

QNAP NVR-1012

Network Surveillance System with Two IP Cameras for SOHO and Home

Live Monitoring & Video Playback
over the Internet Anytime, Anywhere

Secure Life, Secure Property



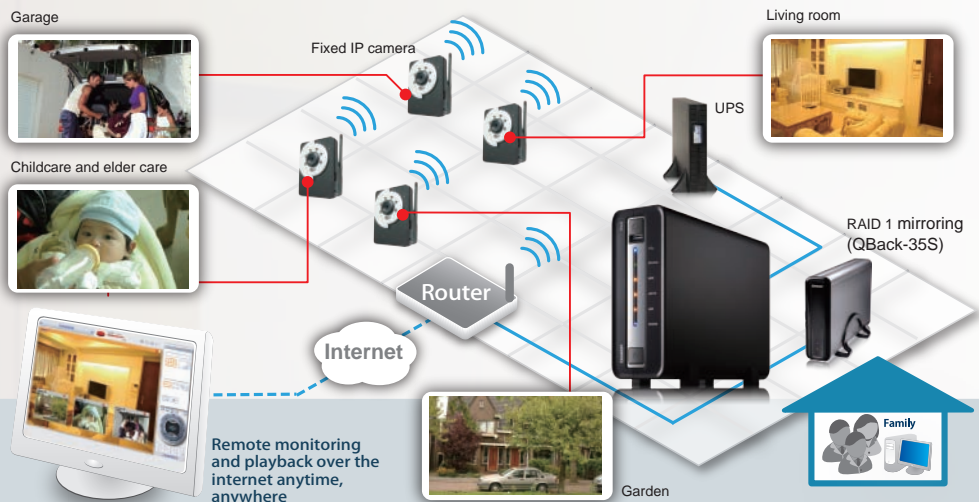
QNAP NVR-101 is an innovative Linux-embedded network video recorder with professional surveillance functions. It supports versatile IP camera brands. To enable users to set up a surveillance system more conveniently, QNAP has released the NVR-1012 package which includes an NVR-101 and two value-plus IP cameras. The cameras support wireless network connection to simplify wiring and setup, two-way audio recording and audio broadcast, night view capability, and remote monitoring by 3GPP handset. The NVR-1012 system can be deployed in any Ethernet-ready location and the cameras can be set up wirelessly. No complicated wiring is necessary. All monitoring function and system configuration can be maintained by the IE browser.

The NVR supports synchronized video and audio monitoring and recording. You can use the camera for two-way communication or perform voice-broadcast. With the auto day & night function, infrared on the camera is enabled automatically at night time to ensure continuous monitoring and recording. The intelligent motion detection is supported that when a moving object is detected, recording will be triggered. Moreover, timestamp is provided on the recording for easy video search and playback. You can use it as an evidence for police investigation. The NVR also supports simultaneous 3GPP streaming. You can use your 3G handset for remote monitoring anytime, anywhere. The NVR-1012 is the new generation digital surveillance solution for modern home and small office.



Application Diagram

- ✓ High quality video recording in MPEG4 and Motion JPEG format
- ✓ Real-time monitoring and recording for up to 30 frames/sec per channel!!!
- ✓ Live 2-way audio supported for monitoring and voice broadcasting
- ✓ All sorts of alarms supported (sensor-triggered, motion detection, etc.)
- ✓ Real-time alarm e-mail notification
- ✓ Easy installation and management from remote locations
- ✓ Standalone system, no extra PC or utility required
- ✓ Stable, energy-saving, can operate 24x7 non-stop
- ✓ Small-sized, easy to deploy.



Real-time monitoring over the Internet
anytime, anywhere!



Network Surveillance System Spec.



Video

Display Mode: 1, 4, picture-in-picture, sequential mode
Recording Connection: Up to 4 channels
Compression Format: Motion JPEG and MPEG 4 (depend on IP camera)
Video Setting: Resolution, quality, frame rate
E-map: Upload E-map

Recording

Recording Mode: Continuous, manual, schedule, alarm, motion, snapshot
Buffer Storage for Alarm Images (before & after events):
 Pre-recording: 300 seconds; post-recording: 300 seconds (total 600 seconds/ 10 minutes)

Recording Performance:

- ◆ Up to 120 frames at QVGA (320x240) or CIF (352x240 NTSC, 352x288 PAL)
 - ◆ Up to 40 frames at VGA (640x480)
- * Real performance may vary in different environment

File format:

AVI

Playback

Playback Mode: Play, pause, stop, fast forward, full screen display
Video Search: Search by date, time, alarm event, file
Video Player: Immediate playback by default video player
Download: Click to download recorded files from web page

Alarm Notification

Real-time e-mail notification to user upon alert events

Storage

Disk Mode: Single, RAID 0, RAID 1, JBOD/ Linear
Capacity: Support 1 x 3.5" SATA I/II HDD, up to 1TB or above, expandable to 2TB via eSATA
Management: Web File Manager, FTP, SMB/CIFS

Network

Support: HTTP, TCP/IP, SMTP, DHCP, Static IP, DNS, DDNS, FTP, NTP, UPnP
Camera IP Address & Port: Allow setting LAN/WAN IP address of each camera

Security

Operation System: Linux-embedded, free from PC crash and virus attack
User Management: The access right of up to 32 users can be set

