Comparison of VioStor NVR Series







Product Photo					
NVR Model	VS-12164U-RP/12156U-RP/ 12148U-RP/12140U-RP Pro	VS-8148U-RP/8140U-RP/ 8132U-RP/8124U-RP Pro	VS-8148/8140/8132/8124 Pro+	VS-6020/6016/6012 Pro	
Operation System	Linux-embedded	Linux-embedded	Linux-embedded	Linux-embedded	
Max. number of supported IP cameras/ channels (recording)	64/56/48/40	48/40/32/24	48/40/32/24	20/16/12	
Video server support	Yes	Yes	Yes	Yes	
High-definition local display	Yes	Yes	Yes	Yes	
Multi-server monitoring	Yes (up to 128 channels)	Yes (up to 128 channels)	Yes (up to 128 channels)	Yes (up to 128 channels)	
Video compression (IP camera)	H.264, MPEG-4, M-JPEG & MxPEG (depending on the camera models)	H.264, MPEG-4, M-JPEG & MxPEG (depending on the camera models)	H.264, MPEG-4, M-JPEG & MxPEG (depending on the camera models)	H.264, MPEG-4, M-JPEG & MxPEG (depending on the camera models)	
Max. network throughput tested (1)	N/A	360 Mbps	360 Mbps	176 Mbps	
Megapixel recording	Yes (up to 10-megapixel)	Yes (up to 10-megapixel)	Yes (up to 10-megapixel)	Yes (up to 10-megapixel)	
Multi-view playback	16-view	16-view	16-view	16-view	
Intelligent video analytics (IVA)	Motion detection, missing object, foreign object, out of focus, and camera occlusion	Motion detection, missing object, foreign object, o ut of focus, and camera occlusion	Motion detection, missing object, foreign object, out of focus, and camera occlusion	Motion detection, missing object, foreign object, out of focus, and camera occlusion	
Advanced event management	Yes	Yes	Yes	Yes	
Max. number of hard drives supported (2)	12 x 3.5-inch SATA, 2.5-inch SATA, SSD	8 x 3.5-inch SATA, 2.5-inch SATA, SSD	8 x 3.5-inch SATA, 2.5-inch SATA, SSD	6 x 3.5-inch SATA, 2.5-inch SATA, SSD	
Max. raw capacity	36TB (12 x 3TB hard drives)	24TB (8 x 3TB hard drives)		18TB (6 x 3TB hard drives)	
RAID	RAID 0, 1, 5, 5+hot spare, 6, 6+hot spare				
Processor	Intel® processor	Intel [®] Core [™] i3 3.3GHz	Intel® Core™ i3 3.3GHz	Dual-core Intel® Atom™	
LCD panel		Yes	Yes	Yes	
Number of Gigabit LAN ports	TBD	2	2	2	
Number of USB ports	2 x USB 3.0 4 x USB 2.0	2 x USB 3.0 4 x USB 2.0	2 x USB 3.0 4 x USB 2.0	5 x USB 2.0	
Redundant power supply	Yes	Yes			
Hardware dimensions (HxWxD)	88 x 439 x 520 mm/ 3.46 x 17.28 x 20.47 inch	88 x 439 x 520 mm/ 3.46 x 17.28 x 20.47 inch	217.5 x 327 x 321.2 mm/ 8.56 x 12.8 x 12.65 inch	175 x 257 x 235 mm/ 6.89 x 10.12 x 9.25 inch	
Gross weight	22.92Kg /50.53lb	20.76Kg /45.78lb	13.98Kg/30.79lb	6.5Kg/14.33lb	







