

DS-A83024S-ICVS (v2) 24-slot High-performance Cluster Storage



- Next generation hardware platform featuring high level new controller design (24 HDD slot, 4U single controller with two 6-core processors, 64 GB cache)
- Streaming data management structure for high system performance
- Storage virtualization/distribution/scale-out/load balance
- High speed data rebuild at up to 2 TB/ hour
- Able to tolerate up to 4 device failure without data loss
- Ultra-fault-tolerant IRAID (based on erasure code) supporting data protection among devices
- User-friendly operation and maintenance
- N + M architecture

▪ Specification

External interface	
USB	3 (2 × USB 3.0, 1 × USB 2.0)
Data network interface	6, 1000M Ethernet interface (8 × GbE or 4 × 10GbE is extendable)
MiniSAS interface	3, 12 Gbps SAS 3.0 interface
COM	2 (1 for RS-232, 1 for RS-485)
Management network interface	1, 1000M Ethernet interface
HDD	
HDD Model	Hikvision,DS40HKAI-VX1,4T; Hikvision,DS60HKAI-VX1,6T; Hikvision,DS80HKAI-VX1,8T; Hikvision,DS100HKAI-VX1,10T; Hikvision,DS160HKAI-VX1,16T; Hikvision,DS200HKAI-VX1,20T;
Storage Management	
Cache protection	Supports customizing BBU in case of unexpected power failure to protect the cache data from being lost
Disk management	Disk detection pre-alarm and repair
Device Maintenance	
Management mode	GUI based on web, serial port CLI, platform
User-Friendly Operation and Maintenance	Supports abundant alarm management methods, including alarm via indicators, mobile phone messages, emails, etc. to raise device maintenance efficiency
Alarm mode	Audio, indicator (HDD normal detection, HDD not available, HDD detected, HDD fail), GUI (HDD capacity and Usage; temperature of backboard, HBA card and CPU ; fan working status; power module working status; video and network connection loss, IP address conflict)
Recording Management	
CVA	Device access, recording schedule, and stream forwarding services
CVS	Data storage, video/picture access, storage space, and data R/W services
Direct Storage of Mixed Stream	Supports mixed storage of H.264,H.265,H.264+,H.265+ video stream and picture stream
Synchronous Playback	16-ch
Network	
Protocol	HTTPS, DHCP, TCP/IP, IPv4, IPv6, NTP, RTSP, UDP, RTSP,PSIA
Protocol with Platform	P2P, iSCSI, FTP, SMB, NFS, ONVIF (Profiles S,G,T,M)
Storage	
Interface/capacity	SATA 4TB, 6TB,8TB,10TB,12TB,14TB,16TB,18TB,20TB
HDD slot	24
RAID	I RAID: N + M: K, N + M ≤ 16, M ≥ K, N ∈ [1, 15], M ∈ [1, 4], K ∈ [1, 4]
Performance	
Standard cluster (2 Mbps)	600-ch
Video performance	600
Picture performance	350
Controller	
Processor	2 Xeon 64-bit multi-core processors
RAM	32 GB DDR4 standard, extendable to 384 GB
Operation system	Linux
General	
Power supply (rated)	Redundant 1 + 1, ≤ 550 W
Consumption (with HDDs)	≤ 484 W
Environment temperature	● Working: +5 °C to +40 °C (+41 °F to +104 °F)

	<ul style="list-style-type: none"> ● Storing: -20 °C to +70 °C (-4 °F to +158 °F)
Environment humidity	<ul style="list-style-type: none"> ● Working: 20% to 80%RH (non-condensing/frozen) ● Storing: 5% to 90%RH (non-condensing/frozen)
Dimension (W × H × D)	484 x 174 x 760 mm (19.1 x 6.9 x 29.9 inch)
Weight (without HDDs)	≤ 43 kg (94.8 lb)

▪ Available Model

DS-A83024S-ICVS

DS-A83024S-ICVS(HTL Ajman)/12T*12

DS-A83024S-ICVS(HTL)

DS-A83024S-ICVS/Micro

DS-A83024S-ICVS/256TB(RAK Police)

DS-A83024S-ICVS(HTL Ajman)/12T*16

DS-A83024S-ICVS(NEXUS /BOL)

DS-A83024S-ICVS(WASKO S.A.)

DS-A83024S-ICVS/320TB(RAK Police)

DS-A83024S-ICVS(HTL Ajman)/12T*23

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