

KX-F320R24ST

24-HDD Enterprise Video Storage

Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail.



- Intel Processor
- Max 320 IP Camera Inputs
- Max 640 Mbps Incoming/recording Bandwidth
- 24 HDDs, SATA, Hot-Swap
- Supports RAID 0/1/5/6/10/50/60/JBOD, Hotspare
- iSCSI and Mini SAS for Expanded Storage Space
- Support standard iSCSI Protocol Storage
- Modular & Cableless Design
- Redundant Power

| System | |
|------------------------|--|
| Main Processor | 64-bit high-performance Intel processor |
| Controller | Single controller |
| Memory | 4GB by default |
| Operating System | Embedded LINUX |
| User Interface | Web |
| Working Mode | |
| Video Stream Mode | 320-channel (640Mbps) incoming and recording, 160-channel (320Mbps) forwarding, 32-channel (64Mbps) playback |
| IP SAN Mode | Storage bandwidth ≤2.7Gbps Write-through:320Mbps; Write-back:480Mbps |
| Storage | |
| HDD Amount | 24 HDDs, Up to 10 TB capacity for each HDD SATA HDD composite connection |
| miniSAS | 2 miniSAS ports, for storage extension |
| HDD Installation | Additional HDD bracket, HDD hot-swap, HDD online replacement |
| HDD Mode | Single, RAID 0/1/5/6/10/50/60(Enterprise-level HDDs are recommended), JBOD, hotspare |
| Storage Management | |
| HDD Manager | Non-working HDD hibernation to guarantee sound ventilation, reduce power consumption and enhance HDD life span HDD bad track mapping to enhance HDD life span |
| RAID Rebuild | Dynamically adjust RAID rebuild speed to guarantee system load balance |
| Logic Volume Manager | Support iSCSI volume management, NAS(SMB/NFS/FTP) volume management |
| Snapshot | Support snapshot function, create user volume to back data. |
| Extract Frame | Support extracting P frame function. Customized extracting period and frame rate setup. |
| Cluster Service | N+M cluster service |
| ANR | After disconnection, system can download the record file from the SD card on the network camera to maintain the full record file. |
| Shortcut RAID Creation | Click one button to create RAID conveniently. |

| Playback and Backup | |
|---------------------|---|
| Search Mode | Time/Date, Channel, Alarm, MD and Exact Search (accurate to second) |
| Playback Function | Play, Pause, Stop, Fast play, Slow play, Full screen, Backup selection, Digital zoom |
| Backup Mode | USB Device/Network/eSATA Device |
| Third-party Support | |
| Third-party Support | Dahua, AEBell, Arecont, AXIS, Dynacolor, HIKVISION, LG, Panasonic, PSIA, Samsung, Sony, Vivotek, and more |
| Recording | |
| IP Camera Input | 320 Channel |
| Record Rate | 640 Mbps |
| Record Mode | Manual, Schedule (Regular, Continuous), Motion Detection, Alarm |
| Record Interval | 1 ~ 120 min (default 60 min) Pre-record 1 ~ 30 sec, Post-record 10 ~ 300 sec. I frame storage by period. |
| Auxiliary Interface | |
| USB | 2 USB 3.0 |
| eSATA | 1 eSATA |
| RS232 | 1 Port, for PC communication and Keyboard |
| Network | |
| Interface | 1 management RJ-45 ports (10/100/1000Mbps) 4 data RJ-45 ports (10/100/1000Mbps) |
| Network Mode | Multi-address, Fault-tolerance, Load balance, Link aggregation |
| Network Function | HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTP, RTCP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, iSCSI, SMB, NFS, FTP, Alarm Server, IP Search (Support KBVISION IP camera,DVR, NVS, etc.) |
| Expansion Interface | 2 Ten Gigabit Optical Fiber Interface |
| Max. User Access | 128 users |
| Smart Phone | iPhone, iPad, Android |
| Interoperability | ONVIF 2.4, CGI Conformant |

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| Electrical | |
|--------------------|--|
| Power Supply | AC100V ~ 240V, 47 ~ 63 Hz 1 + 1 Redundant power, Hot-swap |
| Power Consumption | 200W ~ 400W (With HDD) |
| Fan | DC12V, 1.5A, Diameter 80mm MTBF > 100,100 hours, Hot-swap |
| Environmental | |
| Working Conditions | 0°C ~ +40°C (+32°F ~ +104°F), 10% ~ 80% RH |
| Storage Conditions | -20°C ~ +70°C (-4°F ~ +158°F), 5% ~ 90% RH |
| Working Altitude | -60m ~ 3000m |

| Construction | |
|---------------------------|---|
| Chassis | 1.2mm extra-thickness hot-dip galvanized steel. High accuracy aluminum alloy slider. Self-developed patent removable HDD bracket. |
| Dimensions (W x D x H) | 4U, 482.6mm x 494.0mm x 175.0mm; (19.0" x 19.4" x 6.9") |
| Net Weight | 27kg (59.5 lb) (without HDD) |
| Gross Weight | 38kg (83.8 lb) |
| Installation | Standard 19-inch rack installation |