



VS-8032/VS-8024 VioStor NVR

Network Surveillance System for Enterprise

QNAP Network Video Recorder for IP Cameras

Live Monitoring, Recording, and Video Playback over the Internet Anytime, Anywhere

Secure Life, Secure Property



Powerful All-in-one Recording Functions

- Continuous/ manual/ schedule recording
- · Alarm recording (by motion detection or sensor triggered)
- Multiple alarm recording schedules
- High performance megapixel recording
- High quality Motion-JPEG, MPEG-4, MxPEG and H.264 recording
- Audio recording (vary by camera models)

Powerful Surveillance Features

- Diversified modes for live monitoring
- · Smart control of PTZ cameras and auto cruising
- Event notification on monitoring
- Real-time SMS and email alert
- · Multi-channel playback at different speed
- Easy data search by date & time, timeline, event, and intelligent video analytics (motion detection, foreign object, missing object, out of focus, and camera occlusion)
- Enhanced file security by digital watermark

Easy to Use

- Trouble-free 6-step installation
- Intuitive web-based user interface
- Smart search of IP cameras for quick settings
- Drag and drop function on monitoring
- Touch-N-Go PC-less Installation by LCD Display

High Reliability and Smart Features

- Intel® Core™ 2 Duo 2.8 GHz CPU and 2GB DDRII memory
- Advanced RAID (RAID 0/ 1/ 5/ 5 + hot spare/ 6/ 6 + hot spare/ JBOD) with hot-swap design
- Large storage capacity (up to 16TB) for long-term recording
- Intelligent auto power on when power resumes after power outage
- Supports UPS for 24x7 service
- Convenient video backup to external USB storage by one touch auto video backup button
- Two Gigabit LAN ports for failover, load-balancing, or multi-IP setting



Real-time monitoring over the Internet anytime, anywhere

Secure Life, Secure Property



High Performance Network Surveillance System for Enterprise

QNAP VS-8040 VioStor NVR is the class-leading 8-bay, hot-swappable network surveillance system for high quality real-time monitoring, megapixel recording, and playback of multiple IP cameras. It is able to record up to 40 channels in H.264, MPEG-4, MxPEG, and M-JPEG video compression. The VioStor NVR is compatible with the IP cameras and video servers from popular brands such as AXIS, ACTi, Arecont Vision, Canon, Cisco, D-Link, EDIMAX, ELMO, EtroVision, GANZ, iPUX, IQeye, LevelOne, Linksys, Messoa, MOBOTIX, Panasonic BB/ BL/i-Pro, SANYO, SONY, TOA, TOSHIBA, TRENDnet, VIVOTEK, and Y-CAM.

Powered by Intel[®] Core[™] 2 Duo 2.8 GHz CPU and 2GB DDRII memory, the VS-8040 VioStor NVR maintains high stability and performance when recording the video from several megapixel IP cameras. The VioStor NVR is a standalone, Linux-based surveillance system, allowing you to monitor up to 120 channels from multiple QNAP NVR servers without any software required. You can monitor maximum 42 channels simultaneously and manage the surveillance applications on

one web browser.

recording, alarm recording, alarm recording schedule, motion-detection recording, pre-alarm, and post-alarm recordings. It offers 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. An intuitive user interface is provided for viewing the live monitoring channels, connection status, recording status, and network bandwidth, search the recording data, and play the recording data at different speed. Moreover, the VioStor NVR feature RAID 0/ 1/ 5/ 5 + hot spare/ 6/ 6 + hot spare/ JBOD, Online RAID Capacity Expansion, and Online RAID Level Migration, and two Giga LAN ports which can be configured as failover, load-balancing, or multi-IP settings. The system can be easily set up in 6 simple steps. The VioStor NVR is an excellent solution for high security

The VS-8040 VioStor NVR supports diversified recording features, e.g. schedule

Powerful Surveillance Features



• Diversified 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

• Easy Drag and Drop Function on Monitoring

The VioStor NVR supports drag and drop function to change the display order of the monitoring channels.

