QNAP SECURITY

VS-8040 VioStor NVR
VS-8032/VS-8024

Network Surveillance System for Enterprise
QNAP Network Video Recorder for IP Cameras

Live Monitoring, Recording, and Video Playback over the Internet Anytime, Anywhere

Secure Life, Secure Property

Intelligent Video Analytics
- • Motion Detection
- • Foreign Object
- • Missing Object
- • Out of Focus
- • Camera Occlusion

Environment Friendly
- Quiet
- Power-saving

Intel® Core™ 2 Duo Processor 2.8GHz

2GB DDRII Memory

Powerful All-in-one Recording Functions
- • Continuous/ manual/ schedule recording
- • Alarm recording (by motion detection or sensor triggered)
- • Multiple alarm recording schedules
- • High performance megapixel recording
- • High quality Motion-JPEG, MPEG-4, MxPEG and H.264 recording
- • Audio recording (vary by camera models)

Powerful Surveillance Features
- • Diversified modes for live monitoring
- • Smart control of PTZ cameras and auto cruising
- • Event notification on monitoring
- • Real-time SMS and email alert
- • Multi-channel playback at different speed
- • Easy data search by date & time, timeline, event, and intelligent video analytics (motion detection, foreign object, missing object, out of focus, and camera occlusion)
- • Enhanced file security by digital watermark

Easy to Use
- • Trouble-free 6-step installation
- • Intuitive web-based user interface
- • Smart search of IP cameras for quick settings
- • Drag and drop function on monitoring
- • Touch-N-Go PC-less Installation by LCD Display

High Reliability and Smart Features
- • Intel® Core™ 2 Duo 2.8 GHz CPU and 2GB DDRII memory
- • Advanced RAID (RAID 0/ 1/ 5/ 5 + hot spare/ 6/ 6 + hot spare/ JBOD) with hot-swap design
- • Large storage capacity (up to 16TB) for long-term recording
- • Intelligent auto power on when power resumes after power outage
- • Supports UPS for 24x7 service
- • Convenient video backup to external USB storage by one touch auto video backup button
- • Two Gigabit LAN ports for failover, load-balancing, or multi-IP setting

Linux Embedded | MJPEG MPEG4 MxPEG H.264 | Intelligent Video Analytics | SMS Support | Watermark Support | Dual Display | Hot Swappable | Dual Gigabit Ethernet | RAID 0/1/5/5+Spare 6/6+Spare/JBOD | Mega pixel

MOTION DETECTION | TIME STAMP AM 10:00 | LCD Configuration | Online RAID expansion | Online RAID migration | Failover | Load Balancing | HDD S.M.A.R.T. | SATA I / II | UPS Support APC MGE

Real-time monitoring over the Internet anytime, anywhere !

VS-8040
VS-8032/VS-8024
Secure Life, Secure Property

High Performance Network Surveillance System for Enterprise

QNAP VS-8040 VioStor NVR is the class-leading 8-bay, hot-swappable network surveillance system for high-quality real-time monitoring, megapixel recording, and playback of multiple IP cameras. It is able to record up to 40 channels in H.264, MPEG-4, MxPEG, and M-JPEG video compression. The VioStor NVR is compatible with the IP cameras and video servers from popular brands such as **AXIS**, **ACTi**, **Arecont Vision**, **Canon**, **Cisco**, **D-Link**, **EDIMAX**, **ELMO**, **EtroVision**, **GANZ**, **iPUX**, **IQeye**, **LevelOne**, **Linksys**, **Messoa**, **MOBOTIX**, **Panasonic BB/ BL/ i-Pro**, **SANYO**, **SONY**, **TOA**, **TOSHIBA**, **TRENDnet**, **VIVOTEK**, and **Y-CAM**.

Powered by Intel® Core™ 2 Duo 2.8 GHz CPU and 2GB DDRII memory, the VS-8040 VioStor NVR maintains high stability and performance when recording the video from several megapixel IP cameras. The VioStor NVR is a standalone, Linux-based surveillance system, allowing you to monitor up to 120 channels from multiple QNAP NVR servers without any software required. You can monitor maximum 42 channels simultaneously and manage the surveillance applications on one web browser.