Product Photo				
NVR Model	VS-4016U-RP/ 4012U-RP/4008U-RP Pro	VS-4016/4012/4008 Pro	VS-2012/2008/2004 Pro	VS-2008L/2004L
Operation System	Linux-embedded	Linux-embedded	Linux-embedded	Linux-embedded
Max. number of supported IP cameras/ channels (recording)	16/12/8	16/12/8	12/8/4	8/4
Video server support	Yes	Yes	Yes	Yes
High-definition local display	Yes	Yes	Yes	
Multi-server monitoring	Yes (up to 128 channels)			
Video compression (IP camera)	H.264, MPEG-4, M-JPEG & MxPEG (depending on the camera models)	H.264, MPEG-4, M-JPEG & MxPEG (depending on the camera models)	H.264, MPEG-4, M-JPEG & MxPEG (depending on the camera models)	H.264, MPEG-4 & M-JPEG (depending on the camera models)
Max. network throughput tested (1)	176 Mbps	176 Mbps	176 Mbps	28 Mbps
Megapixel recording	Yes (up to 10-megapixel)	Yes (up to 10-megapixel)	Yes (up to 10-megapixel)	Yes
Multi-view playback	16-view	16-view	16-view	16-view
Intelligent video analytics (IVA)	Motion detection, missing object, foreign object, out of focus, and camera occlusion	Motion detection, missing object, foreign object, out of focus, and camera occlusion	Motion detection, missing object, foreign object, out of focus, and camera occlusion	Motion detection, missing object, foreign object, out of focus, and camera occlusion
Advanced event management	Yes	Yes	Yes	Yes
Max. number of hard drives supported (2)	4 x 3.5-inch SATA, 2.5-inch SATA, SSD	4 x 3.5-inch SATA, 2.5-inch SATA, SSD	2 x 3.5-inch SATA, 2.5-inch SATA, SSD	2 x 3.5-inch SATA
Max. raw capacity	12TB (4 x 3TB hard drives)		6TB (2 x 3TB hard drives)	
RAID	RAID 0, 1, 5, 5+hot spare, 6		RAID 0, 1	
Processor	Dual-core Intel® Atom™	Dual-core Intel® Atom™	Dual-core Intel® Atom™	Marvell 1.2 GHz
LCD panel		Yes		
Number of Gigabit LAN ports	2	2	2	1
Number of USB ports	5 x USB 2.0	5 x USB 2.0	5 x USB 2.0	3 x USB 2.0
Redundant power supply	Yes			
Hardware dimensions (HxWxD)	44 x 439 x 499 mm/ 1.73 x 16.97 x 19.65 inch	177 x 180 x 235 mm/ 6.97 x 7.09 x 9.25 inch	150 x 102 x 216 mm/ 5.91 x 4.02 x 8.5 inch	165.5 x 85 x 218.4 mm/ 6.52 x 3.35 x 8.60 inch
Gross weight	12.06Kg/26.59lb	4.65Kg /10.24lb	2.92Kg/6.44lb	1.9Kg /4.19 lb

(1) Based on QNAP's laboratory tests. Actual performance may vary depending on the network environments. (2) The standard system is shipped without hard disk drives.

QNAP Systems, Inc.

Address: 2F, No. 22, Zhongxing Rd, Xizhi Dist, New Taipei City 221, Taiwar QNAP may make changes to specifications and product descriptions at anytime, without notice. Copyright © 2011 QNAP Systems, Inc. All rights reserved. $^{\circ}$ QNAP is a registered trademark of QNAP Systems, Inc. All other

QNAP Central Management System (CMS)

CMS Professional

- Comprehensive centralized management solution
- Supports high-definition video surveillance and playback

- Intuitive and friendly user interface for effective operation Real-time alarm list for immediate management • Turnkey solutions guarantee performance of integrated sy



Comprehensive CMS Features

The real-time monitoring interface of the CMS Professional is very flexible as well as user friendly. The user-defined camera views feature allows the administrator to customize and manage onscreen views for different surveillance operators. The multi-layered electronic map (E-map) feature gives users the ability to upload E-maps so as to indicate the exact locations of the IP cameras and the alarm devices. An instant alarm will be shown on the E-map to alert the users when an event occurs.

The CMS Professional reserves the capability for future expansion of the surveillance system installed. Multiple NVR servers can be added to the system anytime.

Up to 256 channels from more than 48 IP camera brands can be added and monitored collectively. In addition, the CMS client software offers a multilingual user interface. Pairing up CMS Professional along with QNAP NVR servers will bring the convenience of boundless surveillance and system management on the network.