Smart Control of PTZ & Speed Dome Cameras

You can adjust the PTZ cameras directly by the web user interface.

• Preset Position Control and Auto Cruising

You can view different preset positions of the IP cameras by clicking the number buttons on the monitoring page. You can also configure auto cruising settings on the VioStor NVR for periodic monitoring of the preset positions of the PTZ cameras.

• Digital Zoom for Monitoring and Playback

The VioStor NVR supports digital zoom for more flexible monitoring and playback.

Event Notification

When alarm recording is enabled and an event occurs, you can click the alarm icon on monitoring page to view the alert details.

Video Snapshot

The snapshot function is supported on monitoring and playback page.

• E-map for Easy Preview of the Camera Location

You can upload the pictures of the monitoring location.

• Multi-server Monitoring

monitoring applications.

You can connect to the VioStor NVR and add other QNAP NVR servers to monitor up to 120 channels over LAN or WAN.



• All-in-one Recording Functions

- Continuous/ schedule*/ manual recording
- · Alarm recording/ multiple alarm recording schedules*
- High quality Motion-JPEG, MPEG-4, MxPEG and H.264 recording
- Up to 30 fps D1/ VGA recording for each camera
- · High performance megapixel recording
- Audio recording (vary by camera models)
 * Up to 15 schedules are supported for each camera

• Real-time SMS and Email Alert

The NVR sends SMS and e-mail alert to the administrator immediately in case of system error or emergent events.



Authority Management

You can configure the monitoring and playback authority of specified cameras for up to 32 users.

• On-line User List and Host Access Control

You can specify the connections to be allowed and denied to access the VioStor NVR. You can also view the record of users currently logged on and previously logged on to the VioStor NVR.

• Flexible Adjustment of the Length of Recording Files

You can flexibly adjust the length of the recording files.

• Schedule Remote Replication

The VioStor NVR supports schedule remote replication for secure data backup to a remote NAS.

Advanced Event Logs

The VioStor NVR provides detailed event logs of system warning, hard disk error, network disconnection, UPS status users' networking services, and recordings access record.



Multi-channel Playback at Different Speed

The VioStor NVR provides Express Quad View Playback that you can either divide the selected time equally into four playback views or play the video of four cameras at the same time.

Enhanced File Security by Digital Watermark

The digital watermark technology allows you to check if the recording files on VioStor NVR are modified to enhance the file security.



Data Search by Date & Time, Timeline, Event and Intelligent Video Analytics (IVA)

The VioStor NVR supports quick search of recording data by date and time, timeline, and events, and intelligent video analytics, including motion detection, foreign object, missing object, out of focus, and camera occlusion.

Motion Detection:

The moving objects of the searching area are highlighted in red brackets.



Foreign Object:

The foreign objects of the searching area are highlighted in vellow brackets



Missing Object:

The missing objects of the searching area are highlighted in vellow brackets



Out of Focus:

Detects if the IP camera is out of focus.



Camera Occlusion: Detects if the IP camera is obstructed.



High Reliability and Smart Features

- Advanced RAID (0/1/5/5/6/JBOD) with Hot-swap Design
- Online RAID Capacity Expansion and Online RAID Level Migration
- Online RAID Capacity Expansion

The storage capacity of a RAID configuration can be expanded by replacing the hard drives with larger ones.

Online RAID Level Migration

You can upgrade the disk configuration to higher RAID level with the data retained. There is no need to turn off the server during the process.

The administrator can set the timeout period to log off the users when the idling time has reached in order to enhance secure management of the NVR.

