

Surveon Company Overview

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About Surveon

- A surveillance-oriented affiliate of Infortrend Corporation (TAIEX: 2495)
- Headquarters: Taipei, Taiwan
- Worldwide shipment support
- Provide a variety of **end-to-end video surveillance solutions** catering to different **vertical applications**, includes retail, banking, healthcare, education, government, industrial and so on
- Provide **best C/P NVR Failover solutions** to enhance banking surveillance and **data backup solutions** to save data with triple protection



Product Overview

- **IP Camera**

- 1M, 2M, 3M, 5M full line & all form factors
- Advanced 3M real-time HDR & VA cameras



- **RAID NVR**

- Industrial-grade hardware in rack mount and tower design
- Built-in RAID 1, 5, 6, 1+Spare, 5+Spare, 6+Spare for large data protection
- Easy set-up and user-friendly operation



- **Enterprise-level VMS**

- Build-in useful real-time video analytic functions
- Surveon Control Center(SCC) with TV matrix for centralized management



- **Enterprise Storage**

- Support iSCSI and local SAS port to JBOD for storage expansion



Surveon IP Camera

- **Full Product Line**

- From box, bullet to fisheye cameras, Surveon offers different form factors for a variety of applications



- **High Reliability, Low RMA**

- Industrial-grade component to give robust performance
- IK10 & IP66/67



- **High Video Quality**

- Low Light Performance



Conventional



Surveon

5

- High Dynamic Range (HDR)



Conventional



Surveon

Surveon RAID NVR

- **Flexibility to expand** system with hassle-free integration
 - Various ways for storage expansion based on customers' needs
 - Upgrade system within scalable architecture
- **Power data protection** mechanism to prevent any data loss
 - Failover function to ensure continuous recording when the protected NVR fails
 - Triple data protection by RAID and backup to storage system
- **Cost-effective** software architecture for maximum usage
 - Enterprise-level video management with built-in VI analytics features
 - Efficient system monitoring anytime, anywhere
- **Reliable quality** to save maintenance cost
 - Industrial-grade component to give robust performance
 - Cableless & modularized design for easy repairing process



Milestone VMS Pre-loaded NVR

- **NVR7800 Series with Milestone Solution**

- Pre-load Milestone XProtect® Software Suite (Corporate & Enterprise) to delivery best C/P value
- Support up to 150 CH 3MP cameras without frame drop, total recording throughput - 3984Mbps
- Built-in SAS expansion for JBODs with up to 316 HDDs
- NVR + Storage design with built-in H/W RAID function to provide stable system integration
- Cableless design with hot swappable redundant power



JBOD Storage Expansion

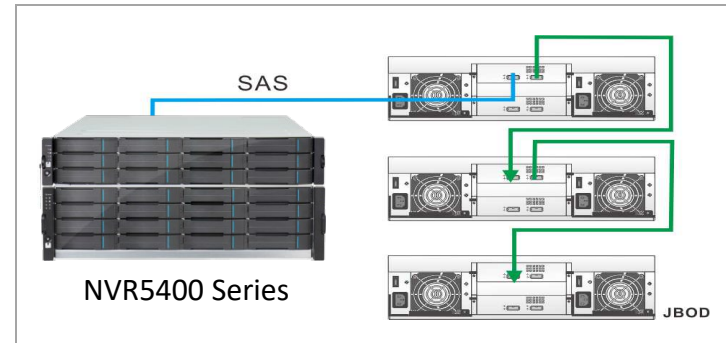
- Built-in up to **128TB 16-bay** storage capacity
- SAS ports for JBOD expansion up to **316HDDs**
- Local expansion with simple cable connections; faster read/write performance and better stability

Recording Days Expansion

	HDD	64 CH
NVR5400	16	30 Days
NVR5400 + 1 JBOD	32	45 Days
NVR5400 + 2 JBOD	48	60 Days
NVR5400 + 3 JBOD	64	90 Days

■ Based on 4TB HDD, 2Mbps bit rate, 24 hr recording, RAID 5 best data protection

Easy Local Expansion with JBOD

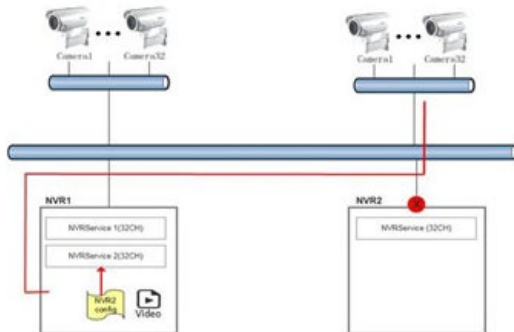


Failover Solution

- Allow recording to be continued by **collaborative NVRs** within the system.
- One or more NVRs can take over other protected NVRs under various system structures.
- With external storage structure, the live view and playback can still be processed by Failover NVR.
- **No spare NVR needed.** Only use Failover licenses to take over recording from the failed NVR when needed, making it a best C/P solution for mission-critical applications like **banking surveillance**.

