



## VS-2104L

## Hardware Spec.

CPU	Marvell 1.6GHz
DRAM	512MB DDRIII RAM
Flash Memory	512MB
Hard Disk Drive	<ol> <li>2 x 3.5" SATA I/II hard disk drive (HDD)</li> <li>NOTE:</li> <li>1. The system is shipped without hard disk drives.</li> <li>2. For the HDD compatibility list, please visit<u>http://www.qnap.com/pro_compatibility.asp</u></li> </ol>
LAN Port	1 x Gigabit RJ-45 Ethernet port
LED Indicators	USB, Status, HDD1, HDD2, LAN, Power
USB	1 x USB 2.0 port (front: 1) 2 x USB 3.0 port (back: 2) Support USB mouse, USB keyboard, USB sound card, and USB UPS etc.
Buttons	System: Power button, one-touch-auto-video-backup button, reset button
Alarm Buzzer	System warning
Form Factor	Portable
Dimensions	165.5 (H) x 85 (W) x 218.4 (D) mm 6.52 (H) x 3.35 (W) x 8.60 (D) inch
Weight	Net weight: 0.91 kg/ 2.01 lb Gross weight: 1.9 kg/ 4.19 lb
Power Consumption (W)	In operation: 13W (with 2 x 500GB HDD installed)
Temperature	0-40°C
Humidity	0-95% R.H.
Power	External Power Adapter, 60W, 100-240V

Secure Design K-lock security slot for theft prevention

Fan 1 x quiet cooling fan (6cm, 12V DC)

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## Software Spec.

Recording		
Supported Camera Models	Please visit	
	http://www.gnap.com/NVR/CompatibilityX01.html	
Number of Channels	Up to 4	
Supported (Recording)		
Video Compression	H.264/ MPEG-4/ M-JPEG (depending on the camera models)	
Video Setting	Video compression, resolution, quality, frame rate, audio	
Recording Mode	Continuous/ schedule/ manual recording	
	Alarm recording by multiple events	
	•Smart recording (depending on the camera models)	
	Auto snapshot	
Buffer Storage for Alarm	Pre-recording: Up to 300 sec	
Images	Post-recording: Up to 300 sec	
(before and after events)		
Recording Performance	Up to 30 fps at HD/megapixel for each channel	
	* Real performance may vary in different environment	
Network Throughput	40 Mbps	
File Format	AVI (QNAP codec is required for playback)	
Recording Enhancement	Real-time digital watermarking	
Application		
Fisheye Dewarping	Support the specific fisheye IP Cameras on remote monitoring/playback	
	* Please visit <a href="http://www.qnap.com/NVR/CompatibilityX01.html">http://www.qnap.com/NVR/CompatibilityX01.html</a> to get the compatibility list	
360° Panomorph Video	Support the specific IP camera with panomorph lens on remote monitoring/playback.	
	Remote Monitoring (Windows)	
Display Mode	1, 4, 6, 8, 9, 10, 12, 16, 20, 25, 36, 42, 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	Motion detection, missing object, foreign object, out of focus, and camera occlusion	
(IVA)		
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	
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 and JBOD/Linear	
	•HDD S.M.A.R.T., bad blocks scan	
UPS	Please visit	
	http://www.qnapsecurity.com/pro_compatibility_ups.asp	
	Network Services	
Support	HTTP, HTTPS, TCP/IP, SMTP, DHCP, Static IP, DNS, DDNS, FTP, NTP, UPnP	
Services	FTP, SMB/CIFS	
	Language Support	
Language	Czech/ Danish/ Dutch/ English/ Farsi/ 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	
Мас	QNAP Surveillance Client for Mac	
Android Tablet, phone	VMobile	
iPad, iPhone, iPod Touch	VMobile	
Windows Mobile (6.1, 6.5)	VMobile	
Device		
Client PC Requirement (Suggested system requirement for better video performance)		

	Pentium 4 CPU 2.8 GHz or above
	•MPEG-4/ H.264/ MxPEG format (up to 8 channels):
	Dual core CPU 2.4 GHz or above
	* * For higher surveillance performance, please select more advanced PC models.
Memory	2 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 30.0.1599.69 m (Windows PC)
	Mozilla Firefox 24.0 (Windows PC)
Network Interface	10/100/1000 Mbps
Display Resolution	1280 x 720 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 Client For	The client application used to remotely access QNAP NVR servers for performing video monitoring and
Windows	playback functions on client PC.
QNAP Surveillance Client For	The client application used to remotely access QNAP NVR servers for performing video monitoring and
QNAP Surveillance Client For Mac	The client application used to remotely access QNAP NVR servers for performing video monitoring and playback functions on Mac.
Мас	playback functions on Mac.

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