- S.M.A.R.T. & Advanced HDD Health Scanning (HHS)
- Intelligent Automatic System Startup when Power Resumes after **Power Outage**
- Support UPS for 24x7 Service
- Convenient Video Backup to External USB Storage by One Touch **Auto Video Backup Button**
- DOM Architecture with Embedded Fail-safe Dual OS for **Enhanced Reliability**

Excellent Hardware Design

- Intel® Core™ 2 Duo 2.8 GHz CPU and 2GB DDRII Memory
- Green NVR Solution: Linux-embedded System with Low Power Consumption



Touch-N-Go PC-less Installation by LCD Display

The handy LCD display on the VioStor NVR provides a speedy and easy approach to initialize the NVR and set up the RAID configuration without using any computer. You can use the handy LCD to finish the first time installation in 3 simple steps.

- Up to 16TB Storage Capacity for Long-term Recording
- Lockable HDD Tray
- Two Gigabit LAN Ports for Failover, Load-balancing, or Multi-IP Setting
 - Failover

Failover allows the VioStor NVR to sustain the failure of one network port to provide continuous services.

· Load-balancing

Bandwidth aggregation is supported to boost the file transfer speed (works with managed Ethernet switch with 802.3ad configured).

Multi-IP Setting

The VioStor NVR can be deployed with two different IP settings for sharing among different workgroups in two different subnets.



Powerful Network Services

- DDNS Support & Built-in NTP Server
- Convenient Data Access by Network Neighborhood (SMB/ CIFS) / Web File Management (HTTP) / FTP server

Application: Live Monitoring, Recording, and Video Playback over the Internet Anytime, Anywhere

- Business Services
- · Live production line monitoring for
- monitorina
- quality and security control Department store/ mall
- Crime prevention, e.g. shoplifting
- Parking lot monitoring Construction site monitoring
- Convenience store security
- Gas station security Hotel security
- Multiple remote offices/ factory sites
- Office Management
- Real-time office monitoring from remote locations
- In-house office monitoring Office security fortification
- · False alarm identification



Hardware Specifications

Processor

Intel® Core™ 2 Duo 2.8 GHz processor

Memory

2GB DDRII RAM, 128MB flash (DOM)

HDD Capacity

8 x 3.5" SATA I/II HDD or 8 x 2.5" SATA HDD (the standard system is shipped without HDD)

HDD Tray

x hot-swappable and lockable tray

LAN Port

2 x Gigabit RJ-45 Ethernet port

LED Indicators

Status, LAN, USB, HDD 1, HDD 2, HDD 3, HDD 4, HDD 5, HDD 6, HDD 7, HDD 8 $\,$

Buttons

· Power, one touch auto video backup, reset button

5 x USB 2.0 (front: 1; back: 4) Front: for USB storage device (One touch auto video backup) Back: for UPS device

LCD Panel

Mono-LCD display with backlight and buttons for configuration

Alarm Buzzer

Form Factor

Hardware Dimensions

- 298(H) x 200(W) x 270(D) mm
- 11.73(H) x 7.87(W) x 10.63(D) inch

Color Box Shipping Weight

Operation Environment

Temperature: 0~40°C/ 32~104° • Humidity: 0~95% R.H.

Power Supply

ATX 350W, Input: 100-240V AC, 47-63Hz, 6A-2.8A

VGA

RS-232

• RS-232 x 1

Fan

· 2 x 12cm smart cooling fan

Certification

Software Specifications

Video

Display Mode: 1/4/6/8/9/10/12/16/20/25/36/42-channel display, Picture-in-Picture mode, sequential mode, dual display

Number of IP Cameras Supported (Recording):

- ◆ VS-8040: Up to 40 channels
- ◆ VS-8032: Up to 32 channels
- ♦ VS-8024: Up to 24 channels Multi-server Monitoring:

- ◆ Up to 120 channels monitoring from multiple QNAP NVRs Compression Format:
- ◆ M-JPEG, MPEG-4, MxPEG, and H.264 (vary by camera models) Video Setting: Resolution, quality, frame rate

E-map: Upload E-map (JPEG)

Recording

Recording Mode

- ◆ Continuous/ manual/ schedule* recording
- ◆ Alarm recording/ multiple alarm recording schedules* * Up to 15 schedules are supported for each camera

