



VS-8148 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 Supported (Recording)	Up to 48
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	Full screen display, event notification, PTZ control, digital zoom

Enhancement

Local Playback Single view playback from local NVR server

Search Mode for Local By date & time

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,

Administration 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 Up to 128-channel monitoring from multiple VioStor NVR servers

Monitoring

Monitoring 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	Full screen display, video snapshot, digital zoom, digital watermarking
Enhancement	
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
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	<ul style="list-style-type: none"> • 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

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

CPU

- M-JPEG format (up to 48 channels):Quad core CPU 2.33GHz or above
- MPEG-4/ H.264/ MxPEG format (up to 48 channels):Core i7 CPU 2.8GHz or above

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

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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)