The VS-8040 VioStor NVR supports diversified recording features, e.g. schedule recording, alarm recording, alarm recording schedule, motion-detection recording, pre-alarm, and post-alarm recordings. **It offers video search by date and time, timeline, event, and intelligent video analytics (IVA), including motion detection, foreign object, missing object, out of focus, and camera occlusion.** An intuitive user interface is provided for viewing the live monitoring channels, connection status, recording status, and network bandwidth, search the recording data, and play the recording data at different speed. Moreover, the VioStor NVR feature RAID 0/ 1/ 5/ 5 + hot spare/ 6/ 6 + hot spare/ JBOD, Online RAID Capacity Expansion, and Online RAID Level Migration, and two Giga LAN ports which can be configured as failover, load-balancing, or multi-IP settings. The system can be easily set up in 6 simple steps. The VioStor NVR is an excellent solution for high security monitoring applications.

Powerful Surveillance Features

• Diversified Monitoring Modes
- 1/ 4/ 6/ 8/ 9/ 10/ 12/ 16/ 20/ 25/ 36/ 42-channel display mode
- Sequential display mode
- Exclusive Picture-in-Picture mode
- Dual display mode

Dual Display

• Easy Drag and Drop Function on Monitoring
The VioStor NVR supports drag and drop function to change the display order of the monitoring channels.

• Smart Control of PTZ & Speed Dome Cameras
You can adjust the PTZ cameras directly by the web user interface.

• Preset Position Control and Auto Cruising
You can view different preset positions of the IP cameras by clicking the number buttons on the monitoring page. You can also configure auto cruising settings on the VioStor NVR for periodic monitoring of the preset positions of the PTZ cameras.

• Digital Zoom for Monitoring and Playback
The VioStor NVR supports digital zoom for more flexible monitoring and playback.

• Event Notification
When alarm recording is enabled and an event occurs, you can click the alarm icon on monitoring page to view the alert details.
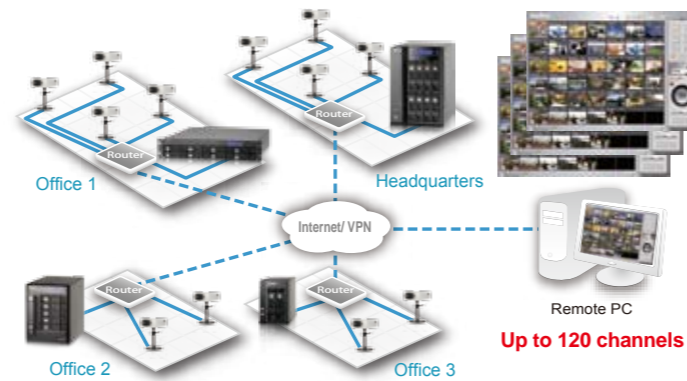
• Video Snapshot
The snapshot function is supported on monitoring and playback page.

• E-map for Easy Preview of the Camera Location
You can upload the pictures of the monitoring location.

• Multi-server Monitoring
You can connect to the VioStor NVR and add other QNAP NVR servers to monitor up to 120 channels over LAN or WAN.

Office 1 — Headquarters
Router — Internet/ VPN — Remote PC
Office 2 — Office 3
Up to 120 channels

• All-in-one Recording Functions
- Continuous/ schedule*/ manual recording
- Alarm recording/ multiple alarm recording schedules*
- High quality Motion-JPEG, MPEG-4, MxPEG and H.264 recording
- Up to 30 fps D1/ VGA recording for each camera
- High performance megapixel recording
- Audio recording (vary by camera models)
  * Up to 15 schedules are supported for each camera

• Real-time SMS and Email Alert
The NVR sends SMS and e-mail alert to the administrator immediately in case of system error or emergent events.

