



Micro Cloud Storage The Bridge to Next-generation Surveillance

Overview

Dahua Micro Cloud Storage (MCS) is a brand-new video surveillance storage device for mid-large scale applications that adopts leading technologies, such as object storage and distributed clusters, allowing customers to deploy private and reliable video cloud infrastructures to solve surveillance data challenges.





Surveillance Trends

With decreasing camera prices and an increase in resolution, retention period, and video intelligence utilization:

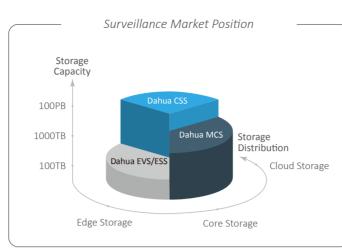
- 1. Volume of surveillance is moving from terabytes to petabytes scale.
- 2. Velocity of data is rising from megabytes to gigabytes throughput.
- 3. Variety of data is complicated, comprising both small and large files.
- 4. Value is extracted from video via VCA (video content analysis) and AI (artificial intelligence) techniques.

According to the '4V', video surveillance is a 'big data' problem that calls upon cloud technology for a solution, just as other big data industries do. Importantly, storage is the cornerstone of next generation surveillance while MCS products provide a bridge for you to attain the latest in storage technology.

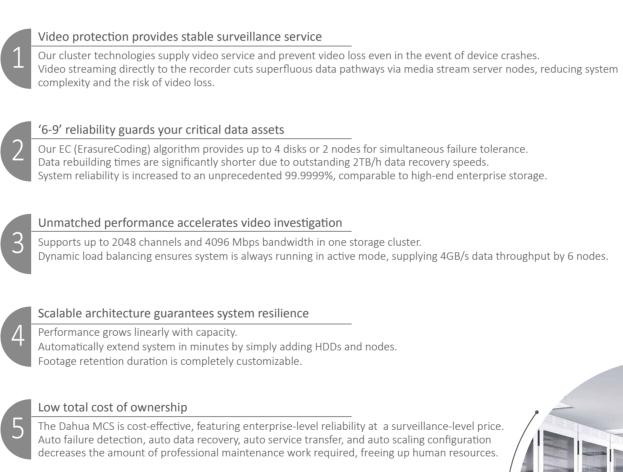
Customer Challenges



Surveillance Market



6 Reasons to Add MCS to Your Surveillance System



Leading object storage

While most IT and big internet companies have turned to cloud technologies, IP-based urveillance fuses cloud computing, artificial intelligence, and video imaging technologies. the near future, we will see the establishment of a next-gen surveillance industry which integrates into industry appliances, requiring sound infrastructure. Nevertheless, the storage of data is the prerequisite for the success of this future.

MCS Deployment

The Dahua MCS is suitable for core surveillance storage applications, and is designed for data intensive and video awareness scenarios. The MCS is comprised of high-density hardware, object storage software, and video access & streaming software.

Dahua DSS Application Layer Dahua SDK Storage Layer Cloud Storage Dahua SDK / Onvif Collection Layer Front-end Surveillance Device MCS Deployment Architecture **Application Scenarios**

High volume surveillance data



Footage critical for evidence





• Scale and retention flexibility





Intelligent Scalable Storage Solution Grow Your Business with the Dahua MCS

Technical Specifications

System		MCS cluster	
System Architecture	Cluster Architecture	Distributed object storage architecture, cluster deployment	
	Distributed Storage	Erasure coding technology	
	Data Tolerance Mode	Dynamic EC N+M: 4+1, 8+2, 7+2, 1+1, 3+1, 1+2	
Performance	System Scale	2-10 nodes	
	System Capacity	Supports up to 240 HDDs (10 nodes × 24 HDDs)	
	Streaming System Bandwidth	Up to 4096 Mbps	
	Streaming System Channel	Up to 2048 channels	
	Data Recovery Speed	Up to 2TB/h (6 or more nodes, high speed recovery)	
	File Download Speed	Up to 100MB/s	
Flie System Features	File System	Distributed file system	
	Load Balancing	Real time dynamic load balancing based on capacity and performance	
	Fault Tolerance	File-level and device-level fault tolerance, data is not lost even with multiple disk failure	
	File-based Data Recovery	Automatic fault detection and file-based recovery. Valid data recovery instead of entire disk recovery	
Scalability	Customization Storage Duration	Can configure video storage duration for channels	
	Elastic Expansion	Online HDD expansion for scaling up, online data node expansion for scaling out	

