KBVISION

KX-FW320STR24ST
24-HDD Enterprise Video Storage

· Intel Processor
· Max 320 IP Camera Inputs
· Max 640Mbps Incoming/recording Bandwidth
· 24 HDDs, SATA, Hot-Swap
· Supports RAID 0/1/3/4/5/6/10/50/60/JBOD, Hotspare
· iSCSI and Mini SAS for Expanded Storage Space
· Support standard iSCSI Protocol Storage
· Modular&Cableless Design
· Redundant Power

Technical Specification

System

Main Processor	64-bit high-performance Intel processor
Controller	Single controller
Memory	4GB by default(Optional Extension 128GB SSD)
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
Transfer Mode	4096Mbps front-end connection 4096Mbps network transfer
IP SAN Mode	Storage bandwidth ≤2.7Gbps Write-through:320Mbps;Write-back:480Mbps

Storage

HDD Amount	24 HDDs, Up to 8TB 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 0/1/3/4/5/6/10/50/60(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. Customizied extracting period and frame rate setup.
Cluster Service	N+M cluster service
ANR	After diconnection, 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 conveniectly.

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	AEBell, Arecont, AXIS, Dynacolor, LG, Panasonic, PSIA, Samsung, Sony, Vivotec, and more

Recording

IP Camera Input	320 Channel
Record Rate	640 Mbps
Record Mode	Manual, Schedule(Regular, Continous), 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 IP camera, DVR, NVS, etc.)
Expansion Interface	2 Giga Optical Fiber Interface
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android
Interoperability	ONVIF 2.4, CGI Conformant

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℃ ~ +40℃ (+32°F ~ +104°F), 10 % ~ 80% RH
Storage Conditions	-20℃ ~ +70℃ (-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