



**T**he demand for storage capacity to record video surveillance image is growing at an unprecedented rate driven by increasing high resolution cameras and longer data retention policies.

In recent years, video surveillance has shifted from analogue to digital data archiving; which recording streams via digital video recorder (DVR) or network video recorder (NVR) to external storages with RAID features data protection. Furthermore, critical record would request infrastructure like storage area network (SAN) to achieve performance, scalability and reliability.

Arena offers a complete range of DAS/SAN solutions to meet the critical requirement of modern video surveillance application, various features are tailored for it and various configurations can fulfil different demand.



## FEATURE HIGHLIGHTS

### Self Encrypting Drives

Stolen data can mean high customer notification costs, tarnished reputation, and a loss of customers. Arena support SED (Self Encrypting Drives) which is hardware based, disk drive integrated encryption for data resided in the disks. Automatically locks the drive and secures the data while a drive is removed from RAID system. That provides government-grade data security helping ensure Safe Harbor for data privacy compliance without hindering IT efficiency.

### Hot Swappable RAID Group

The Disk Group (DG) can be portable as a removable media. The DG offload function is default; without any software or special drivers support. With an easy command, designed DG would be able to hot swap while system is still on, to move and install to off-site storage system. This tailored function allows playing back historical data requested by off-site users without interrupting any on-line surveillance activity.

### Easy configuration and management

The user friendly interface delivers easy configuration and monitoring through LCD indicator on the front panel and/or web-based GUI management. Active notification will be delivered automatically from configured SNMP/SMTP or through MSN if any special events occurred.

### AV Streaming for Video Performance

Video surveillance application present a very different data workload to IT based application. The recording data is transmitted sequentially from cameras to the DVR/NVR, and playback data request from users to DVR/NVR is very few and random. The AV streaming function handled by intelligent cache-control is tailored for video surveillance application; which optimize the sequential write video performance and deliver the best performance, allowing DVR/NVR to handle more cameras.

### Data Security and Reliability

Recording data protected through various RAID Level (0, 1,3,5,6) to prevent for multiple simultaneous disk failures. The redundant components which include power supplies, fans and controllers insure the 24x7 non-interrupted operation for critical application. Advanced disk maintenance features like Disk-Self-Test, Disk Scrubbing and Disk Clone could detect and correct disk failure in advance.

### Green Design

Eco friendly features like automatic disk spin-down while system in idle time, automatic smart FAN control and high-efficiency power supply, help saving power consumption, and reducing carbon footprint.

## Surveillance Storage Comparison Table

Model	xx-88xx	xx-66xx	xx-45xx	SA-4340	SA-3187 / 422ST
Interface	FC / SAS / iSCSI / SCSI			SCSI	eSATA/NAS
Disk slot	24	16	12	8	4
Max. Visible Capacity (*1,*2)	43 TB	28 TB	20 TB	13 TB	2.7 TB
Max. recording day in CIF (*3)	1950	1266	904	588	122
Max. recording day in Megapixel (*4)	207	135	96	62	13

\*1. Use 2 TBytes SATA disk in RAID 5 configuration (SA-3187/422ST use 1 TBytes disk)

\*2. 2 TBytes physical capacity= 1863 GBytes visible capacity (1K Bytes = 1024 Bytes)

\*3. Format: CIF (H.264, 352x240, 24fps), 16ch DVR continuous 24x7 recording (22.1 GBytes/day)

\*4. Format: Megapixel (H.264, 1280x1024, 24fps), 16ch DVR continuous 24x7 recording (207.3 GBytes/day)