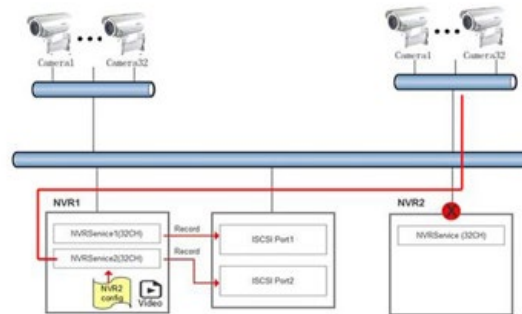
< Internal Storage >

The video will be saved in NVR1 internal storage when NVR2 fails.



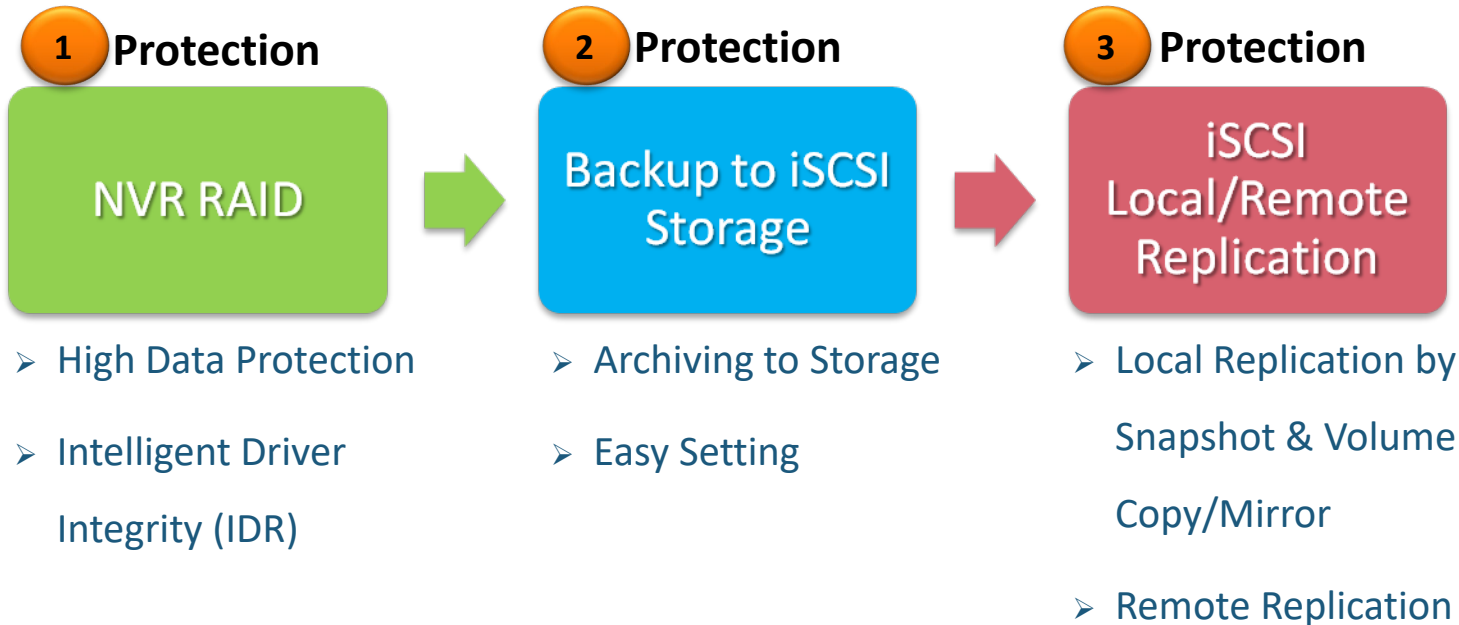
< External Storage >

The video will be saved at the same place of external storage when NVR2 fails.

