

VS-2104 Pro+

Hardware Spec.

Processor	Dual-core Intel® processor	
Memory	4GB RAM	
HDD Capacity	 2 x 3.5-inch SATA 6Gb/s, SATA 3Gb/s hard drive NOTE: 1. The standard system is shipped without HDD. 2. For the HDD compatibility list, please visit<u>http://www.qnapsecurity.com/pro_compatibility.asp</u> 	
HDD Tray	2 x hot-swappable and lockable tray	
LAN Port	2 x Gigabit RJ-45 Ethernet port	
LED Indicators	LAN, HDD1, HDD2, Status, USB, Power	
USB	1 x USB 3.0 port (Front: 1) 4 x USB 2.0 port (Back: 4) Support pen drive, USB mouse, USB keyboard, USB sound card, and USB UPS etc.	
Buttons	Power button, One-touch-auto-video-backup button, Reset button	
Alarm Buzzer	System warning	
Audio	Audio In/Out (reserved)	
Form Factor	Tower	
Dimensions	154 (H) x 102 (W) x 218.3 (D) mm 6.06 (H) x4.02 (W) x 8.59 (D) inch	
Weight	Net weight: 2.5 kg (5.51 lbs) Gross weight: 3.68 kg (8.05 lbs)	
Operation	Temperature 0~40°C	

Environment	Humidity 0~95% R.H.
Power Supply	Input: 100-240V AC, 50/60Hz, Output: 90W
Power	In Operation: 39.3W
Consumption	(with 2 x 2TB HDD installed)
Secure Design	K-Lock security slot for theft prevention
Video Output	1x HDMI
	Suggested video output resolution: 1920 x 1080 (Full HD)
Fan	1 x quiet cooling fan (70 mm, 12V DC)
Certification	CE, FCC, VCCI, BSMI

Software Spec.

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	Recording
Supported Camera	Please visit http://www.qnap.com/NVR/CompatibilityX01.html
Models	
Number of Channels	Up to 4
Supported	
(Recording)	
Video Compression	H.264/ MPEG-4/ M-JPEG/ MxPEG (depending on the camera models)
Video Setting	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	Supports megapixel cameras (up to 10-megapixel)
Recording	
Network	180 Mbps
Throughput	

File Format	AVI (QNAP codec is required for playback)
Recording	Real-time digital watermarking, auto snapshot
Enhancement	
	Application
Dewarping	Support the specific fisheye IP Cameras on remote monitoring/playback and loca
	display interface
	* Please visit http://www.qnapsecurity.com 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 Display
Display Mode	1, 4, or 6-channel display mode, sequential display mode
Hardware Decode	Full HD 1080P 180FPS
	*The NVR will auto detect H.264 stream format and activate hardware decoder for
	6 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, dis
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 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	Full screen display, event notification, PTZ control, digital zoom
Enhancement	
Playback	Single view playback
Search Mode for	By date & time
Search Mode for Playback	
Playback Playback Control Playback	By date & time
Playback Playback Control	By date & time Play, pause, stop, reverse play, next/ previous video file, different speed control
Playback Playback Control Playback	By date & time Play, pause, stop, reverse play, next/ previous video file, different speed control
Playback Playback Control Playback Enhancement	By date & time Play, pause, stop, reverse play, next/ previous video file, different speed control Full screen display, digital zoom
Playback Playback Control Playback Enhancement	By date & time Play, pause, stop, reverse play, next/ previous video file, different speed control Full screen display, digital zoom Convert multiple recording files to Mac device instantly Advanced Event Management Motion detection, alarm input, connection failure, recording failure, and
Playback Playback Control Playback Enhancement Export	By date & time Play, pause, stop, reverse play, next/ previous video file, different speed control Full screen display, digital zoom Convert multiple recording files to Mac device instantly Advanced Event Management Motion detection, alarm input, connection failure, recording failure, and user-defined event
Playback Playback Control Playback Enhancement Export	By date & time Play, pause, stop, reverse play, next/ previous video file, different speed control Full screen display, digital zoom Convert multiple recording files to Mac device instantly Advanced Event Management Motion detection, alarm input, connection failure, recording failure, and

Backup		
Schedule Remote Replication	Schedule video data backup to a NAS on the local network	
	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	
On-line Users List	NVR	
Digital	Verify whether or not the videos and snapshots are original	
Watermarking		
	Reliability	
Operation System	Linux-embedded system, free from PC crash and virus attack	
Disk Management	 Single disk, RAID 0, RAID 1, and JBOD/Linear 	
	 Online RAID Capacity Expansion, Online RAID Level Migration 	
	 Online RAID Capacity Expansion, Online RAID Level Migration HDD S.M.A.R.T., bad blocks scan 	
UPS		
UPS	•HDD S.M.A.R.T., bad blocks scan	
UPS Support	•HDD S.M.A.R.T., bad blocks scan APC/ CyberPower/ MGE/ YEC (USB UPS)	
	 HDD S.M.A.R.T., bad blocks scan APC/ CyberPower/ MGE/ YEC (USB UPS) Network Services HTTP, HTTPS, TCP/IP, SMTP, DHCP, Static IP, DNS, DDNS, FTP, NTP, UPnP, 	
Support	 HDD S.M.A.R.T., bad blocks scan APC/ CyberPower/ MGE/ YEC (USB UPS) Network Services HTTP, HTTPS, TCP/IP, SMTP, DHCP, Static IP, DNS, DDNS, FTP, NTP, UPnP, failover, load-balancing, multi-IP setting 	
Support Dual Gigabit LAN	 HDD S.M.A.R.T., bad blocks scan APC/ CyberPower/ MGE/ YEC (USB UPS) Network Services HTTP, HTTPS, TCP/IP, SMTP, DHCP, Static IP, DNS, DDNS, FTP, NTP, UPnP, failover, load-balancing, multi-IP setting Failover/ load-balancing/ multi-IP setting 	
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Support Dual Gigabit LAN Services	 HDD S.M.A.R.T., bad blocks scan APC/ CyberPower/ MGE/ YEC (USB UPS) Network Services HTTP, HTTPS, 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 Language Support 	
Support Dual Gigabit LAN Services	 HDD S.M.A.R.T., bad blocks scan APC/ CyberPower/ MGE/ YEC (USB UPS) Network Services HTTP, HTTPS, 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 Language Support Czech/ Danish/ Dutch/ English/ French/ Finnish/ German/ Hungarian/ Italian/ 	
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QNAP	Surveillance	Client for	Windows

	QNAP Surveillance Client for Windows
Мас	QNAP Surveillance Client for Mac
Android Tablet,	VMobile
phone	
iPad, iPhone, iPod	VMobile
Touch	
Windows Mobile	VMobile
(6.1, 6.5) Device	
Client PC Rec	uirement (Suggested system requirement for better video performance)
CPU	M-JPEG format (up to 12 channels): Intel Pentium 4 CPU, 3.0GHz or above
	MPEG-4/ H.264/MxPEG format (up to 12 channels): Dual core CPU, 2.8GHz 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 24.0.1312.57 m (Windows PC) Mozilla Firefox 18.0.2 (Windows PC)
Network Interface	10/100/1000 Mbps
Display Resolution	1280 x 720 pixels or above
	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.
QNAP Codec VMobile	
	The video codec to play the recording files on Windows Media Player. The Mobile App to monitor the network cameras on the VioStor NVR by the Andr phone, Android tablet, iPhone, iPad, iPod touch, and Windows mobile (6.1, 6.5) device.