

Surveon NVR5400 Series

96-ch Cost-efficient Mission Critical Storage NVR

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NVR5400 Series Overview

Product Advantages

Technical Information



NVR5400 Series Overview

Surveon
Enterprise VMS

Data Protection
with Spare Drive

Max. 96 CH Recording
Up to 5MP or above



Best Worthy Storage-Server
Affordable budget with excellent performance
RAID function storage-server NVR

Up to 316 HDDs with JBOD Expansion

SurveOne
Web-based easy system
management UI

Product Advantages

- Support up to **96-channel** cameras continuous recording.
- Recording **throughput of 576Mbps**, ensuring cameras to be recorded and viewed reliably.



Storage Expandability

- Local JBOD expansion with SAS HBA card (optional).
- Faster read/write performance and better stability.
- Support **14x JBOD 2U 12-Bay (total 180HDDs) / 3U 16-bay (total 240HDDs) / 5x JBOD 4U 60-bay (total 316HDDs)** three options.
- Provide flexibility to easily expand number of retention days with large capacity.



NVR5408



NVR5412



NVR5416

Multi-functional Combination

- The **Server + Storage design** provides high integration with other devices for system stability.
- Easy installation without the need to add card or internal cable connection.
- Built-in H/W RAID1, 5, 6, 1+Spare, 5+Spare, 6+Spare

RAID Storage built-in Server



NVR5416



Server



Legacy Server + RAID card

RAID Card



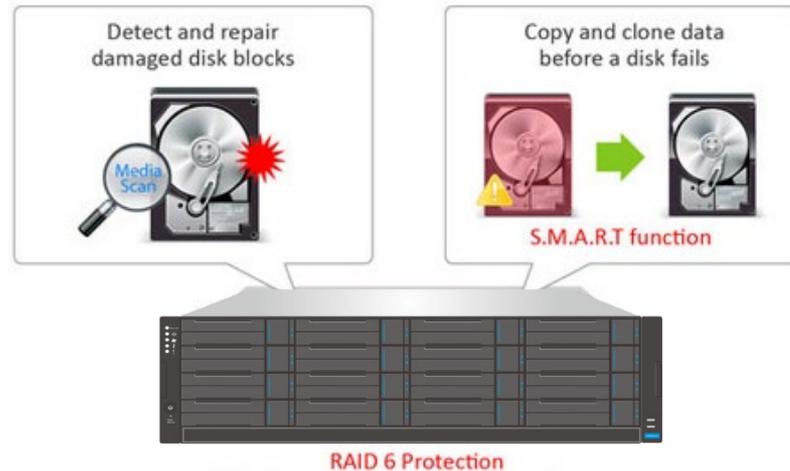
Intelligent Drive Integrity (IDR)

- **Data corruption prevention**

- Smart data recovery mechanism: Detect and recover bad blocks

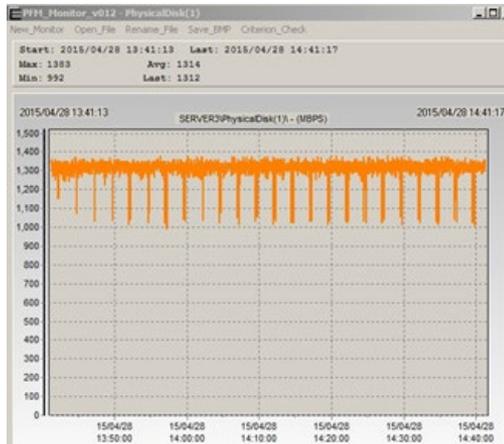
- **Drive rebuild prevention**

- Failing drive prediction: Copy and Clone data before a disk fails

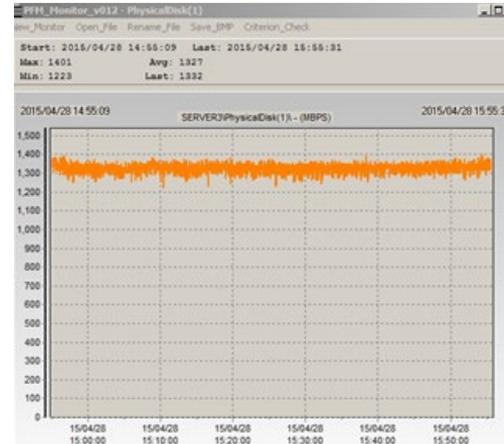


Ensure Smooth Performance

- **Patented read/write technology** to guarantee performance during drive IO delay
- **Isolate the abnormal drive** to maintain system stability