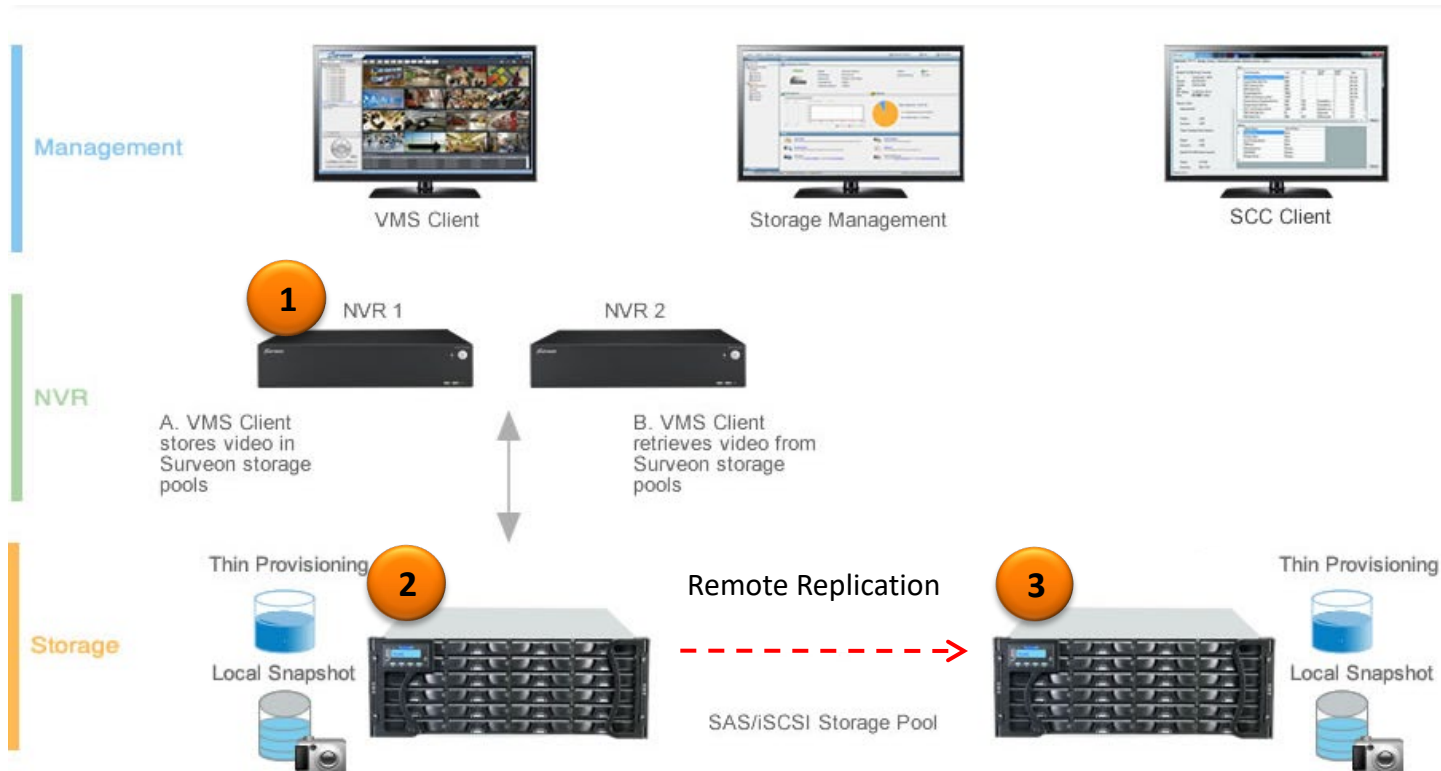


Data Backup Solution

- **Save data with triple protection**, providing middle to large security projects such as **casino and city surveillance** the most reliable backup solutions.



