

# Sun™ Open Video Surveillance Solution

High capacity solutions that stretch your security budget



Leverage the power, flexibility and economy of open IT in the surveillance world without compromise. Sun offers the most advanced and flexible video surveillance solution available today, providing incredibly high capacity, greater retention time, and efficient yet secure access to data. The Sun™ Open Video Surveillance solution provides simple, high-capacity digital video surveillance platforms that address performance and scalability challenges in today's security environments. Through integration with the Sun™ Customer Ready Infinite Archive System, organizations can also benefit from extended capacity and cost-effective support for the long-term retention of video content.

## Outgrowing traditional surveillance solutions

Today's security managers are being asked to continuously monitor increasingly large areas, and many organizations are reaching the limits of their existing video surveillance solutions. Stricter safety mandates are driving requirements for more cameras, higher resolution video, longer retention periods, and advanced features found in current Network Video Recorder (NVR) software.

Analog surveillance solutions such as tapes and VCRs are becoming largely obsolete because of the need for physical handling and the delays that are caused by having to search their media sequentially. Some digital systems have limitations on the amount of addressable storage, thus restricting the number of cameras that can be used and placing a cap on retention time. Many solutions lack adequate processor power or I/O throughput, resulting in slow response when searching through terabytes of images to identify activity at pinpointed times and places.

## The Sun solution

As the industry's foremost archive solution and open systems provider, Sun Microsystems stands alone in offering the most advanced, most highly scalable video surveillance platform available today. The Sun Open Video Surveillance solution can be flexibly configured to integrate best-of-breed components from a variety of premier surveillance software providers and camera suppliers with innovative server and storage systems

from Sun. This unique solution delivers a new level of affordability and capacity to video surveillance with a complete offering that costs up to one-third less than traditional solutions. It enables true sharing and optimization of resources across a distributed infrastructure of servers, databases, and networks. It also helps ensure ruggedness through system-level clustering, load balancing, and failover support.

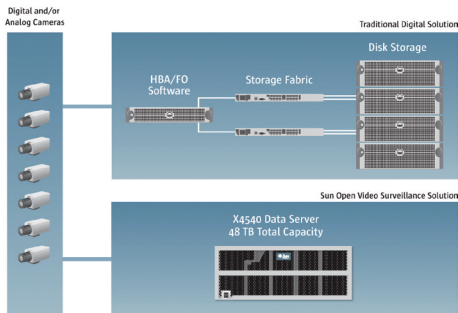
## Massive power and scalability

The Sun Open Video Surveillance solution is designed to scale to meet both current and future needs. The most popular implementation of the Sun Open Video Surveillance solution provides an integrated platform that is specifically designed and configured for digital video surveillance applications. With a vast video storage capacity of up to 48 TB and high I/O bandwidth support, the appliance supports up to 10 times more cameras than traditional analog implementations. With throughput of up to 1 Gb/sec from disk to network and up to 2 Gb/sec from disk to memory, it is ideal for streaming video.

Competing platforms typically support only 32 cameras and allow just 30 days of data retention, the Sun Open Video Surveillance solution supports up to 120 cameras per server and more than 60 days of data retention (based on video resolution of 640 x 480 dpi at 15 frames/sec). In addition, the solution architecture is completely modular, allowing for pain-free changes as future loads demand.

## Highlights

- A powerfully simple, high-capacity digital surveillance solution that costs up to one-third less than traditional offerings
- High performance and high I/O throughput, enabling increased cameras per server
- Cost-efficient, scalable architecture that can gracefully grow with your business
- Takes advantage of Sun's Open Storage Strategy to enable freedom of choice and protect against vendor lock-in
- Easy-to-use solution that is simple to deploy and administer
- Optional Sun Customer Ready Infinite Archive System supports demanding scalability and longer term retention requirements



*The integrated architecture of the Sun™ Open Video Surveillance solution enables implementations that are much simpler and more efficient than traditional digital solutions.*

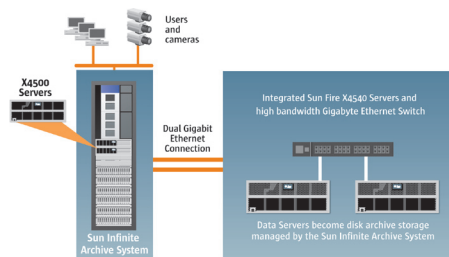
Traditional storage architectures involve multiple components with external storage and networking. An application server is typically connected to an external storage layer using host bus adapters and Fibre Channel switches. This not only limits I/O bandwidth, but also adds administration complexity for managing the storage-area network (SAN). By contrast, the appliance-level implementation of the Sun Open Video Surveillance solution is a model of simplicity and integration. Both the application server and the storage management software run on the same device. This “single-box” solution results in greatly increased I/O throughput.

### Cost-effective and secure tiered storage archiving

For long-term archiving needs, the Sun Open Video Surveillance solution can incorporate the optional Sun Customer Ready Infinite Archive System, a centralized, cost-effective, tiered repository that features built-in data protection and seamlessly matches the value and frequency of data access with the cost of the storage tier on which it resides. Data is automatically protected as multiple copies are made and kept on disk and tape.

Sun Customer Ready Infinite Archive System includes three tiers of storage.

- Tier one storage is typically kept on disk cache and is most often used for working set data, such as video that is very recent and most likely to be accessed or older video that is in the process of being searched. For practical purposes, this tier can be considered as being online.
- Tier two storage can be conceived of as a disk archive, and is provided by lower performance but more cost effective disk media that still provides performance as high as 3Gb/sec.
- Finally, once video data ages and reaches a stage in which it is unlikely to be needed for immediate access, it can be moved to tier three storage, or digital tape libraries.



*Sun Open Video Surveillance solution: High Capacity Implementation— Multiple Sun Fire™ X4540 servers can be integrated within a single Sun Infinite Archive System enclosure for a compact, super capacity, high performance surveillance solution with maximum data protection and preservation.*

### Platform independence

The Sun Open Video Surveillance solution can be easily added to any heterogeneous network environment. Integration is straightforward as the same server and storage hardware from Sun can run in Solaris™ 10 OS, Linux, or Microsoft Windows environments. Moreover, when the solution is implemented with the Sun Customer Ready Infinite Archive System, data that exists on separate network-attached storage (NAS) devices can be conveniently and simply managed from a single point.

### Learn More

For more information about these and other Sun partners is provided at [sun.com/videosurveillance](http://sun.com/videosurveillance).

### Easy to deploy, simple to use

The Sun Open Video Surveillance solution is designed for fast deployment and ease of operation. With Sun’s premier video management software partners, a simple Web-based interface supports easy access over the network, so security managers can view and manage video streams anytime, from any browser based device.

The Sun Open Video Surveillance solution is easy to navigate and simple to learn, minimizing the need for training. It can be up and running quickly, and its simplified architecture can gracefully scale to enable a single system administrator to remotely manage hundreds of servers with thousands of connected cameras.

### Support at every step

Mitigate the risk of new technology integration with planning and project management services that help avoid costly, time-consuming disruptions. The Sun Open Video Surveillance solution is fully supported by Sun’s world-class service and support organization. Maximize the value of IT assets with Sun™ System Packs, which combine the Sun Open Video Surveillance solution with services in one offering. Sun System Packs provide 24-hour technical support by phone, extended onsite coverage hours, SunVIP™ cross vendor/platform problem management, and access to online learning resources to help accelerate performance from day one.