

# KX-F320R16ST

## 16-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
- 16 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 $\leq$ 2.7Gbps Write-through: 320Mbps; Write-back: 480Mbps
Storage	
HDD Amount	16 HDDs, Up to 10 TB capacity for each HDD SATA HDD composite connection
miniSAS	1 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	1 USB 3.0
Multiplex Interface	1 USB 2.0 & eSATA multiplex interface
RS232	1 Port, for PC communication and Keyboard
Network	
Interface	2 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 IPcamera, DVR, NVS, etc.)
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android

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Interoperability	ONVIF 2.4, CGI Conformant
<b>Electrical</b>	
Power Supply	AC100V ~ 240V, 47 ~ 63 Hz, 1 + 1 Redundant power
Power Consumption	< 200W (With HDD)
<b>Environmental</b>	
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

<b>Construction</b>	
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)	3U, 484.6mm x 473.6mm x 133.2mm; (19.1" x 18.6" x 5.2")
Net Weight	11kg (24.3 lb) (without HDD)
Gross Weight	16kg (35.3 lb)
Installation	Standard 19-inch rack installation