• Authority Management
You can configure the monitoring and playback authority of specified cameras for up to 32 users.

• On-line User List and Host Access Control
You can specify the connections to be allowed and denied to access the VioStor NVR. You can also view the record of users currently logged on and previously logged on to the VioStor NVR.

• Flexible Adjustment of the Length of Recording Files
You can flexibly adjust the length of the recording files.

• Schedule Remote Replication
The VioStor NVR supports schedule remote replication for secure data backup to a remote NAS.

• Advanced Event Logs
The VioStor NVR provides detailed event logs of system warning, hard disk error, network disconnection, UPS status users' networking services, and recordings access record.

• Multi-channel Playback at Different Speed
The VioStor NVR provides Express Quad View Playback that you can either divide the selected time equally into four playback views or play the video of four cameras at the same time.

• Enhanced File Security by Digital Watermark
The digital watermark technology allows you to check if the recording files on VioStor NVR are modified to enhance the file security.

• Data Search by Date & Time, Timeline, Event and Intelligent Video Analytics (IVA)
The VioStor NVR supports quick search of recording data by date and time, timeline, and events, and intelligent video analytics, including **motion detection, foreign object, missing object, out of focus, and camera occlusion.**

Motion Detection: Detects the movement in the video. The moving objects are highlighted in red brackets.
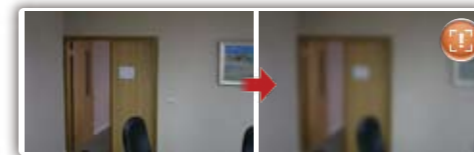
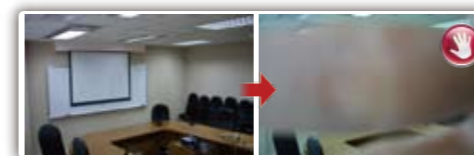**Foreign Object:** Detects a new object in the video. The foreing objects are highlighted in yellow brackets.

Missing Object: Detects a missing object in the video. The missind objects are highlighted in yellow brackets.

Out of Focus: Detects if the IP camera is out of focus.

Camera Occlusion: Detects if the IP camera is obstructed.

High Reliability and Smart Features

- **Advanced RAID (0/ 1/ 5/ 6/ JBOD) with Hot-swap Design**
- **Online RAID Capacity Expansion and Online RAID Level Migration**
  - **Online RAID Capacity Expansion**
    The storage capacity of a RAID configuration can be expanded by replacing the hard drives with larger ones.
  - **Online RAID Level Migration**
    You can upgrade the disk configuration to higher RAID level with the data retained. There is no need to turn off the server during the process.
- **Auto Logoff**
  The administrator can set the timeout period to log off the users when the idling time has reached in order to enhance secure management of the NVR.
- **S.M.A.R.T. & Advanced HDD Health Scanning (HHS)**
- **Intelligent Automatic System Startup when Power Resumes after Power Outage**
- **Support UPS for 24x7 Service**
- **Convenient Video Backup to External USB Storage by One Touch Auto Video Backup Button**
- **DOM Architecture with Embedded Fail-safe Dual OS for Enhanced Reliability**

Excellent Hardware Design

- **Intel® Core™ 2 Duo 2.8 GHz CPU and 2GB DDRII Memory**
- **Green NVR Solution: Linux-embedded System with Low Power Consumption**

Power Consumption
QNAP VS-8040/8032/8024 VioStor NVR Write/Read		92~108W
PC-based NVR solution Write/Read		400W

- **Touch-N-Go PC-less Installation by LCD Display**
  The handy LCD display on the VioStor NVR provides a speedy and easy approach to initialize the NVR and set up the RAID configuration without using any computer. You can use the handy LCD to finish the first time installation in 3 simple steps.
- **Up to 16TB Storage Capacity for Long-term Recording**
- **Lockable HDD Tray**
- **Two Gigabit LAN Ports for Failover, Load-balancing, or Multi-IP Setting**
  - **Failover**
    Failover allows the VioStor NVR to sustain the failure of one network port to provide continuous services.
  - **Load-balancing**
    Bandwidth aggregation is supported to boost the file transfer speed (works with managed Ethernet switch with 802.3ad configured).
  - **Multi-IP Setting**
    The VioStor NVR can be deployed with two different IP settings for sharing among different workgroups in two different subnets.

