

VS-4108 Pro+

Hardware Spec.

Processor	Dual-core Intel® processor	
Memory	4GB RAM	
HDD Capacity	 4 x 3.5-inch SATA 6Gb/s, SATA 3Gb/s hard drive NOTE: 1. The standard system is shipped without HDD. 2. For the HDD compatibility list, please visit: http://www.qnapsecurity.com/pro_compatibility.asp 	
HDD Tray	4 x Hot-swappable and lockable tray	
LAN Port	2 x Gigabit RJ-45 Ethernet port	
LED Indicators	Status, LAN, USB, HDD1-4	
LED Indicators	2 x USB 3.0 port (Back: 2) 5 x USB 2.0 port (Front: 1; Back: 4) Support pen drive, USB mouse, USB keyboard, USB sound card, and USB UPS etc.	
Buttons	Power button, One-touch-auto-video-backup button, Reset button	
LCD Panel	Mono-LCD display with backlight Enter button, Select button for configuration	
Alarm Buzzer	System warning	
Audio	Audio In/Out (reserved)	
Form Factor	Tower	
Dimensions	185 (H) x 180 (W) x 235 (D) mm 7.28 (H) x7.09 (W) x 9.25 (D) inch	

Weight Net weight: 4.6 kg (10.14 lbs)

Gross weight: 5.9 kg (13.00 lbs)

Operation Temperature 0~40°C

Environment Humidity 0~95% R.H.

Power Supply Input: 100-240V AC, 50/60Hz, Output: 250W

Power Consumption In Operation: 62.7W

(with 6 x 2TB HDD installed)

Secure Design K-Lock security slot for theft prevention

Video Output 1x HDMI

Suggested video output resolution: 1920 x 1080 (Full HD)

Fan 1 x quiet cooling fan (92 mm, 12V DC)

Certification CE, FCC, VCCI, BSMI

Software Spec.

Recording

Supported Camera F

Please visit http://www.qnap.com/NVR/CompatibilityX01.html

Models

Number of Channels Up to 8

Supported

(Recording)

Recording Mode • Continuous/ manual/ schedule recording

•Alarm recording/ multiple alarm recording schedules

Buffer Storage for

•Pre-recording: Up to 300 sec

Alarm Images

●Post-recording: Up to 300 sec

(before and after

events)

Recording Up to 30 fps at 1080P,720P,VGA for each channel

Performance * Real performance may vary in different environment

Megapixel Supports megapixel cameras (up to 10-megapixel)

Recording

Network 250 Mbps

Throughput

File Format AVI (QNAP codec is required for playback)

Recording Real-time digital watermarking, auto snapshot

Enhancement

Application

Dewarping Support the specific fisheye IP Cameras and IP camera with panomorph lens on

remote monitoring/playback and local display interface

* Please visit http://www.qnapsecurity.com to get the compatibility list

Local Display

Display Mode 1, 4, 6, 8, 9, or 10-channel display mode, sequential display mode

Hardware Decode Full HD 1080P 180FPS

*The NVR will auto detect H.264 stream format and activate hardware decoder for

6 CH live view.

Local Monitoring Full screen display, event notification, PTZ control, digital zoom

Enhancement

Local Playback Single view playback from local NVR server

Search Mode for By date & time

Local Playback

Playback Control Play, pause, stop, reverse play, next/ previous video file, different speed control

Local Playback Full screen display, digital zoom

Enhancement

Export Convert multiple recording files to the external USB device instantly

System Quick configuration, administration password, network settings, time settings, disk

Administration volume configuration, camera settings

Remote Monitoring (Windows)

Display Mode 1, 4, 6, 8, 9, 10, 12, 16, 20, 25, 36,42 or 64-channel display, sequential mode,

multi-display mode

Video Compression H.264/ MPEG-4/ M-JPEG/ MxPEG (depending on the camera models)

Video Setting Resolution, quality, frame rate

Multi-server Up to 128-channel monitoring from multiple VioStor NVR servers (browser-based)

Monitoring

Monitoring Full screen display, video snapshot, manual recording, event notification, PTZ