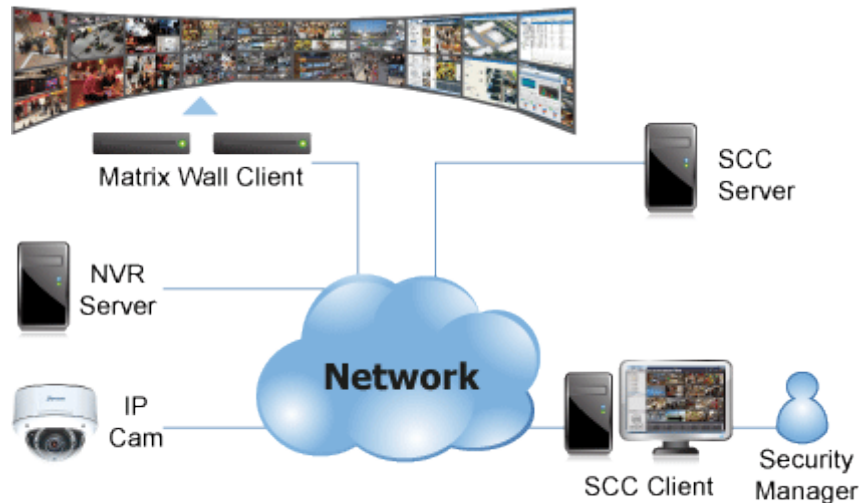
NVR Backup Architecture



Surveon Enterprise VMS

- 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



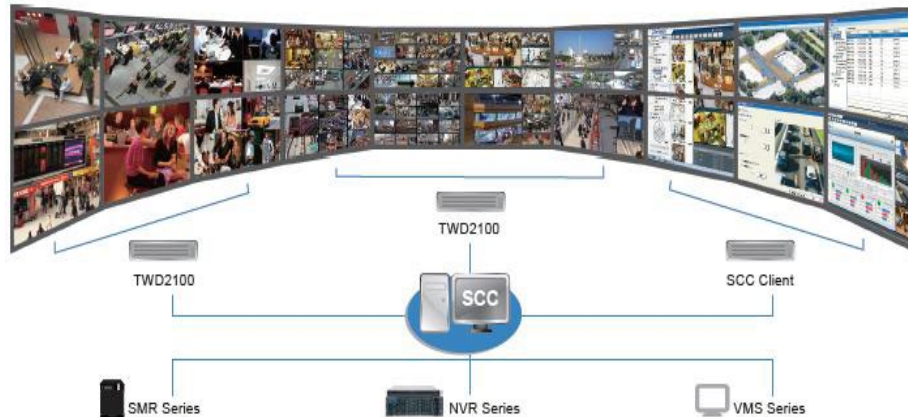
VMS Premium Features

- **Live View Object Tracking**
 - Trace customers' moving route through live view, help retailers to improve the display of products.
- **Fisheye Auto Tracking**
 - Allow fisheye to work as PTZ camera, performing wider and precise monitoring.



Surveon Control Center (SCC)

- **Powerful control suite for professional projects**
 - Scalable and powerful TV Wall solution
 - Simultaneous live views of over hundreds cameras from multiple NVRs
 - Built-in CMS centralized management
 - Direct matrix client panel to manage and live view TV matrix
 - Support Windows10 OS, 64-bit computing, pre-loaded SurveOne and display UPS status



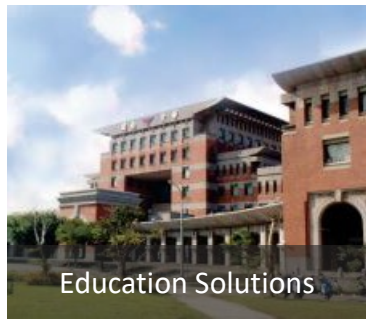
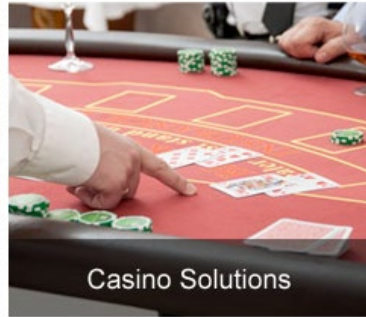
SurveOne - System Management Tool

- **An exclusive web-based easy system 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
 - Batch upgrade for Camera FW, IP and configuration revision



Vertical Market Solutions

- Provide a full range of **end-to-end solutions** for different industry segments and applications, enabling users to meet their project requirements with high quality and reliable products.



Vertical Market Case Studies

City Surveillance

- Kaohsiung City, Taiwan
- 3000CH 3MP cameras + 120-day megapixel recording



Government

- Gürbulak Border Checkpoint, Iran
- 3 MP cameras + 120-day continuous recording



Airport

- Singapore Airport
- 3 MP cameras + 120-day recording
- H/W RAID NVR + Storage



Industrial

- Omnilife, Colombia
- 3MP cameras + 120-day recording
- H/W RAID NVR system



Casino

- Phoenix Casino, Vietnam
- 5 MP cameras + 120-day non-stop recording
- H/W RAID NVR + SCC (CMS)



Education

- Kainan University, Taiwan
- 3 MP cameras + 60-day recording
- H/W RAID NVR + IVA



Benefits from Surveon Solutions

- **Expand Your System at Ease**
 - Easy to expand the current system by adding licenses, not adding another physical NVR
 - Save time and efforts re-constructing backbone structure on the site
- **Get Everything Your Need at One Stop**
 - Hassel-free integration within the systems
 - Lower risk of data loss during integration process
- **Zero Video Loss with Failover & Data Backup Solutions**
 - Allow recording to be continued by collaborative NVRs within the system
 - Save data with triple protection, gives critical security projects the most reliable solutions for backup usage
- **Reduce Maintenance Cost with Robust Quality**
 - Industrial-grade components to reduce maintenance cost
 - Cableless and redundant design for easy maintenance
- **Obtain Smooth Hands-On Experience**
 - Intuitive UI design for easy installation and operation



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Thank You

Surveon, your reliable partner for growth