

# Surveillance Storage Guide



Enterprise Solution • **Video Surveillance** • Digital Content

## BENEFIT

- Valuable Industry Partnership
- Comprehensive Product Line
- Tailored Features
- Scalable Capacity

The 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 policy.

In recent years, video surveillance has shifted from analog 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.

## FEATURE HIGHLIGHTS

### Self-Encrypting Drive

Stolen data can mean high customer notification costs, tarnished reputation, and a loss of customers. Arena support SED (Self-Encrypting Drive) 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. It's an important feature since CCTV storage recorded images capture from public area.



### 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 recording activity.

### 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.

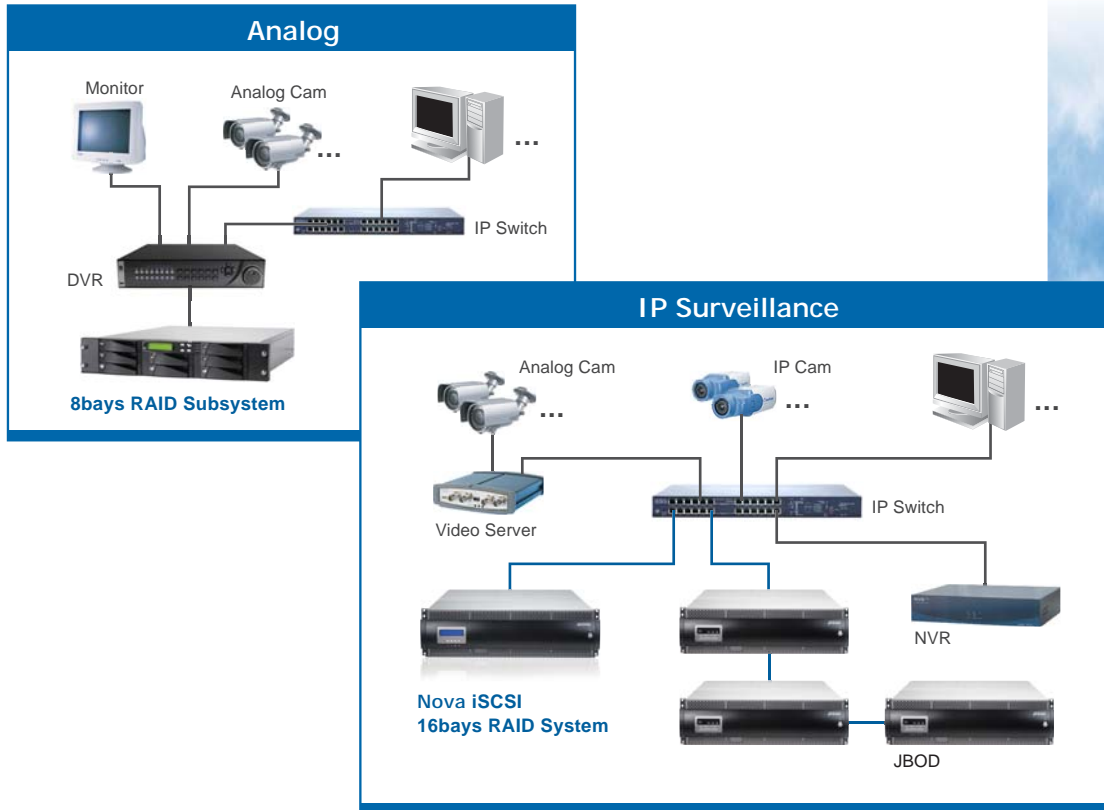


## APPLICATION

- Banking & Finance
- Retail
- Gaming
- Education
- Correction
- Public Safety
- Transportation

### 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 applications; 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 operations for critical application. Advanced disk maintenance features like Disk Self Test, Disk Scrubbing and Disk Clone could detect and correct disk failure in advance.

