

# DHI-NVR616R-64/128-4KS2

64/128 Channel 3U 16HDDs Ultra series Network Video Recorder



#### **Series Overview**

Dahua's next generation network video recorder offers unparalleled recording technology for IP video surveillance applications. For applications where details are critical for identification, this enterprise-level NVR provides a powerful Intel processor with up to 4K resolution. Additionally, the NVR features a mouse shortcut operation menu, remote management and control, centre storage, edge storage, and back up storage.

This NVR is ideal for a wide range of applications such as public safety, transportation stations, government institutions, hotel resorts, shopping malls, city centers, and financial institutions, where demand expansion flexibility, high reliability and centralized storage management.

The NVR is compatible with numerous third-party devices making it the perfect solution for surveillance systems with or without a video management system (VMS). Its open architecture supports multi-user access and is compatible with ONVIF.

#### **Functions**

# **Perimeter Protection by Camera**

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

#### **SMD Plus by Camera**

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.

#### Video Metadata by Camera

With deep learning algorithm, Dahua Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

- · New 4.0 user interface
- 16-channel decoding @1080p (30 fps); self-adaptive decoding capabil ity
- · Access, storage or forwarding at 384 Mbps
- Simultaneous video output for VGA and HDMI1; 4K heterogeneous output for the 2 HDMI ports
- Multiple data mode such as Raid0, Raid1, Raid5, Raid6, and Raid10
- Remote configuration and management of IPCs, such as setting pa rameters, acquiring information and upgrading IPCs of the same model in batches
- Al-by-camera functions such as perimeter protection, face detection and recognition, SMD Plus, video metadata, ANPR and 3D behavior analysis
- N+M cluster. When the host fails, the standby device will continue to record; once the host recovers, video recorded on the standby device will be transmitted back

















#### **ANPR by Camera**

With deep learning algorithm, Dahua ANPR technology can recognize the number plate information of vehicles in the image with ANPR cameras. Support block/allowlist mode, searching target vehicles from recorded video.

## Stereo Analysis by Camara

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

#### N+M Hot Standby

The highly reliable redundancy N+M Hot Standby design provides a secure, failover technique ensuring immediate backup. In the event of a system failure, the sub instantly takes over the main ensuring no data is lost.

#### **RAID**

Support RAID 0,RAID 1,RAID 5,RAID 6,RAID 10 (optional). It can Improve your storage speed, while ensuring data security.

