

• PC-less network surveillance by HD local display • 128-channel multi-server monitoring • Megapixel recording

QNAP VioStor NVR

NVR Innovative Network Video Recorder VS-8148U-RP/8140U-RP/8132U-RP/

- 8-bay, 24TB, 2U chassis, 48/40/32/24-channel
- Intel® Core™ 3.3GHz CPU, 2GB DDR3 memory Redundant power supply available
- PC-less network surveillance by HD local display
- · Max network throughput: 360 Mbps*

NVR Innovative Network Video Recorder VS-6020/6016/6012 Pro 6-bay, 18TB, 20/16/12-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*

VS-4016/4012/4008 Pro

NVR Innovative Network Video Recorder

PC-less network surveillance by HD local displ

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



- Power-saving design, consumes only 13W



Supports a Broad Range of IP Cameras

The VioStor NVR supports H.264, MPEG-4, M-JPEG, and MxPEG recording from over 1,100 IP camera models of many popular

PC-less Network Surveillance by HD Local Display

The VioStor NVR supports PC-less system configuration, monitoring of IP cameras over the network, and video playback by a monitor or high-definiton TV, a USB mouse, and a USB keyboard. * For VioStor Pro series NVR only.

Multi-server Monitoring

Connect to the VioStor NVR and add other QNAP NVR servers to monitor up to 128 channels on a PC over LAN or WAN.

Intelligent Video Analytics (IVA) for Fast Video Retrieval

The VioStor NVR supports intelligent video analytics (IVA), such as motion detection, missing object, foreign object, out of focus, and camera occlusion to provide fast video retrieval.

Advanced Event Management

The NVR provides various handling options when events are detected or alarms are triggered on the IP cameras.

Mobile Surveillance by VMobile App

Convenient Video Backup to External USB Storage

Press the one touch auto video backup button on the front of the

NVR to copy the data from the NVR to an external USB storage

With the VMobile app installed on the iPhone, iPad, iPod touch Android phones, or Windows PDA, users can monitor home and office and receive instant event alert anytime, anywhere.

RAID Data Protection

The VioStor NVR supports RAID 1, 5, 6, 5+hot spare, 6+hot spare to protect the recording data against hard drive failure. Single disk. JBOD, and RAID 0 are also offered.

The RAID levels supported depend on the number of hard drives

VS-2012/2008/2004 Pro 2-bay, 6TB, 12/8/4-channel

PC-less network surveillance by HD local display

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

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

PC-less network surveillance by HD local displa High quality megapixel recording

VR Innovative Network Video Recorder

Intel® Core™ 3.3GHz CPU, 2GB DDR3 memory

VR Innovative Network Video Recorder

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

Redundant power supply available

High quality megapixel recording

Max network throughput: 176 Mbps*

VR Innovative Network Video Recorde

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

PC-less network surveillance by HDMI or VGA

VS-8148/8140/8132/8124 Pro+

8-bay, 24TB, 48/40/32/24-channel

High quality megapixel recording

Max network throughput: 360 Mbps*

local display

Max network throughput: 176 Mbps* · Power-saving design, consumes only 25W

¬ is a member of ○□VIF

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Based on QNAP's laboratory tests. Actual performance may vary depending on the network environment.

9 Linux-embedded System

The VioStor NVR is a Linux-embedded system which is more powersaving and less vulnerable to virus attack compared to PC-based surveillance solutions.

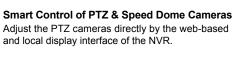
Powerful Surveillance Features

Real-time Remote Monitoring



Multi-server Monitoring Cascade to other VioStor NVR servers to monitor up to 128 IP cameras. Diversified Remote Monitoring

- 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



Preset Position Control and Auto Cruising

View different preset positions of the IP cameras and configure auto cruising settings on the VioStor NVR for periodic monitoring of the preset positions of the PTZ cameras.

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.

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



vnamic E-map

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.

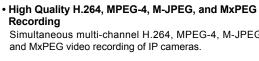
High-definition (HD) Local Display

P cameras and play the video conveniently via a USB mouse and

Intuitive Local Display Interface Advanced event management can be divided into two parts: Configure the system, monitor the

a full HD (1920 x 1080) VGA monitor connected to VioStor NVR. For VioStor Pro series NVR only.

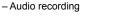
Most Complete Recording Functions



Simultaneous multi-channel H.264, MPEG-4, M-JPEG. and MxPEG video recording of IP cameras.