### 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.



Capture -->

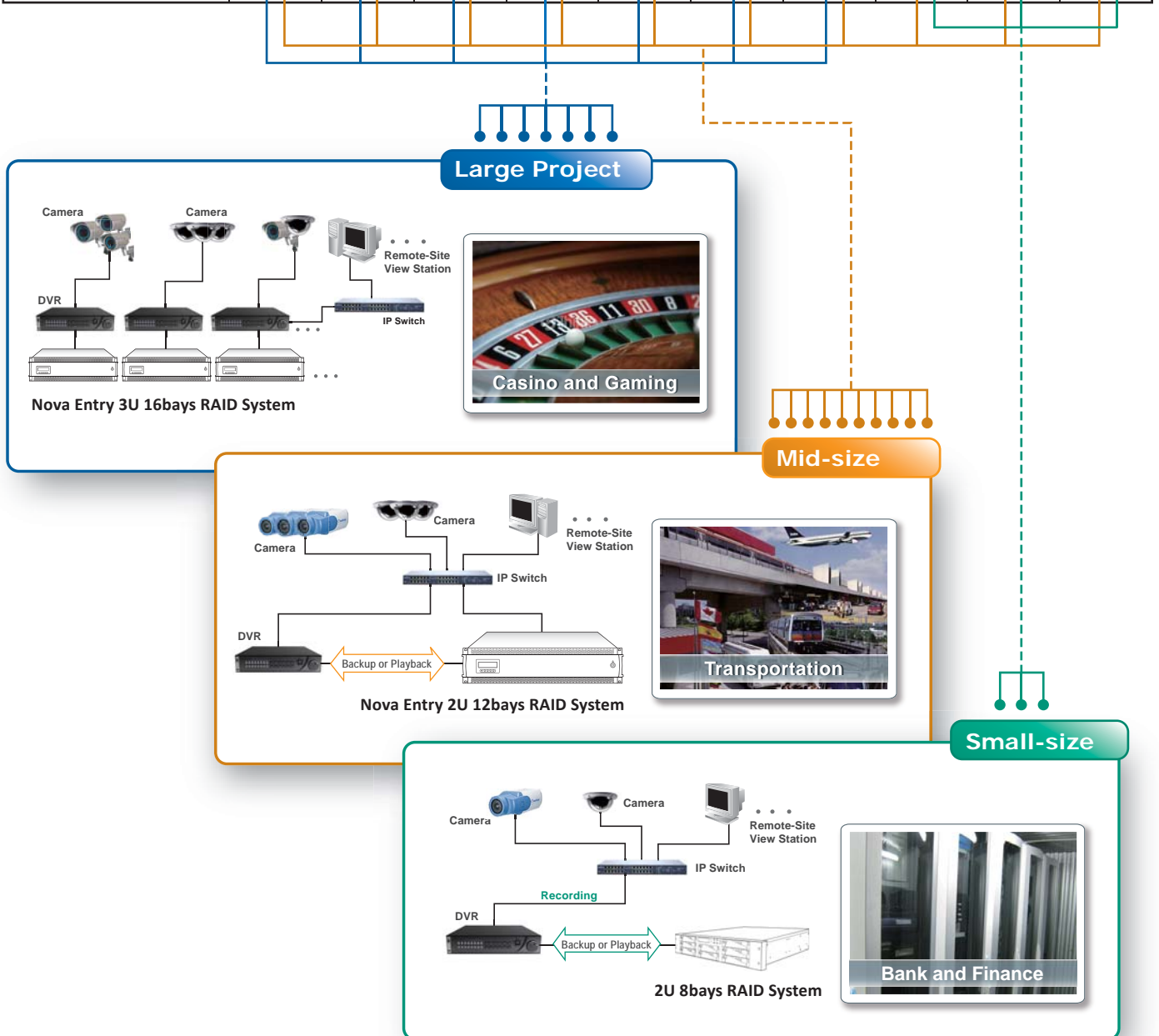
Record -->

Secure



# PRODUCT SPECIFICATION

Item	IP Storage			DAS						
Model	Nova 49S	Nova 39S	Nova 29S	Nova 47S	Nova 37S	Nova 27S	SA-6640S	SA-4540S	SA-4340S	SA-4327S
Host Interface	1Gb iSCSI			6Gb SAS			U320 SCSI		eSATA	
Disk Bays	24	16	12	24	16	8	16	12	8	8
Scalable Max No. of Disk	120	120	120	120	120	120	48	36	24	-
Per Box Capacity *	46TB	30TB	22TB	46TB	30TB	22TB	30TB	22TB	14TB	14TB
Max Retention Days D1**	323	210	154	323	210	154	210	154	98	98
Max Retention Days 1M***	84	55	40	84	55	40	55	40	25	25
Application	[Blue/Orange]			[Blue/Orange]			[Blue/Orange]		[Green/Orange]	



\* Use 2TB SATA disk in RAID 5 configuration, Nova series can adapt 4TB HDD.  
 \*\* Format: D1 (H.264, 720x480, 30fps), 16ch DVR continuous 24x7 recording (142.4G Bytes/day).  
 \*\*\* Format: Megapixel (H.264, 1280x1024, 30fps), 16ch DVR continuous 24x7 recording (542.4G Bytes/day).