Cloud Centralized Management Solution

- High compatibility with all QNAP VioStor NVR series Supports SSL connection to secure remote access
- Show live video by clicking on the camera icons



- Supports multi-screen display to optimize operating efficiency
- Trouble-free VioStor NVR server configuration
- Flexible user defined live video monitoring layout
- Customizable E-maps to indicate IP cameras location
- Prompt event notification on monitoring screen
- PTZ speed dome cameras and preset points control
- Powerful alarm list for real-time alarm image and event handling

High-definition Video Surveillance and Playback

- Compatible with more than 1,100 IP cameras and video servers from 48 popular brands
- · Search video from multiple cameras/ servers simultaneously
- Synchronized playback of multiple



Comprehensive Event Management

- Flexible event handling settings Real-time event display
- Customizable E-maps to indicate IP cameras location
- Indicate the locations of the IP cameras when the alarm occurs



Industry-leading Turnkey Video Wall Solution (Optional)

- Turnkey solutions guarantee performance of integrated systems
- Real time dynamic control of display layout and content via remote control station

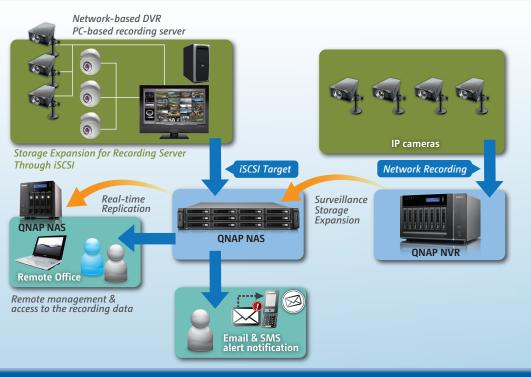


Powerful Client Station

- · Supports maximum four monitors for independent playback and display control
- Up to 64 IP cameras can be viewed on one monitor
- · Unique video management interface which supports single-channel display, multi-channel display in sequential mode, and E-map in each view



QNAP Network Attached Storage (NAS) Solution for Surveillance Applications



High Capacity, Reliability, and Availability Storage Solutions for Video Recording

Turbo NAS Series for Recording Storage Expansion

- 2, 4, 5, 6, 8, and 10 drive tower models and 4-bay 1U, 8-bay
- 2U. 12-bay 2U rackmountmodels
- Secure, reliable, scalable iSCSI and
- virtualization deployment with high capability/price value

Local Backup

- Storage expansion for PC-based DVR
- Video backup from a NAS to another NAS on the local network
- · Real-time or scheduled data backup



Total Storage Solution for Surveillance Applications

- Real-time Remote Replication (RTRR) provides real-time or scheduled data replicationbackup to a remote QNAP NAS, an
- FTP server, or an external drive
- Remote replication to an rsync server • Encrypted Remote Replication by Rsync

TurboNAS



• iSCSI target for storage expansion of video recording serve · Real-time remote replication to back up new and modified files immediately to a remote NAS • Surveillance storage expansion

• Comprehensive event logs

• Touch-N-Go PC-less installation • Scheduled power on/off • Wake on LAN

• Email, SMS, and Instant Messaging alert

• SNMP (Simple Network Management Protocol)

• S.M.A.R.T. & Advanced Hard Drive Health Scan (HHS)

High Reliability and Smart Features

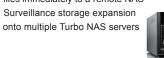
Online RAID capacity expansion & online RAID level migration
 Linux-

• RAID 0, 1, 5, 6, 10, 5+hot spare, 6+hot spare, 10+hot spare,

Dual Gigabit LAN for network fail-over or load-balancing

Redundant Power Supply (for rackmount models)

Linux-embedded DOM-based architecture























Innovative Network Video Recorder

and Total Surveillance Solution

- VioStor NVR
- CMS, TV Wall Station, Client Station - Turbo NAS for NVR storage expansion & backup



