

VS-4108U-RP Pro+

Hardware Spec.

Hardware Spec.	
Processor	Dual-core Intel® processor
Memory	4GB RAM
HDD Capacity	4x 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 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	USB, Status, HDD1-4, LAN
USB	2 x USB 3.0 port (Back: 2)
	3x USB 2.0 port (Front: 1; Back: 2)
	Support 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)
Series Interface	RS-232 interface *1(reserved) , RS-485*1 interface (reserved)
Alarm In	Alarm In *8 (reserved)
Alarm Out	Alarm Out*2(reserved)
Video Output	1x HDMI
	Suggested video output resolution: 1920 x 1080 (Full HD)
Form Factor	1U rackmount
Dimensions	44(H) x 439(W) x 499(D) mm
	1.73(H) x 16.97(W) x 19.65(D) inch

Weight Net weight: 7.63 kg/ 16.82 lb

Gross weight: 12.1 kg/ 26.68 lb

Power Consumption 80W (with 4 x 2TB HDD installed)

Operation Environment Temperature 0~40°C

Humidity 0~95% R.H.

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

Fan

Certification $\mathsf{CE},\,\mathsf{FCC},\,\mathsf{VCCI},\,\mathsf{BSMI}$

 $\label{lem:decomposition} \mbox{Design and specifications are subject to change without notice.}$

Software Spec.	
	Recording
Supported Camera Models	Please visit http://www.qnap.com/NVR/CompatibilityX01.html
Number of Channels Supported	Up to 8
(Recording)	
Video Compression	H.264/ MPEG-4/ M-JPEG/ MxPEG (depending on the camera models)
Video Setting	Video compression, resolution, quality, frame rate, audio
Recording Mode	Continuous/ manual/ schedule recording
	Alarm recording/ multiple alarm recording schedules
	· Auto snapshot
Buffer Storage for Alarm Images	• Pre-recording: Up to 300 sec
(before and after events)	• Post-recording: Up to 300 sec
Recording Performance	Up to 30 fps at 1080P, 720P, VGA for each channel
	* Real performance may vary in different environment
Megapixel Recording	Supports megapixel cameras (up to 10-megapixel)
Network Throughput	250 Mbps
File Format	AVI (QNAP codec is required for playback)
Recording Enhancement	Real-time digital watermarking
	Application

Application			
Fisheye Dewarping	Support the specific fisheye IP Cameras on remote monitoring/playback and		
	local display interface		
	* Please visithttp://www.qnap.com/NVR/CompatibilityX01.html to get the		
	compatibility list		

360° Panomorph Video	Support the specific IP camera with panomorph lens on remote

monitoring/playback and local display interface (certified by ImmerVision

Enables)

	Enables)	
	Local Display	
Display Mode	1, 4, 6, 8, 9, 10, 12 or 16-channel display mode, sequential display mode	
	(depends on NVR model)	
Hardware Decode	Full HD 1080P 200FPS	
	*The NVR will auto detect H.264 stream format and activate hardware decoder for 8 CH live view.	
Land Maritarian Enhancement		
Local Monitoring Enhancement	Full screen display, event notification, PTZ control, digital zoom	
Local Playback	Single view playback from local NVR server	
Search Mode for Local Playback	By date & time	
Playback Control	Play, pause, stop, reverse play, next/ previous video file, different speed control	
Local Playback Enhancement	Full screen display, digital zoom	
Export	Convert multiple recording files to the external USB device instantly	
System Administration	Quick configuration, administration password, network settings, time settings,	
	disk 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 Monitoring	Up to 128-channel monitoring from multiple VioStor NVR servers	
	(Browser-based)	
Monitoring Enhancement	Full screen display, video snapshot, manual recording, event notification, PTZ	
	control, digital zoom	
E-map	Uploading the digital maps and indicating the locations of the IP cameras 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 Analytics (IVA)	Motion detection, missing object, foreign object, out of focus, and camera	
	occlusion	
Playback Mode	Play, pause, stop, reverse play, next/ previous frame, next/ previous video file,	

different speed control

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

Export Convert multiple recording files to client PC instantly

Download Download recordings via the web

ONAP	Surveillance	Client	for Mac

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

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

Playback Single view playback

Search Mode for Playback By date & time

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

Playback Enhancement Full screen display, digital zoom

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

 $Video\ Backup\ to\ External\ USB\ Storage\ \ Press\ and\ hold\ the\ one-touch-auto-video-backup\ button\ for\ 3\ seconds.\ The$

by One-Touch-Auto-Video-Backup recording data on VioStor will be copied to the external USB device instantly.

Button

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, RAID 5, RAID 5+ hot spare, RAID 6, and

JBOD/Linear

 \cdot Online RAID Capacity Expansion, Online RAID Level Migration

· HDD S.M.A.R.T., bad blocks scan

UPS APC/ CyberPower/ Epson/ 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

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 (Browser-based)

QNAP Surveillance Client for Windows

Mac QNAP Surveillance Client for Mac

Android Tablet, phone VMobile

iPad, iPhone, iPod Touch VMobile

Windows Mobile (6.1, 6.5) Device VMobile

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

CPU $$\cdot$$ M-JPEG format (up to 8 channels):

Dual core CPU 2.4 GHz or above

 \cdot MPEG-4/ H.264/MxPEG format (up to 8 channels):

Quad core CPU 2.33 GHz or above

 $\ ^*$ * For higher surveillance performance, please select more advanced PC

models.

Memory 4 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 800 pixels or higher for better user experience

Utility Software		
QNAP Finder	The client application to discovery and quick setup of the VioStor NVR	
QNAP Surveillance Client For Windows	The client application used to remotely access QNAP NVR servers for performing	
	video monitoring and playback functions on client PC.	
QNAP Surveillance Client For Mac	The client application used to remotely access QNAP NVR servers for performing	
	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.	