Various Recording Functions - Continuous, manual, scheduled recording

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



Convenient Backup Solution

Video Backup to External USB Storage*

The VioStor NVR supports scheduled remote replication

Configure and press the one touch auto video backup

NVR to an external storage device via the front USB

VS-8148U-RP/8140U-RP/8132U-RP/8124U-RP Pro do not support this

button to copy the recording data instantly from the

for secure recording backup to a remote NAS on LAN.

Scheduled Remote Replication

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.



When the VioStor NVR fails to connect to the IP camera, ONVIF-conformant Cameras Support Connect to ONVIF network devices for monitoring, the defined actions will be triggered. video recording, and playback on the NVR.

When the VioStor NVR fails to record video due to hard

Connection Failure

drive failure or system crash, the defined actions will be

User-defined Event*

The VioStor NVR supports different event types, including motion

detection, alarm input, connection failure, recording failure, and user-

defined actions will be activated.

When the IP camera detects any movement, the

When the VioStor NVR receives a signal from the IP

camera's alarm input, the defined actions will be

defined event to trigger follow-up actions.

Motion Detection

The VioStor NVR supports user-defined events. You Enter the CGI command in the browser to trigger the event, and the defined actions will be activated.

Enter the following URL in the browser to trigger the event: http://NVR IP/cgi-bin/logical input.cgi?name=User-defined Event Name

Advanced Event Management Actions

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.



When an event is triggered, the VioStor NVR starts

recording one or more channels at the same time.

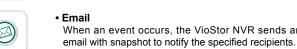
Camera Control

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 action.

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 svstem 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.



instantly to the administrator.

When an event occurs, the VioStor NVR sends an

other systems, such as extinguishing system,

When a moving object is detected by IP camera 1, the VioStor NVR

triggers the alarm sensor connected to IP camera 1, adjusts the

monitoring angle of IP camera 2 to the specified preset position, enables

alarm recording on both cameras, and delivers email and SMS alert

electronic control system, and air-conditioning control

the video. The foreign objects of the search area are highlighted in yellow The buzzer in the VioStor NVR will sound when an

in the video. The missing User-defined Action objects of the search area The VioStor NVR supports user-defined actions. are highlighted in yellow Enter the HTTP URL from other surveillance systems. When an alert occurs, the NVR will activate

Out of Focus: Detects if the IP camera is out of focus.

Motion Detection:

Detects movement in the

of the search area are

Foreign Object:

Detects a new object in

Detects a missing object

video. The moving objects

highlighted in red brackets.

obstructed.

Camera Occlusion: Detects if the IP camera is

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.

Playback Features

Real-time Digital Watermarking

Intelligent Video Analytics (IVA)

Multi-view Playback

The VioStor NVR supports digital watermarking to protect the videos and snapshots from unauthorized

(IVA), including motion detection, foreign object.

missing object, out of focus, and camera occlusion.

Data Search by Date & Time, Timeline, Event, and

date and time, timeline, event, and intelligent video analytics

The VioStor NVR supports quick search of recording data by



as system warning, hard disk error, network disconnection, motion detection and access to video

High Reliability and Smart Features



The VioStor NVR turns on automatically when the power recovers after an outage.



The VioStor NVR supports APC, CyberPower continuous recording 24/7.



The VioStor NVR supports RAID 0, 1, 5, 6, 5+hot spare. 6+hot spare, single, and JBOD disk configurations.

of hard drives installed.

Online RAID Capacity Expansion



The storage capacity of a RAID disk volume of the NVR can be expanded by replacing the hard drives with larger



Online RAID Level Migration Journal the disk configuration of the NVR to a higher RAID

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

Network Services

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

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

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



► Load Balancing

Two IP settings can be configured on the NVR to allow network

access from two different subnets.



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

Dvnamic DNS Service (DDNS)

Register a unique domain name from a DDNS provider and assign it to the NVR to allow Internet access to the NVR using a domain name rather than an IP address.

The recording data and snapshots on the VioStor NVR can be

The VioStor NVR provides guick setup for you to complete installation

All the functions of the VioStor NVR can be managed anytime, anywhere

via the web interface.

The VioStor NVR supports searching the IP cameras on the local network for quick configuration via the web-based management

NVR. or click the guick link buttons to connect to the management interface of the IP cameras.

