

# VIDEO SURVEILLANCE STORAGE



## ARXYS | SHIELD-PRIME

### Storage | Orchestrated



At the heart of successful security and surveillance solutions is high performance, scalable data access and protection. Arxys | Shield Prime delivers the intense multi-streaming throughput and data resilience required by advanced Video Management Systems at the lowest Total Cost of Ownership of any solution in the industry.

Arxys | Shield-Prime delivers true high availability protection with no single point of failure metro clustered solutions that guarantee access to video surveillance data. With Offsite Data Protection, with built-in backup of everything and instant Disaster Recovery, as well as multiple backup destinations with user-defined Interval-Retention plans guarantees your data is always available.

Arxys | Shield-Prime is the protected security and surveillance platform of choice when security matters.



### Advantages

- Highest multi-streaming bandwidth available
- Compatible with all leading Video Management Servers
- Lowest Total Cost Of Ownership storage server
- High availability cluster ensures non-stop protection
- Scale-up technology delivers future-proof security

### Storage | Optimized



Arxys | Shield-Prime high-density storage servers are designed for large enterprise security installations. Advanced caching, high-performance enterprise grade drives and 128 bit ZFS technology deliver leading edge performance with efficiency. The combination of high throughput & advanced data protection makes the Shield Prime Storage Servers ideal for IP video streaming and archiving.

- Optimized for Private Clouds
- Guaranteed data protection
- Hardware independence
- Flexible scalability

With advanced hardware & software failover mechanisms, video surveillance systems built on Shield Prime can guarantee sensitive video data is always available. The highest levels of data protection and disaster recovery ensure that the system designed to provide non-stop security and protection is itself non-stop protected and available.



Genetec



## Storage | Secured



IP surveillance requires a reliable, high performance storage infrastructure. Video Surveillance data requires secure, and guaranteed access for evidence and proof. Private Clouds that involve on-site data content for additional security are the leading choice. Arxys | Shield-Prime delivers the 24x7 high availability and disaster resilience required by law enforcement, public sector security deployments where security and availability are paramount. Security & surveillance solutions that cannot afford downtime rely on Arxys | Shield-Prime Cluster.

### Hardware Resilience:

- Hot-swap, redundant Platinum power
- Multiple iSCSI or FC connections
- Multi-path storage failover
- Redundant, hot-swap SAS storage controllers (expanders)



## High Availability

Active-Active or Active-Passive dual HA Cluster for iSCSI / NFS / SMB over Ethernet, Fibre Channel & SAS.

## Data Protection

Offsite Data Protection, offering built-in backup & instant Disaster Recovery, as well as multiple backup destinations

## Data Virtualization

Thin & Over Provisioning w/ pooled storage, unlimited instant Snapshots & Clones

## Scalability

Up to 5PB in single namespace with ZFS technology



## Storage | Defined



The Arxys | Shield-Prime running Sentio Software Defined Storage (SDS) platform, is purpose-built to scale-up to make storage management disruptively simple while reducing storage costs and complexity. Sentio has verified support for all major SAN/NAS protocols including iSCSI/FC and NFS/CIFS/SMB and a high availability scale-up 128bit ZFS file system with fault-tolerant technologies. Arxys | Sentio delivers a full array of enterprise features and capabilities for file, block and object storage at the lowest TCO in the industry.

Powered by:   
JovianDSS

### Software Orchestrated Storage:

- Active-active HA cluster (Dual appliances)
- RAID6 or 60 delivers double parity
- Off-site data protection
- Scale to fit: Scale-up to 5PB
- 128bit optimized Storage OS
- Tiered cache delivers performance
- Scale-up storage pools as you grow



Storage Controller (each)	Single or Dual Cluster Controllers	Chassis 1U Appliance	RoHS Compliant. UL/cUL/CB/CE/BSMI/CCC
CPU's / Cache Memory	Intel® Xeon® processor E5-2600 v4- 4 to 16 Cores / Up to 512GB ECC, 288pin DDR4 SDRAM	Dimensions	17.2" (437mm) x 1.7" (43mm) x 16.9" (429mm) (W x H x D)
System Drives	Mirrored Storage OS controller drives	Gross Weight	Gross Weight: 27 lbs (12.25 kg). Net Weight: 15.5 lbs (7.03 kg)
SAS Expansion	128 SAS drives per controller (256 in active cluster) - Broadcom 3008 SAS3 (12Gbps) via SAS3 Expander	Power Specifications	Hot-swap redundant 400W digital power supplies, 100 - 240Vac / 6.0 - 3.0A / 50-60Hz Platinum Level Certified
Networking	Dual 1Gbit Ethernet, Virtual Machine Device Queues Reduce I/O, IPMI v2.0 support	Operating Environment	10°C to 35°C (50°F to 95°F) 8% to 90% (non-condensing)
Host Connectivity	2 or 4 10Gbit Ethernet - iSCSI or NAS (SMB/NFS)	Warranty	5-year limited warranty

Storage Capacity	Arxys   Shield 4U Expander Chassis	Chassis 4U expander	60 hot-swap 3.5" drive bays in 4U
Expander Chassis	Up to two (2) 4U expander chassis	Dimensions: (W, H, D)	174.8mm x 424mm x 1110mm / 6.88in. x 16.69in. x 43.7in. (with cable management arms)
RAW TB (per 4u expander)	1.4 PetaBytes (PB) in 10U - 720TB per 4U expander (Using 12TB enterprise drives)	Gross Weight	89.81 kg (198 lbs.) - fully configured with 60 helium drive modules
Appliance Connectors	8 x 12Gbps Mini-SAS (4 per I/O Module), Fully compliant with 12Gb/s SAS 3 interconnect	Power Specifications	Two 1,650W hot swap redundant, 200-240VAC auto-ranging, 47Hz-63Hz input (high line power only), N+1 redundant fans, 1.0 Kva typ, 1.8 max
Hybrid SSD Tiered Caching	Supports up to 24 high-performance SSD's (12per chassis) for tiered performance and caching	Serviceability	Cable Management Arm (CMA) eliminates tangled cables during servicing of hot-swappable CRUs
Hot-Swap Everything	Redundant power supplies, N+1 fans, Drive Modules, I/O controllers	Warranty	5-year limited warranty



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