LAN 2 — Switch — LAN 1 — Switch
Supports access of multiple IP from different LAN areas

Powerful Network Services

- **DDNS Support & Built-in NTP Server**
- **Convenient Data Access by Network Neighborhood (SMB/ CIFS) / Web File Management (HTTP) / FTP server**

Application: Live Monitoring, Recording, and Video Playback over the Internet Anytime, Anywhere
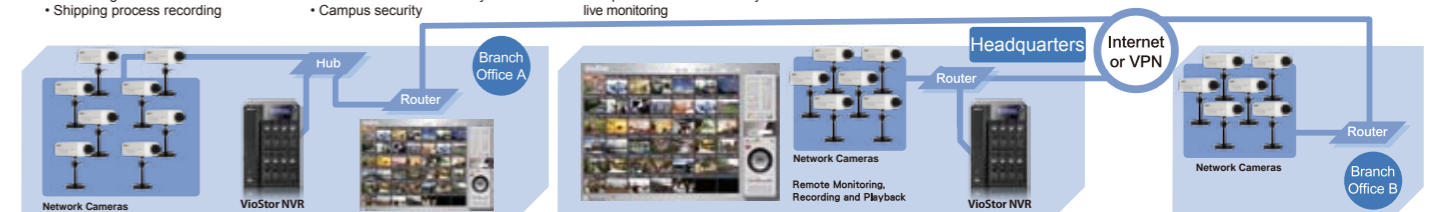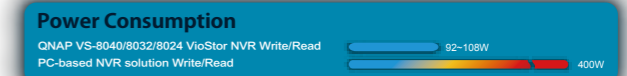
• Business Services
- Live production line monitoring for quality and security control
- Department store/ mall monitoring
- Shipping process recording

- Crime prevention, e.g. shoplifting
- Parking lot monitoring
- Construction site monitoring
- Convenience store security
- Campus security

- Server room security
- Gas station security
- Hotel security
- Multiple remote offices/ factory sites live monitoring

• Office Management
- Real-time office monitoring from remote locations
- In-house office monitoring
- Office security fortification
- False alarm identification

Hub — Branch Office A — Router
Network Cameras — VioStor NVR
Remote Monitoring, Recording and Playback
Headquarters — Internet or VPN — Router
Network Cameras — VioStor NVR
Router — Branch Office B

Hardware Specifications

Processor
- Intel® Core™ 2 Duo 2.8 GHz processor

Memory
- 2GB DDRII RAM, 128MB flash (DOM)

HDD Capacity
- 8 x 3.5" SATA I/II HDD or 8 x 2.5" SATA HDD
  (the standard system is shipped without HDD)

HDD Tray
- 8 x hot-swappable and lockable tray

LAN Port
- 2 x Gigabit RJ-45 Ethernet port

LED Indicators
- Status, LAN, USB, HDD 1, HDD 2, HDD 3, HDD 4, HDD 5, HDD 6, HDD 7, HDD 8

Buttons
- Power, one touch auto video backup, reset button

USB
- 5 x USB 2.0 (front:1; back:4)
  Front: for USB storage device
  (One touch auto video backup)
  Back: for UPS device

LCD Panel
- Mono-LCD display with backlight and buttons for configuration

Alarm Buzzer
- System warning

Form Factor
- Tower

Hardware Dimensions
- 298(H) x 200(W) x 270(D) mm
- 11.73(H) x 7.87(W) x 10.63(D) inch

Color Box Shipping Weight
- 9.8Kg/ 21.61 lb

Operation Environment
- Temperature: 0~40°C/ 32~104°F
- Humidity: 0~95% R.H.