System	Technical Specification		Third Party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, Onvif, Canon and more	
Main Processor			Compression	Canon and more	
Operating System	Main Processor	Industrial embedded micro-processor		Smart H.265+/H.265/Smart H.264+/H.264/MPEG4/	
Operation Interface   Operation by Camera   Performance   24 charants   Al Search   Search pictures by channel, time, event type   Mobile Phone Access   Dis, Android   Interoperability   Onty Fig. 100, p. 117, 117, 117, 117, 117, 117, 117, 117	Operating System	Embedded Linux	Video	MJPEG	
Performance 2: damels Al Search Send pictures by channel; time, event type Face Recognition by Camera  Al Search Send pictures by channel; time, event type Performance  24 channels  Face Recognition by Camera  Mobile Phone Access  As Arderid  Interoperability  ONVF [profile TAV6], 663, 405 A.  Browser  Chrome, ES or line; Firefox  All Search  Send by date dear and later attributes  As Search Search System, special pictures by channel; time and later attributes  As Search Search System, special pictures by channel; time and later attributes  SMD Plus by Camera  Performance  22 channels  Al Search Search System of the special pictures by channel; time and later attributes  SMD Plus by Camera  Performance  23 channels  Al Search Search System of the special pictures by channel; time and later attributes  Storage Method  10 channels  Human Body  25 channels  Al Search  Plus No., type, coling, vehicle hope, lage, pictor resion, contained, calling, sealed, region  Non-motor Vehicle  Plus No., type, coling, vehicle hope, lage, pictor resion, contained, calling, sealed, region  Non-motor Vehicle  Al Search  Special profile region in the special profile region  Non-motor Vehicle  Performance  Stereo Analysis by Camera  Al Search  Special profile region in the special profile region  Stereo Analysis by Camera  Al Search  Special profile region in the special profile register region in the special profile region in the special profil	Operation Interface	Web/local GUI	Audio	MP2/G726/G729/G722/G723/G711A/G711U/PCM	
Network Protocol   Soft Princip places by channel, lime, event type   Face Recognition by Camera	Perimeter Protection by Camera		Network		
Alsearch Search Search Selectures by channel, time, event type Face Recognition by Camera Performance 2 Achannels Face Attributes 5 Stituthes: Gender age, plasses, expression, mouth mouth, and hourd Alsearch 5 Search pictures by channels, implementations, and hourd Alsearch 5 Search pictures by channels, implementations, and hourd Alsearch 5 Search pictures by channels, limited and fine stiributes 5 MD Plus by Camera 5 Schnels Al Search 5 Search by target classification (human, Vehicle) 6 Search pictures by target classification (human, Vehicle) 7 Video Metadata by Camera 8 Backup 8 Backup 8 Backup 8 Hand drive, USS device, 45MA device 8 Backup 8 Hand drive, USS device, 45MA device 9 Performance 10 channels 10 to boolog bottom, bottom color, hat, bag, gender 4 gag, unified and and any age, unified any age, and age, place age, place age, place and age, place age, pl	Performance	24 channels		SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search (Support Dahua IP camera, DVR,	
Performance	Al Search	Search pictures by channel, time, event type	Network Protocol		
Interoperability   Olivif (profile 1/5/G), Col. Six	Face Recognition by Camera		Mobile Phone Access	iOS, Android	
All Search Search inclures by channel, time and face attributes RecOrd Playback SMD Plus by Camera  Multi-channel Playback Multi-channel Playback Multi-channel Playback Multi-channel Playback Multi-channel Playback Manual, Schedule (General, MD (Motton Detection)), Alarm, MD & Alarm, Intelligent, POS)  All Search Search by target classification (Human, Vehicle) Storage Method Local HDD and network Video Metadata by Camera  Performance 12 channels  Human Body Lage and	Performance	24 channels	Interoperability	ONVIF (profile T/S/G), CGI, SDK	