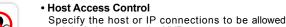
Security Control

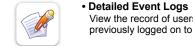
Authority Management Up to 32 users can be created on the VioStor NVR.

The users can be classified as administrator, system manager, or general users with specified rights of monitoring, video playback, PTZ camera control, and



the timeout period to log off the users when the idling





View the record of users currently logged on and previously logged on to the VioStor NVR.

 On-line and Historical User Lists The VioStor NVR provides detailed event logs, such

accessed by Microsoft Networking (SMB/CIFS), web-based management (HTTP), and FTP.

Easy Configuration and Management

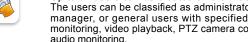
• Easy System Setup in Simple Steps

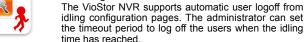
in simple steps.

Intuitive User Interface

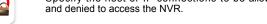
• IP Cameras Search for Quick Settings

Quick Links to IP Cameras



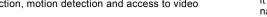


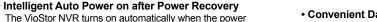














UPS Support for 24/7 Service

MGE, and YEC UPS devices to enable stable and

Configure the IP cameras by the administration interface of the VioStor

 Built-in NTP Server The date and time of the IP cameras can be synchronized with the

Convenient Data Access

About QNAP Security



developer has implemented its award-winning storage and RAID technologies to offer its most innovative local display standalone NVR. The system not only ensures remarkable stability on remote monitoring, recording, and surveillance tasks under diverse environments but also renders great simplicity. In addition, the QNAP NVR solution allows users choose suitable network cameras for various situations instead of being restricted to the resolution of traditional CCTV. To always be one step ahead, QNAP professional NVR team remains creative and committed to the integrity of their software and hardware. Furthermore, its great user experiences on wide range of supported devices and successful installations worldwide are more than enough to prove QNAP internationally.

















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Software Specifications

 H.264, MPEG-4, M-JPEG, MxPEG (options available depend on the

IP cameras) Recording Mode:

· Continuous, manual, and scheduled

- · Alarm recording; multiple alarm recording Video files and snapshots can be accessed Pre-alarm and post-alarm recording
- · Auto snapshot (scheduled or hourly Real-time digital watermarking
- Recording Performance: (*1)
- Up to 30 fps at D1 or VGA for each channel * Actual performance may vary depending on
- the environment and individual settings. Recording Settings:
- File Format: AVI (QNAP codec is required for playback)

Local Display

Display Mode: • 1, 4, 6, 8, 9, 10, 12-channel display, sequential

display mode Advanced Monitoring Features:

Search Mode: By date & time

 Full screen display Digital zoom

Remote Monitoring

Multi-server Monitoring • Up to 128 channels monitoring from multiple VioStor NVR servers

Display Mode: 1, 4, 6, 8, 9, 10, 12, 16, 20, 25, 36, 42-channel

dual display mode Advanced Monitoring Features:

recording, event notification, PTZ control, Dynamic E-map: Upload digital maps and

intelligent video analytics (IVA) Intelligent Video Analytics (IVA): · Motion detection, missing object, foreign object, out of focus, and camera occlusion Playback Channel:

Playback Mode: Play, pause, stop, reverse play, next/previous

control

digital zoom, and digital watermarking

· Multiple files export to an AVI file

Disk Management: Single disk, RAID 0, RAID 1, RAID 5, RAID

RAID level migration

Video compression, resolution, frame rate,

PC-less RAID configuration for the first-time System and disk information checking

 HTTP, TCP/IP, SMTP, DHCP, Static IP, DNS. DDNS, FTP, and NTP Dual Gigabit LAN: (*4

Local Playback:

Playback Control:

previous video file, and speed control Advanced Playback Features:

display, Picture-in-Picture, sequential mode.

Full screen display, video snapshot, manual

indicate the locations of the IP cameras of a monitoring location or region.

By date & time, timeline, event, and

• Maximum 16-view playback from multiple (-2) VioStor Pro NVR series only NVR servers simultaneously

frame, next/previous video file, and speed

Advanced Playback Features: · Full screen display, video snapshot.

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

5 + hot spare, RAID 6, RAID 6 + hot spare, Supports megapixel cameras Online RAID capacity expansion and online

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

system shutdown and reboot, etc.

