

# SG-A4600

## 32 Channel Network Video Recorder



Pre-Install with  **Luxriot®**  
 **ONVIF**

### Overview

The Shogun A Series of NVR appliances are reliable integrated server and storage solutions for IP video surveillance. NVR appliances are open platform solutions that can be deployed with any of the leading IP cameras and video management software (VMS) for installations of any size from standalone units for retail stores to large scale deployments requiring hundreds of cameras and petabytes of storage. And it comes with software development kit (SDK).

### Functions

#### NVR Storage Appliance for IP Video Surveillance

The SG-A4600 is built to be the best video surveillance storage solution on the market. Delivering reliable and stable performance for surveillance video recording, especially when the arrays is in a critical state or during rebuild which is key to eliminating frame dropping, the SG-A4600 is ideal for installations of up to over a hundred full-HD IP cameras, making it perfect for banking, retail, gaming, manufacturing, and many more industries.

#### SmartBoost Technologies

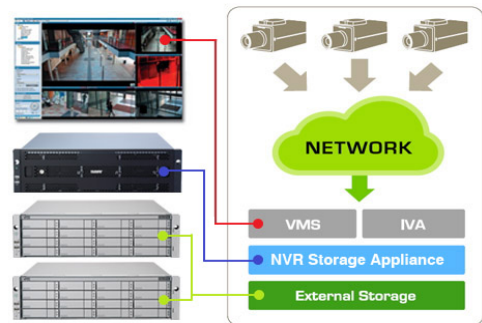
A collection of unique features designed to provide the highest level of service and overcome performance bottlenecks to allow NVRs to handle a higher number of IP cameras than competing solutions. Reduces Deployment Costs and Complexity

The SG-A4600 Series reduces support and equipment costs because there is no separate RAID storage unit to manage, eliminating the need for a server, controller cards, external cables, and a separate storage enclosure. Additionally, the SG-4600 Series reduces interoperability conflicts caused when integrating different hardware

### Features

- Excellent value for a high-performance recording server system
- Perfect for up to 32 IP cameras
- Support H.265/H.264/MJPEG/MPEG4 compression
- Out of the box solution
- Support multiple stream recording
- High resolution recording and display up to 8 megapixels
- 2U 8-bay or 3U 12-bay rackmount chassis
- Easy Expandability with iSCSI protocol
- Support live view & playback over web browser & mobile client
- ONVIF profile S&G compatible
- Small-sized installations: retail stores, clinics, classrooms, gas stations

### Network Diagram



#### Easy to Use Management Interface

The SG-4600 Series can be managed conveniently over the network connection using the user-friendly browser-based GUI, or the text-based command line network terminal interface. Alternatively you can manage it out-of-band with a VGA or HDMI monitor and USB keyboard to access the text-based command line interface.

#### Outstanding Track Record of Reliability

Reliability is paramount for surveillance deployments in order to protect property, assets or even the safety of individuals. The SG-4600 features the RAID engine, which has been battle-tested in countless mission critical applications around the globe. With its incredible track record for reliable video data management and storage, the SG-4600 is ideal for users requiring an extremely reliable and safe data center for video archive protection.



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### General Information

#### SG-A4600 model A

#### SG-A4600 model B

Camera Range	32 Camera	32 Camera
Form Factor	2U, 19" Rackmount	3U, 19" Rackmount
Number Of Drives	8 Drives (3.5")	16 Drives (3.5")
Drive Type	SATA (6Gb/s* or 3Gb/s), NCQ, TCQ, Hot Swappable	
# of Controllers	Single	
System Processor	Intel® Xeon® E3, Optional Intel® Core i3/i5/i7	Intel® Xeon® Processor E3-1245V2 @ 3.4GHz Quad-core 8-thread
System Memory	8GB Default (Max 32GB)	8GB Default (Max 16GB)
I/O Interface	2x Gigabit Ethernet (10/100/1000Mbps)	2x Gigabit Ethernet (10/100/1000Mbps) + 2 (Optional)
Storage Expansion	Optional iSCSI Storage	
Max # of HDDs Supported	Up to 112 drives through iSCSI & JBOD expansion	Up to 128 drives through iSCSI & JBOD expansion

### Other Interfaces

# of USB Ports	6x USB 3.0, 2x USB 2.0	4x USB 2.0
PCI Express Ports	1 x PCIe 3.0 x 8 / 1 x PCIe 3.0 x 4	1x 16-lane Gen 2.0 PCIe, 3x 8-lane Gen 2.0 PCIe
Graphics	D-sub VGA and HDMI and Display Port	D-sub VGA and HDMI
Serial Interfaces	1x RS-232 (D-sub 9-pin)	2x RS-232C (D-sub 9-pin)
Audio & Microphone	3x 3.5mm Audio Jack + SPDIF	2x 3.5mm Audio Jack

### Sensor Input/Alarm Output

Sensor In	Compatible w/ DC3.3V to 24V, photo coupler input x 8	
Alarm Out	Max. DC 24V/1A, mechanical relay output x 8	

### RAID Operational Feature

RAID Levels	0, 1, 1E, 3, 5, 6, 10 (0+1), 30, 50 Any combination can exist at the same time	0, 1, 1E, 3, 5, 6, 10 (0+1), 30, 50, 60 Any combination can exist at the same time
Hot Spares	Multiple global or dedicated hot-spare drives with revertible option	
Max. LUNs per System/Array	256/32	

### Software

Preloaded OS (64-bit)	Windows 7, Windows 10 Embedded or CentOS 6.3	
Management Tools	Graphical UI/SNMP via Ethernet, CLI/CLU via Ethernet or Graphics, OPAS Service via USB, SDK or API for Integration	
Protocol	IPv4, IPv6, HTTP, HTTPS, NTP, RTP, RTSP, SMTP, SSL/TLS, MQTT, MODBUS, SNMP	
Event Notification	Email, SNMP, Buzzer, LEDs	

### System Information

AC Input	100 ~ 240 VAC, 60 ~ 50Hz	
Current (Maximum)	2A (100V); 1A (240V)	4A (100V); 2A (240V)
Power Supply	Three redundant 250W, Energy-efficient 80PLUS Certified, 90-264V full-ranging w/PFC, Hot swappable N+1 Design	
BTU	853 BTU/hr	1729 BTU/hr
Fan	Hot swappable design	
Dimensions (H x W x D)	88.2 x 446.2 x 410 mm (3.5 x 17.6 x 16.1 in)	130.1 x 446.2 x 461 mm (5.1 x 17.6 x 18.1 in)
Weight	7.38kg(16.23 lbs) w/o drives, 12.9kg (28.38lbs) w/drives	15.9kg(35.1 lbs) w/o drives, 27.9kg (61.5lbs) w/drives
Safety/EMI	CE, FCC Class A, BSMI, CB, KC, UL/cUL, CCC	

### Warranty and Support

Warranty	3 year limited warranty
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\* The model is separate into model A and model B (depends on harddisk capacity requirements)