

VS-12148U-RP Pro+

Hardware Spec.

Processor	Quad Core Intel® Core™ i5 3.7GHz Processor
DRAM	8GB DDR3 RAM
HDD Capacity	 12 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	12 x hot-swappable and lockable tray
LAN Port	4 x Gigabit RJ-45 Ethernet port
LED Indicators	Status, 10 GbE, LAN, eSATA, hard drives *10 GbE (reserved), eSATA (reserved)
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
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: 15.88 kg (35.01 lb) Gross weight: 25.60 kg (56.44 lb)
Operation Environment	Temperature 0~40°C/ 32~104°F Humidity 0~90% R.H.
Power Supply	Input: 100-240V AC, 50/60Hz, Output: 600W

Power Consumption	167W Write/Read (with 12 x 2TB 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:

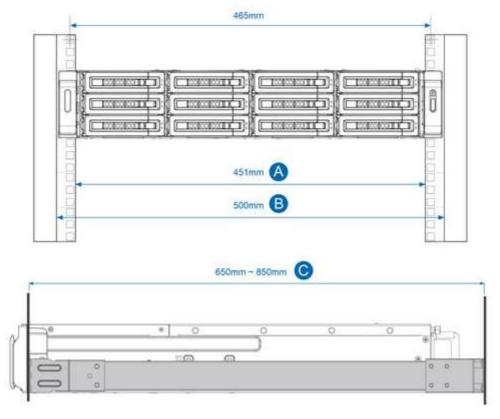
The VS-12100U-RP Pro+ rack mount series comply with ANSI/EIA-RS-310-D rack mounting standards. Before purchasing the server racks for these models, please make sure the server racks conform to the following criteria:

1. Rack size

A. Mounting post width: ≥ 451mm

B . Panel width: \geq 500mm

C. Mounting post depth: 650mm~850mm



2. The rack kits for the VS-12100U-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 Up to 48

Channels Supported

(Recording)

Video H.264/ MPEG-4/ M-JPEG/ MxPEG (depending on the camera models)

Compression

Video Setting Video compression, resolution, quality, frame rate, audio

Recording Mode · Continuous/ schedule/ manual recording

· Alarm recording by multiple events

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 Supports megapixel cameras (up to 10-megapixel)

Recording

Network 450 Mbps

Throughput

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 Video	Support the specific IP camera with panomorph lens on remote monitoring/playback and local display interface		
Local Display			
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 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

and GPI devices 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
	QNAP 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

Video recording, email alert, SMS alert, buzzer, PTZ camera control,

alarm output, and user-defined action

Actions

	Dashuus
	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 \ensuremath{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/ Epson/ MGE/ YEC (USB UPS)
	APC/ CyberPower/ Epson/ MGE/ YEC (USB UPS) Network Services
Support	
	Network Services HTTP, TCP/IP, SMTP, DHCP, Static IP, DNS, DDNS, FTP, NTP, UPnP,
Support Multiple Gigabit	Network Services HTTP, TCP/IP, SMTP, DHCP, Static IP, DNS, DDNS, FTP, NTP, UPnP, failover, load-balancing, multi-IP setting
Support Multiple Gigabit LAN	Network Services HTTP, TCP/IP, SMTP, DHCP, Static IP, DNS, DDNS, FTP, NTP, UPnP, failover, load-balancing, multi-IP setting Failover/ load-balancing/ multi-IP setting
Support Multiple Gigabit LAN	Network Services HTTP, TCP/IP, SMTP, DHCP, Static IP, DNS, DDNS, FTP, NTP, UPnP, failover, load-balancing, multi-IP setting Failover/ load-balancing/ multi-IP setting Web File Manager, FTP, SMB/CIFS

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 VMobile

Touch

Windows Mobile VMobile

(6.1, 6.5) Device

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 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		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
	Client For	performing video monitoring and playback functions on client PC.
	Windows	
	QNAP Surveillance	The client application used to remotely access QNAP NVR servers for
	Client For Mac	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.