

Surveon NVR3304 Series Introduction

32ch Best C/P High Effective NVR

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NVR3304 Series Overview

Product Advantages

Technical Information



NVR3304 Series Overview

- **32ch Best C/P High Effective NVR**
 - Up to **32ch 5MP recording** with 4-bay hard disks and **RAID 1, 5, 6** data protection
 - **iSCSI / NAS** storage expansion
 - **12 video analytics** embedded VMS with **web-based SurveOne** system management tool
 - **Dual display** for easy twofold management
 - **Dual usages support:** desktop and rackmount
 - Recommended applications: **SMB, retail, healthcare, education**



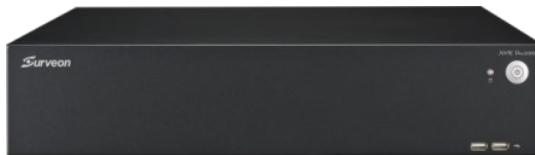
Desktop



Rackmount

Product Advantages

NVR3304 Series Advantages



Enterprise Design

- High Throughput
- Storage Expansion via iSCSI
- Dual Display & Multiple Access
- Built-in 12 Video Analytics
- SurveOne
- Sphone (Mobile Client)



Data Protection

- Failover Solution
- Triple Data Protection
- Backup / Archive to Storage



High Reliability

- Industrial-grade Component
- 2-year Warranty



High Throughput

- Support up to **32-channel** 5MP cameras continuous recording.
- The system results in a high level of **recording throughput up to 192Mbps**, ensuring cameras to be recorded and viewed reliable.

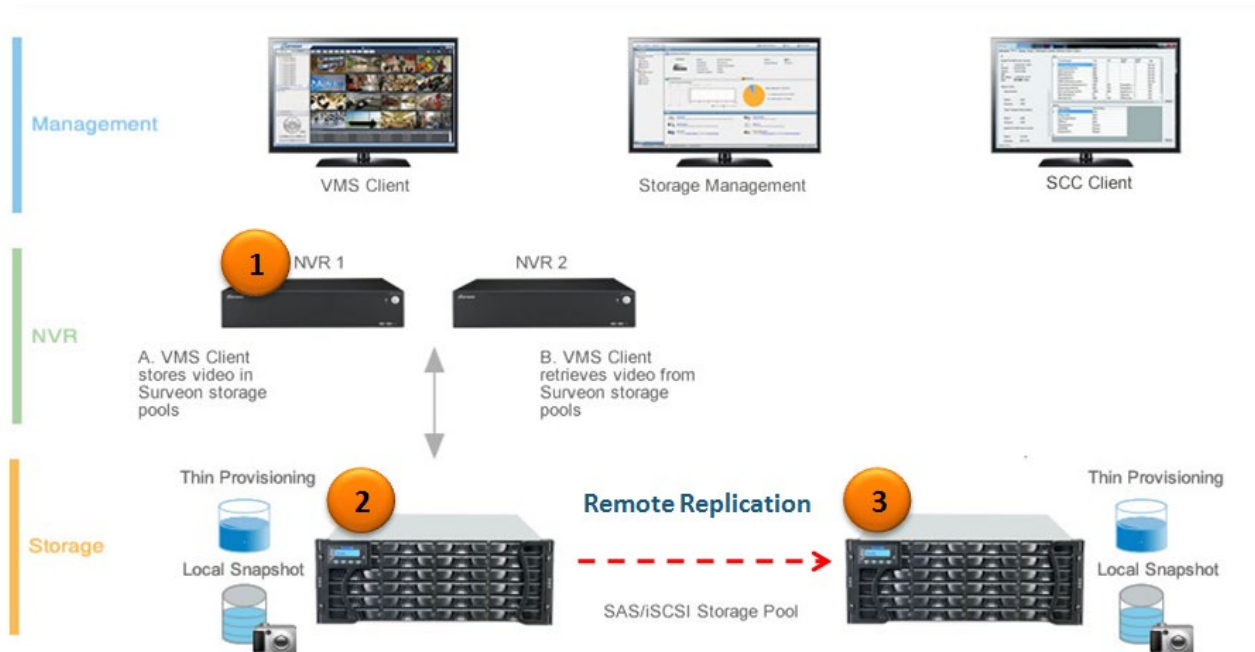


Surveon
NVR3304
Series

Up to
192Mbps

- Recording to iSCSI / NAS Storage

- For data backup or recording purpose, use iSCSI / NAS to expand the volume of storage.