Failover, load-balancing, multi-IP settings

quality, and audio recording

 Full screen display, event notification, PTZ control, and digital zoom

Single-view playback

Access Right Management: · Multiple accounts creation with different rights of monitoring, playback, PTZ control. · Play, pause, stop, reverse play, play next/ and audio monitoring

Host Access Control: Control of allowed and denied access to the NVR

Auto Logoff: Automatic user logoff from idling configuration pages Online Users List: Logon status display of active users and logon history UPS: APC, CyberPower, MGE, YEC (USB)

Event Logs: Detailed event logs Languages Czech, Danish, Dutch, English, French, Finnish,

German, Hungarian, Italian, Japanese, Korean Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Simplified Chinese, Traditional Chinese, Turkish

(Suggested system requirements)

Network Interface: 10/100/1000 Mbps

Operation System: Microsoft Windows 7, Web Browser: Internet Explorer 6.0 or later

Y-CAM Y-Cam White, Y-Cam Black

▶ For the latest information of the supported IP cameras, please visit QNAP Security website: http://www.qnapsecurity.com/pro_compatibility_camera.asp

Yokogawa FC140W, FC155W

Display Resolution: · Suggested 1024 x 768 pixels or above * For higher surveillance performance, please select more advanced PC models.

(*1) Features may vary by model (*3) LCD-equipped models only

(*4) Dual LAN models only

IP Cameras Compatibility Liet

IP Cam	ieras Compatibility List	Comparison of	VioStor NVR S
Brand	Models		
AXIS	2100, 2110, 2130R, 206, 206W, 206W, 206W, 207, 207W, 207MW, 209FD(-R), 209MFD(-R), 210, 210A, 211A, 211, 211W, 211M, 212 PTZ(-V), 213 PTZ, 214 PTZ, 215 PTZ(-E), 216FD(-V), 216MFD-V, 221, 223M, 225FD, 231D+, 232D+, 233D, M1011(-W), M1031-W, M1054, M1104, M1113, M1114, M3011, M3014, M3113-R, M3203(-V), M3204(-V), P1341(-E), P1344(-E), P1346(-E), P3301(-V), P3343(-V)/E, P3344(-V)/E, P5532(-E), P5534(-E), Q1755, Q1910(-E), Q6032-E, 241S (Blade), 241SA, 241Q (Blade), 241QA, 243SA, 247S, M7001, Q7401, Q7404		o o
АСТІ	ACM-1011, ACM-1231, ACM-1232, ACM-1311, ACM-1432, ACM-1312, ACM-1311, ACM-1431, ACM-1431, ACM-1311, ACM-13	Product Photo	
A-MTK	AM9060M, AM9120M, AM9260M, AM9539, AM9730M, AM6221	NVR Model	VS-8148U-RP/8140U-RP/
Arecont Vision	AV1300, AV1310, AV1305, AV1315, AV1355, AV2100, AV2110, AV2105, AV2100, AV2110, AV2105, AV3100, AV3110, AV3100, AV3115, AV3155, AV3155, AV3155, AV5100, AV5110, AV5105, AV5115, AV5155, AV8180, AV8185, AV8380, AV8385, AV10005, AV10015		8132U-RP/8124U-RP Pro
AVTECH	AVI201, AVI202, AVI203, AVI204, AVI332, AVN211, AVN212, AVN224, AVN244, AVN252, AVN263	Max. number of supported IP	48/40/32/24
