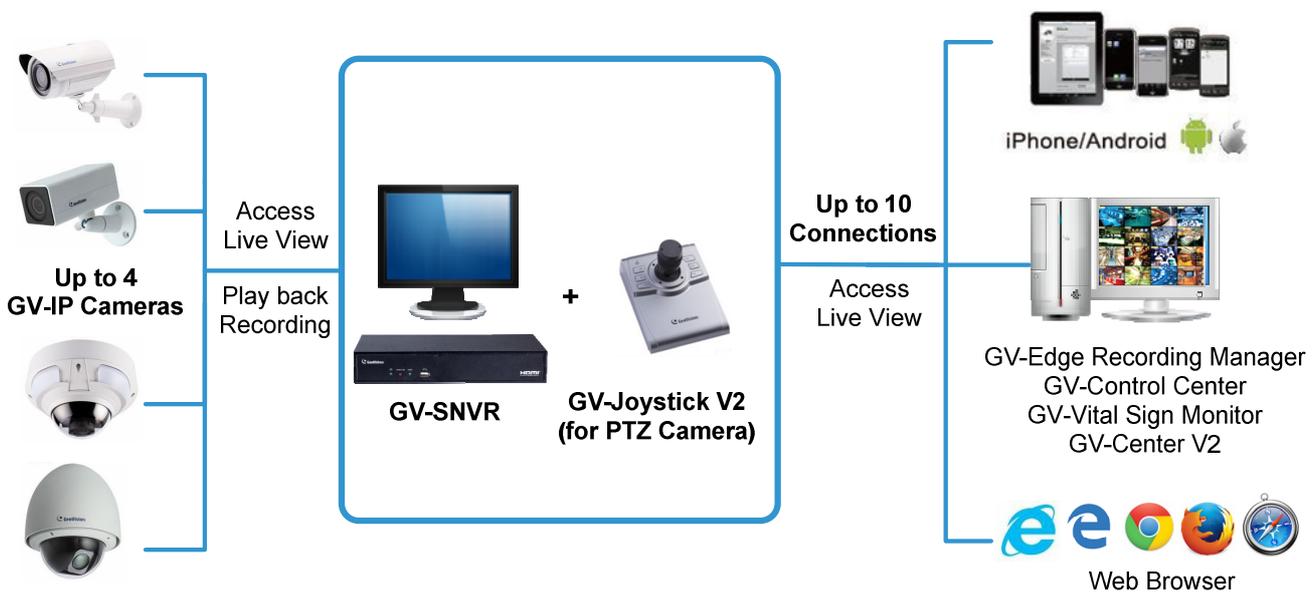# GV-SNVR0411

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

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- 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 Output: DC 52V, 1.38A, Max. 72 W	
Connectors	Megabit Ethernet	1 port for WAN, RJ-45 10/100 Mbps, 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 (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.

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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