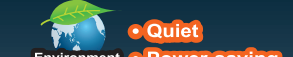


Innovative NVR Solutions

(For Enterprise/ SMB/ SOHO/ Home Users)



- H.264, MPEG-4, M-JPEG and MxPEG Recording
- 120-channel Multi-server Monitoring
- Megapixel Recording

QNAP VioStor NVR Series

NVR Innovative Network Video Recorder
VS-8040U-RP/ 8032U-RP/ 8024U-RP

- 8-bay, 16TB, 2U chassis, 40/ 32/ 24-channel
- Intel® Core™ 2 Duo 2.8GHz CPU, 2GB DDRII memory
- Redundant power supply available
- High quality megapixel recording
- Max network throughput: 300 Mbps

NVR Innovative Network Video Recorder
VS-8040/ 8032/ 8024

- 8-bay, 16TB, 4U/ 32/ 24-channel
- Intel® Core™ 2 Duo 2.8GHz CPU, 2GB DDRII memory
- High quality megapixel recording
- Max network throughput: 300 Mbps
- Winner 2009 ASIS New Product of the Year**

NVR Innovative Network Video Recorder
VS-6020/ 6016/ 6012 Pro

- 6-bay, 12TB, 2U/ 16/ 12-channel
- Dual-core Intel® Atom™ CPU, 1GB memory
- PC-less network surveillance by HD local display
- High quality megapixel recording
- Max network throughput: 176 Mbps

NVR Innovative Network Video Recorder
VS-6020/ 5012

- 5-bay, 10TB, 2U/ 12-channel
- Intel® Celeron™ 1.6GHz CPU, 1GB DDRII memory
- High quality megapixel recording
- Max network throughput: 138 Mbps

NVR Innovative Network Video Recorder
VS-4016U-RP/ 4012U-RP/ 4008U-RP Pro

- 4-bay, 8TB, 1U chassis, 16/ 12/ 8-channel
- Dual-core Intel® Atom™ CPU, 1GB memory
- Redundant power supply available
- PC-less network surveillance by HD local display
- High quality megapixel recording
- Max network throughput: 176 Mbps

NVR Innovative Network Video Recorder
VS-4016/ 4012/ 4008 Pro

- 4-bay, 8TB, 16/ 12/ 8-channel
- Dual-core Intel® Atom™ CPU, 1GB memory
- PC-less network surveillance by HD local display
- High quality megapixel recording
- Max network throughput: 176 Mbps
- Power-saving design, consumes only 35W

NVR Innovative Network Video Recorder
NVS-2012/ 2008/ 2004 Pro

- 2-bay, 4TB, 12/ 8/ 4-channel
- Dual-core Intel® Atom™ CPU, 1GB memory
- PC-less network surveillance by HD local display
- High quality megapixel recording
- Max network throughput: 176 Mbps
- Power-saving design, consumes only 25W

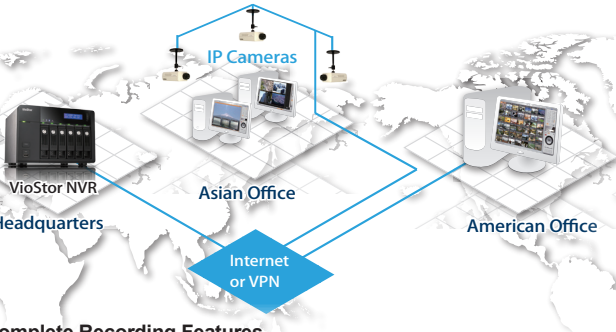
NVR Innovative Network Video Recorder
NVR-104P/ 104V

- 1-bay, 1TB, 4-channel
- Up to 30 fps at CIF for each channel
- Power-saving design, consumes only 18W

▶ The standard system is shipped without HDD. ▶ All the other trademarks mentioned herein are the property of their respective companies.