Buffer Storage for Alarm Images (before & after Events):

◆ Pre-recording: up to 300 sec; post-recording: up to 300 sec (total 600 sec/ 10 min)

Recording Performance

• Up to 30 fps at D1 or VGA for each camera

Real performance may vary in different environment **Megapixel Recording**: Supports megapixel cameras **File format**: AVI (QNAP codec is needed for playback)

- Disk Management:
 ◆ Single disk, RAID 0, RAID 1, RAID 5, RAID 5 + hot spare, RAID 6, RAID 6 + hot spare, and JBOD/ Linear

 Online RAID Capacity Expansion, Online RAID Level Migration
- ◆ HDD S.M.A.R.T., bad blocks scan

Services: Web File Manager, FTP, SMB/CIFS

Playback

Playback Channel: Max 4-channel playback at the same time Playback Mode:

 Play, pause, stop, fast forward, reverse play, next/ previous frame, next/ previous video file, different speed control

Search Mode: By date & time, timeline, event, and intelligent

Playback Enhancement:

• Full screen display, video snapshot, digital zoom **Download:** Download recordings via the web

Operation System: Linux-embedded system

On-line Users List: Record of the users currently logged on and previously logged on to the NVR

Host Access Control: Specify the connections to be allowed and denied to access NVR

Authority Management: The right to monitor and playback each camera can be separately defined for each user (max 32)

Alert Notification: Buzzer, event notification, SMS, e-mail alert Auto logoff: The administrator can set the timeout period to log off the users when the idling time has reached

Digital Watermark: Enhanced file security by digital watermark UPS: APC/ MGE (USB type UPS)
Event Logs: Detailed record of event logs

Utility Software

Brand

QNAP Finder: Discovery and quick setup for NVR

Network

Support: HTTP, TCP/IP, SMTP, DHCP, Static IP, DNS, DDNS, FTP, NTP, UPnP, failover, load-balancing, multi-IP setting Dual Gigabit LAN: Failover/load-balancing/multi-IP setting

LCD Panel

- PC-less RAID configuration for the first time setup
- Checks or configures the IP settings, physical disk info, system info, shut down or reboot the NVR etc.

Client PC Requirements

(Suggested system requirements for better video performance)

CPU: ◆ Motion-JPEG format (up to 40 channels):

Dual core CPU 2.4 GHz or above ◆ MPEG-4/ MxPEG/ H.264 format (up to 40 channels):

Quad core CPU 2.4 GHz or above

* For higher surveillance performance, please select more advanced PC models

Memory: 1GB or above

Operation System: Microsoft Windows XP/ Vista (32-bit)

Web Browser: Internet Explorer 6.0 or later Network Interface: 10/100/1000 Mbps

Display Resolution: Suggested 1024 x 768 pixels or above

Language Support

English/ French/ German/ Italian/ Japanese/ Spanish/ Simplified Chinese/ Traditional Chinese/ Danish/ Dutch/ Finnish/ Korean/ Norwegian/ Polish/ Portuguese/ Russian/ Swedish

