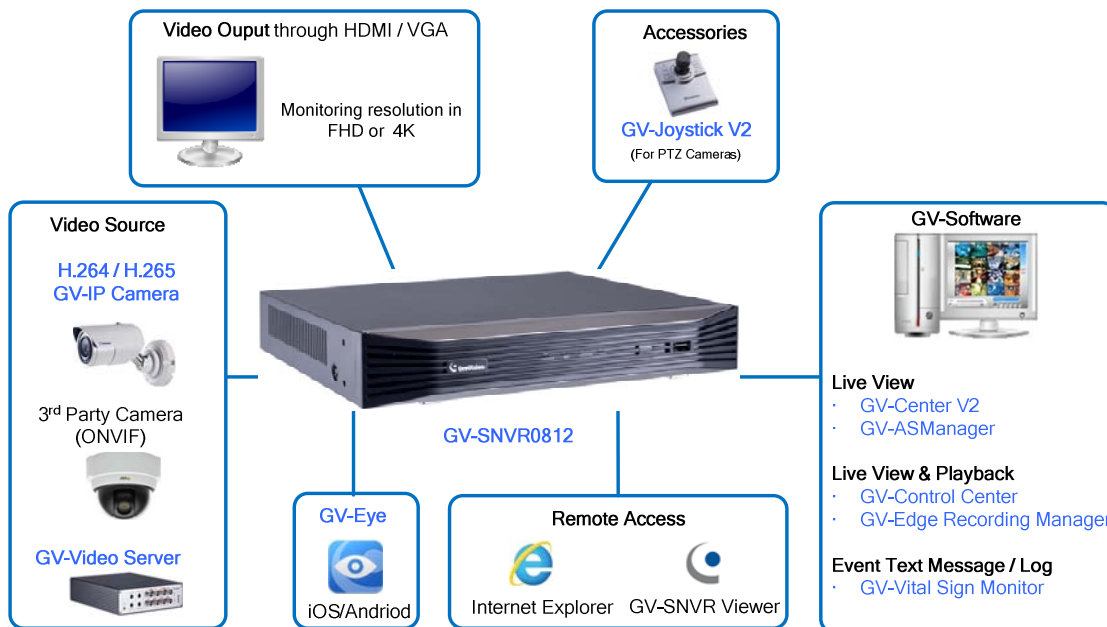


GV-SNVR0812



Introduction

The GV-SNVR0812 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 8 channels of GV-IP devices for network surveillance. GV-SNVR0812 has 8 built-in PoE+ (IEEE 802.3at) ports, functioning to carry network and power to the connected IP devices. Featuring up to 4K resolution video output, GV-SNVR0812 eliminates the need of a separate PC to view and play back videos. Its USB ports allow you to insert USB flash drive to import or export system settings, update firmware, save snapshot files as well as back up video in AVI format.



Features

- 8-Channel video recording
- Up to 3840 x 2160 resolution for each channel*
- Dual stream support
- 8-Port PoE+ (IEEE 802.3at) for camera connection
- 4K (HDMI) / 1080P (HDMI/VGA) video output
- 2-way Audio
- 1 SATA HDD drawer (3.5") for up to 10 TB storage
- Automatic search and setup of IP devices
- Support for third-party IP devices through ONVIF and RTSP protocol
- Continuous, motion, scheduled and alarm-triggered recording
- 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 (up to 2176 x 2048 for 1 channel at once)
- Support for GV-Video Server through RTSP protocol
- PTZ control using GV-Joystick or on-screen panel
- Smart device access (iOS and Android)
- Support for 14 languages