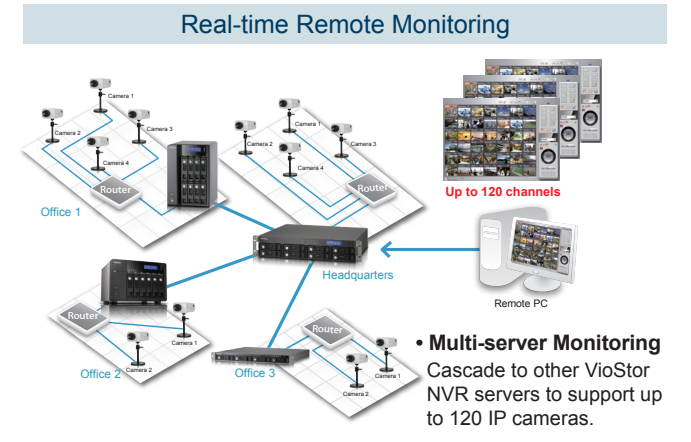
Why QNAP NVR

QNAP VioStor NVR (Network Video Recorder) is designed for high quality megapixel recording, and high performance real-time monitoring. It is a reliable standalone NVR with powerful surveillance features and mass storage capacity. Based on Linux OS, the NVR supports H.264, MPEG-4, M-JPEG and MxPEG recording from over 800 network camera models from many popular brands. With QNAP's unique multi-server monitoring feature, multiple VioStor NVRs can be cascaded together for central monitoring of up to 120 channels of video surveillance. The VioStor NVR is an ideal solution for small, medium, and large facilities that integrate IP cameras, advanced intelligent video analytics and RAID storage technologies to help companies provide a safe environment for employees and protect company assets.



- **Complete Recording Features**
Schedule recording, motion detection recording, alarm recording, alarm recording schedule, pre-alarm and post-alarm recording, etc.
- **PC-less Network Surveillance by HD Local Display***
VioStor NVR supports PC-less quick configuration, monitoring of IP cameras over the network, and video playback by connecting a monitor to the built-in VGA connector, a USB mouse, and a USB keyboard (option).
* For VioStor Pro series NVR only.
- **Powerful Remote Management**
VioStor NVR is an standalone surveillance system that supports professional grade video recording, remote monitoring and playback.
- **Multi-server Monitoring**
You can connect to one VioStor NVR and monitor up to 120 channels from other VioStor NVR servers over LAN or WAN by an IE browser.
- **Intelligent Video Analytics (IVA) for Fast Video Retrieval**
VioStor NVR supports intelligent video analytics (IVA) to provide fast video retrieval. The following features are supported for video analytics: motion detection, missing object, foreign object, out of focus, and camera occlusion.
- **Simple Steps to Complete Setup**
No more pains of hardware assembling and software installation of a PC-based server.
- **Advanced RAID with Hot-swap Design**
VioStor NVR protects all important recordings.
- **Exclusive Linux + High Performance CPU + Embedded System**
Stable and reliable recording solution (PC-less recording).
- **Green NVR Surveillance System**
Easy-to-deploy, small footprint, and extra power-saving!

Powerful Surveillance Features



- **Real-time Remote Monitoring**
Up to 120 channels
- **Multi-server Monitoring**
Cascade to other VioStor NVR servers to support up to 120 IP cameras.
- **Diversified Remote Monitoring Modes**
 - 1/ 4/ 6/ 8/ 9/ 10/ 12/ 16/ 20/ 25/ 36/ 42-channel display mode
 - Sequential display mode
 - Exclusive Picture-in-Picture mode
 - Dual display mode

- **Smart Control of PTZ & Speed Dome Cameras**
You can adjust the PTZ cameras directly by the web user interface of VioStor NVR.
- **Preset Position Control and Auto Cruising**
You can view the preset positions of an IP camera by clicking the corresponding number buttons on the monitoring page. You can also choose the preset positions and configure the time interval on the PTZ cameras for periodic monitoring.
- **Instant Event Notification**
When alarm recording is enabled and an event occurs, an alarm icon is shown instantly on the monitoring page. You can click the icon to view the alert details.
- **Digital Zoom**
You can zoom in or zoom out the video image on the monitoring and playback interfaces.
- **Video Snapshot**
VioStor NVR provides real-time monitoring and snapshot. You can take a snapshot of the monitoring screen anytime.
- **E-map**
VioStor NVR provides E-map function for users to upload the pictures of the monitoring locations.

