



VS-8140 Pro+

Hardware Spec.

Processor	Intel® Core™ i3-2120 processor
HDD Capacity	8 x 3.5-inch SATA 6Gb/s, SATA 3Gb/s hard drive
	NOTE:
	<ol style="list-style-type: none"> 1. The system is shipped without HDD. 2. For the HDD compatibility list, please visit here
HDD Tray	8 x hot-swappable and lockable tray
LAN Port	2 x Gigabit RJ-45 Ethernet port
LED Indicators	Status, LAN, USB, hard drive LEDs
USB	2 x USB 3.0 (front:1; back:1) 4 x USB 2.0 (rear:4) Front: for USB storage device (One touch auto video backup) Rear: for UPS device
Buttons	System: 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
Form Factor	Tower
Dimensions	217.5(H) x 327(W) x 321.2(D) mm 8.56(H) x 12.8(W) x 12.65(D) inch
Weight	Net weight: 8.39 kg (18.48 lb) Gross weight: 13.98 kg (30.79 lb)
Operation Environment	Temperature 0~40°C/ 32~104°F Humidity 0~90% R.H.

Power Supply	Input: 100-240V AC, 50/60Hz, Output: 350W
Power Consumption	101W Write/Read (with 8 x 1TB HDD installed)
Secure Design	K-Lock security slot for theft prevention
Video Output	1x HDMI 1x VGA
Fan	2 x 12cm smart cooling fan
Certification	CE, FCC, VCCI, BSMI, C-Tick

Software Spec.

Recording	
Supported Camera Models	Please visit http://www.qnapsecurity.com/pro_compatibility_camera.asp
Number of Channels	Up to 40
Supported (Recording)	
Recording Mode	<ul style="list-style-type: none"> • Continuous/ manual/ schedule recording • Alarm recording/ multiple alarm recording schedules
Buffer Storage for Alarm Images (before and after events)	<ul style="list-style-type: none"> • Pre-recording: Up to 300 sec • Post-recording: Up to 300 sec
Recording Performance	Up to 30 fps at H.264, 720P for each channel * Real performance may vary in different environment
Megapixel Recording	Supports megapixel cameras (up to 10-megapixel)
Network Throughput	400 Mbps
File Format	AVI (QNAP codec is required for playback)
Recording Enhancement	Real-time digital watermarking, auto snapshot
Local Display	
Display Mode	1, 4, 6, 8, 9, 10, 12, or 16-channel display mode, sequential display mode
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

Display Mode	1, 4, 6, 8, 9, 10, 12, 16, 20, 25, 36, or 42-channel display, Picture-in-Picture, 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 Monitoring	Up to 128-channel monitoring from multiple VioStor NVR servers
Monitoring Enhancement	Full screen display, video snapshot, manual recording, event notification, PTZ control, digital zoom
Dynamic 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

Playback Channel	Max 16-view playback from multiple NVR servers simultaneously
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
Display Mode	Single playback view, 4 playback views, 9 playback views, 16 playback views
Playback Enhancement	Full screen display, video snapshot, digital zoom, digital watermarking

Export Convert recording files to one avi file

Download Download recordings via the web

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

Replication

Video Backup to External USB Storage by One touch auto video backup Button Press and hold the one touch auto video backup button for 3 seconds. The recording data on VioStor will be copied to the external USB device instantly.

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, RAID 6+ hot spare, 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
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Client PC Requirement (Suggested system requirement for better video performance)

CPU	<ul style="list-style-type: none">• M-JPEG format (up to 40 channels):Quad core CPU 2.33GHz or above• MPEG-4/ H.264/ MxPEG format (up to 40 channels):Core i7 CPU 2.8GHz or above <p>* For higher surveillance performance, please select more advanced PC models. * For higher surveillance performance, please select more advanced PC models.</p>
Memory	2 GB or above
Operation System	Microsoft Windows XP/ Vista/ 7
Web Browser	Internet Explorer 6.0 or above
Network Interface	10/100/1000 Mbps
View Resolution	1024 x 768 pixels or above

Utility Software

QNAP Finder	Discovery and quick setup of the VioStor NVR
VioStor Player	Play the recording files on your Windows computer easily
Watermark Proof	Check if the exported videos and snapshots were modified
VMobile	Monitor the network cameras on the VioStor NVR by the Android phone, Android Tablet, iPhone, iPad, iPod touch, and Windows phone (6.1-6.5)