Model		DHI-MCS7024R-M	DHI-MCS7024R
System	Node Type	Metadata node + Data node + Streaming node	Data node + Streaming node
	Processor	Intel i7 quad-core processor	
	Memory	32GB DDR4	16GB DDR4
Drive / Storage	HDD Bays	24 HDD slots, 2.5"/3.5", SAS/SATA	
	HDD Installation	Independent HDD bracket, HDD hot-swap and online replacement	
Network	Interface	8 × RJ-45 (10/100/1000Mbps)	
	Interoperability	ONVIF 2.4, CGI conformant	
Electrical	Power Input	AC 110V ~ 240V, 50 ~ 60Hz, Hot-swap. 1+1 redundant, 550W CRPS Current-Sharing Power Supply	
	Fan	12 dual-ball bearing fans, MTBF > 400,400 hours, Hot-swap	
Construction	Form Factor	4U rack server, standard 19-inch rack-mounted	
	Dimensions	446.0 mm wide × 175.0 mm high × 514.5 mm deep (17.6 × 6.9 × 20.3 inches)	
	Net Weight	21.95 kg (48.39 lb) (without HDD)	
	CE	EN55032, EN55024, EN50130-4, EN60950-1	

ENABLING A SAFER SOCIETY AND SMARTER LIVING

Dahua Mexico Tel: +52 55 67231936 Email: sales.mx@global.dahuatech.com

Dahua Brazil Tel: +55 11 32511871 Email: comercial.br@global.dahuatech.com

Dahua Thailand Tel: +66 29382674 Email: info.th@global.dahuatech.com hr.th@global.dahuatech.com

Dahua S.Korea Tel: +82 7081618889 Email: DH-KOREA@global.dahuatech.com

Dahua Singapore Tel: +65 65380952 Email: info.sg@global.dahuatech.com

Dahua Turkey Email: sales.tr@global.dahuatech.com

Dahua Indonesia Email: support.id@global.dahuatech.com sales.id@global.dahuatech.com Dahua Malaysia Tel: +60376620731 Email: sales.mas@global.dahuatech.com

Dahua India Tel: +91 1244569100 Email: sales.india@global.dahuatech.com

Dahua Russia Tel: +7 (499) 682-60-00 Email: info@global.dahuatech.com

Dahua Kazakhstan Tel: +7 727 3110838

Dahua UK Tel: +44(0)1628 673 667 Email: sales.UK@global.dahuatech.com

Dahua Europe Tel: +31 797999696

Dahua France Email: sales.france@global.dahuatech.com Dahua Iberia Tel: +34 917649862 Email: sales.iberia@global.Dahuatech.com

Dahua Italy Tel: +39 3703446609 Email: sales.italy@global.dahuatech.com

Dahua Germany Email: sales.de@global.Dahuatech.com

Dahua CEE & Nordic Tel: +48 223957400 Email: biuro.pl@global.dahuatech.com

Dahua S. Africa Email: Dahua.sa@global.dahuatech.com

Dahua Australia Tel: +61 299285200 Email: sales.oc@global.dahuatech.com

Dahua Middle East Tel: +971 48815300 Email: sales.me@global.dahuatech.com

* Design and specifications are subject to change without notice.



DAHUA TECHNOLOGY No.1199 Bin'an Road, Binjiang District, Hangzhou, China. 310053 Tel: +86-571-87688883 Fax: +86-571-87688815 Email: overseas@dahuatech.com www.dahuasecurity.com Micro Cloud Storage - 01 , Mar. 2018