Al Search Search pictures by channel, time and face attributes  SMD Plus by Camera  Performance  32 channels  Al Search Search by target classification (human, Vehicle)  Video Metadata by Camera  Backup  Backup  Hard drive, USB device, eSATA device  12 channels  Human Body  15 (po, top color, bottom, bottom color, hat, bag, gender, age, unbrells)  Wehicle  Part No., type, color, whiche type, logo, plate color, ormanic, calling, seathly region  Non-motor Vehicle  Non-motor Vehicle  Non-motor Vehicle  Al Search Support search target video by metaduta  ANPR by Camera  Performance  8 channels  Stereo Analysis by Camera  Performance  9 channels  Stereo Analysis by Camera  Anomaly Alarm  Anomaly Alarm  Anomaly Alarm  Anomaly Alarm  Anomaly Alarm  Anomaly Alarm  Camera offline, storage error, full storage, ip: conflict, partially enlarge, audio adam, pile alarm, pi	Face Attributes		Browser	Chrome, IE9 or later, Firefox	
Performance 32 channels Record Mode Manual, Schedule (General, MD (Motion Detection), Alarm, MD & Alarm, in theligent, PCS) Al Search Search by target classification (Human, Vehicle) Storage Method Local HDD and network Video Metadata by Camera  Performance 12 channels  Top, tip color, bottom, bottom color, hat, bag, gender, age, unbrella  Vehicle Plate No, type, color, vehicle type, logo, plate color, ornament, calling, seatbell, region  Non-motor Vehicle Plate No, type, color, vehicle type, logo, plate color, ornament, calling, seatbell, region  Non-motor Vehicle Support search target video by metadata Disk Group Support  Al Search Support search target video by metadata Alarm  ANPR by Camera  Performance 8 channels  Stereo Anallysis by Camera  Al Search Search by target classification (Fall Detection, People Apprach Detection, People Apprach Detection, Violence Detection, People Apprach Detection, Violence Detection, People Staying Detection, Violence Detection, People Staying Detection, Violence Detection, People Staying Detection, Violence Detection, People Apprach Detection, People Na. Exception Detection, People Staying Detection, Violence Detection, People Apprach Detection, People Na. Exception Detection, People Na. E	Al Search	Search pictures by channel, time and face attributes	Record Playback		
Al Search Search by target classification (Human, Vehicle)  Video Metadata by Camera  12 channels  Human Body  Top, Lop color, bottom, bottom color, hat, bag, gender, age, umbrella  Top, Lop color, bottom, bottom color, hat, bag, gender, age, umbrella  Top, Lop color, bottom, bottom color, hat, bag, gender, age, umbrella  Top, Lop color, bottom, bottom color, hat, bag, gender, age, umbrella  Top, Lop color, bottom, bottom color, hat, bag, gender, age, umbrella  Plate No., type, color, vehicle type, logo, plate color, ornamer, calling, seather, region  Non-motor Vehicle  Type, color, number of passengers, helmet  Al Search  Support search target video by metadata  ANPR by Camera  ANPR by Camera  Performance  8 channels  Stereo Analysis by Camera  Performance  32 channels  Search by target classification (Fall Detection, People No. Exception Detection, People Staying Detection, Violence Detection, People No. Exception Detectio			Multi-channel Playback	1/4/9/16	
Storage Method   Storage	Performance	32 channels	Record Mode		
Performance 12 channels  Human Body Top, top color, bottom, bottom color, hat, bag, gender, age, umbreila per unament, calling, seatbelt, region  Non-motor Vehicle Type, color, vehicle type, logo, plate color, ornament, calling, seatbelt, region  Non-motor Vehicle Type, color, number of passengers, helmet Disk Group Support  Al Search Support search target video by metadata Raid Support RAID 0/1s/s/s/10  ANPR by Camera Alarm  Performance Schannels General Alarm Motion detection, privacy masking, video loss, local alarm, PiR alarm, PiC alarm Alarm, PiC alarm Camera offline, storage error, full storage, IP conflict, MAC conflict, login lock, network security anomaly Mac and conflict, login lock, network security anomaly Mac and conflict, login lock, network security anomaly Nation  Video  Video  Access Channel G4/128 Alarm Linkage Record, anapshot, IPC external alarm output, buzzer, log, preset, email  Resolution 12/M/S M/S M/S M/S M/S M/S M/S M/S M/S M/S	Al Search	Search by target classification (Human, Vehicle)	Storage Method	Local HDD and network	