HD Local Display

- **Intuitive Local Display Interface**
By supporting full HD (1920 x 1080) local display, you can configure the system, monitor the IP cameras and play the video conveniently via only a USB mouse and a VGA monitor connected to VioStor NVR.
* For VioStor Pro series NVR only.

Most Complete Recording Functions

- **High Quality H.264, MPEG-4, M-JPEG and MxPEG Recording**
Simultaneous multi-channel H.264, MPEG-4, M-JPEG and MxPEG video recording of IP cameras (depending on the camera models).
- **Various Recording Functions**
 - Continuous/ manual/ schedule recording
 - Alarm recording (by multiple alarm events)
 - Multiple alarm recording schedules
 - Pre-alarm and post-alarm recording
- **High Performance Megapixel Recording**
VioStor NVR supports high performance megapixel recording (up to 8-megapixel) from various IP cameras.
- **Audio Recording**
VioStor NVR supports audio recording (depending on the camera models).
- **Generic IP Cameras Support**
VioStor NVR provides an interface for the users to enter the JPEG CGI command of their IP cameras to retrieve the video and audio data from the IP cameras.

- **Motion Detection**
When the camera detects the movement, the defined actions will be activated to notify related persons to look over the monitoring area.
- **Alarm Input**
When the VioStor NVR receives the signal from the IP camera's alarm input connecting to other alert devices, the defined actions will be activated to notify related persons to deal with this event immediately.
- **Connection Failure**
When the VioStor NVR fails to connect to the IP camera, the defined actions will be triggered to notify related persons to check the status of the camera.
- **Recording Failure**
When the VioStor NVR fails to record due to hard drive failure or system crash, the defined actions will be triggered to notify related persons to examine the VioStor NVR.
- **User-defined Event***
VioStor NVR supports user-defined events. After applying the settings, you can enter the CGI command in the browser to trigger the event, and the defined actions will be activated.
* You can enter the following URL in the browser to trigger the event:
[http://NVR-IP/cgi-bin/logical_input.cgi?name=User-defined Event Name](http://NVR-IP/cgi-bin/logical_input.cgi?name=User-defined+Event+Name)
* VS-8040U-RP/ 8032U-RP/ 8024U-RP do not support this feature.

- **Alarm Output**
When an event occurs, the alarm output from the IP cameras will trigger other alert systems, such as lighting system, auto phone dialing system, security system and so on.
* VioStor NVR supports the alarm output of AXIS, Panasonic, SONY, ACTI, VIVOTEK camera models.
- **SMS**
VioStor NVR sends the SMS message to inform the specified recipients when an event occurs.
- **Email**
When an event occurs, the VioStor NVR sends email with snapshot to notify the specified recipients.
- **Buzzer**
The buzzer in the VioStor NVR will sound when an event occurs.
- **User-defined Action**
VioStor NVR supports user-defined actions. You can enter the HTTP URL from other surveillance systems. When an alert occurs, the NVR will activate other systems, such as extinguishing system, electronic control system, air-conditioning control system.

- **Events Overview**
Supports more event types, e.g. motion detection, alarm input, connection failure, recording failure, and user-defined event to trigger follow-up actions.

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Advanced Event Management

QNAP VioStor NVR is equipped with enterprise-level alarm-triggering mechanism and supports various alerts and abnormal event. This feature greatly strengthens the security, management efficiency, and compatibility of the VioStor NVR systems.

