel 12 MP@30 fps; 1-channel 8 MP@30 fps; 2-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 2-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 7-channel 1080p@30 fps  1 HDMI, 1 VGA Simultaneous: HDMI: 3840 x 2160, 1920 x 1080, 1280 x 1024, 1280 x  720  Rever Consumption  Total output of NVB is allo W(without HDD)	Solution		USB	2 (2 rear USB 2.0 ports)	
Al enabled: 1-channel 12 MP@30 fps; 1-channel 8 MP@30 fps; 2-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 7-channel 1080p@30 fps  1 HDMI, 1 VGA Simultaneous: HDMI: 3840 x 2160, 1920 x 1080, 1280 x 1024, 1280 x  720  Rever Consumption  VGA 1 1 (10/100/1000 Mbps Ethernet port, RJ-45  Retail output of NVB is 210 W/without HDD)  Total output of NVB is 210 W/without HDD)	Decoding Capability	MP@30 fps; 3-channel 5 MP@30 fps; 4-channel 4 MP@30 fps; 8-channel 1080p@30 fps Al enabled: 1-channel 12 MP@30 fps; 1-channel 8 MP@30 fps; 2-channel 5 MP@30 fps; 3-channel 4	HDMI	1	
MP@30 fps; 7-channel 1080p@30 fps  1 HDMI, 1 VGA  Simultaneous: HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×  720  Rever Consumption  Total output of NVB is \$10 W/without HDD:			VGA	1	
Simultaneous: HDMI: 3840 x 2160, 1920 x 1080, 1280 x 1024, 1280 x  Power Supply  12 VDC, 2 A  720  Power Supply  Total output of NVB is 210 W/without HDD:			Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)	
HDMI: 3840 x 2160, 1920 x 1080, 1280 x 1024, 1280 x  Power Supply  12 VDC, 2 A  720  Power Supply  Total output of NVB is 210 W/without HDD:		1 HDMI, 1 VGA Simultaneous: HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×	General		
Video Output  Total output of NVD is <10 W/without HDD	Video Output		Power Supply	12 VDC, 2 A	
VGA: 1920 × 1080, 1280 × 720 Power Consumption lotal output of NVR is <10 W(without HDD)		720	Power Consumption	Total output of NVR is <10 W(without HDD)	
Heterogeneous: HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720  Net Weight  0.45 kg (0.99 lb)		Heterogeneous:	Net Weight	0.45 kg (0.99 lb)	
			Gross Weight	1.07 kg (2.36 lb)	
Multi-screen Display  Main Screen: 1/4/8/9/16 Sub Screen: 1/4/8/9/16 Product Dimensions  204.6 mm × 206.4 mm × 45.6 mm(8.06" × 1.80") (W × D × H)	ulti-screen Display		Product Dimensions	204.6 mm × 206.4 mm × 45.6 mm(8.06" × 8.12"	

# NVR4000-4KS3 Series | DHI-NVR4116-4KS3

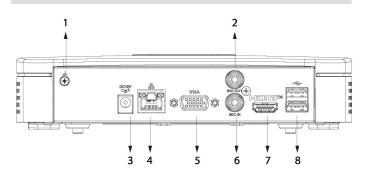
Packaging Dimensions	364 mm $\times$ 96 mm $\times$ 261 mm (14.33" $\times$ 3.78" $\times$ 10.26") (W $\times$ D $\times$ H)		
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)		
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)		
Operating Humidity	10%–93% (RH), non-condensing		
Installation	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-NVR4116-4KS3	16CH Smart 1U 1HDD Lite Network Video Recorder			

# Dimensions (mm[inch])



# **Panels**



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