

VS-2108 Pro+

Hardware Spec.

Processor	Dual-core Intel® processor
Memory	4GB RAM
HDD Capacity	 2 x 3.5-inch SATA 6Gb/s, SATA 3Gb/s hard drive NOTE: The standard system is shipped without HDD. For the HDD compatibility list, please visithttp://www.qnapsecurity.com/pro_compatibility.asp
HDD Tray	2 x hot-swappable and lockable tray
LAN Port	2 x Gigabit RJ-45 Ethernet port
LED Indicators	LAN, HDD1, HDD2, Status, USB, Power
USB	1 x USB 3.0 port (Front: 1) 4 x USB 2.0 port (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
Alarm Buzzer	System warning
Audio	Audio In/Out (reserved)
Form Factor	Tower
Dimensions	154 (H) x 102 (W) x 218.3 (D) mm 6.06 (H) x4.02 (W) x 8.59 (D) inch
Weight	Net weight: 2.5 kg (5.51 lbs) Gross weight: 3.68 kg (8.05 lbs)
Operation	Temperature 0~40°C

Environment Humidity 0~95% R.H.

Power Supply Input: 100-240V AC, 50/60Hz, Output: 90W

Power In Operation: 39.3W

Consumption (with 2 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 (70 mm, 12V DC)

Certification CE, FCC, VCCI, BSMI

Software Spec.

Recording

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

Models

Number of Channels Up to 8

Supported

(Recording)

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

Video Setting Resolution, quality, frame rate, audio

Recording Mode • Continuous/ manual/ schedule recording

•Alarm recording/ multiple alarm recording schedules

Auto snapshot

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 180 Mbps

Throughput

File Format AVI (QNAP codec is required for playback)

Recording Real-time digital watermarking, auto snapshot

Enhancement Enhancement	Real-time digital watermarking, auto snapsnot	
Application		
Dewarping	Support the specific fisheye IP Cameras on remote monitoring/playback and local display interface	
	* Please visit http://www.qnapsecurity.com to get the compatibility list	
360° Panomorph	Support the specific IP camera with panomorph lens on remote	
Video	monitoring/playback and local display interface	
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	

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
Dual-display mode	Up to 2 monitors
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 multiple recording files to client PC instantly

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 Replication	Schedule video data backup to a NAS on the local network
	Security Control
Authority Management	Different user groups and rights can be assigned to different users
Host Access Control	Specify the connections to be allowed and denied to access the VioStor NVR
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 Watermarking	Verify whether or not the videos and snapshots are original
	Reliability
Operation System	Linux-embedded system, free from PC crash and virus attack
Disk Management	 Single disk, RAID 0, RAID 1, 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, HTTPS, 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

Support	HTTP, HTTPS, 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 12 channels): Intel Pentium 4 CPU, 3.0GHz or above

MPEG-4/ H.264/MxPEG format (up to 12 channels): Dual core CPU, 2.8GHz 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 24.0.1312.57 m (Windows PC)

Mozilla Firefox 18.0.2 (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.