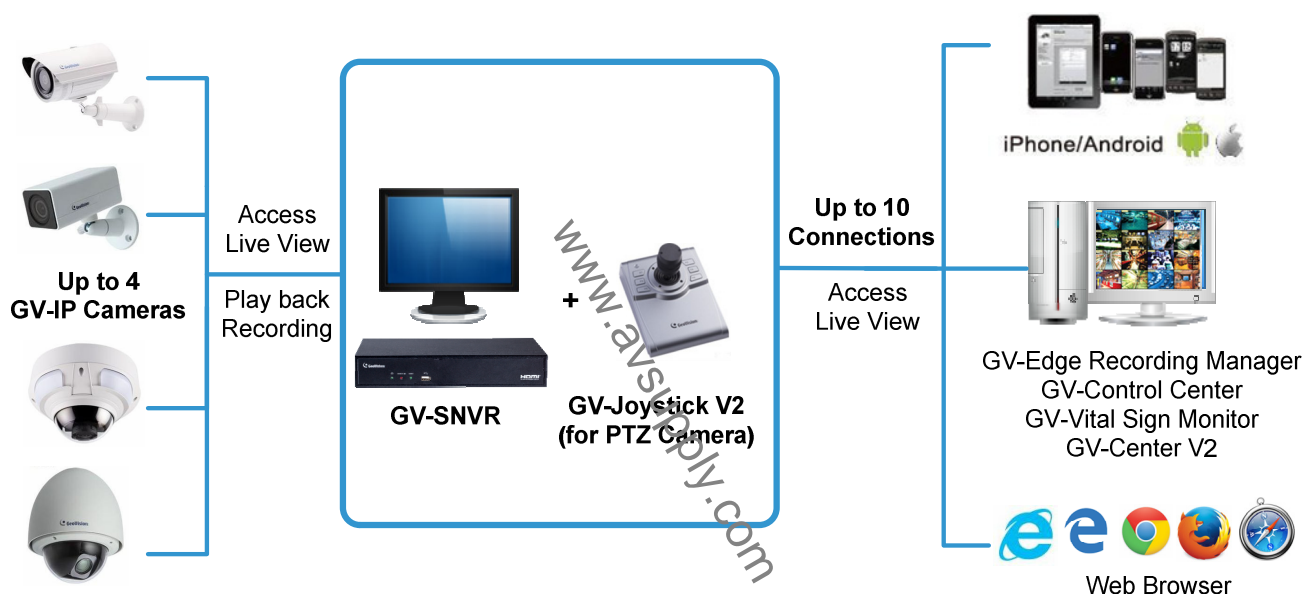## Introduction

The GV-SNVR0411 is an H.264/H.265 Linux-embedded Standalone Network Video Recorder which records video files directly to the internal hard drive, supporting up to 4 channels of GV-IP Cameras for network surveillance. GV-SNVR0411 has 4-port built-in PoE (IEEE 802.3af), functioning to carry network and power to IP cameras. Featuring with up to 4K resolution video output, GV-SNVR0411 eliminates the need for a separate PC to view and play back video from the unit. Its USB ports allow you to connect a USB flash drive to import or export system settings, update firmware, save snapshot files and back up video in AVI format.



## Features

- 4-Channel video recording
- Automatic search and set-up for IP cameras
- Support for third-party IP cameras through ONVIF and RTSP protocol
- Up to 3840 x 2160 resolution for each channel*
- Dual streams support
- Continuous, motion and scheduled recordings
- Timeline playback
- Multi-channel playback
- Display of HDD status and system temperature
- DST (Daylight Saving Time) support
- NTP (Network Time Protocol) support
- GeoVision DDNS server support
- E-mail notification for recording error and password retrieval
- Recording export
- Remote live view through Web browser
- Fisheye dewarping
- Support for GV-Video Server through RTSP protocol
- PTZ control using GV-Joystick or on-screen panel
- 4-Port PoE (IEEE 802.3af) for camera connection
- 4K HDMI video output
- 1 SATA HDD drawer (3.5") for up to 8 TB storage

- Smart device access (iOS and Android)
- Support for 13 languages

*The resolutions of Main Stream and Sub Stream both must meet the requirements noted under Specifications.*

## Specifications

**Hardware**

| System | | |
|---|---|---|
| OS | Embedded Linux | |
| No. of Drive Bay | 1 (3.5" HDD) | |
| Power Source | Input: AC 100 ~ 230V, 50 ~ 60 Hz<br>Output: DC 52V, 1.38A, Max. 72 W | |
| Connectors | Megabit Ethernet | 1 port for WAN, RJ-45 10/100 Mbps,<br>4 ports for LAN, RJ-45 10/100 Mbps, PoE (IEEE 802.3af) |
| | Video Output | HDMI |
| | Audio | N/A |
| | USB 2.0 | Front: 1 port, Rear: 2 ports |
| LED Indicator | 3 LEDs: Power, HDD Error, HDD Status | |
| Operating Temperature | 0°C ~ 50°C (32°F ~ 122°F) | |
| Humidity | 0% ~ 90% RH (non-condensing) | |
| Dimensions (L x W x H) | 264 x 160 x 44 mm (10.39 x 6.29 x 1.73") | |
| Net Weight | 1.0 kg (2.20 lb) | |
| Regulatory | FCC , CE , RCM , RoHS compliant | |