Brickcom	CB-100Ae, CB-100Ap, CB-101Ae, CB-101Ae, CB-101Ap, CB-102Ae, CB-102Ap, FB-100Ae, FB-100Ap, FB-130Ae, FB-130Ap, FD-100Ae, FD-130Ae, FD-130Ae, FD-130Ae, FD-130Ap, GOB-100Ap, MD-100Ap, MD-100Ap, OB-100Ae, OB-100Ap, OSD-040, PZ-040E, VD-100Ap, VD-130AP, VD-130Ae, VD-130Ap, VS-01Ap, WVS-01Ap, WVS-01Ap, WCB-100Ap, WCB-100AP, WCB-100Ap, WOB-100Ap, WOB-100Ap, WOB-100Ap, WOB-100Ap, WOB-100Ap, WCB-100Ap,	cameras/channels (recording)	
Canon	VB-C300(B), VB-C50i(R), VB-C50FSi, VB-C50Fi, VB-C500D, VB-C60, VBM-40	Video server support	Yes
Cisco	CIVS-IPC-2500(W), PVC-300, WVC-210, PVC-2300, WVC-2300	High-definition local display	Yes
CNB	IDC4000T, IDC4050, IDP4000VR, IDP4030VR, IGC2050, IGP1030, INS2000, IVC5055, IVP4000VR, IVP4030VR, ISMC1063X, IXC2050	Multi-server monitoring	Yes (up to 128 channels)
DIGITUS	DN18050, DN18051, DN18052, DN16055	Wala corver monitoring	
D-Link	DCS-900(A), DCS-900(B1/B2), DCS-910, DCS-920, DCS-1100, DCS-2120, DCS-2121, DCS-2121, DCS-3110, DCS-3220(G), DCS-3415, DCS-3420, DCS-5220, DCS-5300(G), DCS-5610, DCS-6110, DCS-6111, DCS-6620(G)	Video compression (IP camera)	H.264, MPEG-4, M-JPEG & MxPEG (depending on the camera models)
EDIMAX	IC-1510(WG), IC-3010(WG), IC-7000PT(N)	video compression (ii camera)	
ELMO	PTC-401C-IP, PTC-402C-IP, SN2230-IP2, SN2230-IPW, SN2232-IP, TD4112-IP, TD4114-IP2	Max. network throughput	360 Mbps
Etrovision	EV6130, EV6150A, EV6151A, EV6153A, EV6156A, EV6250A, EV6332, EV6356A, EV6530, EV6531A, EV6551A, EV6551A, EV6552A, EV8150A, EV8180U, EV8181A, EV8780F, EV3130A/EV3131A, EV3151(A), EV3830H	tested (1)	
GANZ	ZN-D2024, ZN-PT304L, ZN-PT304WL, ZN-YH305, ZV-S306	Megapixel recording	Yes (up to 10-megapixel)
Hikvision	DS-2CD732F-E, DS-2CD752MF-E, DS-2CD752MF-FB, DS-2CD762MF-FB, DS-2CD792PF-E, DS-2CD802PF-E, DS-2CD852MF-E, DS-2CD853F, DS-2CD892PF-E, DS-2CD892PF-E, DS-2CD7133, DS-2CD7133, DS-2CD7153, DS-6101HF-IP-A	Mogapixorrosoraling	(up to 10-megapixel)
Honeywell	HCD554IP, HD3MDIP, HD4DIP, HD4MDIP	Multi-view playback	16-view
iPUX	ICS-1001, ICS-1011, ICS-1003, ICS-1013, ICS-1110, ICS-1300, ICS-1310, ICS-1300, ICS-1310, ICS-1300, ICS-1700, ICS-6000		Motion detection, missing object, foreign object, out of focus, and camera occlusion
IPX	DDK-1500, DDK-1500D, DDK-1600D	Intelligent video analytics (IVA)	
IQinVision	IQeye Q040SI,		
LevelOne	FCS-0010, WCS-0020, WCS-0020, WCS-0020, FCS-0030, WCS-0030, FCS-1010, WCS-2010, FCS-1030, WCS-2030, FCS-1040, WCS-2040, FCS-1060, WCS-2060, FCS-1070, WCS-2070, FCS-1091, WCS-1091, FCS-3000, FCS-3021, FCS-5011, FCS-5030	Real-time digital watermarking	Yes
Linksys	PVC-2300, WVC-2300, PVC-300, WVC-200, WVC-210, WVC54GCA	Advanced event management	Yes