Conventional

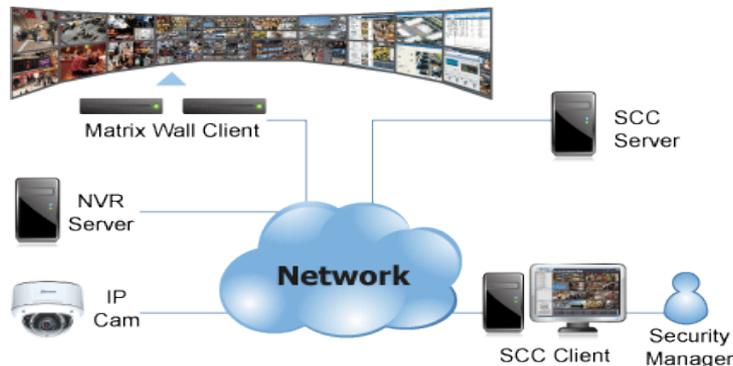


Surveon

Enterprise Video Management

- **Built-in video analytics** and active alarm system for optimized surveillance.
- **Multi-access** makes management simple and flexible.
- **Centralized management** and **TV wall** matrix for large-scale projects.

Multi-Access & Centralized Management



Active Alarm System

- Support VA notifications to ensure rapid and accurate decisions.

Real-time Video Analytics & Notifications



Alarm Rules Settings



Real-time Video Analytics



VA Management



Support real-time VA notifications and labels

Real-time Event Notifications



Triggered event
popups videos

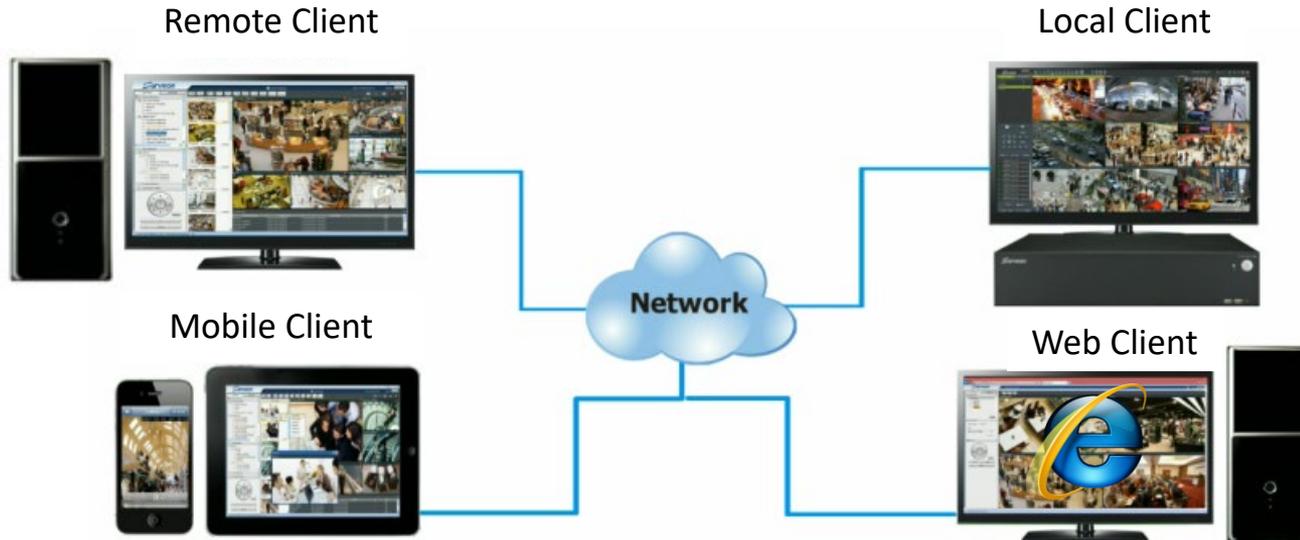


When an event is triggered, the monitors will switch to display its surrounding images