Enhancement control, digital zoom

E-map Uploading the digital maps and indicating the locations of the IP cameras and GPI

devices of a monitoring location or region

Remote Playback (Windows)

Display Mode 1, 4, 6, 8, 9, 10, 12 or 16-channel display

Search Mode By date & time, timeline, event, and intelligent video analytics (IVA)

Intelligent Video Motion detection, missing object, foreign object, out of focus, and camera occlusion

analytics (IVA)

Playback Mode Play, pause, stop, reverse play, next/ previous frame, next/ previous video file,

different speed control

Playback Full screen display, video snapshot, digital zoom, digital watermarking

Enhancement

Export Convert recording files to one avi file

Download Download recordings via the web

QNAP Surveillance Client for Mac

Display Mode 1, 4, 6, 8, 9, 10, 12, or 16-channel display mode, sequential display mode

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

Enhancement

Playback Single view playback

Search Mode for By date & time

Playback

Playback Control Play, pause, stop, reverse play, next/ previous video file, different speed control

Playback Full screen display, digital zoom

Enhancement

Export Convert multiple recording files to Mac device instantly

Advanced Event Management

Events Motion detection, alarm input, connection failure, recording failure, and

user-defined event

Actions Video recording, email alert, SMS alert, buzzer, PTZ camera control, alarm output,

and user-defined action

Backup

Schedule Remote Schedule video data backup to a NAS on the local network

Replication

Security Control

Authority Different user groups and rights can be assigned to different users

Management

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

Control

Auto Logoff Automatic user logoff from idling configuration pages

Event Logs Detailed event logs

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

NVR

Digital Verify whether or not the videos and snapshots are original

Watermarking

Reliability

Operation System Linux-embedded system, free from PC crash and virus attack

Disk Management •Single disk, RAID 0, RAID 1, RAID 5, RAID 5+ hot spare, RAID 6, and

JBOD/Linear

•Online RAID Capacity Expansion, Online RAID Level Migration

•HDD S.M.A.R.T., bad blocks scan

UPS APC/ CyberPower/ MGE/ YEC (USB UPS)

Network Services

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

Services Web File Manager, FTP, SMB/CIFS

Language Support

Language Czech/ Danish/ Dutch/ English/ French/ Finnish/ German/ Hungarian/ Italian/

Japanese/ Korean/ Norwegian/ Polish/ Portuguese/ Russian/ Spanish/ Swedish/

Simplified Chinese/ Traditional Chinese/ Turkish

Remote Surveillance

Client PC Google Chrome, Internet Explorer, Mozilla Firefox

QNAP Surveillance Client for Windows

Mac QNAP Surveillance Client for Mac

Android Tablet, VMobile

phone

iPad, iPhone, iPod VMobile

Touch

Windows Mobile VMobile

(6.1, 6.5) Device

Client PC Requirement (Suggested system requirement for better video performance)

CPU M-JPEG format (up to 16 channels): Dual core CPU 2.4 GHz or above

MPEG-4/ H.264/MxPEG format (up to 16 channels): Quad core CPU 2.33 GHz or

above

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

Memory 2 GB or above

Operation System Microsoft Windows Vista/ 7/ 8 or Mac OS X 10.7.x, 10.8.x

Web Browser Microsoft Internet Explorer 8/9/10 (Windows PC, desktop mode, 32-bit)

Google Chrome 23.0.1271.64 m (Windows PC)

Mozilla Firefox 17.0.1 (Windows PC)

Network Interface 10/100/1000 Mbps

Display Resolution 1280 x 720 pixels or above

Utility Software

QNAP Finder The client application to discovery and quick setup of the VioStor NVR

QNAP Surveillance The client application used to remotely access QNAP NVR servers for performing

Client For Windows video monitoring and playback functions on client PC.

QNAP Surveillance The client application used to remotely access QNAP NVR servers for performing

Client For Mac video monitoring and playback functions on Mac.

QNAP Codec The video codec to play the recording files on Windows Media Player.

VMobile The Mobile App to monitor the network cameras on the VioStor NVR by the Android

phone, Android tablet, iPhone, iPad, iPod touch, and Windows mobile (6.1, 6.5)

device