

VS-8148U-RP Pro+

Hardware Spec.

Processor	Dual Core Intel® Core™ i3 3.3GHz Processor
DRAM	4GB DDR3 RAM
HDD Capacity	8 x 3.5" SATA 6Gb/s, SATA 3Gb/s hard drive NOTE: 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	4 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 HDMI 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

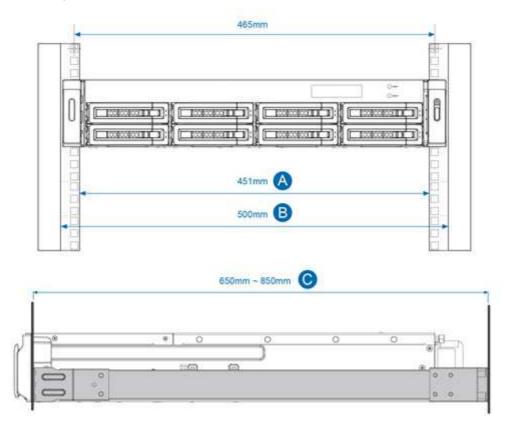
criteria:

1. Rack size

A. Mounting post width: ≥ 451mm

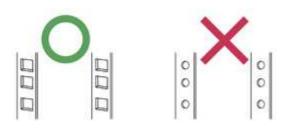
B . Panel width: ≥ 500mm

C. Mounting post depth: 650mm~850mm



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

racks.



Software Spec.

Recording

Supported Camera

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

Models

Number of Channels Up to 48

Supported

(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

• 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 Recording Supports megapixel cameras (up to 10-megapixel)

Network Throughput 400 Mbps

File Format

AVI (QNAP codec is required for playback)

Recording

Real-time digital watermarking

Enhancement

Application

Fisheye Dewarping

Support the specific fisheye IP Cameras on remote monitoring/playback and

local display interface

* Please visit http://www.qnap.com/NVR/CompatibilityX01.html 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	Disp	lav
Local	Disp	ıa y

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

Hardware Decode Full HD 1080P 300FPS

*The NVR will auto detect H.264 stream format and activate hardware decoder for

12 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

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 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

analytics (IVA) occlusion

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

Schedule video data backup to a NAS on the local network

Replication

Security Control

Authority Different user groups and rights can be assigned to different users

Management

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

Multiple 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, VMobile

phone

iPad, iPhone, iPod

Touch

Windows Mobile (6.1, VMobile

6.5) Device

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

CPU · M-JPEG format (up to 48 channels):

VMobile

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 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 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.