Playback Function   1- Play, pause, stop, fist forward, fast backward, rewind, play by frame 2. Full screen, backup (cut/file), partially enlarge, audio on/off	Video Metadata by Camera		Backup	Hard drive, USB device, eSATA device	
Vehicle Plate No, type, color, vehicle type, logo, plate color, ormament, calling, seatebilt, region Storage  Non-motor Vehicle Type, color, number of passengers, helmet Disk Group Support  Al Search Support search target video by metadata Raid Support Raid O/1/5/6/10  ANPR by Carmera Alarm Alarm  Performance 8 channels General Alarm Motion detection, privacy masking, video loss, local alarm, PiR alarm, IPC alarm  Performance 32 channels General Alarm Camera offline, storage error, full storage, IP conflict, MAC conflict, login lock, network security anomaly Performance Al Search by target classification (Fall Detection, People Approach Detection, People No. Exception Detection, People Staying Detection, Violence Detection, People Main Stay Stay Stay Stay Stay Stay Stay Stay		Top, top color, bottom, bottom color, hat, bag, gender,	Playback Function	play by frame 2. Full screen, backup (cut/file), partially enlarge, audio	
Non-motor Vehicle  If ype, color, number of passengers, helmet  Disk Group  Support  Raid Support  Raid Support  Raid O/1/5/6/10  Alarm  Performance  8 channels  Stereo Analysis by Camera  Alsearch  Search by target classification (Fall Detection, People Approach Detection, People No. Exception Detection, People Staying Detection, Violence Detection)  Video  Access Channel  Alsearch  Anomaly Alarm  Camera offline, storage error, full storage, IP conflict, MAC conflict, login lock, network security anomaly  Perimeter protection, face detection, face recognition, SMD, video metadata (human, motor-wehicle, AnNex, people counting, steree analysis, crowd distribution, heatmap, video quality diagnosis  Alarm Linkage  Record, snapshot, IPC external alarm output, buzzer, log, preset, email  External Port  Audio Input  1 channel, RCA connector  Audio Output  1 channel, RCA connector  Audio Output  1 channel, RCA connector  HDD  Alarm Input  1 channel, RCA connector  Alarm Input  1 channels	Vehicle		Storago	onyon	
ANPR by Camera  Performance 8 channels  Stereo Analysis by Camera  Performance 32 channels  Alsearch Search by target classification (Fall Detection, People Approach Detection, People Staying Detection, Violence Detection)  Power Bandwidth 384 Mbps for access, 384 Mbps for storage and 384 Mbps for forwarding Mbps for forwarding Decoding Capability  Pecoding Capability  Video Output  AN Search Support & RAID 0/1/5/6/10  Alarm  Alarm  Anomaly Alarm  Camera offline, storage error, full storage, IP conflict, MAC conflict, login lock, network security anomaly  Perimeter protection, face detection, face recognition, SMM, video metadata  Performance 32 channels  Search by target classification (Fall Detection, People Approach Detection, People No. Exception Detection, People Cooling, Season analysis, crowd distribution, heatmap, video quality diagnosis  External Port  Audio Input 1 channel, RCA connector  Audio Output 1 channel, RCA connector  HDD 16 SATI II ports, up to 3 DT B for a single HDD. The maximum HDD capacity varies with environment temperature. Supports Hot-swap.  Alarm Input 16 channels  Alarm Input 16 channels  Alarm Output 8 channels  Multi-screen Display  Multi-screen Display	Non-motor Vehicle		_	Support	
ANPR by Camera  Performance 8 channels  Stereo Analysis by Camera  Performance 32 channels  Anomaly Alarm Camera offline, storage error, full storage, IP conflict, MAC conflict, login lock, network security anomaly  Al Search Search by target classification (Fall Detection, People Approach Detection, People No. Exception Detection, People Staying Detection, Violence Detection)  Video  Access Channel 64/128  Network Bandwidth 384 Mbps for access, 384 Mbps for storage and 384 Mbps for forwarding External Port  Resolution 12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080/9600/720p/D1/CIF/QCIF  Decoding Capability 16-ch@1080p (30 fps)  Video Output 1-channel, RCA connector  Work and HDMI 1-bmoligous output, double HDMI heterogeneous output, 2 channels HDMI output, Video HDMI heterogeneous output, 4 display for both HDMI and HDMI2  1st Screen: 1/4/8/9/16/25/36/64  Multi-screen Display  Motion detection, Procedural alarm Motion detection, pleafarm, plea alarm,	Al Search	Support search target video by metadata			