* Designs and specifications are subject to change without notice

206M/207/207W/207M/207MW/209FD(-R)/209MFD(-R)/210/210A/211A/211//211W/211M/212/213/214/215/ 216FD/216MFD/227/228M/225FD/231/322/233D/P1311/P3011/P3031/P3334/P3344/Q1755/Q7401/M1011/ M1011-W/M1031-W/M3011/M7001/2410/2470A/241S/241SA/243SA/247S AXIS ACM-1231 / ACM-1232 / ACM-1321 / ACM-1311 / ACM-1431 / ACM-1432 / ACM-1511 / ACM-3011 / ACTi **Package Contents** AV 1300/ AV 1305/ AV 1355/ AV 2100/ AV 2105/ AV 2155/ AV 3130/ AV 3100/ AV 3105/ AV 3155/ AV 5100/ AV 5105/ AV 5155/ AV 8180/ AV 8185/ AV 8360/ AV 8365 Arecont Vision • VB-C300/ VB-C300B/ VB-C50iR/ VB-C50i/ VB-C50FSi/ VB-C50Fi Canon Cisco DCS-2120/ DCS-2121/ DCS-3220/ DCS-3220G/ DCS-3420/ DCS-5220/ DCS-5300/ DCS-5300G/ DCS-6620, DCS-6620G/ DCS-900(A)/ DCS-900(B)/ DCS-900(B2)/ DCS-920 D-Link EDIMAX IC-1510/ IC-1510WG/ IC-3010/ IC-3010WG/ IC-7000PT/ IC-7000PTN PTC-401C-IP/ PTC-402C-IP/ SN2230-IP2/ SN2230-IPW/ SN2232 IP/ TD4112-IP/ TD4114 IP2 ELMO EV3130/ EV3131/ EV3131A/ EV3830/ EV6130/ EV6332/ EV6530 EtroVision Ethernet cable x 2 iPUX ICS 1001/ ICS 1011/ ICS 1003/ ICS 1013/ ICS 1300/ ICS 1310/ ICS 130A/ ICS 131A • 040S/ 041\$/ 042\$/ 510/ 511/ 701/ 702/ 703/ 705/ 710D/ 711D/ 712D/ 752/ 753/ 755/ 802/ 803/ 805/ 811/ 852/ 853/ 855 IQeye FCS-0010/ WCS-0010/ FCS-0020/ WCS-0020/ FCS-1010/ WCS-2010/ FCS-1030/ WCS-2030/ FCS-1040/ WCS-2 FCS-1060/ WCS-2060/ FCS-1070/ WCS-2070/ FCS-109X/ WCS-109X/ FCS-3000/ FCS-3021/ FCS-5030 LevelOne • Linksvs PVC-2300/ WVC-200/ WVC54GCA • ### MESSOA NDZ860 H2/ NIC835 HN5/ NIC836 Quick Installation Guide (RAID configuration) D12D-IT/ D12D-Sec/ D22M-Basic/ D22M-IT/ D22M-Sec/ M10D-Night/ M12D-IT/ M12D-Sec/ M12M-IT/ M12M-Sec/ M12M-Web/ M22M-IT/ M22M-Night/ M22M-Sec/ Q22M-Basic/ Q22M-Sec/ Q24M-Sec • • MOBOTIX • BB-HCM580/ BB-HCM581/ BB-HCM527/ BB-HCM531/ BB-HCM511/ BB-HCM515/ BB-HCM517/ BL-C1/ BL • • • VCC-400N/ VCC-P450/ VCC-P470/ VCC-PT490/ VCC-PT500/ VCC-9600/ VCC-9800/ N6695/VCC-HD400/ SNC-CS10/ SNC-CS11/ SNC-CS20/ SNC-CS50/ SNC-CM120/ SNC-DF40/ SNC-DF50/ SNC-DF70/ SNC-DF80 SNC-DF80/ SNC-DS10/ SNC-DS60/ SNC-DM110/ SNC-DM160/ SNC-P1/ SNC-P6/ SNC-RX530/ SNC-RX5 • SONY Quick Installation Guide TOA • • TOSHIBA • TRENDne TV-IP212/TV-IP212W/TV-IP312/TV-IP312W/TV-IP410/TV-IP410W/TV-IP422/TV-IP422W • • • VIVOTEK PZ7152/ SD6122V/ SD7151/ SD7313/ SD7323/ VS 3102/ VS 3100P/ VS 7100

"For the latest information of the supported cameras, please visit QNAP Security website: http://www.qnapsecurity.com/pro_compatibility_camera.asp
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""Designs and specifications are subject to change without notice.

Models

QNAP Systems, Inc.

Hard disk lock

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For more detailed information, please visit QNAP website: http://www.qnapsecurity.com/

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