**VS-6116 Pro+**

## Hardware Spec.

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|---|---|
| **Processor** | Dual-core Intel® processor |
| **Memory** | 4GB RAM |
| **HDD Capacity** | 6 x 3.5-inch SATA 6Gb/s, SATA 3Gb/s hard drive<br>**NOTE:**<br><br>1. The standard system is shipped without HDD.<br>2. For the HDD compatibility list, please visit :<br>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)<br><br>5 x USB 2.0 port (Front: 1; Back: 4)<br><br>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<br>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<br><br>7.28 (H) x 10.24 (W) x 9.25 (D) inch |

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| **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<br>(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<br>http://www.qnap.com/NVR/CompatibilityX01.html |
| **Number of Channels Supported (Recording)** | Up to 16 |
| **Recording Mode** | ●Continuous/ manual/ schedule recording<br>●Alarm recording/ multiple alarm recording schedules |
| **Buffer Storage for Alarm Images (before and after events)** | ●Pre-recording: Up to 300 sec<br>●Post-recording: Up to 300 sec |
| **Recording Performance** | Up to 30 fps at 1080P,720P,VGA for each channel<br>* Real performance may vary in different environment |
| **Megapixel Recording** | Supports megapixel cameras (up to 10-megapixel) |
| **Network Throughput** | 330 Mbps |

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| **File Format** | AVI (QNAP codec is required for playback) |
| **Recording Enhancement** | Real-time digital watermarking, auto snapshot |

| **Application** | |
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| **Dewarping** | Support the specific fisheye IP Cameras and IP camera with panomorph lens on remote monitoring/playback and local display interface<br>* Please visit http://www.qnapsecurity.com to get the compatibility list |

| **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<br>*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** | 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 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** | |
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| 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 | |
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| **Schedule Remote Replication** | Schedule video data backup to a NAS on the local network |

| Security Control | |
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| **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, RAID 5, RAID 5+ hot spare, RAID 6, RAID 6+ hot spare, and JBOD/Linear<br>●Online RAID Capacity Expansion, Online RAID Level Migration<br>●HDD S.M.A.R.T., bad blocks scan |
| **UPS** | APC/ CyberPower/ MGE/ YEC (USB UPS) |

| Network Services | |
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| **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 | |
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| **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<br>QNAP Surveillance Client for Windows |

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| **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<br>MPEG-4/ H.264/MxPEG format (up to 20 channels): Quad core CPU 2.6 GHz or above<br>* 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)<br>Google Chrome 23.0.1271.64 m (Windows PC)<br>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 |