* NVR-104P/ 104V do not support this feature.

Advanced event management can be divided into two parts:



- **Recording**
When an event is triggered, the VioStor NVR starts recording one or more channels at the same time.
- **Camera Control**
When an event occurs, the PTZ camera will be adjusted to the specified preset position for monitoring and recording. Also, you can use HTTP URL to activate further action.
- **Alarm Output**
When an event occurs, the alarm output from the IP cameras will trigger other alert systems, such as lighting system, auto phone dialing system, security system and so on.
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Actions Overview

More actions can be activated when an event is triggered, such as multi-channel recording, adjusting the PTZ camera to the preset position, alarm output, built-in buzzer, email & SMS alert, and user-defined action.

- **Recording**
When an event is triggered, the VioStor NVR starts recording one or more channels at the same time.
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Playback Features

- **Multi-view Playback**
You can use the multi-view playback feature to divide a video equally into multiple sessions for playback in a multi-view window, or play the videos of multiple IP cameras in the multi-view window simultaneously.
- **Digital Watermarking**
VioStor NVR supports digital watermarking to protect the exported videos and snapshots from unauthorized modification. You can use the Watermark Proof utility to verify whether or not the videos and snapshots are original.
- **Data Search by Date & Time, Timeline, Event and Intelligent Video Analytics (IVA)**
VioStor NVR supports quick video search by date and time, timeline, event, and intelligent video analytics (IVA), including motion detection, foreign object, missing object, out of focus, and camera occlusion.

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Security Control

- **Authority Management**
You can create multiple users on VioStor NVR. The users created on the NVR can be assigned to different user groups (administrator/system manager/user) with different rights of monitoring, playback, PTZ control, and audio monitoring.
- **Auto Logoff**
VioStor NVR supports automatic user logoff from idling configuration pages. The administrator can set the timeout period to log off the users when the idling time has reached.
- **Host Access Control**
You can specify the host or IP connections to be allowed and denied to access the NVR.
- **Detailed Event Logs**
VioStor NVR provides detailed event logs of system warning, hard disk error, network disconnection, UPS status, and users' networking services and recordings access record.
- **On-line User List**
You can view the record of users currently logged on and previously logged on to the VioStor NVR.

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Network Services

- **Dual Gigabit LAN Ports for Failover, Load-balancing, or Multi-IP Setting***
 - ▶ **Failover**
This mode allows VioStor NVR to sustain the failure of one network port to provide continuous services.
 - ▶ **Load-balancing**
This mode provides bandwidth aggregation to boost the file transfer speed (works with managed Ethernet switch with 802.3ad configured).
 - ▶ **Multi-IP Setting**
Two IP settings can be configured on the NVR to allow network access from two different subnets sharing among different workgroups in two different subnets.



* NVR-104P/ 104V support one Gigabit RJ-45 Ethernet port only.

- **Built-in DDNS Support**
VioStor NVR supports dynamic DNS (DDNS). You can register a unique domain name from a DDNS service provider and assign it to your NVR.

- **Built-in NTP Server**
The NTP server feature allows the connected IP cameras to synchronize their date and time settings with the NVR.

- **Convenient Data Access**
You can access the recording data on the VioStor NVR by the following ways: Network Neighborhood (SMB/ CIFS)/ Web File Management (HTTP)/ FTP Server

Easy Configuration and Management

- **Easy System Setup in Simple Steps**
VioStor NVR provides quick setup for you to complete installation in simple steps.

- **Intuitive User Interface**
All the functions of the VioStor NVR can be managed anytime, anywhere via the web interface.

- **Smart Search of IP Cameras for Quick Settings**
Search for the IP cameras on the local network for quick camera configuration.

- **Quick Links to the Network Cameras**
Besides configuring the network cameras by the administration interface of the VioStor NVR, you can click the quick link buttons to access the management interface of the network cameras.

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