

# SG-A4700

## Network Video Appliance



Pre-Install with **AXXON ONE**  
**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-A4700 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-A4650 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.

#### ONVIF Compatibility

Supports ONVIF® standard compliant IP cameras, providing seamless interoperability with multi-vendor surveillance devices and ensuring future system scalability.

#### Independent Recording Configuration

Allows independent configuration of recording parameters for each camera, including frame rate, image resolution, compression format (H.264/H.265/MJPEG), bitrate, recording quality, GOP interval, and recording schedule to optimize storage efficiency and image quality.

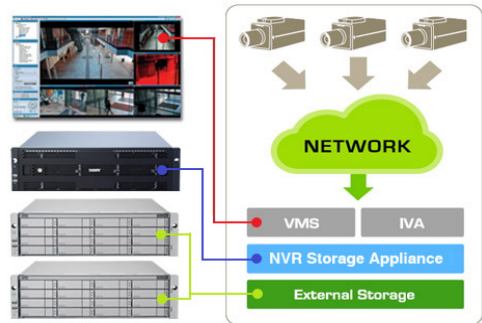
#### Reduces Deployment Costs and Complexity

The SG-A4700 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-A4650 Series reduces interoperability conflicts caused when integrating different hardware

### Features

- Excellent value for a high-performance recording server system
- Support H.265/H.264/MJPEG/MPEG4 compression
- Out of the box solution
- Support Liveview & Playback over Network
- 3-year warranty – can be extended to 5 years
- Resolution for playback & record up to 8MP, 6MP, 3MP, 1080p
- Easy Expandability with iSCSI protocol
- Small-sized installations: retail stores, clinics, classrooms, gas stations

### Network Diagram



#### Event Recording & Metadata Logging

Automatically records alarm and trigger events together with synchronized video, timestamps, device information, and event metadata, enabling rapid event retrieval, intelligent search, and post-incident forensic analysis.

#### Evidence Protection & Lock

The system shall support Evidence Lock functionality to protect recorded video and event data from unauthorized deletion, overwriting, or modification. Locked recordings shall remain preserved regardless of the configured retention policy until explicitly released by an authorized administrator. Access to evidence shall be controlled through user authentication and role-based permissions.



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### Technical Specifications

Standard Processor	(1) Processor AMD EPYC 4345P 3.8GHz 8 Cores 16 Threads, Cache 32MB	
Processor Support	Supports AMD EPYC™ 4005/4004 and AMD Ryzen™ 9000/8000/7000 Series Processors	
Processor Cooler	(1) Active CPU Cooler	
Standard Memory	(1) Memory 32GB DDR5 ECC-UDIMM	
Memory Support	Total Slots: 4DIMM Slots Max Memory Size: 192GB Max. Capacity per DIMM : 16GB, 24GB, 32GB, 48GB DIMM Type: DDR5 ECC-UDIMM/non-ECC, DIMM Frequency: 5600/5200/4800 MT/s	
Integrated LAN	(2) Ports 1GbE RJ45 Intel I210 (1) Port RJ45 IPMI / IKVM	
Add-on LAN	(2) Ports 10GbE RJ45 Intel X540-T2	
Integrated Graphic	Aspeed AST2600	
Expansion Slots	(1) Slot PCIe 5.0 x16 (Low-Profile) (1) Slot PCIe 5.0 x4 (Low-Profile) (1) Slot PCIe 4.0 x1 (Low-Profile)	
Standard Storage	(1) SSD 256GB 2.5" SATA (8) HDD 12TB 3.5" SATA (Server/Enterprise)	
System Form Factor	2U, 19-inch Rackmount	
Drive Bays	(8) Front Hot-swap Support 2.5" or 3.5" (2) Rear Hot-swap Support 2.5" (2) Internal Support 2.5"	
Integrated Storage SATA Controller	(4) Ports SATA 6Gb/s	
Add-on RAID Controller	(1) MegaRAID 9361-8i 12Gb/s SAS/SATA RAID Support: 0/1/5/6/10/50/60 (MegaRAID Storage Manager)	
M.2 Slots	(2) Slots M.2 x4 (2280/2242)	
I/O Ports	Front (2) x USB 3.0	Rear (1) x VGA Port (1) x Serial Port (1) x HDMI Port (1) x DisplayPort (4) x USB 3.2 (2) x 1GbE LAN Ports RJ45 (1) x Dedicate IPMI Port RJ45
POWER SUPPLY	1300W, Redundant 1+1	
Dimension (D X W X H)	670 x 444 x 87.6 (mm.) or 26.37" x 17.48" x 3.44"	