



VS-6120 Pro+

Hardware Spec.

Processor	Dual-core Intel® processor
Memory	4GB RAM
HDD Capacity	6 x 3.5-inch SATA 6Gb/s, SATA 3Gb/s hard drive NOTE: <ol style="list-style-type: none"> 1. The standard system is shipped without HDD. 2. For the HDD compatibility list, please visit : http://www.qnapsecurity.com/pro_compatibility.asp
HDD Tray	6 x hot-swappable and lockable tray
LAN Port	2 x Gigabit RJ-45 Ethernet port
LED Indicators	Status, LAN, USB, HDD1-6
USB	2 x USB 3.0 port (Back: 2) 5 x USB 2.0 port (Front: 1; 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
LCD Panel	Mono-LCD display with backlight Enter button, Select button for configuration
Alarm Buzzer	System warning
Audio	Audio In/Out (reserved)
Form Factor	Tower
Dimensions	185 (H) x 260 (W) x 235 (D) mm

	7.28 (H) x 10.24 (W) x 9.25 (D) inch
Weight	Net weight: 5.7 kg (12.56 lbs) Gross weight: 7.0 kg (15.43 lbs)
Operation Environment	Temperature 0~40°C Humidity 0~95% R.H.
Power Supply	Input: 100-240V AC, 50/60Hz, Output: 250W
Power Consumption	In Operation: 91W (with 6 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	2 x quiet cooling fan (92 mm, 12V DC)
Certification	CE, FCC, VCCI, BSMI

Software Spec.

Recording	
Supported Camera Models	Please visit http://www.qnap.com/NVR/CompatibilityX01.html
Number of Channels	Up to 20
Supported (Recording)	
Recording Mode	<ul style="list-style-type: none"> ●Continuous/ manual/ schedule recording ●Alarm recording/ multiple alarm recording schedules
Buffer Storage for Alarm Images (before and after events)	<ul style="list-style-type: none"> ●Pre-recording: Up to 300 sec ●Post-recording: Up to 300 sec
Recording Performance	Up to 30 fps at 1080P,720P,VGA for each channel * Real performance may vary in different environment
Megapixel Recording	Supports megapixel cameras (up to 10-megapixel)

Network Throughput	330 Mbps
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 and IP camera with panomorph lens on remote monitoring/playback and local display interface * Please visit http://www.qnapsecurity.com to get the compatibility list
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Local Display

Display Mode	1, 4, 6, 8, 9, 10, 12, or 16-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 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, 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 (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 recording files to one avi file
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 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

Dual 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
QNAP Surveillance Client for Windows

Mac	QNAP Surveillance Client for Mac
Android Tablet, phone	VMobile
iPad, iPhone, iPod Touch	VMobile
Windows Mobile (6.1, 6.5) Device	VMobile

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

CPU	M-JPEG format (up to 20 channels): Dual core CPU 2.6 GHz or above MPEG-4/ H.264/MxPEG format (up to 20 channels): Quad core CPU 2.6 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 23.0.1271.64 m (Windows PC) Mozilla Firefox 17.0.1 (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 Client For Windows	The client application used to remotely access QNAP NVR servers for performing video monitoring and playback functions on client PC.
QNAP Surveillance Client For Mac	The client application used to remotely access QNAP NVR servers for 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