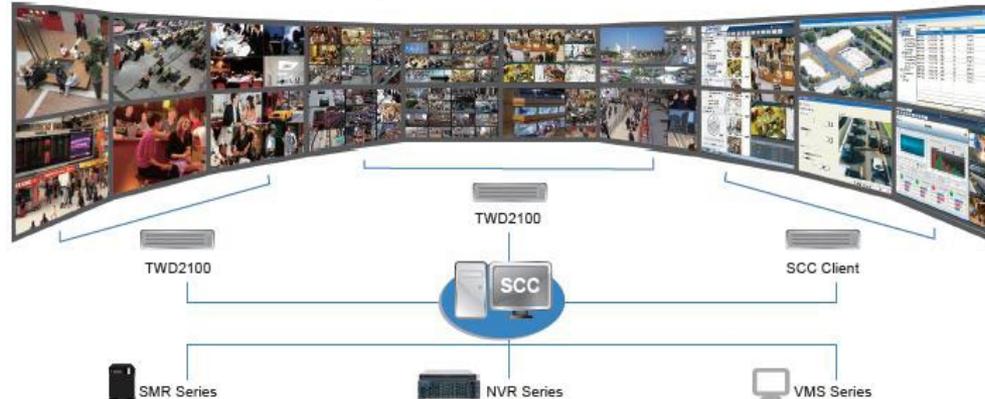
Multi-Access for Easy Surveillance

- Support **all clients** live view, live audio, real time event alert, pan/tilt/zoom operations, digital I/O management , video Intelligence and more.
- Mobile client supports **iOS/Android** platform.



Surveon Control Center (CMS)

- Scalable and powerful **TV Wall** solution.
- Unlimited cameras connection with **hundreds of cameras** simultaneous live views support from multiple NVRs.
- Built-in CMS centralized management.
- Direct matrix client panel to manage and live view TV matrix.



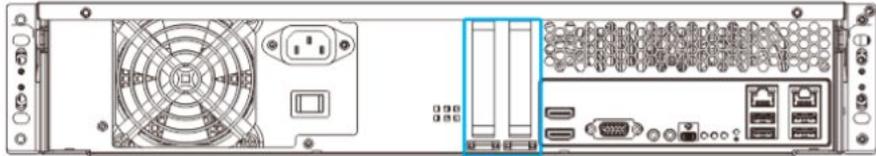
- An exclusive **web-based management tool** at no cost
 - NVR/camera real-time system status overview and monitoring
 - NVR/camera configuration copy, restore and backup
 - NVR/camera real-time event log information
 - Easy to check the status in a browser by using HTTP



Technical Information

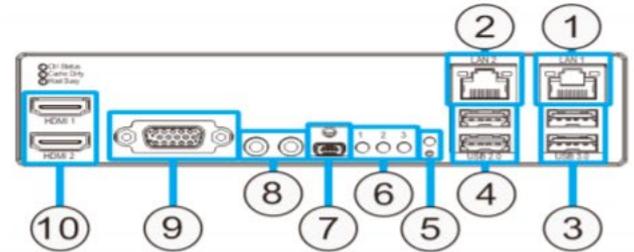
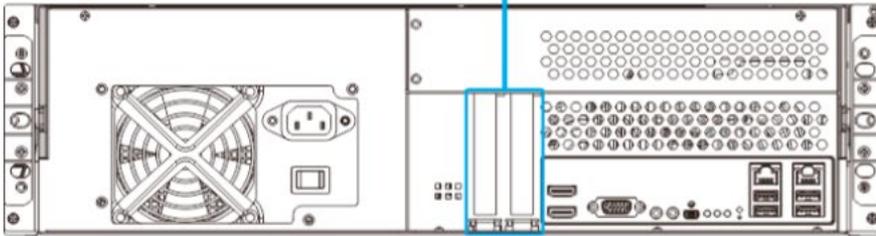
Hardware Overview

