



# Network Video Recorder



NVR-02 Series

## H/W Version: 2

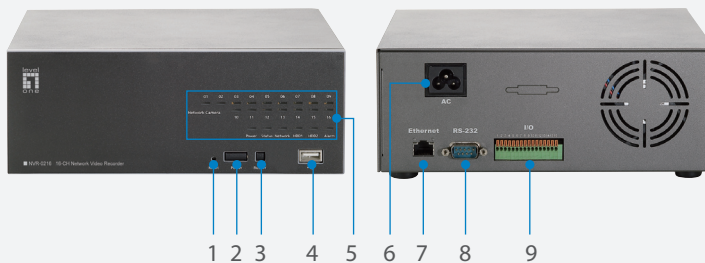
The LevelOne Network Video Recorder (NVR) is a reliable surveillance system with an easy set up functionality. It enables live recording and playback for up to 4/8/16 network cameras via the local area network (LAN) or over the Internet simultaneously.

This system is compatible with most network cameras (Please see compatible list), with no specific hardware or software requirement. Just plug the NVR into the LAN connected device (switch or router) and with a few clicks, it will search and configure each connected network cameras instantly. This high-performing NVR is cost-effective and it offers a completed monitoring solution. Smartphone real-time viewing, video/schedule recording and playback, DI/DO for sensor/ alarm and external Uninterruptible Power Supply (UPS) for non-stop recording service are all standard feature for the LevelOne NVR.

It also supports up to 5-Megapixel resolution and H.264/MJPEG/MPEG4 compression with dual stream monitoring. The LevelOne NVR is a powerful tool that well suited for small scale applications such as retail store, office, bank or home surveillance needs.

## Enhanced Multi-Server Management

We aim to offer you the most versatile and comprehensive surveillance solutions. Our free bundled NVR management software coming with the NVR allows you to cascade up to 16 NVR servers located in different sites and monitor up to 256 IP cameras simultaneously from a single point of management. Thus easing administration tasks while maximizing efficiency and performance.



1. Reset Button
2. Power Button
3. Buzzer Stop Button
4. USB Port
5. LED Indicators
6. Power Connector
7. Ethernet
8. RS-232
9. DI/DO

## Key Features

- 2 x 3.5 inch disk slot (SATA I/II, up to 2 x 3TB)
- Manage and control up to 4/8/16 network cameras
- Gigabit Ethernet (1000Mbps) speeds
- Compression: H.264/MPEG-4 Part 2/MJPEG
- Resolution: 5-Megapixel/3-Megapixel/Full HD/ Megapixel/FD1/CIF/QCIF
- Supports smart camera search and 2-way audio
- Supports PTZ/preset point/preset sequence
- Motion detect and event display on e-map
- Supports iPhone/smartphone/PDA remote viewing over the Internet
- Display mode: Live view/playback/full screen
- Supports external UPS and DI/DO
- Supports 2 video streams simultaneously
- Free bundled NVR management software for manage up to 16 NVR devices

## Works Well With



**FCS-4041**  
2-Megapixel P/T/Z PoE Plus Speed Dome Outdoor Network Camera



**FCS-5051**  
Day/Night 2-Megapixel PoE Outdoor Network Camera

## Technical Specification

### Hardware

#### Processor

ARM9 1.6Ghz

#### Memory

512MB DDR3 RAM

#### HDD Capacity

SATA HDD Slot x 2 (SATA I or SATA II)

Max. Capacity: 6TB (3TB per HDD)

#### LAN Port

10/100/1000Base-T

#### USB

1 x USB 2.0 for backup device and firmware upgrade

#### Buttons

Power button, reset button, buzzer stop button

#### LED Indicators

Power, System, Network, HDD, Alarm, Camera

#### Alarm Buzzer

System warning, event alert

#### Digital Input/Output

DI x 8 / DO x 4

#### Dimensions

220 x 218 x 81 mm

#### Weight

2670 g (without HDD)

#### Power

100~240V AC, 1.4A

#### Power Consumption

max. 90W

#### Operating Temperature

5 °C ~ 45 °C

#### Operating Humidity

5% ~ 90% (non condensing)