Stereo Analysis by Camera   Stereo Analysis crowd stereor   Stereo Analysis   Stereo Ana	ANPR by Camera			, , , , , , , , , , , , , , , , , , ,	
Stereo Analysis by Camera  Performance 32 channels Anomaly Alarm Camera offline, storage error, full storage, IP conflict, MAC conflict, login lock, network security anomaly Marm (Mac conflict, login lock, network security anomaly Mac eventually anomaly alarm (Mac conflict, login lock, network security anomaly Mac eventually anomaly mach security anomaly Mac eventually and lock, network security anomaly Mach conflict, login lock, network security anomaly Mach eventually and lock, network security anomaly Mach conflict, MAC conflict, login lock, network security anomaly mach eventually and lock, network security anomaly mach eventually and lock, network security anomaly mach security anomaly defended in the lock of the per present eventually formulation, security distribution, heatmap, wide output, serve analysis, crowd distribution, heatmap, wide output, lock network security anomaly with per present eventually for mach eventually distribution, heatmap, wide output, serve and security distribution, heatmap, wide output, serve and several larm within, heatmap, idea (second, snapshot,	Performance	8 channels		Motion detection, privacy masking, video loss, local	
Performance 32 channels Anomaly Alarm Camera offline, storage error, full storage, IP conflict, MAC conflict, login lock, network security anomaly Macromaly Alarm Search by target classification (Fall Detection, People Approach Detection, People No. Exception Detection, People Staying Detection, Violence Detection, People Staying Detection, People No. Exception Detection, People Permeter Protection, face detection, SMD, video metadata (human motor-vehicle, non-motor vehicle, non-motor vehicle, non-motor vehicle, non-motor detains people counting, stere analysis, crowd distribution, heatmap, video quality diagnosis  External Port  Audio Input 1 channel, RCA connector  HDD	Stereo Analysis by Ca	amera	General Alarm	(zeneral Alarm	
Al Search Approach Detection, People No. Exception Detection, People Staying Detection, Violence Detection, People Staying Detection, Violence Detection)  Video  Access Channel 64/128  Network Bandwidth Mbps for access, 384 Mbps for storage and 384 Mbps for forwarding  Resolution 12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/ 1080p/360p/720p/D1/CIF/QCIF  Decoding Capability  Video Output  Video Output  Video Output  Approach Detection, People No. Exception Detection, People No. Exception Detection, People Counting, Stereo analysis, crowd distribution, heatmap, video quality diagnosis  Alarm Linkage  Record, snapshot, IPC external alarm output, buzzer, log, preset, email  External Port  Audio Input 1 channel, RCA connector  Audio Output 1 channel, RCA connector  HDD 16 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature. Supports Hot-swap.  Video Output 1 channel VGA output, 2 channels HDMI output, VGA and HDMI 1 homologous output, double HDMI heterogeneous output. Support 4K display for both HDMI1 and HDMI2  1st Screen: 1/4/8/9/16/25/36/64  Multi-screen Display  Alarm Output SAS 1 Mini SAS Port, for Storage Expansion	Performance	32 channels	Anomaly Alarm	, , , , , , ,	
Access Channel 64/128 Alarm Linkage Record, snapshot, IPC external alarm output, buzzer, log, preset, email  Network Bandwidth 384 Mbps for access, 384 Mbps for storage and 384 Mbps for forwarding External Port  Resolution 12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/ 1080p/960p/720p/D1/CIF/QCIF  Decoding Capability 16-ch@1080p (30 fps) Audio Output 1 channel, RCA connector  VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI1/HDMI2: 3840 × 2160@30 fps, 3840 × 2160 @25 fps, 1920 × 1080, 1280 × 1024, 1280 × 720 1 channel VGA output, 2 channels HDMI output, VGA and HDMI 1 homologous output, double HDMI heterogeneous output. Support 4K display for both HDMI1 and HDMI2 1st Screen: 1/4/8/9/16/25/36/64  Multi-screen Display 1st Screen: 1/4/8/9/16/25/36/64  Alarm Linkage Record, snapshot, IPC external alarm output, buzzer, log, preset, email  External Port  Audio Input 1 channel, RCA connector  HDD 16 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature. Supports Hot-swap.  Alarm Input 16 channels  Alarm Output 8 channels  Alarm Output 8 channels  Multi-screen Display	Al Search	Approach Detection, People No. Exception Detection,	Intelligent Alarm	SMD, video metadata (human, motor-vehicle, non-motor vehicle), ANPR,	
