UioStor NVR Network Video Recorder VS-12164U-RP Pro Network Surveillance System for IP Enterprise QNAP Network Video Recorder for IP Cameras



QNAP Network Video Recorder for IP Can

VS-12164U-RP Pro

Hardware Spec.

Processor	Quad Core Intel [®] Xeon [®] Processor E3
HDD Capacity	 12 x 3.5-inch 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 (back:2) 4 x USB 2.0 (back:4) *Exporting recording file in playback by USB3.0 ports only.
Buttons	System: Power button, reset button
Alarm Buzzer	System warning
Form Factor	2U, Rack mountable
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)

Video Output

1x VGA

Fan

3 x 6cm smart cooling fan

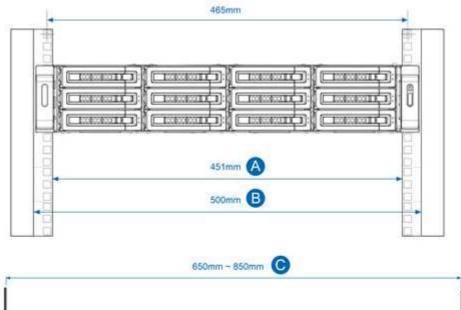
Certification CE, FCC, VCCI, BSMI, C-Tick

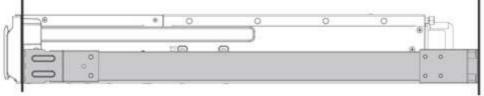
Design and specifications are subject to change without notice.

Remark:

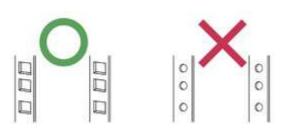
The VS-12100U-RP Pro rack mount series comply with ANSI/EIA-RS-310-D rack mounting standards. Before purchasing the server racks for these models, please make sure the server racks conform to the following criteria:

- 1. Rack size
- A. Mounting post width: \geq 451mm
- B . Panel width: ≥ 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	
Models	http://www.qnapsecurity.com	
Number of Channels	Up to 64	
Supported (Recording)		
Recording Mode	•Continuous/ manual/ schedule recording	
	 Alarm recording/ multiple alarm recording schedules 	
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 H.264, 720P for each channel	
Performance	* Real performance may vary in different environment	
Megapixel Recording	Supports megapixel cameras (up to 10-megapixel)	
Network Throughput	450 Mbps	
File Format	AVI (QNAP codec is required for playback)	
Recording	Real-time digital watermarking, auto snapshot	
Enhancement		
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 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	Full screen display, video snapshot, manual recording, event notification, PTZ	
Enhancement	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
	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
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Digital Watermarking Operation System	
	Reliability
Operation System	Reliability Linux-embedded system, free from PC crash and virus attack •Single disk, RAID 0, RAID 1, RAID 5, RAID 5+ hot spare, RAID 6, RAID 6+ hot spare, and JBOD/Linear
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Operation System Disk Management	Reliability Linux-embedded system, free from PC crash and virus attack •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
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Operation System Disk Management	Reliability Linux-embedded system, free from PC crash and virus attack •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 APC/ CyberPower/ MGE (USB UPS) Network Services HTTP, TCP/IP, SMTP, DHCP, Static IP, DNS, DDNS, FTP, NTP, UPnP,
Operation System Disk Management UPS Support	Reliability Linux-embedded system, free from PC crash and virus attack •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 APC/ CyberPower/ MGE (USB UPS) Network Services HTTP, TCP/IP, SMTP, DHCP, Static IP, DNS, DDNS, FTP, NTP, UPnP, failover, load-balancing, multi-IP setting
Operation System Disk Management UPS Support Dual Gigabit LAN	Reliability Linux-embedded system, free from PC crash and virus attack •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 APC/ CyberPower/ MGE (USB UPS) 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

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 42 channels):	
	Quad core CPU 2.33GHz or above	
	•MPEG-4/ H.264/ MxPEG format (up to 42 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)	