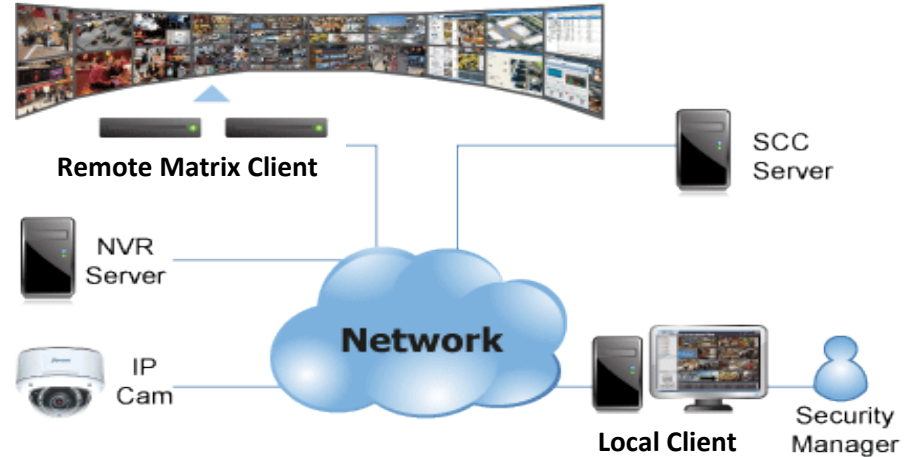


Dual Display & Multiple Access

- Built-in **dual display** to monitoring **locally and remotely**.
- Simple and flexible management from **local client, remote client, mobile client, and web client**.



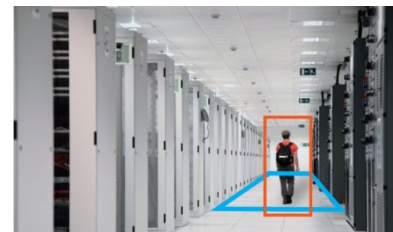
Dual Display



Multiple Client Access

Built-in 12 Video Analytics

Category	VA by NVR
Intrusion	Intrusion Detection Forbidden Area Detection Virtual Fence Object Motion Detection Camera Motion Detection
Investigation	Missing Object Detection Foreign Object Detection
Tracking	Fisheye Auto Tracking Tailgating Detection Going Out Detection
Counting	People / Vehicle Counting
Abnormality for Camera	Tampering Detection



Forbidden Area Detection



Tailgating Detection



Missing Object Detection



People / Vehicle Counting



Going Out Detection



Object Motion Detection

- **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
 - Batch upgrade for Camera FW, IP and configuration revision



- **iOS / Android platform**

- Preset up to 20 NVRs on the server list (64-ch / server) for large scale surveillance
- Live view by full screen in 1080P (Stream 1) or 2x3 screens and snapshot
- Playback & PTZ Control (Zoom in / out and Preset)
- Check camera info, including IP address, resolution, fps and bit rate
- Check DI / DO status



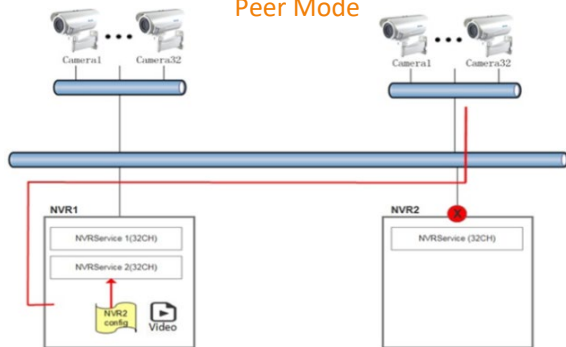


Failover Solution

- Allow recording to be continued by **Failover NVR** within the system.
- One or more NVRs can take over other protected NVRs under various system structures.
- **No spare NVR needed.** Failover can share the licenses of camera.