#### Approvals

CE/FCC

### Camera

#### Channels

4 / 8 / 16

#### Supported Brands

A-MTK / Abus / ACTi / AirLive / ALinking / Arecont Vision / AVTech / Axis / Brickcom / Canon / CNB / Compro / D-Link / Dynacolor / Etrovision / Flexwatch / Hikvision / Hunt / iMege / IQInvision / LevelOne / Mobotix / Panasonic / Pixord / Planet / Planex / Sanyo / Sony / Toshiba / Vivotek / Zavio

### Video

#### Resolution

5MP / 3MP / 2MP / Full HD / MegaPixel / FD1 / CIF / QCIF

#### Compression

H.264 / MPEG-4 / M-JPEG

### Audio

#### Codec

G.711 / G.726

#### Streaming

2-Way Audio

### Live Viewing

#### Display Mode

Live View / Playback / Full Screen

#### Split Screen

NVR-0204 - 1/4

NVR-0208 - 1/4/8

NVR-0216 - 1/4/16, 9/13

#### Full Screen

NVR-0204 - 1/4

NVR-0208 - 1/4/8

NVR-0216 - 1/4/16, 9/13

#### PTZ Support

Virtual PTZ Panel / Auto Pan / Preset Point / Preset

Sequence / Digital PTZ

#### Sequence Mode

Sequence All / Manually Selected cameras in 1/4 split view with configurable timer

#### Snapshot

3 continuous snapshots in JPEG format

### E-Map

Motion Detected Event Display on E-Map / Google Map

### Mobile Device

Live image view through mobile device's web browser

Support iPhone / Blackberry / WinMobile 6.5 / Symbian S60

### Playback

#### Split Screen

1/4

#### Seach Method

Time/Date, Event

#### Playback Controls

Play / Pause / Stop / Forward / Reverse / Speed Adjust / Frame by Frame

#### Backup

Export Playback Videos to Local Computer in AVI

Format

### Recording

#### Max. Frame Rate

240 fps (1920 x 1080, H.264)

#### Capacity

Depends on hard disk

#### Recording Mode

Manual / Continuous / Schedule / Event

#### Scheduling Types

Manual Select / Profile-based / Weekly Mode

#### Dual Stream

Support different video format for recording other than the one used for live view

#### Network Throughput

80 Mbps

#### Export File Format

AVI

### Triggers & Event

#### System Events

System Start/Shutdown, System Settings modified, Camera Settings Modified, Start Recycle, Disk Full

#### Camera Events

Motion / Sensor Detection

#### Event Actions

Mail / FTP / Record / Buzzer

#### Event Recording

Pre/Post Event Settings

### Management

#### Number of Groups

7 (Administrator/Guest/User Define \* 5)

#### Privileges

Live View / Playback / System Configurations / Camera Configurations / Recording Configuration / Event Configuration / Maintenance

#### System Log

Alert / Event / User Access

#### Central Management

Support NVR Management Software to manage up to 16 NVR device.

### Network

#### Supported Protocols

HTTP, SMTP, DHCP, ARP, NTP, DNS, UPnP, FTP

#### Device Network Configuration

Static IP / DHCP (client &amp; server)

#### Max. Session

48 (live:32, playback:16)

### General

#### Languages

English / Trad. Chinese /Simp. Chinese / Japanese / Italian / Spanish / Portuguese / German / Danish / Czech /

Polish / French / Russian / Slovenian / Hungarian / Turkish / Finnish / Dutch / Slovenian / Greek

#### Hardware Requirements

CPU: Intel Core 2 Duo @ 2.4Ghz or higher

RAM: 1GB or above

Network: 100 Megabit Network Interface or above

#### Software Requirements

Internet Explorer 7 or above

\* Please visit <http://global.level1.com> for the latest product compatibility list.

## Product Diagram



## Order Information

**NVR-0204:** 4-CH Network Video Recorder

**NVR-0208:** 8-CH Network Video Recorder

**NVR-0216:** 16-CH Network Video Recorder

## Package Contents

Network Video Recorder  
RJ-45 Ethernet LAN cable  
Power cord  
Quick Installation Guide  
CD Manual/Utility