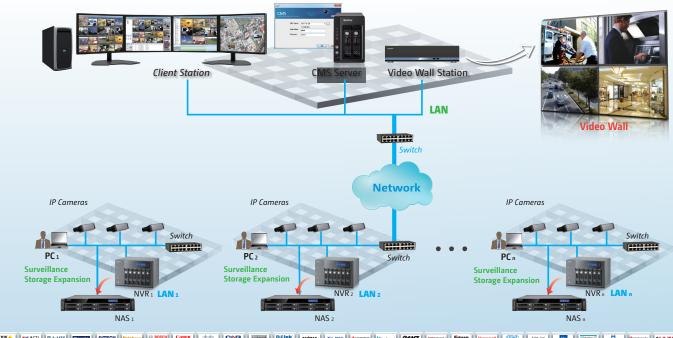








QNAP Surveillance Solution



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VS-8148U-RP/8140U-RP/

8132U-RP/8124U-RP Pro

definition (HD) local display

VS-6020/6016/6012 Pro

• 6-bay, 18TB, 20/16/12-channel

definition (HD) local display

VS-4016/4012/4008 Pro

· 4-bay, 12TB, 16/12/8-channel

definition (HD) local display

VS-2008L/2004L

• 2-bay, 6TB, 8/4-channel

High quality megapixel recording

Max network throughput: 176 Mbps*

Power-saving design, consumes only 35W

Marvell® 1.2 GHz CPU, 256MB DDR2 memory

Power-saving design, consumes only 13W

Max network throughput: 28 Mbps*

High quality megapixel recording

Max network throughput: 176 Mbps*

Dual-core Intel® Atom™ CPU, 1GB memory

PC-less network surveillance by high

Redundant power supply available

High quality megapixel recording

Max network throughput: 360 Mbps*

Dual-core Intel[®] Atom™ CPU, 1GB memory

PC-less network surveillance by high

PC-less network surveillance by high

8-bay, 24TB, 2U chassis, 48/40/32/24-channel
 Intel® Core™ 3.3GHz CPU, 2GB DDR3 memory

QNAP VioStor NVR

VS-12164U-RP/12156U-RP/ 12148U-RP/12140U-RP Pro

- •12-bay, 36TB, 2U chassis,64/56/48/40-chann Intel[®] processor
- Redundant power supply available
- High quality megapixel recording



VS-8148/8140/8132/8124 Pro+ 8-bay, 24TB, 48/40/32/24-channel

- Intel® Core™ 3.3GHz CPU, 2GB DDR3 memory PC-less network surveillance by HDMI
- or VGA local display
- High quality megapixel recording
- Max network throughput: 360 Mbps*

VS-4016U-RP/4012U-RP/ 4008U-RP Pro

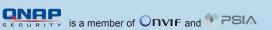
- Dual-core Intel[®] Atom™ CPU, 1GB memo
- Redundant power supply available PC-less network surveillance by high

4-bay, 12TB, 1U chassis, 16/12/8-chang

- definition (HD) local display
- High quality megapixel recording
- Max network throughput: 176 Mbps*

VS-2012/2008/2004 Pro

- 2-bay, 6TB, 12/8/4-channel
- Dual-core Intel® Atom™ CPU, 1GB mem PC-less network surveillance by high
- definition (HD) local display
- High quality megapixel recording Max network throughput: 176 Mbps*
- · Power-saving design, consumes only 25W



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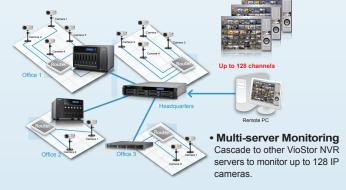
Powerful NVR Features

Why QNAP NVR

NAP 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 1,100 network camera models from popular brands. With QNAP's unique multi-server monitoring feature, multiple VioStor NVRs can be cascaded together for central monitoring of up to 128 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.



Real-time Remote Monitoring





Multiple display modes - Sequential display mode



The VioStor NVR provides an E-map function for users to upload digital maps and indicate the locations of the IP cameras of a monitoring location or region.

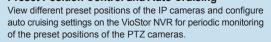


Event Notification on Monitoring When alarm recording is enabled and an event occurs, an alarm

icon is shown instantly on monitoring page. Click the icon to view the alert details



Preset Position Control and Auto Cruising





• Smart Control of PTZ & Speed Dome Cameras Adjust the PTZ cameras directly by the web-based and local display interface of the NVR.



Digital Zoom

The VioStor NVR supports digital zoom for flexible monitoring and playback. It is a powerful function for megapixel IP cameras.



The VioStor NVR provides real-time monitoring and snapshot. Users can take a snapshot of the monitoring screen anytime.

Mobile Surveillance

The VMobile app is a mobile surveillance application for users to monitor the IP cameras configured on the VioStor NVR remotely by iPhone, iPad, iPod touch, Android phones, or Windows PDA. The users will be notified by instant SMS when specified events are triggered at the monitored areas.



High-definition (HD) Local Display



Configure the NVR, monitor the IP cameras and play the video conveniently via a USB mouse and a full HD (1920 x 1080) VGA monitor connected to VioStor

ntuitive Local Display Interface

* For VioStor Pro series NVR only.

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.