Network Bandwidth  384 Mbps for access, 384 Mbps for storage and 384 Mbps for forwarding  Resolution  12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/ ADV	Video				
Metwork Bandwidth  Mbps for forwarding  External Port  Audio Input  1 channel, RCA connector  Audio Output  1 channel, RCA connector  HDD  Bandwidth  Audio Output  1 channel, RCA connector  Audio Output  1 channel, RCA connector  HDD  Bandwidth  Bandwidth  HDD  Bandwidth  Bandwidth  Bandwidth  Audio Input  1 channel, RCA connector  Audio Output  1 channel, RCA con	Access Channel	64/128	Alarm Linkage		
Decoding Capability  16-ch@1080p (30 fps)  VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI1/HDMI2: 3840 × 2160@30 fps, 3840 × 2160 @25 fps, 1920 × 1080, 1280 × 1024, 1280 × 720 Video Output  Video Output  VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI1/HDMI2: 3840 × 2160@30 fps, 3840 × 2160 @25 fps, 1920 × 1080, 1280 × 1024, 1280 × 720 1 channel VGA output, 2 channels HDMI output, VGA and HDMI 1 homologous output, double HDMI heterogeneous output. Support 4K display for both HDMI1 and HDMI2  1st Screen: 1/4/8/9/16/25/36/64  Multi-screen Display  Audio Output  1 channel, RCA connector  1 de SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature. Supports Hot-swap.  4 larm Input  8 channels  Alarm Output  8 channels  Multi-screen Display  Alarm Output  8 SATA  1 eSATA  1 eSATA	Network Bandwidth		External Port		
Decoding Capability  16-ch@1080p (30 fps)  VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDM11/HDM12: 3840 × 2160@30 fps, 3840 × 2160 @25 fps, 1920 × 1080, 1280 × 1024, 1280 × 720  Video Output  1 channel VGA output, 2 channels HDMI output, VGA and HDMI 1 homologous output, double HDMI heterogeneous output. Support 4K display for both HDMI1 and HDMI2  1st Screen: 1/4/8/9/16/25/36/64  Multi-screen Display  16 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature. Supports Hot-swap.  4 Alarm Input  16 channels  Alarm Output  8 channels  1 eSATA  1 eSATA  Multi-screen Display	Resolution		Audio Input	1 channel, RCA connector	
VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI1/HDMI2: 3840 × 2160@30 fps, 3840 × 2160 @25 fps, 1920 × 1080, 1280 × 1024, 1280 × 720 Video Output  1 channel VGA output, 2 channels HDMI output, VGA and HDMI 1 homologous output, double HDMI heterogeneous output. Support 4K display for both HDMI1 and HDMI2  1st Screen: 1/4/8/9/16/25/36/64  Multi-screen Display  HDD maximum HDD capacity varies with environment temperature. Supports Hot-swap.  Alarm Input 16 channels  Alarm Output 8 channels  1 eSATA  1 eSATA  1 eSATA	Decoding Capability	16-ch@1080p (30 fps)	Audio Output		
VGA and HDMl 1 homologous output, double HDMl heterogeneous output. Support 4K display for both HDMl1 and HDMl2  1st Screen: 1/4/8/9/16/25/36/64  Multi-screen Display  VGA and HDMl 1 homologous output, double HDMl heterogeneous output. Support 4K display for both HDMl1 and HDMl2  eSATA  1 eSATA  1 eSATA  1 Mini SAS Port, for Storage Expansion	Video Output	HDMI1/HDMI2: 3840 × 2160@30 fps, 3840 × 2160 @25 fps, 1920 × 1080, 1280 × 1024, 1280 × 720 1 channel VGA output, 2 channels HDMI output, VGA and HDMI 1 homologous output, double HDMI heterogeneous output. Support 4K display for both	HDD	maximum HDD capacity varies with environment	
HDMI1 and HDMI2  1st Screen: 1/4/8/9/16/25/36/64  Multi-screen Display  SAS  1 Mini SAS Port, for Storage Expansion			Alarm Input	16 channels	
1st Screen: 1/4/8/9/16/25/36/64  Multi-screen Display  SAS  1 Mini SAS Port, for Storage Expansion			Alarm Output	8 channels	
3A3 TULLI SAS PULL, TOL STORAGE EXPANSION	Multi-screen Display	1st Screen: 1/4/8/9/16/25/36/64	eSATA	1 eSATA	
		2nd Screen: 1/4/8/9/16	SAS	1 Mini SAS Port, for Storage Expansion	