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

Overview

Front Panel



Back Panel



Specifications

Hardware

| System | | |
|------------------------|------------------|---|
| OS | | Embedded Linux |
| No. of Drive Bay | | 1 (3.5" HDD) up to 10 TB |
| Power Source | | Input: AC 100 ~ 240V, 50 ~ 60 Hz Output: DC 52V, 1.8A, Max. 100W PoE: Max. 100W |
| Connectors | Megabit Ethernet | 1 port for WAN, RJ-45 10/100 Mbps, 8 ports for LAN, RJ-45 10/100 Mbps, PoE+ (IEEE 802.3at) |
| | Video Output | 4K (HDMI) / 1080p (HDMI / VGA) |
| | Audio | 1-Ch, RCA (2.0 Vp-p, 1 k Ω) |
| | USB 2.0 | Front: USB 2.0 Port x 1; Rear: USB 2.0 Port x 2 |
| | I/O | 4 Inputs, 1 Output |
| LED Indicator | NVR | 4 LEDs: Power, Network, HDD Fail, HDD Activity |
| | PoE | 8 LEDs for each port |
| Operating Temperature | | 0°C ~ 50°C (32°F ~ 122°F) |
| Humidity | | 0% ~ 90% RH (non-condensing) |
| Dimensions (L x W x H) | | 260 x 240 x 44 mm (10.24 x 9.45 x 1.73") |
| Net Weight | | 1.12 kg (2.47 lb) |
| Regulatory | | FCC, CE, BSMI, LVD, 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 / VGA) |
| Display Division | | 1 / 4 / 6 / 8 / 9 |
| Audio Compression | | G.711 |
| Audio Support | | Yes |
| Two-Way Audio | | Yes |
| Supported Video Resolution | Main Stream | Sub Stream |
| 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 | |
| 5:4 | 448 x 252 | 448 x 252 |
| | 1280 x 1024 | 1280 x 1024, 640 x 512, 320 x 256 |
| | 640 x 512 | 640 x 512, 320 x 256 |
| 20 : 19 (Fisheye Camera Only) | 320 x 256 | 320 x 256 |
| | 2176 x 2048 | 640 x 608 |
| | 2048 x 1944 | |
| | 1792 x 1696 | |
| 1440 x 1376 | | |
| | 1280 x 1200 | |

Operation

| | |
|---------------------|---|
| Recording Bandwidth | Max. 48 Mbps for 8 channels |
| Recording Mode | Round the clock / Motion Detection / Schedule Recording / Alarm-triggered Recording |
| Pre Recording | 1 ~ 5 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 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. 18 channels connection |
| Monitoring Environment | IE browser, SNVR Viewer for non-IE browsers, Mobile app |
| Smart Device Access | GV-Eye for iOS and Android |
| Access from IE browser | Live View, Image Snapshot, Picture in Picture, Picture and Picture, Digital PTZ |

Note:

1. GV-SNVR0812 only supports PoE+ (IEEE 802.3at) for camera connection. If your camera requires power supply above 30W, be sure to power your camera with the compatible PoE switch or its power adapter.
2. For backup efficiency, it is recommended to use external hard drive(s) to back up your recordings.
3. 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

Note:

1. For supported IP cameras, the resolutions of Main Stream and Sub Stream both must meet the requirements noted under Specifications.
2. GV-SNVR only supports recording frame rates of up to 30 fps.
3. GV-SNVR0812 only supports recording bandwidths of up to 48 Mbps.
4. GV-SNVR0812 also supports EVS-ABD1300 / ABL1300 / ADR1300 and UVS-ABD1300 / ABL1300 / ADR1300.

Supported GeoVision Application

- GV-Edge Recording Manager (Windows Version V1.4.0.0 or later)
- GV-Control Center (V3.6.0 or later)
- GV-Center V2 (V17.1 or later)
- GV-Vital Sign Monitor (V17.1 or later)
- GV-Eye (for iOS V2.7.2 or later)
- GV-Cloud Center (V1.0 or later) + GV-Notify (for iOS / Android V1.3.0 or later)

Recommended Hard Disks

GV-SNVR0812 supports 1 SATA HDD (3.5") for up to 10 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 Appendix in GV-SNVR User's Manual.

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

Supported Web Browsers

- Internet Explorer 10 or later
- Google Chrome
- Mozilla Firefox
- Safari
- Microsoft Edge

Packing List

1. GV-SNVR0812
2. AC power cord
3. AC/DC adapter (DC 52V, 1.8A, 100W)
4. SATA cable
5. HDD power cable
6. Screw x 4 (for HDD)
7. Foam foot
8. USB mouse
9. Rack mount kit (2 L-shaped brackets + 4 screws)
10. Download Guide
11. Warranty card

Accessories

| | |
|----------------|---|
| GV-Joystick V2 | GV-Joystick V2 facilitates PTZ camera controls. It can be plugged into the GV-SNVR for independent use to empower the operation of PTZ cameras. |
| 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. |