Various Recording Functions - Continuous, manual, and scheduled recording

- Alarm recording (by multiple alarm events) Multiple alarm recording schedules
- Pre-alarm and post-alarm recording - Audio recording



• High Performance Megapixel Recording The VioStor NVR supports high performance megapixel recording (up to 10-megapixel cameras supported) from various IP cameras.



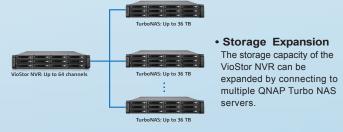
Auto Snapshot Create maximum 15 schedules for automatic snapshot taking

or configure the NVR to take snapshots (max 60) of an IP camera automatically every hour.



• ONVIF and PSIA-conformant Cameras Support Connect to ONVIF and PSIA network devices for monitoring, video recording, and playback on the NVR.

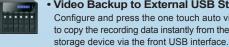
Innovative Storage Expansion & Video Backup Solution





Scheduled Remote Replication

The VioStor NVR supports scheduled remote replication for secure recording backup to a remote NAS on LAN.



Video Backup to External USB Storage* Configure and press the one touch auto video backup button to copy the recording data instantly from the NVR to an external

* VS-12164U-RP/12156U-RP/12148U-RP/12140U-RP Pro & VS-8148U-RP/8140U-RP/8132U-RP/8124U-RP Pro do not support this feature.

Advanced event management can be divided into two parts:



Events

The VioStor NVR supports different event types, including motion detection alarm input, connection failure, recording failure, and user-defined event to trigger follow-up actions.



Motion Detection

When the IP camera detects any movement, the defined actions will be activated.



Alarm Input When the VioStor NVR receives a signal from the IP camera's

alarm input, the defined actions will be activated.



defined actions will be triggered.

 Recording Failure When the VioStor NVR fails to record video due to hard drive failure or system crash, the defined actions will be triggered.



User-defined Event*

The VioStor NVR supports user-defined events. The administrator can enter the CGI command in the browser to trigger the event, and the defined actions will be activated. * The administrator can enter the following URL in the browser to trigger

http://NVR IP/cgi-bin/logical_input.cgi?name=User-defined Event Name



The NVR supports different actions when an event is triggered. These actions include 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.



Camera Control When an event occurs, the PTZ camera will be adjusted to

the specified preset position for monitoring and recording. Use HTTP URL to activate further actions.



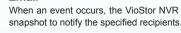
When an event occurs, the alarm output from the IP cameras will trigger other alert systems, such as lighting system, auto phone dialing system, security system and so on.

* The VioStor NVR supports the alarm output of AXIS, Panasonic, SONY, ACTi, and VIVOTEK camera models.

The VioStor NVR sends an SMS message to inform the specified recipients when an event occurs



When an event occurs, the VioStor NVR sends an email with





User-defined Action

The VioStor NVR supports user-defined actions. 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, and air conditioning control system.

Playback Features

 Multi-view Playback 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.

Real-time Digital Watermarking

The VioStor NVR supports digital watermarking to protect the videos from unauthorized modification.



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, event, and intelligent video analytics (IVA). including motion detection, foreign object, missing object, out of focus, and camera occlusion

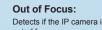
Motion Detection: Detects movement in the video. The moving objects

of the search area are highlighted in red brack



Missing Object: Detects a missing obje in the video. The n objects of the search at

are highlighted in yel



Camera Occlusio Detects if the IP camera obstructed.

Remote Monitoring

• H 264 MPEG-4 M-JPEG MxPEG

High Reliability and Smart Features

recovers after an outage.

• UPS Support for 24/7 Service

Advanced RAID Management

of hard drives installed.

spare, single, and JBOD disk configurations.

Online RAID Capacity Expansion

• Online RAID Level Migration

server during the process.

Intelligent Auto Power on after Power Recovery

The VioStor NVR turns on automatically when the power

The VioStor NVR supports APC, CyberPower, MGE, and YEC

UPS devices to enable stable and continuous recording 24/7.

The VioStor NVR supports RAID 0, 1, 5, 6, 5+hot spare, 6+hot

* The RAID levels supported depend on the NVR models and number

The storage capacity of a RAID disk volume of the NVR can

Upgrade the disk configuration of the NVR to a higher RAID

level with the data retained. There is no need to turn off the

S.M.A.R.T. (Self-Monitoring Analysis and Reporting Technology)

helps monitor the hard disk drives status. The VioStor

NVR supports HHS (Hard Disk Drive Health Scan) for disk

• S.M.A.R.T. & Advanced HDD Health Scanning

be expanded by replacing the hard drives with larger ones.

