



## 4-Channel 1080p HD PoE NVR

TV-NVR104 (v1.0R)

- Standalone 4-Channel PoE network video recorder
- Plug and play up to 4 PoE cameras\*
- Up to Full HD 1080p video recording supported
- A 3.5" SATA I/II bay supports up to a 4 TB HDD/SSD (sold separately)
- Over three weeks of continuous 1080p recording\*\*
- Advanced video playback
- ONVIF compliant
- [List of compatible cameras](#)

TRENDnet's standalone 4-Channel 1080p HD PoE NVR, model TV-NVR104, offers a comprehensive video display, storage, and management solution. The NVR networks and powers up to four PoE cameras\* and auto-recognizes select TRENDnet cameras. Install up to a 4 TB hard drive (sold separately) to record over three weeks of continuous video from four 1080p PoE cameras\*\*. Quickly review and export archived video with advanced playback.



### Standalone 1080p HD NVR

This standalone 1080p HD NVR supports up to a 4 TB hard drive and powers up to four PoE network cameras-hard drive, cameras, and display sold separately.



### Plug, Play, & Power

The NVR auto-recognizes and powers TRENDnet PoE cameras\* - simply connect compatible TRENDnet PoE cameras and start recording surveillance video.



### Intuitive Interface

Users will find the management interface intuitive and easy to use-quickly navigate live view preferences, recording schedules, and advanced playback options.



Quad view

Single view

Advanced playback

## Networking Solution



- 1 Power port
- 2 Analog audio in/out
- 3 VGA display port
- 4 HDMI display port
- 5 USB ports
- 6 Ethernet Network port
- 7 PoE 10/100 Mbps ports
- 8 LED Indicators

## TV-NVR104 Hardware



### PoE Ports

Plug and play TRENDnet PoE network cameras\* to the four PoE (IEEE 802.3af) ports with a total PoE budget of 35 Watts



### Storage Bay

A 3.5" SATA I/II bay supports up to a 4 TB HDD/SSD (sold separately)



### Network Port

Ethernet network port



### Display Ports

HDMI and VGA display ports



### Audio Ports

Audio in and out ports



### USB Ports

One USB port for the included mouse and one for configuration backup and firmware upgrade



### Mouse Included

Includes a mouse and does not require a keyboard

## TV-NVR104 Management



### Remote Access

Access the NVR over the internet



### Camera Setup

Auto-recognizes compatible TRENDnet cameras\* and works with most PoE network cameras



### Live View

Single camera and quad-view modes with variable-time auto-scan function



### Camera Management

For each camera, manage on screen display, image settings, PTZ functionality, motion detection, privacy masks, tamper detection, and video loss



### Video Recording

Record up to Full HD 1080p video at 30 fps in H.264 compression



### Recording Time

Over three weeks of recording per camera with a 4 TB HDD (sold separately) and 4x 1080p cameras at 30 fps with medium VBR

Over one month of recording per camera with a 4 TB HDD (sold separately) and 4x 720p cameras at 30 fps with medium VBR



### Scheduled Recording

Create weekly continuous and motion detection recording schedules for each camera with video overwrite when storage is full



### Advanced Playback

Advanced archived video playback with a quick reference timeline and calendar



### Video Export

Quickly export specific video types over a specified time



### Dynamic DNS Support

Support for dyn.com and NO-IP.org



### IPv6

IPv6 support



### ONVIF

ONVIF compliant

## Specifications

### Video Input

- 4 PoE channels

### Video Output

- HDMI and VGA display outputs
- Resolution: 1920 x 1080 (1080p), 1280 x 1024, 1280 x 720 (720p), 1024 x 758 @ 60Hz

### Audio

- Analog audio in/out (1.0 Vp-p, 1kΩ)

### Storage

- One 3.5" SATA I/II HDD or SSD up to 4 TB storage (sold separately)

### Network Standards

- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x
- IEEE 802.3af

### Device Interface

- 10/100 Mbps network port
- 4 x 10/100 Mbps PoE camera network ports
- 2 x USB 2.0 ports
- HDMI port
- VGA port
- Analog audio in port
- Analog audio out port
- Power port
- LED indicators (Power, Storage, and Network)
- Grounding point

### Network Protocol

- IPv4, IPv6, UDP, TCP, ICMP, ONVIF v2.2
- DHCP, NTP, DNS, DDNS, SMTP, FTP
- HTTP, UPnP, RTSP, RTP, RTCP

### Power

- Input: 100 – 240 V AC, 50/60 Hz, 1.5 A
- Output: 48 V DC, 1 A
- Consumption: 50 Watts (with HDD and Max. PoE PD)
- PoE power budget: 35 Watts

### Operating Temperature

- -10 - 55 °C (14 - 131 °F)

### Operating Humidity

- Max. 95% non-condensing

### Certifications

- CE
- FCC

### Dimensions

- 199 x 199 x 47 mm (7.8 x 7.8 x 1.8 in.)

### Weight

- 584 g (20.6 oz.)

### Management Interface

- Live view: Single camera or quad-view
- Camera management\*:
  - On screen display: camera name, date, week, and date format
  - Image quality: brightness, contrast, saturation, hue, mirror
  - PTZ: pan, tilt, zoom, focus, iris, preset points, pattern, cruise, patrol
  - Motion detection: define custom motion detection areas, motion sensitivity, and triggering channels
  - Privacy masks: define custom privacy mask areas
  - Video tamper detection: trigger actions if the viewing field darkens suddenly
  - Video loss detection: trigger actions if the setup video is lost
- Scheduled recording: continuous and motion detection
- Video recording: Record up to Full 1080p HD video
- Recording time\*\*\*: (A) 6.5 days of recording per camera: 4x cameras with continuous recording at 1280 x 960 at 30 fps; (B) 8.5 days of recording per camera: 4x cameras with continuous recording at 720p at 30 fps
- Holiday scheduling for custom recording schedules during observed holidays

- Advanced playback: playback multiple channels simultaneously and search video recordings with special event or tag
- Video export: tag, cut, and export video clips
- HDD: Encoded disk formatting, S.M.A.R.T. disk health monitoring and testing, bad sector detection, storage quota allocation to each video channel, recycle old recordings or send disk full warning to administrator by email
- USB external storage: firmware upgrade, import/export configuration file and logs, export recorded video files, search and playback videos directly from external storage
- Local live view settings: define screen layout and channel viewing sequence
- Alert messages: storage full, storage error, network disconnected, IP conflict, illegal login, and recording exceptions
- Supported dynamic DNS services: Dyn.com and NO-IP.com
- Management Setting: maximum 32 user accounts
- Traffic chart and statistics for network management
- IPv6 support
- ONVIF compliant

### Remote Viewing and Management

- User interface compatible with Internet Explorer® 9.0 or higher, Firefox® 13.0 or higher, Safari® 4.0 or higher, Chrome™ 24.0 or higher

### Warranty

- 2 year limited

### Package Contents

- TV-NVR104
- Network cable (1.8 m / 6 ft.)
- Optical mouse
- CD-ROM (User's Guide)
- Multi-Language Quick Installation Guide
- Power adapter (48 V DC, 1A)

\*Features applies only to integrated cameras. Please see the compatible camera list on <http://www.trendnet.com/info/TV-NVR104> for more detail.

\*\*Over three weeks of recording per camera with a 4 TB HDD (sold separately) and 4x 1080p cameras at 30 fps with medium VBR.

\*\*\*6.5 days of continuous video per camera with four cameras recording 1280 x 960 at 30 fps and set to medium VBR.