Power Supply
- ATX 350W, Input: 100-240V AC, 47-63Hz, 6A-2.8A

VGA
- Reserved

RS-232
- RS-232 x 1

Fan
- 2 x 12cm smart cooling fan

Certification
- CE, FCC, VCCI, BSMI

Software Specifications

Video
Display Mode: 1/ 4/ 6/ 8/ 9/ 10/ 12/ 16/ 20/ 25/ 36/ 42-channel display, Picture-in-Picture mode, sequential mode, dual display mode
Number of IP Cameras Supported (Recording):
- VS-8040: Up to 40 channels
- VS-8032: Up to 32 channels
- VS-8024: Up to 24 channels
Multi-server Monitoring:
- Up to 120 channels monitoring from multiple QNAP NVRs
Compression Format:
- M-JPEG, MPEG-4, MxPEG, and H.264 (vary by camera models)
Video Setting: Resolution, quality, frame rate
E-map: Upload E-map (JPEG)

Recording
Recording Mode:
- Continuous/ manual/ schedule* recording
- Alarm recording/ multiple alarm recording schedules*
  * Up to 15 schedules are supported for each camera
Buffer Storage for Alarm Images (before & after Events):
- Pre-recording: up to 300 sec; post–recording: up to 300 sec (total 600 sec/ 10 min)
Recording Performance:
- Up to 30 fps at D1 or VGA for each camera
  * Real performance may vary in different environment
Megapixel Recording: Supports megapixel cameras
File format: AVI (QNAP codec is needed for playback)

Storage
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
Services: Web File Manager, FTP, SMB/CIFS

Playback
Playback Channel: Max 4-channel playback at the same time
Playback Mode:
- Play, pause, stop, fast forward, reverse play, next/ previous frame, next/ previous video file, different speed control
Search Mode: By date & time, timeline, event, and intelligent video analytics
Playback Enhancement:
- Full screen display, video snapshot, digital zoom
Download: Download recordings via the web

Security
Operation System: Linux-embedded system
On-line Users List: Record of the users currently logged on and previously logged on to the NVR
Host Access Control: Specify the connections to be allowed and denied to access NVR
Authority Management: The right to monitor and playback each camera can be separately defined for each user (max 32)
Alert Notification: Buzzer, event notification, SMS, e-mail alert
Auto logoff: The administrator can set the timeout period to log off the users when the idling time has reached
Digital Watermark: Enhanced file security by digital watermark
UPS: APC/ MGE (USB type UPS)
Event Logs: Detailed record of event logs

Utility Software
QNAP Finder: Discovery and quick setup for NVR

Network
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

LCD Panel
- PC-less RAID configuration for the first time setup
- Checks or configures the IP settings, physical disk info, system info, shut down or reboot the NVR etc.

Client PC Requirements
(Suggested system requirements for better video performance)
CPU:
- Motion-JPEG format (up to 40 channels): Dual core CPU 2.4 GHz or above
- MPEG-4/ MxPEG/ H.264 format (up to 40 channels): Quad core CPU 2.4 GHz or above
  * For higher surveillance performance, please select more advanced PC models
Memory: 1GB or above
Operation System: Microsoft Windows XP/ Vista (32-bit)
Web Browser: Internet Explorer 6.0 or later
Network Interface: 10/100/1000 Mbps
Display Resolution: Suggested 1024 x 768 pixels or above

Language Support
English/ French/ German/ Italian/ Japanese/ Spanish/ Simplified Chinese/ Traditional Chinese/ Danish/ Dutch/ Finnish/ Korean/ Norwegian/ Polish/ Portuguese/ Russian/ Swedish

Package Contents

- VioStor NVR
- CD-ROM
- Ethernet cable x 2
- Power cord
- Flat head screw
- Quick Installation Guide (RAID configuration)
- Hard disk lock
- Quick Installation Guide

* Designs and specifications are subject to change without notice.

