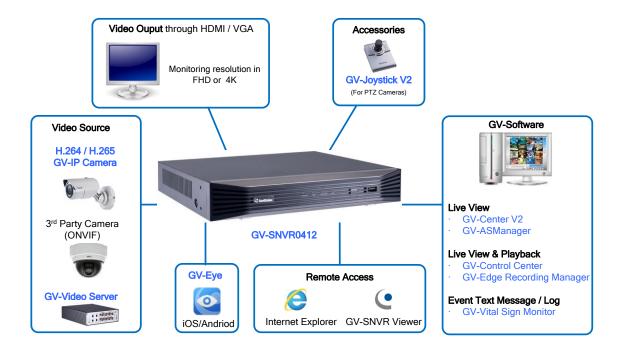


GV-SNVR0412



Introduction

GV-SNVR0412 is a standalone network video recorder with Linux embedded that records video files directly to the internal hard drive and supports up to 4 IP camera channels for video surveillance. GV-SNVR0412 has built in 4 PoE+ (IEEE 802.3at) ports that simultaneously provide network and power to IP cameras. Thanks to its up to 4K resolution video output, GV-SNVR0412 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

- 4-channel video recording
- Up to 3840 x 2160 resolution for each channel
- Dual stream support
- 4-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

GV-SNVR0412

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

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- 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



Overview

Front Panel



Back Panel



Specifications

Hardware

Tidiumatic				
System				
OS		Embedded Linux		
No. of Drive Bay		1 (3.5" HDD) up to 10 TB		
Power Source		Input: AC 100 ~ 240 V, 50 ~ 60 Hz		
		Output: DC 48 V, 1.35 A, Max. 65 W		
		PoE: Max. 54 W		
Connectors	Megabit	1 port for WAN, RJ-45 10/100 Mbps,		
	Ethernet	4 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		
	1/0	4 Inputs, 1 Output		
LED Indicator	NVR	4 LEDs: Power, Network, HDD Fail, HDD Activity		
	PoE	4 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)		
Certification		FCC, CE, BSMI, LVD, RoHS, UL 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)			
Audio Compression	G.711			
Audio Support	Yes			
Two-Way Audio	Yes			
Decoding				
Form - Date	8 MP for 1 division, up to 20 fps/CH			
Frame Rate	2 MP for 4 divisions, up to 30 fps/CH, 120 fps in total			
Playback	Max. 4-ch playback			

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Supported Video Resolu	ition Main Stream	Sub Stream		
	2592 x 1944			
	2560 x 2048			
	2560 x 1920			
	2048 x 1536	1024 x 768, 960 x 720, 640 x 480, 320 x 240		
4:3	2048 x 1520			
	1600 x 1200			
	1280 x 960			
	640 x 480	640 x 480, 320 x 240		
	320 x 240	320 x 240		
	3840 x 2160			
	2592 x 1520			
	2560 x 1440	4000 700 640 050 440 070		
	2304 x 1296	1280 x 720, 640 x 360, 448 x 252		
16 : 9 (Default)	1920 x 1080			
	1280 x 720			
	640 x 360	640 x 360, 448 x 252		
	448 x 252	448 x 252		
	1280 x 1024	1280 x 1024, 640 x 512, 320 x 256		
5:4	640 x 512	640 x 512, 320 x 256		
	320 x 256	320 x 256		
	2176 x 2048			
	2048 x 1944			
20:19	1792 x 1696	640 x 608		
(Fisheye Camera Only)	1440 x 1376			
	1280 x 1200			
Operation				
Recording Bandwidth	Max. 24 Mbps / 6 Mb	Max. 24 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 ~ 5 sec			
Post Recording	30 sec			
Instant Playback	3 min			
Backup Type	USB flash drive of FAT	USB flash drive of FAT32 format		
Display Divisions	1/4			
Vlanagement	,			
	Czech, English, Finnis	Czech, English, Finnish, French, German, Hungarian, Italian, Japanese, Portuguese, Russian,		
Language		Slovakian, Slovenian, Spanish, Traditional Chinese		
Firmware upgrade	Upgrade through OSI	Upgrade through OSD or GV-IP Device Utility		
Network				
Network Type	LAN, WAN, Internet	LAN, WAN, Internet		
Protocol		DHCP, DynDNS, HTTP, NTP, ONVIF, RTSP, TCP, UDP		
System Monitoring and				
Power Restoration		Automatic restart after power outage		
Monitoring	Software Watchdog	Software Watchdog		
Remote Monitoring				
Live View	Max. 10 channels con	Max. 10 channels connection		
	Based Max. 8 channels conr	Max. 8 channels connection		
Mot	oile App Max. 2 channels conr	Max. 2 channels connection		
Monitoring Environmen		IE browser, SNVR Viewer for non-IE browsers, Mobile app		
Smart Device Access		GV-Eye for iOS and Android		
	SV Lyc for 105 and Al			

Note:

- 1. GV-SNVR0412 only supports PoE+ (IEEE 802.3at). 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.

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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-BL110
 - o GV-BX110
 - o GV-FE520 / 521
 - o GV-FER12203 / 12700
 - o GV-MFD110
 - o GV-PT110
 - o GV-PTZ010D
 - o GV-SD010
 - o 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-SNVR0412 only supports recording bandwidths of up to 24 Mbps, with each channel not exceeding 6 Mbps (main stream + sub stream).
- 4. GV-SNVR0412 also supports EVS-ABD1300 / ABL1300 / ADR1300 and UVS-ABD1300 / ABL1300 / ADR1300.
- 5. Audio is not supported for GV-BX2802 / BX4802 / PBL8800 / PDR8800.

Supported GeoVision Application

- GV-Edge Recording Manager (Windows Version V1.4.0.3 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 / Android 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-SNVR00412 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 GV-SNVR HDD Compatibility Chart.

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

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Packing List

- 1. GV-SNVR0412
- 2. AC power cord
- 3. AC/DC adapter (DC 48 V, 1.35 A, 65 W)
- 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-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.
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.

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