NVR5408/5412



11 SAS HBA card port

NVR5416

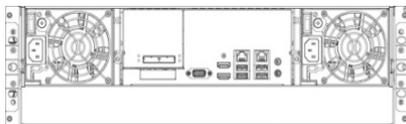
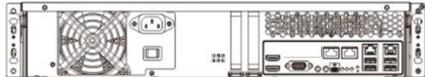
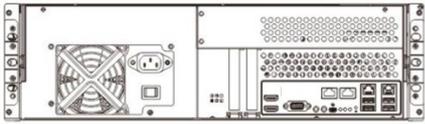
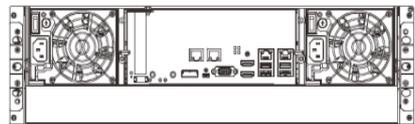


- | | |
|----|---|
| 1 | 1x 1 Gb/s Ethernet |
| 2 | 1x 1 Gb/s Ethernet (WOL) |
| 3 | 2 x USB 3.0 |
| 4 | 2 x USB 2.0 |
| 5 | 1x Reset to default button |
| 6 | 3x Status LED |
| 7 | 1x miniUSB (Debug only) |
| 8 | 1x 3.5 mm microphone and headphone jack |
| 9 | 1x D-Sub VGA (Res: 1920 x1080@60Hz) |
| 10 | 2x HDMI (Res: 1920 x1080@60Hz) |

Specifications

Series	Enterprise				
Model	NVR5408E1	NVR5412E1	NVR5412A1	NVR5416E1	NVR5416A1
Architecture	Client-Server	Client-Server	Client-Server	Client-Server	Client-Server
Form Factor	RackMount	RackMount	RackMount	RackMount	RackMount
IP Channel Number	16 - 64	16-64	16-96	16-64	16-96
HDD Number	8x SATA	12x SATA	12x SATA	16x SATA	16x SATA
RAID	RAID 1, 5, 6, 1+Spare, 5+Spare, 6+Spare				
Storage Expansion	iSCSI/NAS/JBOD	iSCSI/NAS/JBOD	iSCSI/NAS/JBOD	iSCSI/NAS/JBOD	iSCSI/NAS/JBOD
Hot-Swappable	V	V	V	V	V
Cableless Design	NA	NA	NA	NA	NA
Modules Design	NA	NA	NA	NA	NA
Server Processor	Intel® Core i3 Dual Core 3.5GHz	Intel® Core i3 Dual Core 3.5GHz	Intel® Xeon E3 Quad Core 3.2GHz	Intel® Core i3 Dual Core 3.5GHz	Intel® Xeon E3 Quad Core 3.2GHz
System Memory	DDR3 8GB	DDR3 8GB	DDR3 16GB	DDR3 8GB	DDR3 16GB
Video Intelligence	Max. 16ch				
Local Live View	V	V	V	V	V
Video Output	1x VGA, 2x HDMI				
USB Port	4	4	4	4	4
LAN Port	2x Gigabit				
Power Consumption	460W	460W	460W	460W	460W
Redundant Power	NA	NA	NA	NA	NA
Chassis	2U 8-bay Rack	2U 12-bay Rack	2U 12-bay Rack	3U 16-bay Rack	3U 16-bay Rack

Comparison

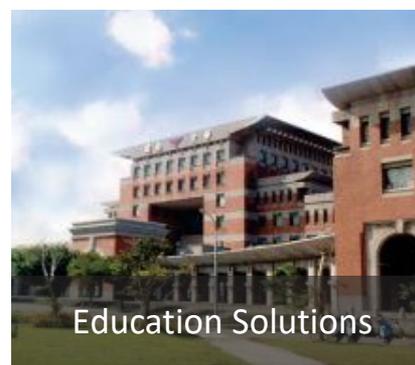
Model	NVR5316 Series	NVR5400 Series	NVR7300 Series
Series	Enterprise Series		Corporate Series
Rear view	 <p>NVR5316</p>	 <p>NVR5408 / 5412</p>  <p>NVR5416 SAS HBA card port</p>	 <p>NVR7312</p>  <p>NVR7316</p>
Channel	16 - 64 CH	16 – 96 CH	32 -128 CH
CPU	Intel® Core i3 Dual Core 3.5GHz / Intel® Xeon E3 Quad Core 3.2GHz		Intel® Xeon E3 Quad Core 3.2 / 3.5GHz
Support Hard Disk	SATA		SAS & SATA
JBOD Expansion	SAS HBA Card (Optional)		SAS Port
Cableless /Modular Design	Yes	No	Yes
Redundant Power	Yes	No	Yes
Power Supply	Dual Redundant PSU (530W)	Single PSU (500W)	Dual Redundant PSU (460W)

