



VS-8148U-RP Pro

Hardware Spec.

Processor	Processor Dual Core Intel® Core™ i3-2120 Processor 3.3 GHz
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	10 GbE(reserved), Status, LAN, eSATA(reserved), hard drives
USB	2 x USB 3.0 port (rear) 4 x USB 2.0 port (rear) Support USB pen drive, USB hub, and USB UPS etc.
Buttons	System: Power button, reset button
LCD Panel	Mono-LCD display with backlight Enter button, Select button for configuration
Alarm Buzzer	System warning
Form Factor	2U, Rackmount
Dimensions	88(H) x 439(W) x 520(D) mm 3.46(H) x 17.28(W) x 20.47(D) inch
Weight	Net weight: 12.52 kg (27.61 lb) Gross weight: 23.42 kg (51.63 lb)
Operation Environment	Temperature 0~40°C/ 32~104°F Humidity 0~90% R.H.
Power Supply	Input: 100-240V AC, 47-63Hz, Output: 300W

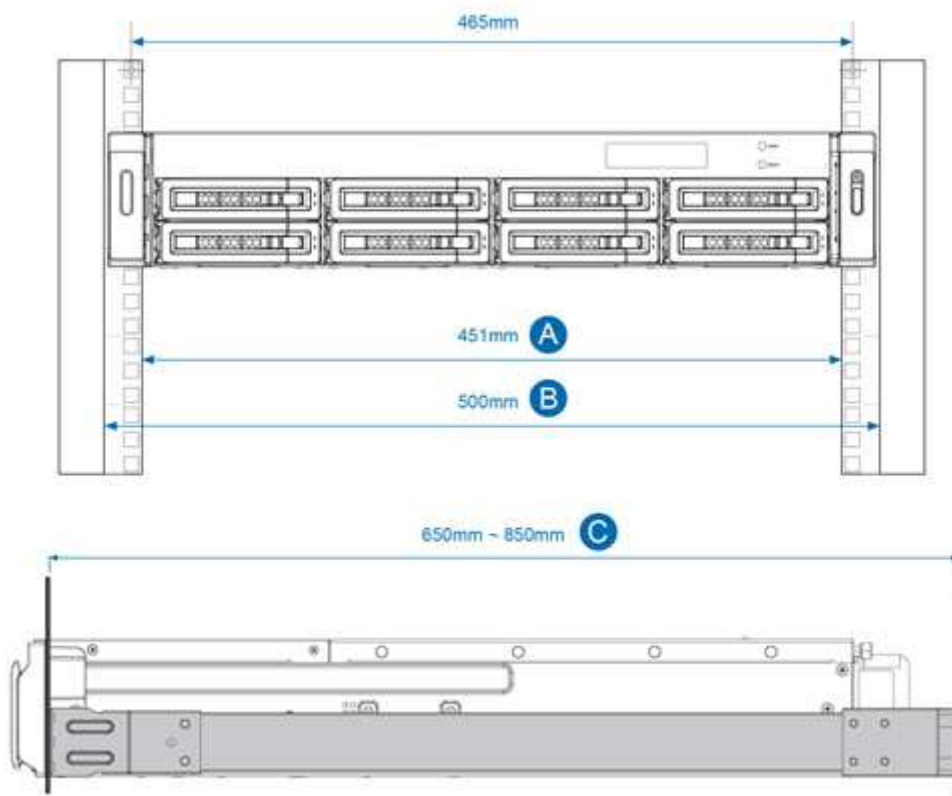
Power Consumption	130W Write/Read (with 8 x 1TB HDD installed)
Expansion Slot	2 (reserved for network and storage expansion)
Video Output	1x VGA
Fan	3 x 6 cm smart cooling fan
Certification	CE, FCC, VCCI, BSMI, LVD

Remark:

The VS-8100U-RP Pro rack mount series comply with ANSI/EIA-RS-310-D rack mounting standards. Before purchasing the server racks for these models, please make sure the server racks conform to the following

criteria:

1. Rack size
 - A. Mounting post width: $\geq 451\text{mm}$
 - B . Panel width: $\geq 500\text{mm}$
 - C. Mounting post depth: $650\text{mm}\sim 850\text{mm}$



2. The rack kits for the VS-8100U-RP Pro rack mount series are only compatible with square-hole server racks.



Software Spec.

Recording

Supported Camera Models Please visit http://www.qnapsecurity.com/pro_compatibility_camera.asp

Models

Number of Channels Up to 48

Supported (Recording)

Recording Mode

- Continuous/ manual/ schedule recording
- Alarm recording/ multiple alarm recording schedules

Buffer Storage for Alarm Images (before and after events)

- 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 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, 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.

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

Display 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)