**Software**

| Video and Audio | |
|---|---|
| Video Compression | H.264, H.265 |
| Video Stream | Dual streams from H.264, H265 |
| Video Output | 4K / 1080p (HDMI) |
| Display Division | 1 / 4 |
| Audio Compression | G.711 |
| Audio Support | Yes |
| Two-Way Audio | N/A |

| Supported Video Resolution | Main Stream | Sub Stream |
|---|---|---|
| Firmware Version | V2.40 | |
| 4:3 | 2592 x 1944 | 1024 x 768, 960 x 720, 640 x 480, 320 x 240 |
| | 2560 x 2048 | |
| | 2560 x 1920 | |
| | 2048 x 1536 | |
| | 2048 x 1520 | |
| | 1600 x 1200 | |
| | 1280 x 960 | |
| | 640 x 480 | 640 x 480, 320 x 240 |
| | 320 x 240 | 320 x 240 |
| 16 : 9 (Default) | 3840 x 2160 | 1280 x 720, 640 x 360, 448 x 252 |
| | 2592 x 1520 | |
| | 2560 x 1440 | |
| | 2304 x 1296 | |
| | 1920 x 1080 | |
| | 1280 x 720 | |
| | 640 x 360 | 640 x 360, 448 x 252 |
| | 448 x 252 | 448 x 252 |
| 5:4 | 1280 x 1024 | 1280 x 1024, 640 x 512, 320 x 256 |
| | 640 x 512 | 640 x 512, 320 x 256 |
| | 320 x 256 | 320 x 256 |
| 20 : 19<br>(Fisheye Camera Only) | 2176 x 2048 | 640 x 608 |
| | 2048 x 1944 | |
| | 1792 x 1696 | |
| | 1440 x 1376 | |
| | 1280 x 1200 | |

| **Operation** | |
|---|---|
| Recording Bandwidth | Max. 40 Mbps for 4 channels |
| Recording Mode | Round the clock / Motion Detection / Schedule Recording |
| Pre Recording | 1 ~ 10 sec. |
| Post Recording | 30 sec. |
| Instant Playback | 3 min. |
| Backup Type | USB flash drive of FAT32 format |

**Note:** For backup efficiency, it is suggested to use the external hard drive to back up recordings.

| **Management** | |
|---|---|
| Language | Czech / English / French / German / Hungarian / Italian / Japanese / Portuguese / Russian / Slovakian / Slovenian / Spanish / Traditional Chinese |
| Firmware upgrade | Upgrade through OSD or GV-IP Device Utility |

| **Network** | |
|---|---|
| Network Type | LAN, WAN, Internet |
| Protocol | DHCP, DynDNS, HTTP, NTP, ONVIF, RTSP, TCP, UDP |

| **System Monitoring and Recovery** | |
|---|---|
| Power Restoration | Automatic restart after power outage |
| Monitoring | Software Watchdog |

| **Remote Viewing** | |
|---|---|
| Live View | Max. 10 channels connection |
| Monitoring Environment | Brower (IE, Chrome, Firefox, Safari, Edge), Mobile app |
| Smart Device Access | GV-Eye for iOS and Android |
| Access from Web Browser | Live View, Image Snapshot, Picture in Picture, Picture and Picture, Digital PTZ |

**Note:**

1.  GV-SNVR0411 only supports PoE (IEEE 802.3af) for camera connection. If your camera requires power supply above 15.4W, be sure to power on your camera with the compatible PoE switch or its power adapter.
2.  Product design and specifications are subject to change without notice.

## Accessories

| GV-POE Switch | The GV-POE Switch is designed to provide power along with network connection for IP devices. The GV-POE Switch is available in various models with different numbers and types of ports. |
|---|---|
| GV-Joystick V2 | The GV-Joystick V2 facilitates the PTZ camera control. It can be plugged into the GV-SNVR for independent use to empower the operation of PTZ cameras. |

## Requirements

### Supported GV-IP Cameras

- GV-Target Series IP Camera (Firmware V1.0 or later)
- GV-SD220/220-S (Firmware V1.02 or later)
- All the other GV-IP Cameras (Firmware V2.11 or later) EXCEPT the models below:
  - GV-BX110
  - GV-BL110
  - GV-FER12203
  - GV-MFD110
  - GV-PT110
  - GV-PTZ010D
  - GV-SD010

**Note:**
1. For supported IP cameras, the resolutions of Main Stream and Sub Stream both must meet the requirements noted under Specifications.
2. The GV-SNVR supports the recording frame rate of up to 30 fps only.
3. The GV-SNVR0411 supports the recording bandwidth of up to 40 Mbps only.
4. GV-SNVR0411 also supports EVS-ABD1300 / ABL1300 / ADR1300 and UVS-ABD1300 / ABL1300 / ADR1300.
5. PTZ cameras through ONVIF protocol are not supported.

### Supported GeoVision Application

- GV-Edge Recording Manager (Windows Version V1.2.0.0 or later)
- GV-Control Center (V3.4.0.0 or later)
- GV-Center V2 (V15.10 or later)
- GV-Vital Sign Monitor (V15.10 or later)
- GV-Eye (V2.3 or later)

**Recommended Hard Disks**

GV-SNVR00411 supports 1 SATA HDD (3.5") with up to 8 TB capacities. For system efficiency, it is recommended to use the enterprise-level hard disk drives instead of desktop-level or green HDD. For tested hard disk drives, see Appendix in GV-SNVR User's Manual.

**Note:** The GV-SNVR does not support the 2.5" SATA HDD.

**Supported Web Browsers**

- Internet Explorer 8 or later
- Google Chrome
- Mozilla Firefox
- Safari
- Microsoft Edge

# Overview

**Front Panel**



**Back Panel**



# Packing List

1. GV-SNVR0411
2. AC power cord
3. AC/DC adapter (DC 52V, .1.38 A, 72 W)
4. Data cable
5. HDD power cable
6. Screw x 4 (for HDD)
7. Rubber foot x 4 (for HDD)
8. USB mouse
9. Download Guide
10. Warranty card