

INS644K

64 Channel 4K Network Video Recorder

AI+ Network Recorder

- H.265+/H.265 dual-stream video compression
- Support Raid 0/1/5/6/10
- AI+ Analytics: Facial recognition, area protector and more
- Access, storage at 1024Mbps and forwarding at 800Mbps
- The drawer-style chassis design permits hot-swapping of HDDs
- Decodes up to 32-ch at 1080p (30fps). Supports adaptive decoding



STORM Application

The STORM app is available on the iOS App Store and Google Play. It allows you to remotely access back-end devices, view live video, receive event push notifications, and search for recorded videos from an iPhone, iPad, or Android phone at anytime from virtually anywhere.



Smart H.265+ & H.264+

STORM smart encoding technology can provide high-quality video with higher efficiency and can also reduce the cost of storage space and transmission adopting an advanced algorithm of auto stream control.



Unify your Security Solution

Due to its cost-effective and easy-to-install design, this NVR is ideal for a wide range of applications



*Design and specifications are subjects to change without notice.



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Product Specifications

64 Channel 4K Network Video Recorder

System	
Main Processor	Industrial-grade embedded processor
Operating System	Embedded LINUX
Operation Interface	Web/operating in local GUI
Area Protector	
Performance (Channels)	24 channels (by recorder), 10 IVS rules for each channel; 64 channels (by camera)
AI Search	Search for pictures by channel, time and event type
Smart Motion Detection	
Performance (Channels)	64 channels (by camera), 32 channels (by recorder)
AI Search	Search by target classification (Human, vehicles). Minimizing false alerts triggered by foliage, precipitation, and shifts in lighting conditions
Face Detection	
Performance (Channels)	64 channels (by camera), 4 channels (by recorder)
Face Attributes	Mask; beard; gender; age; glasses; expression
AI Search Rate	Up to 12 face images/s (by recorder); up to 20 face images/s (by rec+cam)
Facial Recognition	
Performance (Channels)	64 ch-s (by camera); 20 ch-s (by camera + recorder); 4 ch-s (by recorder)
Capacity for Facial Databases	Support for 40 facial databases comprising 300,000 images, with a combined storage capacity of 48 GB. Each facial image can include details such as name, gender, birthdate, address, credential type, credential number, country/region, and state
AI Search	Search for pictures by channel, time and face attributes
Video Metadata	
Performance (Channels)	32 channels (by camera); 8 channels (by recorder)
Human Attributes	Color, type, bottom color, bottom type, hat, bag, age, gender, umbrella
Motor Vehicle / Non-motor Vehicle Attributes	License plate, plate color, vehicle body, vehicle model, vehicle logo, calling, seatbelt, vehicle interior, vehicle registration location / Vehicle model, vehicle color, number of persons, helmet
AI Search	Supports searching for target video by metadata
Advanced smart functions	
AI by Camera	People counting; stereo analysis; crowd distribution; vehicle density; object monitoring (64 channels); ANPR, create up to 20,000 plate numbers; blocklist and allowlist (32 channels)
Video	
Channels	64 channels
Network Bandwidth	AI disabled: Entry, retention at 1024Mbps, transmission at 800Mbps AI enabled: Entry, retention at 512Mbps, transmission at 400Mbps
Resolution	32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; 720p; D1
Decoding Capability	2-channel 32MP at 30fps; 2-channel 24MP at 30fps; 4-channel 16MP at 30fps; 8-channel 8MP at 30fps; 16-channel 4MP at 30fps; 32-channel 1080p at 30fps; 72-channel 720P at 30fps; 160-channel D1 at 30fps
Video Output	2-channel VGA, 4-channel HDMI video output
Multi-screen Display	Main screen: 1/4/8/9/16/25/36/64; Sub screen: 1/4/8/9/16/25/36
Third Party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon and more
Compression	
Video	H.265+; H.264+; H.265; H.264; MJPEG; MPEG4
Audio	G.711A; G.711U; PCM; G726