Internal Storage Structure

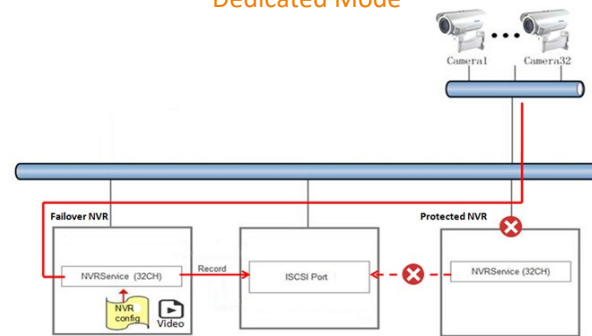
Peer Mode



Protected NVR's video will be recorded to Failover NVR internal storage when it fails.

External Storage Structure

Dedicated Mode



One dedicated Failover NVR to ensure recording to the same location as Protected NVR.



Triple Data Protection (1/2)

1 Protection



- RAID Protection
- Intelligent Driver Integrity (IDR)



2 Protection



- Archiving to Storage
- Easy Setting



3 Protection



- Local Replication by Snapshot & Volume Copy / Mirror
- Remote Replication



Triple Data Protection (2/2)

- **RAID protection**

- **Built-in RAID 1, 5, 6** to provide volume mirror and storage capacity for data integrity and long retention period.

RAID Level Comparison Table

RAID Level	Min. HDD	Storage Capacity*	Data Protection
RAID 1	2	$\frac{1}{2}$ N HDD	Best
RAID 5	3	N-1 HDD	Medium
RAID 6	4	N-2 HDD	High

*N is the HDD installed in Surveon NVR



Industrial-grade Component

- **More stable performance:** featured with improved signal sensitivity, or greater tolerance to electrical noise.
- **Reliable quality:** certified with ISO 9001 & ISO 14001 via full operation line.
- **Longer product life cycle:** exist for more than 10 years in many cases.



D33225



Technical Information

NVR3304 Specifications

NVR3304	
Position	Professional Megapixel NVR
Form Factor	All-in-one Desktop
CPU	Intel Core i3
Channel	16 – 32
Recording Throughput	192 Mbps
Max. VI	8
HDD	4
Storage Expansion	Yes (NAS/iSCSI)
RAID	Non-RAID, 1, 5, 6
I/O Interface	2x Gigabit Ethernet 8x USB2.0 1x VGA, 1x HDMI
Power Supply	250W
Dimensions	88(H) x 430(W) x 390(D) mm
Display	Dual Monitors
Surveon Control Center (CMS)	Yes
Operating System	Linux
Warranty	2 Years

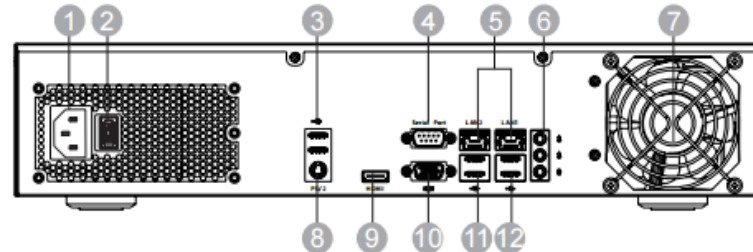
Hardware Overview

NVR3304 Front Panel



- ① Power Button
- ② HDD Status Indicator
- ③ USB Port x2

NVR3304 Rear Panel



- | | | |
|----------------|-----------------------------|---------------|
| ① Power Socket | ⑤ LAN Port | ⑨ HDMI Port |
| ② Power Switch | ⑥ Line-In, Line-Out, Mic-In | ⑩ VGA Port |
| ③ USB Port x2 | ⑦ Fans | ⑪ USB Port x2 |
| ④ Serial Port | ⑧ PS/2KB/MS Port | ⑫ USB Port x2 |

Camera Support Capability

- For models supported by NVR3304, visit [Surveon Support Camera List](#)



www.surveon.com
sales@surveon.com



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