Brand	Models	VS-8040 40 channels	VS-8032 32 channels	VS-8024 24 channels
AXIS	206M/ 207/ 207W/ 207M/ 207MW/ 209FD(-R)/ 209MFD(-R)/ 210/ 210A/ 211A/ 211/ 211W/ 211M/ 212/ 213/ 214/ 215/ 216FD/ 216MFD/ 221/ 223M/ 225FD/ 231/ 232/ 233D/ P1311/ P3011/ P3301/ P3343/ P3344/ Q1755/ Q247M/ M1011/ M1011-W/ M1031-W/ M3011/ M7001/ 241Q/ 241QA/ 241S/ 241SA/ 243SA/ 247S	●	●	●
ACTi	ACM-1231/ ACM-1232/ ACM-1311/ ACM-1431/ ACM-1432/ ACM-1511/ ACM-3001/ ACM-3011/ ACM-3311/ ACM-3401/ ACM-3411/ ACM-4000/ ACM-4001/ ACM-4100/ ACM-4200/ ACM-5001/ ACM-5601/ ACM-5611/ ACM-5711/ ACM-7411/ ACM-8211/ ACM-8511/ CAM-5000/ CAM-5100/ CAM-5220/ CAM-5221/ CAM-5301/ CAM-5321/ CAM-6500/ CAM-6600/ CAM-6610/ CAM-6620/ CAM-6630/ CAM-7300/ CAM-7321/ CAM-7322/ ACD-2100/ ACD-2200/ ACD-2300/ ACD-2400/ ACD-2000Q/ SED-2140/ SED-2120/ TCM-4301/ TCM-5311	●	●	●
Arecont Vision	AV 1300/ AV 1305/ AV 1355/ AV 2100/ AV 2105/ AV 2155/ AV 3130/ AV 3100/ AV 3105/ AV 3155/ AV 5100/ AV 5105/ AV 5155/ AV 8180/ AV 8185/ AV 8360/ AV 8365	●	●	●
Canon	VB-C300/ VB-C300B/ VB-C50iR/ VB-C50i/ VB-C50FSi/ VB-C50Fi	●	●	●
Cisco	CIVS-IPC-2500/ CIVS-IPC-2500W	●	●	●
D-Link	DCS-2120/ DCS-2121/ DCS-3220/ DCS-3220G/ DCS-3420/ DCS-5220/ DCS-5300/ DCS-5300G/ DCS-6620/ DCS-6620G/ DCS-900(A)/ DCS-900(B)/ DCS-900(B2)/ DCS-920	●	●	●
EDIMAX	IC-1510/ IC-1510WG/ IC-3010/ IC-3010WG/ IC-7000PT/ IC-7000PTN	●	●	●
ELMO	PTC-401C-IP/ PTC-402C-IP/ SN2230-IP2/ SN2230-IP2/ SN2230-IPW/ SN2232 IP/ TD4112-IP/ TD4114 IP2	●	●	●
EtroVision	EV3130/ EV3131/ EV3131A/ EV3830/ EV6130/ EV6332/ EV6530	●	●	●
GANZ	ZN-D2024/ ZN-PT304L/ ZN-PT304WL/ ZN-YH305/ ZV-S306	●	●	●
iPUX	ICS 1001/ ICS 1011/ ICS 1003/ ICS 1013/ ICS 1300/ ICS 1310/ ICS 130A/ ICS 131A	●	●	●
IQeye	040S/ 041S/ 042S/ 510/ 511/ 701/ 702/ 703/ 705/ 710D/ 711D/ 712D/ 752/ 753/ 755/ 802/ 803/ 805/ 811/ 852/ 853/ 855	●	●	●
LevelOne	FCS-0010/ WCS-0010/ FCS-0020/ WCS-0020/ FCS-1010/ WCS-2010/ FCS-1030/ WCS-2030/ FCS-1040/ WCS-2040/ FCS-1060/ WCS-2060/ FCS-1070/ WCS-2070/ FCS-109X/ WCS-109X/ FCS-3000/ FCS-3021/ FCS-5030	●	●	●
Linksys	PVC-2300/ WVC-200/ WVC54GCA	●	●	●
