KBVISION

KX-F512R48ST

48-HDD Enterprise Video Storage

· 64-bit High-performance multi-core processor
· Max 512-ch IP camera inputs
· Max 1024 Mbps incoming/recording/forwarding bandwidth
· 48 HDDs, SAS/SATA, Hot-Swap
· Supports RAID 0/1/5/6/10/50/60, JBOD, Hot spare
· Supports video stream/ Picture direct storage mode and IPSAN storage mode
· Supports N+M cluster
· Supports Automatic Network Replenishment (ANR)
· SAS cascade for expanded storage space
· Modular and drawer-like design
· 1+1 redundant 80PLUS platinum power supply
· BBU battery (Optional) for abnormal power failure

System	
Main Processor	64-bit multi-core processor
Operating System	Embedded LINUX
Operation Interface	Web
Controller	Single controller
RAM	8 GB by default (extendable to 64 GB)
Power Redundancy	1+1

External Ports	
SAS	2 mini SAS HD ports with maximum speed 12Gb/s
Network	1×1GbE management port; 4×1GbE LAN ports
Network Extension	4×1-GbE LAN ports; 2×10-GbE optical fiber ports
eSATA	1×eSATA
RS-232	1×DB9
HDMI	1×HDMI

Internal Expansion	
M.2 SSD	2×NVMe SSD ports
PCI-E	1×PCI-E X8; 1×PCI-E X4
Disk	1×2.5-inch SATA

Disk	
Disk Bay	48
Disk Type	1TB; 2TB; 3TB; 4TB; 5TB; 6TB; 8TB; 10TB; 12TB; 14TB; 16TB; 2.5-inch and 3.5-inch HDD Support simultaneously connecting to SATA/SAS/SSD
Disk Installation	Independent disk tray
Hot Swapping	Yes
RAID Type	RAID 0/1/5/6/10/50/60; JBOD; hot-spare
Disk Processing	Bad sector mapping
Disk Management	Non-working disks automatic sleep
Disk Inspection	Inspection before use and during use

Performance	
Video Direct Storage (Private Protocol)	Up to 512-channel (1024 Mbps) access, storage, and forwarding; 32-channel (64 Mbps) online playback
Video Direct Storage (ONVIF)	Up to 512-channel (1024 Mbps) access, storage, and forwarding; 32-channel (64 Mbps) online playback
Video Direct Storage (Auto Register)	Up to 512-channel (1024 Mbps) access, storage, and forwarding; 32-channel (64 Mbps) online playback
Picture Direct Storage	Up to 512-channel access, storage, and forwarding (250 KB/Picture)
IPSAN Performance	Write-through: 900 Mbps Write-back: 1200 Mbps

Function	
IPSAN Mode	Yes
IPSAN Function	Dynamic online extension of logic volumes
Video Storage	Direct storage
Network Protocol	RTP; RTCP; RTSP; UDP; HTTP; NTP; SNMP; iSCSI
RTSP	ONVIF; GB28181
Cluster	N+M
Automatic Network Replenishment (ANR)	Videos during network failure upload to EVS automatically afterwards
Network Mode	Link aggregation, fault tolerance
Quick RAID	Yes
RAID Instant Use	Yes
RAID Rebuilding	Self-adaptive rebuilding
RAID-write Synchronization	Yes
Record Mode	Scheduled, manual, motion-triggered and alarm triggered
Video Playback	Web playback, concentrated playback, slice playback, synchronous playback Search video by second Adjustable playback speed

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

Video Codec	Access by cameras with encoding formats of MPEG4, MJPEG, H.264, H.265, and SVAC Access by multi-sensor cameras, thermal cameras, and panoramic cameras
Video Backup	Back up video through USB, network, and eSATA
General	
Power Supply	100–127V/200–240V AC, 50/60Hz, 8A/4A
Fan	Dual ball-bearing fans
Power Consumption	<800W (include disks)
Operating Temperature	0°C to 45°C (32°F to 113°F)
Operating Humidity	10%–80% (RH) (non-condensation)
Storage Temperature	−20°C to +70°C (−4°F to 158°F)

Storage Humidity	5%–90% (RH) (non-condensation)
Operating Altitude	≤5000 m
Chassis	1.2 mm hot dip galvanized steel plate Independent developed pull-out disk tray
Dimensions	With hanger: 482.6 mm × 261.4 mm × 736.5 mm (19" × 10.29" × 29") (W × H × D) Without hanger: 446 mm × 261.4 mm × 736.5 mm (17.56" × 10.29" ×29") (W × H × D)
Net Weight	36 kg (79.37 lb)
Gross Weight	75 kg (165.35 lb)
Installation	Standard 19 inch rack