HIKVISION®

Designed for more reliable and stable data storage

Hikvision Micro Cluster Storage

Most CCTV security installations keep the number of supported cameras under 2,000. However, there is growing market demand for more cost-effective solutions, where customers need higher scalability and extensibility to support more cameras in one system and record more footage. That's where Hikvision's Micro-Cluster Storage comes in.
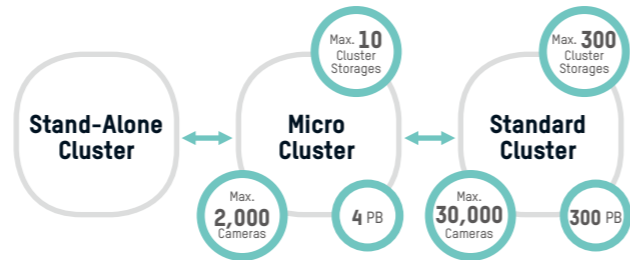
Micro Cluster Storage
PRODUCT SPECIFICATIONS

COST-EFFECTIVE SOLUTION

Compared to conventional SAN/NAS cluster solutions, Hikvision's micro cluster storage reduces your expenditures on recording servers. With conventional solutions, **every 200 IP cameras require at least one server**, while also reducing the possibility of a server breaking down.

No need of recording servers
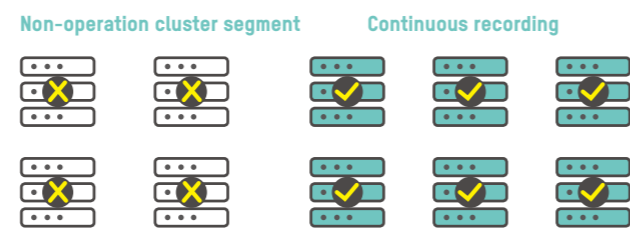**Direct streaming mode**

FLEXIBLE EXTENSIBILITY

A micro cluster supports up to 2,000 cameras with the maximum storage reaching 4 PB, while a standard cluster supports up to 3,0000 cameras with the maximum storage reaching 300 PB. A single cluster can be extended to a micro cluster and vice-versa to meet a variety of demands and scenarios.

Max. **10** Cluster Storages
Max. **300** Cluster Storages

Stand-Alone Cluster ↔ **Micro Cluster** ↔ **Standard Cluster**

Max. **2,000** Cameras **4** PB
Max. **30,000** Cameras **300** PB

SAFE AND RELIABLE

The reading and writing of videos won't be affected if a cluster segment begins to operate abnormally. In a micro cluster system, all video will be recorded even when up to four devices break down; additionally, video playback and downloading won't be affected. For hardware issues, data will be restored at the rate of 2 TB per hour – a generous enhancement to overall efficiency.

Data protection among clusters

Non-operation cluster segment   **Continuous recording**

MODEL		DS-A81024S-ICVS	DS-A81048S-ICVS	DS-A83024S-ICVS	DS-A83048S-ICVS
Performance	Video (2 Mbps)	240-ch	240-ch	600-ch	600-ch
Controller	Processor	64-bit multi-core processors		2 Xeon 64-bit 6-core processors	
	Cache	16 GB	32 GB	64 GB standard, extendable to 384 GB	
HDD	HDD slot	24	48	24	48
	Interface	SAS, SATA			
	Capacity (TBs)	1, 2, 3, 4, 6, 8, 10, 12 (enterprise HDDs)			
	RAID	IRAID: N + M: K, N + M ≤ 16, M ≥ K, N [1, 15], M [1, 4],			
	Hot-swapping	Supported			
Storage	Disk	Disk detection pre-alarm and repair			
	Cache protection	Supports customizing BBU in case of unexpected power failure to protect the cache data from being lost.			
Recording	Cluster access module	Device access, recording schedule, and stream forwarding services			
	Cluster storage module	Data storage, video/picture access, storage space, and data R/W services			
Maintenance &Management	Management method	GUI based on web, serial port CLI, platform			
	Alarm method	Audio, Indicator, GUI			
Network	Protocol	RTSP, ONVIF, PSIA, etc.			
Interfaces	Data network interface	4, 1000M Ethernet interface (8 × GbE or 4 × 10 GbE is extendable)		6, 1000M Ethernet interface (8 × GbE or 4 × 10 GbE is extendable)	
	Management network interface	1, 1000M Ethernet interface			
Video Management Platforms		HikCentral			
Authentication		CE, FCC, UL			

Designed and developed for the Internet of Things

Hikvision Micro Cluster Storage

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