MESSOA	NCB855, NCR875, NDF820, NDR890, NDZ860, NIC835, NIC836, NIC910, NIC930, NIC950	Remote replication (2)	Yes
мовотіх	D12Di-IT, D12Di-Sec, D22M-Basic, D22M-IT, D22M-Sec, D24M-IT, D22M-Sec, M10D-Night, M12-DevKit-Board, M12D-IT-Dnight, M12D-Sec, M12M-IT, M12M-Sec, M12M-IT, M22M-Night, M22M-Sec, M24M-IT, M24M-Sec, M24M-IT	Nemote replication (2)	
NAKAYO	IPCAMDH IPCAMDH	Number of hard drive slots	8
ONVIF	ONVIF 1.0.2 - Axis, Bosch, EverFocus, Hunt, VIVOTEK cameras	Physical storage capacity (3)	24TB (8 x 3TB
Panasonic	BB-HCM511, 531, BB-HCM515, BB-HCM527, 547, BB-HCM500, 581, BB-HCM701, BB-HCM701, BB-HCM705, BB-HCM715, 735, BL-C1, BL-C10/ BL-C20, BL-C30(K1), BL-C101, BL-C111, BL-C131, BB-HCM100, BB-HCM110, BB-HCM311, BB-HCM		`
Panasonic i-Pro	NF282, NF284, NF302, NP1000, NP1004, NP240, NP244, NP304(V), NP472, NP502, NS202(A), NS950, NS954, NW484(S), NW960, NW964, SC385, SF334, SF335, SP102, SP304V, SP305	Hard drive interface	3.5-inch SATA, 2.5-inch SATA, SSD
Pelco	IMSO, NE20	RAID	RAID 0, 1, 5, 5+hot spare, 6,
Samsung	SNB-2000, SNB-3000, SND-1010, SND-3080N, SND-5080, SNP-3120, SNV-3080N, SNV-3120, SNV-5010, SPE-100	10 112	6+hot spare
SANYO	VCC-400N, VCC-N6684, VCC-N6695, VCC-9600(P), VCC-9800(P), VCC-HD2100(P), VCC-HD2500(P), VCC-HD2500(P), VCC-HD3300(P), VCC-HD3500, VDC-HD3500(P), VCC-HD4000(P), VCC-HD4000(P), VCC-HD400(P), VCC-HD400	Processor	Intel® Core™ i3 3.3GHz
SHANY	SNC-1010, SNC-1030DN, SNC-2150, speed dome camera, SNC-LM1040, SNC-MR1010DN, SNC-MR2110DN, SNC-WDM-2112DN	LCD panel	Yes
SONY	SNC-CH10, SNC-CH10, SNC-CH10, SNC-CH10, SNC-CH20, SNC-CH20, SNC-CH20, SNC-CH10, SNC-CH	Number of Gigabit LAN ports	2
TOA	N-CC2130, N-CC2200, N-CC2230, N-CC2360, N-CC2830, N-CC2561, N-CC2600, N-VT2010	Number of USB ports	2 x USB 3.0 4 x USB 2.0
TOSHIBA	CI8110-D, CI8210-D, IK-WB12, IK-WB16A, IK-WB20A, IK-WB70A, IK-WD01A, IK-WR12A	•	
TRENDnet	TV-IP212(W), TV-IP312(W), TV-IP410(W), TV-IP422(W)	Redundant power supply	Yes
Videosec	IP-206M, IP-206W, IBF-2611, IB-211, ID-209, IDA-210, IDA-211, IPT-213W, IPTA-215, IPTZ-214, IS-240	Hardware dimensions	88(H) x 439(W) x 520(D) mm
VIOSECURE	AC930M, AC3530HQIP, EV241X, VFD150HQIP	rial attain airinnioini	3.46(H) x 17.28(W) x 20.47(D) inch
VIVOTEK	FD6112V, FD6122V, IP6112, IP6122, IP6114, IP6124, IP6114, IP6124, IP6117, IP127, P26121, P26122, P26114, P26124, SD6122V, FD7130, FD7131, FD7132, FD7141(V), FD7160, IP7130, IP7131, IP7132, IP7134, IP7132, IP7137, IP7138, IP7134, IP7132, IP7134, IP7134, IP7134, IP7134, IP7135, IP7134, IP7135, IP7134, IP7135, IP7134, IP7135, IP7134, IP7135, IP7137, IP7135, IP7137, IP7138, IP7134, IP7135, IP7137, I	Gross weight	20.76 kg / 45.78 lb