# Ultra series | DHI-NVR616R-64/128-4KS2

RS-232	1 channel, used to debug and pass through serial data
RS-485	1 channel, used to control PTZ, and it supports multiple protocols
USB	2 front USB 2.0 ports, 2 rear USB 3.0 ports
HDMI	2
VGA	1
Network	6 in total, $4 \times RJ45$ 10/100/1000 Mbps self-adaptive Ethernet ports and $2 \times 1000$ Mbps optical port

# **General Parameter**

Power Supply	Redundant, AC100V–240V, 50–60 Hz	
Power Consumption	< 51 W (Without HDD)	
Net Weight	19.1 kg (42.1 lb) (Without HDD)	
Gross Weight	28.5 kg (62.8 lb) (Without HDD)	
Product Dimensions	485 mm × 516.5 mm × 133.2 mm (W × L × H) 19.09 inch × 20.34 inch × 5.24 inch (W × L × H)"	
Package Dimensions	648 mm × 723 mm × 445 mm (W × L × H) 25.51 inch × 28.46 inch × 17.52 inch (W × L × H)	
Operating Conditions	$-10^{\circ}\text{C}$ to +55°C (+14°F to +131°F), +35°C (+95°F) when raid enabled	
Storage Conditions	0°C to +40°C (+32°F to +104°F)	
Operating Humidity	10%-93% (RH)	
Storage Humidity	30%–85% (RH)	
Operating Altitude	3000 m (9843 ft)	
Certifications	CE: EN55022, EN55024, EN50130-4, EN60950-1 FCC: Part 15 Subpart B, ANSI C63.4-2014 UL: UL 60950-1 and CAN/CSA C22.2 No.60950-1	

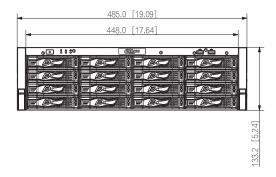
Ordering Information				
Туре	Model	Description		
64 Channel NVR	DHI-NVR616R-64-4KS2	64 Channel Ultra Series 4K H.265 Network Video Recorder		
128 Channel NVR	DHI-NVR616R-128-4KS2	128 Channel Ultra Series 4K H.265 Network Video Recorder		
Accessories	ESS3116S-J(R)	16 HDDs SAS Storage Cabinet		

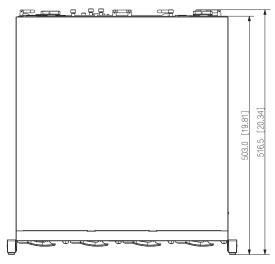
### **Accessories**



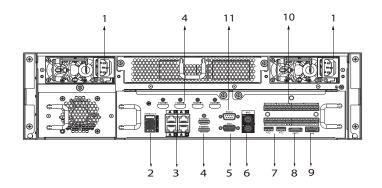
ESS3116S-J(R) 16 HDDs SAS Storage Cabinet

# Dimensions (mm[inch])





# **Panels**



- 1 Power Input
- 3 Network Ports
- 5 VGA Port
- 7 USB Ports
- 9 SAS Port
- 11 RS-232 Port

- 2 Optical Fiber Ports
- 4 HDMI Ports
- 6 AUDIO IN/OUT, RCA Connector
- 8 eSATA Port
- 10 Alarm In/Out