Suggest Applications

- NVR7300 Series



- NVR5400 Series

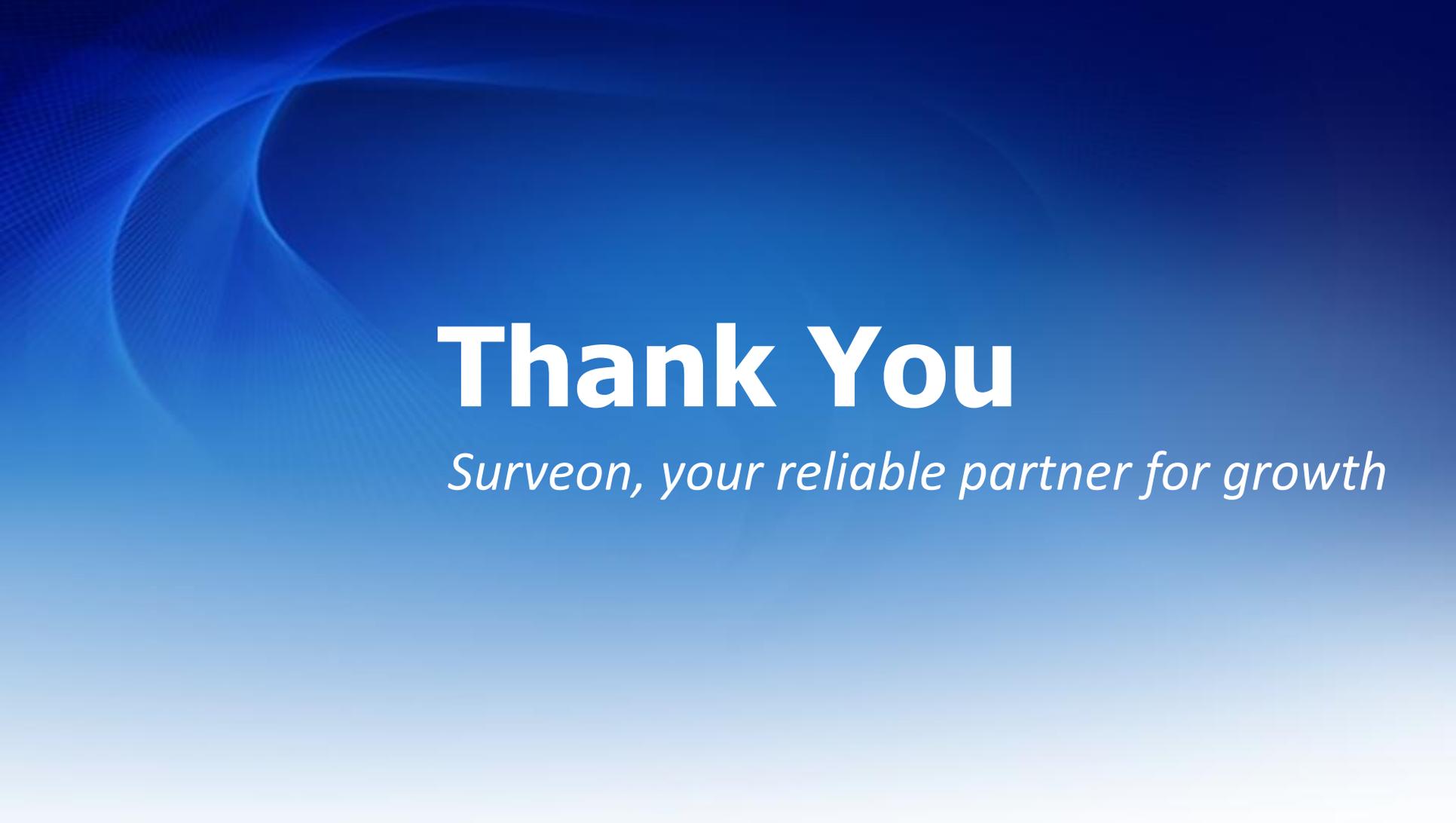


Camera Support Capability

- For models supported by NVR5400 Series, visit [Surveon Support Camera List](#)



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