Comparison of VioStor NVR Series

Based on QNAP's laboratory tests. Actual performance may vary depending on the network environment.

(3) The standard system is shipped without hard disk drives.

(2) Local network only.



24TB (8 x 3TB hard drives)



VS-8148/8140/8132/8124 Pro+ VS-6020/6016/6012 Pro

48/40/32/24

Yes (up to 128 channels)

H.264. MPEG-4.

M-JPEG & MxPEG

(depending on the camera models)

360 Mbps

Yes (up to 10-megapixel)

16-view

foreign object, out of focus, and

3.5-inch SATA, 2.5-inch SATA, SSD 3.5-inch SATA, SSD 3.5-inch SATA, SSD 3.5-inch SATA, 2.5-inch SATA, SSD

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

6+hot spare

Intel[®] Core™ i3 3.3GHz

217 5(H) x 327(W) x 321 2(D) mm

13.98 kg / 30.79 lb

8 56(H) x 12 8(W) x 12 65(D) inch



20/16/12

Yes (up to 128 channels)

H.264, MPEG-4.

M-JPEG & MxPEG

(depending on the camera models)

(up to 10-megapixel)

16-view

Motion detection, missing object,

foreign object, out of focus, and

18TB (6 x 3TB hard drives)

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

6+hot spare

Dual-core Intel[®] Atom™

5 x USB 2.0

175(H) x 257(W) x 235(D) mm

6.89(H) x 10.12(W) x 9.25(D) inch

6.5 kg / 14.33 lb





16/12/8

Yes (up to 128 channels)

H.264, MPEG-4.

M-JPEG & MxPEG

(depending on the camera models)

(up to 10-megapixel)

Motion detection, missing object,

foreign object, out of focus, and

camera occlusion

5+hot spare, 6

Dual-core Intel[®] Atom™

5 x USB 2.0

44(H) x 439(W) x 499(D) mm

1.73(H) x 16.97(W) x 19.65(D) inch

12.06 kg / 26.59 lb





VS-4016/4012/4008 Pro

16/12/8

Yes (up to 128 channels)

H.264, MPEG-4.

M-JPEG & MxPEG

(depending on the camera models)

(up to 10-megapixel)

16-view

Motion detection, missing object,

foreign object, out of focus, and

camera occlusion

3.5-inch SATA, 2.5-inch SATA, SSD 3.5-inch SATA, 2.5-inch SATA, SSD 3.5-inch SATA, 2.5-inch SATA, SSD

RAID 0, 1, 5,

Dual-core Intel[®] Atom™

5 x USB 2.0

177(H) x 180(W) x 235(D) mm

4.65 kg / 10.24 lb

6.97(H) x 7.09(W) x 9.25(D) inch

5+hot spare, 6

12TB (4 x 3TB hard drives)



12/8/4

Yes (up to 128 channels)

H.264. MPEG-4.

M-JPEG & MxPEG

(depending on the amera models)

176 Mbps

(up to 10-megapixel)

16-view

Motion detection, missing object,

foreign object, out of focus, and

camera occlusion

RAID 0, 1

Dual-core Intel® Atom™

5 x USB 2.0

150(H) x 102(W) x 216(D) mm

5.91(H) x 4.02(W) x 8.5(D) inch

2.92 kg / 6.44 lb



VS-2008L/2004L

Yes (up to 128 channels)

H.264, MPEG-4 & M-JPEG

(depending on the camera models)

28 Mbps

16-view

Motion detection, missing

focus, and camera occlusion

3.5-inch SATA

RAID 0, 1

Marvell 1.2 GHz

1

3 x USB 2.0

165 5 (H) x 85 (W) x 218 4 (D) mm

6.52 (H) x 3.35 (W) x 8.60(D) inch

1.9 kg / 4.19 lb

object, foreign object, out of

6TB (2 x 3TB hard drives)

VioStor Player

and connection.

The VioStor Player is an application for playing the video files recorded by the VioStor NVR on a Windows PC or by the web interface of the NVR. Use this application to add digital watermark on the video files and snapshots exported from the

QNAP Software Utilities

The QNAP Finder helps users find

cameras of popular brands on the

the VioStor NVR servers and the IP

local network for quick configuration

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Watermark Proof (Installed with VioStor Player)

Use this utility to detect unauthorized modification of the video files and snapshots with digital watermark exported from the NVR.



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.





Power Consumption

VS-6020/6016/6012 Pro

VS-8148/8140/8132/8124 Pro

VS-8148U/8140U/8132U/8124U-RP F

PC-based server solution

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

VS-2008L/2004L	13W	
VS-2012/2008/2004 Pro	25W	The same of the sa
VS-4016/4012/4008 Pro	35W	The Parket
VS-4016U/4012U/4008U-RP Pro	62W	







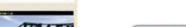
Industry Solutions

The VioStor NVR is ideal for secure IP video surveillance of different locations such as home, small offices, convenience stores, retail and healthcare outlets, banks, schools, and more.

drives of the VioStor NVR and the unit is attached to an existing network and can be configured and monitored from any PC on the local network or the Internet.

Surveillance videos of the IP cameras are recorded on the internal hard











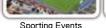






Fauna Conservation Area







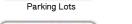


QNAP















vstem for IP Cameras