Display Mode: · Continuous, manual, and scheduled recording display, sequential mode, dual display · Alarm recording, multiple alarm recording schedule

Pre-alarm and post-alarm recording Advanced Monitoring Features Auto snapshot (scheduled or hourly snapshot) Full screen display, video snapshot, manual

recording, event notification, PTZ control, and digital zoom E-map: Upload digital maps and indicate the • Up to 30 fps at HD (720P) for each channel locations of the IP cameras of a monitoring

location or region. * Actual performance may vary depending on the environment and individual settings. Remote Playback Search Mode: · Video compression, resolution, frame rate,

• By date & time, timeline, event, and intelligent video analytics (IVA) Intelligent Video Analytics (IVA): AVI (QNAP codec is required for playback) Motion detection, missing object, foreign

Playback Mode:

Download:

· Multiple files export to an AVI file

Video files and snapshots can be accesse

by Web File Manager (HTTP), FTP, or SMB/

Playback Channel: • 1, 4, 6, 8, 9, 10, 12-channel display, Maximum 16-view playback from multiple NVR servers simultaneously sequential display mode

Full screen display, event notification, PTZ Play, pause, stop, reverse play, next/ control, and digital zoom previous frame, next/previous video file and speed control Local Playback:

Advanced Playback Features Single-view playback · Full screen display, video snapshot, digita Search Mode: By date & time zoom, and digital watermarking Playback Control:

previous video file, and speed control **Advanced Playback Features** Full screen display

Digital zoom

Languages Disk Management: Czech, Danish, Dutch, English, French, Finnish • Single disk, RAID 0, RAID 1, RAID 5, German, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, RAID 5+hot spare, RAID 6, RAID 6+hot spare.

Traditional Chinese, Turkish · Online RAID capacity expansion and online **Client PC Requirements**

Suggested system requirements) Operation System: Microsoft Windows 7

Web Browser: Internet Explorer 6.0 or later · System and disk information checking,

Network Interface: 10/100/1000 Mbps Display Resolution:

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

Spanish, Swedish, Simplified Chinese

(•2) VioStor Pro NVR series only (*3) LCD-equipped models only

Network Services

• Dual Gigabit LAN Ports for Failover, Load Balancing, or Multi-IP Settings*

* VS-2008L and VS-2004L support one Gigabit RJ-45 Ethernet port only.

▶ 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 Settings

Two IP settings can be configured on the NVR to allow network access from two different subnets.

Green NVR Solution

The Linux-based VioStor NVR is more power-saving than PCbased surveillance solutions.



NVR Software Specifications

checking and bad blocks scanning

Recording Video Compression:

Recording Mode:

Real-time digital watermarking

Recording Performance: (*1)

Supports megapixel cameras

Recording Settings:

Local Display (*2

File Format:

quality, and audio recording

Advanced Monitoring Features:

Play, pause, stop, reverse play, play next/

 Up to 128 channels monitoring from multiple VioStor NVR servers (ontions available depend on the IPcameras)

• 1, 4, 6, 8, 9, 10, 12, 16, 20, 25, 36,42-channel

object, out of focus, and camera occlusion

and JBOD (*1) RAID level migration

Hard disk S.M.A.R.T. and bad blocks scanning

system shutdown and reboot, etc.

· Failover, load-balancing, multi-IP settings

Host Access Control: Control of allowed

Auto Logoff: Automatic user logoff from

Online Users List: Logon status display of

UPS: APC, CyberPower, MGE, YEC (USB)

Network

DDNS, FTP, and NTP

Dual Gigabit LAN: (*4)

Security Control

and audio monitoring

Access Right Management:

and denied access to the NVR

idling configuration pages

active users and logon history

Event Logs: Detailed event logs

LCD Panel (* Vista, or XP • PC-less RAID configuration for the first-time

Suggested 1024 x 768 pixels or above Support: • HTTP, TCP/IP, SMTP, DHCP, Static IP, DNS,

Multiple accounts creation with different (*4) Dual LAN models only rights of monitoring, playback, PTZ control,