MESSOA	NDZ860 H2/ NIC835 HN5/ NIC836	●	●	●
MOBOTIX	D12D-IT/ D12D-Sec/ D22M-Basic/ D22M-IT/ D22M-Sec/ M10D-Night/ M12D-IT/ M12D-Sec/ M12M-IT/ M12M-Sec/ M12M-Web/ M22M-IT/ M22M-Night/ M22M-Sec/ Q22M-Basic/ Q22M-Sec/ Q24M-Sec	●	●	●
Panasonic	BB-HCM580/ BB-HCM581/ BB-HCM527/ BB-HCM531/ BB-HCM511/ BB-HCM515/ BB-HCM547/ BL-C1/ BL-C10/ BL-C111/ BL-C131/ BL-C20/ BL-C30/ BL-C30K1/ BB-HCM481/ BB-HCM403/ BB-HCM381/ BB-HCM371/ BB-HCM331/ BB-HCM311/ BB-HCM110/ BB-HCM100/ KX-HCM280/ KX-HCM180/ BL-C11/ BL-C31/ NF282/ NF284/ NP1000/ NP1004/ NP240/ NP244/ NS202(A)/ NS950/ NS954/ NW484/ NW960/ NW964/ WV-NF302/ WV-NP304/ WV-NP304V	●	●	●
SANYO	VCC-400N/ VCC-P450/ VCC-P470/ VCC-PT490/ VCC-PT500/ VCC-9600/ VCC-9800/ N6695/VCC-HD4000	●	●	●
SONY	SNC-CS10/ SNC-CS11/ SNC-CS20/ SNC-CS50/ SNC-CM120/ SNC-DF40/ SNC-DF50/ SNC-DF70/ SNC-DF80/ SNC-DF85/ SNC-DS10/ SNC-DS60/ SNC-DM110/ SNC-DM160/ SNC-P1/ SNC-P5/ SNC-RX530/ SNC-RX550/ SNC-RX570/ SNC-RZ25/ SNC-RZ30/ SNC-RZ50/ SNC-Z20	●	●	●
TOA	N-CC2561/ N-VT-2010/ N-CC-2360	●	●	●
TOSHIBA	CI8110-D/ CI8210-D/ IK-WB12/ IK-WB21	●	●	●
TRENDnet	TV-IP212/ TV-IP212W/ TV-IP312/ TV-IP312W/ TV-IP410/ TV-IP410W/ TV-IP422/ TV-IP422W	●	●	●
VIVOTEK	IP3111/ IP3121/ IP3112/ IP3122/ IP3132/ IP3135/ IP3137/ PT3112/ PT3122/ PT3117/ PT3127/ FD6111V/ FD6111V/ FD6112V/ FD6122V/ IP6112/ IP6122/ IP6117/ IP6127/ PZ6112/ PZ6122/ PZ6114/ PZ6124/ SD6112V/ FD7130/ FD7131/ FD7132/ FD7141/ IP7130/ IP7131/ IP7132/ IP7133/ IP7134/ IP7135/ IP7137/ IP7138/ IP7139/ IP7142/ IP7151/ IP7152/ IP7154/ IP7161/ IP7251/ IP7330/ IZ7151/ PZ7111/ PZ7121/ PZ7112/ PZ7122/ PZ7131/ PT7135/ PT7137/ PZ7151/ PZ7152/ SD6122V/ SD7151/ SD7313/ SD7323/ VS 3102/ VS 3100P/ VS 7100	●	●	●
Y-CAM	Y-Cam White/ Y-Cam Black	●	●	●

*For the latest information of the supported cameras, please visit QNAP Security website: http://www.qnapsecurity.com/pro_compatibility_camera.asp
**All the other trademarks mentioned herein are the property of their respective companies.
***Designs and specifications are subject to change without notice.

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