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Recording	
Multi-channel Playback	Up to 16 channels
Record Mode	Manual; alarm; motion detection; scheduled
Backup	Portable hard drive, eSATA disk, burner, USB device and network
Playback Mode	1. Play, pause, stop, fast forward, fast backward, rewind, play by frame 2. Full screen, backup (cut/file), partially enlarge, audio on/off
Network	
Mobile Phone Access	Android; iOS
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast; P2P; Auto Registration; iSCSI
Interoperability	ONVIF (profile T/S/G); CGI; SDK
Network Mode	Multi-address mode, load balance, fault tolerance and other network port binding modes
Alarm	
General	Motion detection; video tampering; video loss; scene changing, PIR alarm, IPC external alarm
Anomaly	Offline cameras; storage error; full storage; IP conflict; MAC conflict; login locked; network security anomaly; abnormal behavior of fan
Smart Alarm	Area Protector; face detection & recognition; SMD; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map
Alarm Linkage	Record; snapshot; IPC external alarm output; buzzer; log, preset; email
Storage	
Disk Group	Supported
Hot Swapping	Supported
RAID	0/1/5/6/10
Rear Panel	
Audio Input	1 channel, RCA connector
Audio Output	2 channel, RCA connector
HDD	8 SATA port, up to 16 TB. The maximum HDD capacity varies with environment temperature
USB	2 front USB 2.0 ports, 2 rear USB 3.0 ports
Alarm In/Out	16/8
HDMI/VGA	4/2
eSATA	1
RS-232	1
RS-485	1 × A/B
Network	2 RJ-45 10/100/1000 Mbps self-adaptive Ethernet port
General	
Certifications	FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032:2020, Class A; EN IEC 61000-3-2:2019; EN 61000-3-3:2013+A1:2019; EN 55024:2010+A1:2015; EN 55035:2020; EN 50130-4:2011+A1:2014; CE-LVD: EN 62368-1:2014+A11:2017
Installation	Rack or desktop
Power Supply	100–240 VAC, 50/60 Hz
Power Supply	Less than 18W (without HDD)
Unladen/Laden Weight	17.95 lbs (8.14kg)/26.98 lbs (12.24kg)
Dimensions	444.0 mm × 476.0 mm × 95.0 mm (17.48" × 18.74" × 3.74") (W × D × H)
Operating Temperature	10°C to +55°C (+14°F to +131°F); 10%–93% (RH)
Installation	Desktop or rack

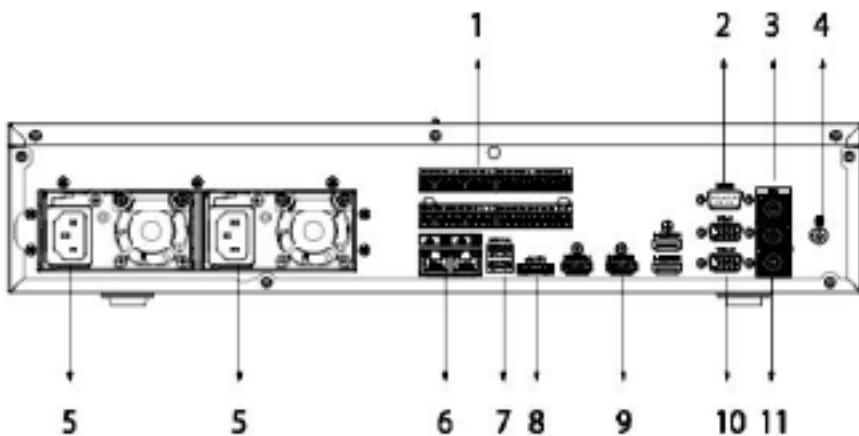
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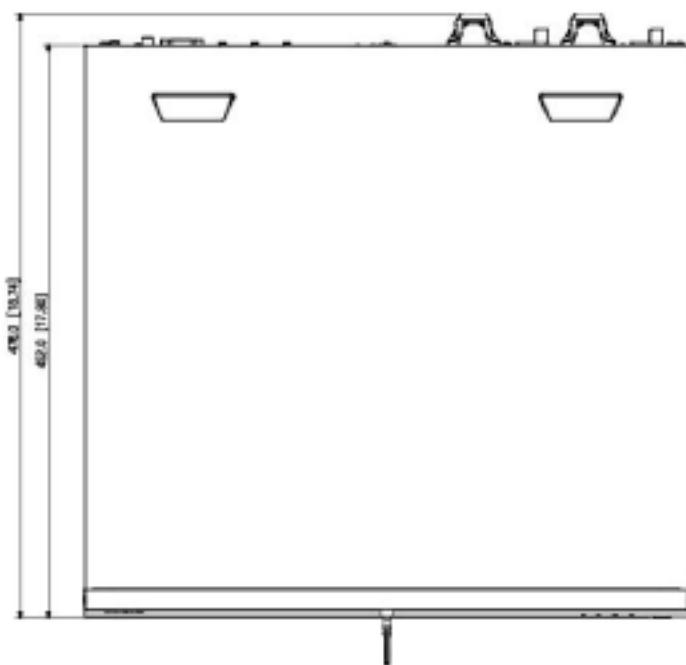
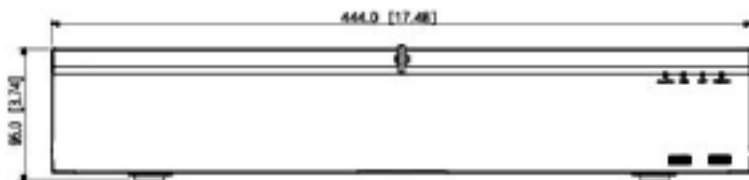
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|----|--------------------------|----|---------------|
| 1 | Alarm In/Out | 2 | RS-232 Port |
| 3 | AUDIO OUT, RCA Connector | 4 | Ground |
| 5 | Power Input | 6 | Network Ports |
| 7 | USB Ports | 8 | eSATA Port |
| 9 | HDMI Ports | 10 | VGA Ports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



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