## GV-SNVR1612



## Introduction

GV-SNVR1612 is a standalone network video recorder with Linux embedded that records video files directly to the internal hard drive and supports up to 16 IP camera channels for video surveillance. GV-SNVR1612 has built in 16 PoE (IEEE 802.3af) ports that simultaneously provide network and power to IP cameras. Thanks to its up to 4K resolution video output, GV-SNVR1612 eliminates the need of a separate PC to view and play back video from the unit. It has USB ports that can be used to import or export system settings, update firmware, store snapshot files and back up videos.


## Features

- 16-channel video recording
- Up to $3840 \times 2160$ resolution for each channel
- Dual stream support
- 16-Port PoE (IEEE 802.3af) for camera connection
- 4K HDMI / 1080p VGA video output
- 2 SATA HDD drawers (3.5") for up to 20 TB storage
- Two-way audio
- 8 sensor inputs and 1 alarm output
- Automatic search and setup for IP cameras
- Support for third-party IP cameras through ONVIF and RTSP protocol
- Continuous, motion, alarm and scheduled recordings
- Timeline playback
- Multi-channel playback
- Display of HDD status and 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
- Support for GV-Video Server through RTSP protocol
- PTZ control using on-screen panel
- Smart device access (iOS and Android)
- Support for 14 languages


| Operation |  |  |
| :---: | :---: | :---: |
| Recording Bandwidth |  | Max. 96 Mbps / 6 Mbps for each channel (main stream + sub stream) |
| Recording Mode |  | Round the clock, Motion Detection, Schedule Recording, Alarm-triggered Recording |
| Pre Recording |  | $1 \sim 5 \mathrm{sec}$ |
| Post Recording |  | 30 sec |
| Instant Playback |  | 3 min |
| Backup Type |  | USB flash drive of FAT32 format |
| Management |  |  |
| Language |  | Czech, English, Finnish, French, German, Hungarian, Italian, Japanese, Portuguese, Russian, Slovakian, Slovenian, Spanish, Traditional Chinese |
| Firmware upgrade |  | Upgrade through OSD, Web 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 Monitoring |  |  |
| Live View |  | Max. 34 channels connection |
| Playback | PC-Based Software | Max. 16 channels connection |
|  | Mobile App | Max. 1 channel connection <br> *Up to 1 PC-based software or Mobile App can be connected to GV-SNVR for remote playback at a time. |
| Monitoring Environment |  | IE browser, SNVR Viewer for non-IE browsers, Mobile app |
| Smart Device Access |  | GV-Eye for iOS and Android |

## Note:

1. GV-SNVR1612 only supports PoE (IEEE 802.3af). If your camera requires power supply above 10 W , be sure to power your camera with the compatible PoE switch or its power adapter.
2. Fisheye dewarping is currently not supported by GV-SNVR1612.
3. For backup efficiency, it is recommended to use external hard drive(s) to back up your recordings.
4. Product design and specifications are subject to change without notice.

## Requirements

## Supported GV-IP Cameras

- GV-Target Series IP Camera (Firmware V1.0 or later)
- GV-SD220/220-S (Firmware V1.02 or later)
- GV-UNFE2503 / UNP2500 (Firmware V2.11 or later)
- All other GV-IP Cameras EXCEPT for the models below:
- GV-BX110
- GV-BL110
- GV-FE520 / 521
- GV-FER12203 / 12700
- GV-MFD110
- GV-PT110
- GV-PTZ010D
- GV-SD010
- GV-TMEB5800


## Note:

1. Main Stream and Sub Stream resolutions for compatible IP cameras must both fulfill the specifications listed under Specifications.
2. GV-SNVR only supports recording frame rates of up to 30 fps .
3. GV-SNVR1612 only supports recording bandwidths of up to 96 Mbps , with each channel not exceeding 6 Mbps (main stream + sub stream).
4. Audio is not supported for GV-BX2802 / BX4802 / PBL8800 / PDR8800.

## Supported GeoVision Application

- GV-Center V2 (V18.2 + patch or later)
- GV-Vital Sign Monitor (V16.11 or later)
- GV-Eye (V2.5.1 or later)
- GV-Cloud Center (V1.0 or later)


## Recommended Hard Disks

GV-SNVR1612 supports 2 SATA HDD (3.5") with up to 20 TB of storage capacity. For system efficiency, it is recommended to use enterprise-level hard disk drives instead of desktop-level or green HDD. For tested hard disk drives, see GV-SNVR HDD Compatibility Chart.

Note: GV-SNVR does not support 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-SNVR1612
2. Power adapter
3. AC power cord
4. SATA cable $\times 2$
5. HDD power cable $\times 2$
6. Screw $\times 8$ (for HDD)
7. USB mouse
8. Foam foot
9. Download Guide

## Accessories

## GV-POE Switch

GV-POE Switch is designed to provide power along with network connection for IP devices. It is available in various models with different numbers and types of ports.

