URBAN ROAD MONITORING AND STORAGE SOLUTIONS WITH NEXSAN E-SERIES

CUSTOMER OVERVIEW

In recent years, investment in infrastructure in China has been increasing, primarily in road construction. The traffic situation has continually worsened as the road construction hasn't been able to keep up with the rapid growth in number of vehicles which is a common problem in almost all cities. Therefore, an effective solution for improving the current traffic situation is to establish a fully functional traffic monitoring system in the urban traffic management department. HD video surveillance equipment installed at intersections provides Ningbo government with basic data and intelligence on urban traffic. By analyzing the actual needs gathered through the intersection traffic records and illegal traffic maneuvers, they can prioritize the order of road traffic projects to alleviate the traffic jams to ensure the safety of road traffic flow.

NINGBO CITY

Ningbo is a national historic and cultural city and the fourth largest port city in the world. Ningbo is the eastern port of departure of the "maritime silk road." It is an industrial and commercial city in east China and one of the economic centers of Zhejiang province.

PROJECT

Nexsan underpins a comprehensive and reliable storage solution for road traffic monitoring in Ningbo in order to build Ningbo intelligent transportation network and "safe Ningbo." Ningbo road monitoring system consists of front-end video surveillance equipment, mixed communication network system, video processing and analysis system and the storage system. Ningbo Traffic Police Bureau require HD video surveillance data to be stored for 30 days, and all illegal behavior video data and/or HD snapshot photos of the vehicle must be stored for 2 months, requiring a total storage of 30PB. The continuous storage and management of the traffic data is of key priority to the overall project.

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SOLUTIONS AND FEATURES

Nexsan provides users with a high-density and centralized SAN storage solution required for the mass storage space of the front-end video surveillance system with HD cameras, and realizes the centralized store and management of video monitoring data.

Features:

- **Flexibility.** Nexsan E60 supports different types and brands of video monitoring servers simultaneously and can expand storage space online without any interruptions in service.

- **Ease of Expansion:** Easily update or add to the environment at any time including the increase in front-end ingestion devices (cameras, etc.), network equipment, and back-end data processing equipment (video surveillance server).

- **Stability.** Nexsan E60 provides multiple storage paths to servers for a high-bandwidth SAN storage network. This improves business performance by adding expanded devices online at any time.

- **Performance.** Nexsan E60 provides the high-speed video data store and play back for customers. The E60 uses two controllers to create a dedicated iSCSI and FC hybrid SAN storage network. Each controller provides up to four 16Gb FC ports or four Gigabit iSCSI ports, and one device can support thousands of streaming writes of HD video.

- **High density.** The E60 with 60 hard drives in 4U offers lower TCO.

- **Capacity for Growth**. Nexsan E60 can scale to 2.16PB by adding two expansion units with 12TB hard disks.

- **Redundant fault tolerance.** All hardware redundancy (including power supply, fan, controller, etc.) supports online maintenance, and there is no single point of failure that makes the system unavailable.

- **Green storage.** Nexsan's unique energy-saving technology AutoMAID™ saves up to 87% on energy and cooling. AutoMAID is a true "set it and forget it" feature that allows the administrator to define policies for RAID disk sets to lower the power based on disk activity. For video surveillance, the storage can be configured with 7 RAID disk sets, one for each day of the week. In this configuration only one RAID disk set needs to be powered up at any given time to accept that day's data, resulting in startling power savings. Of course all drives are accessible as needed for the viewing or processing of all video on the SAN.

ABOUT NEXSAN

Nexsan® is a global enterprise storage leader, enabling customers to securely store, protect and manage critical business data. Established in 1999, Nexsan has built a strong reputation for delivering highly reliable and cost-effective storage while remaining agile to deliver purpose built storage. Its unique and patented technology addresses evolving, complex enterprise requirements with a comprehensive portfolio of unified storage, block storage, and secure archiving. www.nexsan.com

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