

INS644KRAIDxT

64 Channel 4K RAID Network Video Recorder

AI+
Network Recorder

- H.265+/H.265 dual-stream video compression
- 4K Resolution using the HDMI port
- RAID mode
- Decodes up to 16-ch at 1080p (30fps). Supports adaptive decoding
- AI+ Analytics: Facial recognition, area protector and more
- Access, storage or forwarding at 384 Mbps



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 RAID Network Video Recorder

System	
Main Processor	Industrial-grade embedded processor
Operating System	Embedded LINUX
Operation Interface	Web/operating in local GUI
Area Protector	
Performance	24 channels
AI Search	Search pictures by channel, time, event type
Face Recognition	
Performance	24 channels
Stranger Mode	6 attributes: Gender, age, glasses, expression, mask, and beard
AI Search	Search pictures by channel, time and face attributes
Smart Motion Detection	
Performance	32 channels
AI Search	Search by target classification (Human, Vehicle)
Metadata	
Performance	12 channels
Human detection	Clothing (can search by colors), hat, bag, gender, age
Vehicle	Plate No., color, vehicle type, logo, ornament, seatbelt, region, if the individual is on the phone, helmet
AI Search	Supports search target video by metadata
Audio Analysis	
Performance	32 channels
AI Search	Search by target classification (Fall Detection, Violence Detection, etc.)
License plate Recognition	
Performance	8 channels
Video	
Channels	32 channels
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 / 1080p / 960p / 720p / D1 / CIF / QCIF
Decoding Capability	16-ch at 1080p (30 fps)
Video Output	VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI1/HDMI2: 3840 × 2160@30 fps, 3840 × 2160 at 25fps, 1920 × 1080, 1280 × 1024, 1280 × 720 1 channel VGA output, 2 channels HDMI output Supports 4K display for both HDMI1 and HDMI2
Multi-screen Display	1st Screen: 1 / 4 / 8 / 9 / 16 / 25 / 36 2nd Screen: 1 / 4 / 8 / 9 / 16
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
Audio	MP2 / G726 / G729 / G722 / G723 / G711A / G711U / PCM
Network	
Network Protocol	HTTP, HTTPS, TCP/IP, IPv4, IPv6, RTSP, UDP, NTP, DHCP, DNS
Mobile Phone Access	Android; iOS
Interoperability	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, Onvif, Canon and more

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Recording	
Multi-channel Playback	Up to 16 channels playback
Record Mode	Manual, Schedule (General, MD (Motion Detection), Alarm, MD & Alarm, Intelligent, POS)
Backup	Hard drive, USB device, eSATA device
Playback Function	1. Play, pause, stop, fast forward, fast backward, rewind, play by frame 2. Full screen, backup (cut/file), partially enlarge, audio on/off
Network	
Network Protocol	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search (Supports STORM IP camera, DVR, NVS, etc.), P2P
Interoperability	ONVIF (profile T/S/G), CGI, SDK
Alarm	
General	Motion detection, privacy masking, video loss, local alarm, PIR alarm, IPC alarm
Anomaly	Front-end device going offline, storage error, full storage, IP conflict, MAC conflict, login lock, network security anomaly
Intelligent Alarm	Area Protector, face detection, face recognition, SMD, video metadata (human, motor-vehicle, non-motor vehicle), ANPR, people counting, stereo analysis, crowd distribution, heatmap, video quality diagnosis
Alarm Linkage	Record, snapshot, IPC external alarm output, buzzer, log, preset, email
Rear Panel	
Audio Input	1 channel, RCA connector
Audio Output	1 channel, RCA connector
HDD	8 SATA III ports, up to 10 TB for a single HDD
Alarm Input	16 channels
Alarm Output	8 channels
eSATA	1 eSATA
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
General	
Power Supply	Single, AC100V-240V, 50-60 Hz
Power Consumption	Less than 20 W (Without HDD)
Weight	23.1 lbs (10.5kg)
Dimensions	440 mm × 452.6 mm × 94.9 mm (17.32" × 17.82" × 3.73")
Operating Temperature	-10°C to +55°C (+14°F to +131°F), +35°C (+95°F) when the raid is enabled
Operating Altitude	3,000 m (9,843 ft)

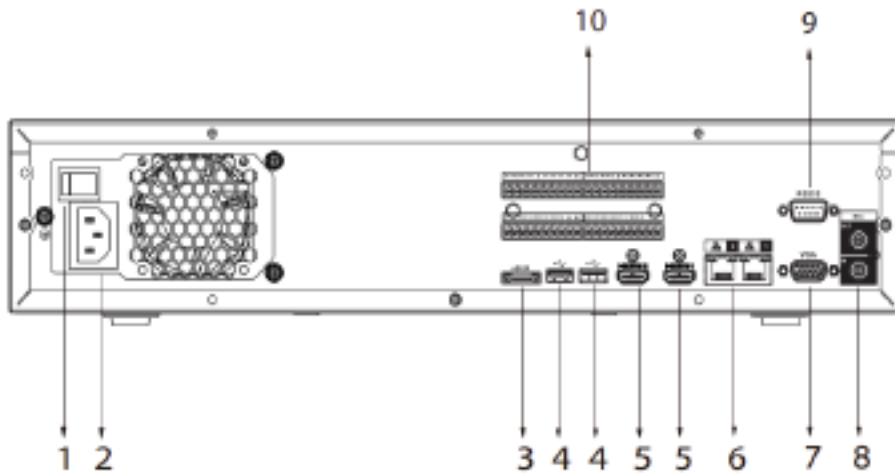
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|---|--------------|----|-----------------------------|
| 1 | Power Switch | 2 | Power Input |
| 3 | eSATA Port | 4 | USB Ports |
| 5 | HDMI Ports | 6 | Network Ports |
| 7 | VGA Port | 8 | AUDIO IN/OUT, RCA Connector |
| 9 | RS-232 Port | 10 | Alarm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



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