Alert Notification: E-mail, buzzer, event logs, recording

UPS: Support APC (USB UPS)

Event Logs: Detailed record of all events

Client PC Requirement

(Suggested system requirement for better video performance)

CPU: Pentium® 4 CPU 2 GHz

Memory: 512 MB or above

Operation System: Windows XP® or later

Browser: Internet Explorer 6.0 or later

Network Interface: 10/100 Mbps or above

View Resolution: 1024 x 768 pixels or above

Language Support

English/ Japanese/ French/ Italian/ German/ Spanish/ Russian/ Dutch/ Simplified Chinese/ Traditional Chinese

Utility Software

QNAP Finder: QNAP Finder is provided for quick server setup and NVR discovery in LAN

Certification

CE, FCC, VCCI, BSMI

IP Camera ICS-1013 Spec.



Camera Image

Image Sensor: 1/4" color CMOS sensor
Day Vision: Minimum illumination 0.5 lux
Night Vision: IR LED with light sensor control; night vision 0 lux within 5 meters with built-in 6 infrared LEDs on
Image Setting: Brightness/ sharpness/ saturation
Upside Down and Mirror: Yes
Digital Zoom: 3x
Compression Ratio Setting: 5 levels

Camera Lens

Lens Type: Board lens
Aperture (F/No.): 2.8
Focus Length: 4.5mm
View Angle(Diagonal): 54 degrees

Image Processing

Compression: MPEG4/ Motion JPEG
Auto Exposure Control(AEC): Yes
Auto White Balance(AWB): Yes
Auto Gain Control(AGC): Yes
Image Resolution and Frame Rate: VGA (640 x 480)/ QVGA(320 x 240)/ QQVGA (160 x 120): up to 30 fps per channel
Multi-profile: MPEG4/ Motion JPEG/ 3GPP video streams output simultaneously

Audio

Audio in: Internal Omni-directional microphone

Sensitivity: -48dB +/- 3dB

Frequency Response: 50~16000Hz

Audio out: External output to active speaker; mono

Security

Email Alert: Support SMTP mail/ scheduling/ two destination email accounts

User Administration: Password protected and 3 levels of authorization:

1. Guest user can only view and use the audio function only
2. General user has all authority in live view page
3. Administrator has rights to view video and configure all settings. (default login: admin/ admin)

Multi-client Access: Supports up to 10 simultaneous remote users

Motion Detection: 2 scalable windows

IP Filter: Yes

Network

System Management: Web-based administration

IP Setting: Static IP address / DHCP / PPPoE

Ethernet: One RJ45 port; IEEE 802.3u compliant 10/100 Mbps fast Ethernet with Auto-MDIX

Wireless: IEEE802.11b/ 802.11g wireless LAN

Wireless Security: WEP 64/ 128-bit / WPA (TKIP) / WPA2

Supported Protocols: TCP/IP, UDP, ICMP, DHCP, NTP, DNS, DDNS, SMTP, FTP, HTTP, Samba, PPPoE, UPnP, RTP, RTSP, RTCP

IP Filter: Auto search IP address of camera in LAN

LEDs and Buttons

LED Control: Normal / Off

Power LED: Orange

Link/ act. LED: Green

Reset Button: Press over 5 sec to reset to factory default

USB Dismount Button: Press over 4 sec to dismount USB device

System

Power: DC5V

Power Consumption: < 8 watts

Environment:

Operation: Temp: 0°C ~ 45°C

Humidity: 20% ~ 85% non-condensing

Storage: Temp: -15°C ~ 60°C

Humidity: 0% ~ 90% non-condensing

Approvals: FCC/ CE class B

Others

USB Port: One Type A receptacle connector USB 1.1 host port (power distribution: 500mA max.)

Smart Setup Wizard: Quick installation setup step by step

Hardware Spec.

HDD: Support 1 x 3.5" SATA I/II HDD, up to 1TB or above, expandable to 2TB via eSATA (the HDD is not included)

LAN Port: 1 x Gigabit RJ-45 Ethernet port

LED Indicators: Power, USB, status, LAN, hard disk

USB: 3 x USB; for USB storage device (One Touch Auto-Video Backup) and UPS device

Buttons: USB auto-video backup button, power button, reset button

Form Factor: Portable desktop

Hardware Dimensions: 218.4(D) x 60(W) x 165.5(H) mm

Hardware Net Weight: 0.71Kg (without HDD)

Temperature: 0~35°C

Humidity: 0~85% R.H.

Power Supply: External power adaptor, 36W, 100~240V

Energy Saving Design: Low power consumption

Thermal Solution: Low noise fan

Secure Design: K-Lock security slot for theft prevention, Power cord hook for kicking-off prevention

Color Box Shipping Weight: 3.5 Kg (without HDD)

Optional Accessories

To purchase extra IP cameras, USB backup devices (QBack-35S/ QBack-25S), or external eSATA device (QBack-35S), please contact your dealer or distributor.

QBack-25S



2.5" SATA USB Device

QBack-35S



3.5" SATA USB/ eSATA Device

IP Camera ICS-1013



Wireless IP Camera

Hardware Illustration (NVR)



Hardware Illustration (IP Camera)



*Designs and specifications are subject to change without notice. Please contact QNAP for updated information.

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