

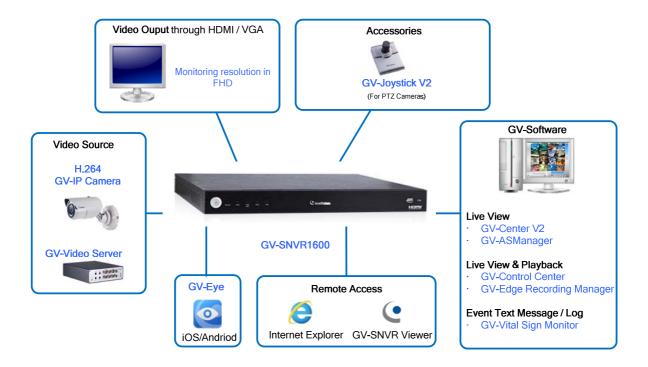
GV-SNVR1600



Introduction

The GV-SNVR1600 is a Linux-embedded Standalone Network Video Recorder which records video files directly to the internal hard drive, supporting up to 16 channels of GV-IP Cameras for network surveillance. With the feature of a Full HD HDMI video output, the GV-SNVR eliminates the need for a separate PC to view and play back video from the unit. Its five 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.

Optionally, you can connect a GV-Joystick V2 to control PTZ cameras. Moreover, you can remotely access the live view through mobile devices or Web browsers with advanced video features.



Features

- 16-Channel video recording
- Automatic search and set-up for IP cameras
- Up to 2560 x 1944 for the first channel
- Up to 1920 x 1080 resolution per 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
- PTZ control using GV-Joystick V2 or on-screen panel
- 1080p HDMI video output
- 4 SATA HDD drawer (3.5") for up to 16 TB storage
- Smart device access (iOS and Android)
- Support for 9 languages

^{*}The resolutions of stream 1 and 2 both must meet the requirements noted under Specifications.



Specifications

Hardware				
System				
OS		Embedded Linux		
No. of Drive Bay		4 (3.5" HDD)		
Power Source		Input: AC 100 ~ 230V, 50 ~ 60 Hz		
		Output: Max. 100 W		
	Gigabit	2 ports, RJ-45		
Connectors	Ethernet	Note: When 2 Ethernet ports are used together, one is LAN port and the other is WAN port.		
	Video Output	HDMI and D-Sub		
	Audio	2 stereo jacks for a speaker and a headphone		
	USB 2.0	Front: 1 port, Rear: 4 ports		
LED Indicator		5 LEDs: Power, LAN, WAN, HDD Status, HDD Error		
Operating Temperature		0°C ~ 50°C (32°F ~ 122°F)		
Humidity		0% ~ 80% RH (non-condensing)		
Dimensions (L x W x H)		424.6 x 445 x 43.8 mm (16.72 x 17.52 x 1.72")		
Net Weight		4.1 kg (9.04 lb)		
Regulatory		FCC , CE , RCM , RoHS compliant		
Software				
Video and Audio				
Video Compression		H.264		
Video Stream		Dual streams from H.264		
Video Output		1080p (HDMI / VGA)		
Display Division		1/4/9/16		
Audio Compression		G.711		
Audio Support		Yes		
Two-Way Audio		N/A		
Supported Video Resolution		Main Stream	Sub Stream	
Firmware Version		V1.23		
		2560 x 1920		
		2048 x 1536		
		2048 x 1520	640 400 220 240	
	CH1	1600 x 1200	640 x 480, 320 x 240	
		1280 x 960		
4:3		640 x 480		
		320 x 240	320 x 240	
		1600 x 1200		
	CH2 ~ CH16	1280 x 960	640 x 480, 320 x 240	
		640 x 480		
		320 x 240	320 x 240	
16 : 9 (Default)		2592 x 1520	020 / 2 / 0	
		2560 x 1440		
	CH1	2304 x 1296		
		1920 x 1080	640 x 360, 448 x 252	
		1280 x 720		
		640 x 360		
		448 x 252	448 x 252	
	CH2 ~ CH16	1920 x 1080	140 A 232	
		1280 x 720	640 x 360, 448 x 252	
		640 x 360	040 x 300, 440 x 232	
		448 x 252	448 x 252	
		770 A 2J2	140 A ZJZ	



Supported Video F	Resolution	Main Stream	Sub Stream	
	CH1 ~ CH16	1280 x 1024	640 v 542 220 v 256	
5:4		640 x 512	640 x 512, 320 x 256	
		320 x 256	320 x 256	
20 : 19 (Fisheye Camera Only)	CH1	2048 x 1944		
		1792 x 1696	640 x 608	
		1440 x 1376	040 X 008	
		1280 x 1200		
Operation				
Recording Bandwidth		Max. 100 Mbps for 16 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 su	ggested to use the external hard drive to	back up recordings.	
Management				
Language		English / Traditional Chinese / Spanish / Russian / Portuguese / French / German / Italian /		
		Japanese CV ID D. i. HVIII		
Firmware upgrade		Upgrade through OSD or GV-IP Device Utility		
Network				
Network Type		LAN, WAN, Internet		
Protocol		DHCP, DynDNS, HTTP, NTP, TCP, UDP		
System Monitoring	-	A. A		
Power Restoration		Automatic restart after power outage		
Monitoring		Software Watchdog		
Remote Viewing		Mary 24 sharrada sangartin		
Live View		Max. 34 channels connection		
Monitoring Environment		IE, Chrome, Firefox and mobile devices		
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: Product design and specifications are subject to change without notice.

Accessories

GV-Joystick V2	The GV-Joystick V2 facilitates the PTZ camera control. It can be plugged into the GV-SNVR for
GV-JOYSLICK VZ	independent use to empower the operation of PTZ cameras.
CV DOE Switch	The GV-POE Switch is designed to provide power along with network connection for IP devices.
GV-POE Switch	The GV-POE Switch is available in various models with different numbers and types of ports.
Slide Rail Kit	The Slide Rail Kit is used to mount a rail for the GV-SNVR1600 in a 19" cabinet.



Requirements

Supported GV-IP Cameras

- GV-Target Series IP Cameras (Firmware V1.0 or later)
- GV-SD220/220-S (Firmware V1.02 or later)
- GV-UNFE2503 / UNP2500 (Firmware V2.11 or alter)
- All other GV-IP Cameras EXCEPT for the models below:
 - o GV-ABD1300
 - o GV-ABL Series / ADR Series / AVD Series / EBD Series / TBL Series / TDR Series / TVD Series
 - o GV-BX110 / 12201
 - o GV-BL110
 - o GV-EBL2101 / 2111 / 3101
 - o GV-FD8700-FR
 - o GV-FER12203 / 12700
 - GV-Fisheye Cameras (conditionally supported) *
 - o GV-MFD110
 - o GV-PT110
 - o GV-PTZ010D
 - o GV-SD010 / 200 / 200-S / 2301 / 2322-IR / 2411 / 2722-IR / 3732-IR
 - o GV-VD8700
 - o GV-VR360

Note:

- 1. The GV-SNVR supports the recording frame rate of up to 30 fps only.
- 2. The GV-SNVR 1600 supports the recording bandwidth of up to 100 Mbps only.
- 3. GV-SNVR1600 can only connect to Fisheye Cameras, except for GV-FER12203 / 12700, via **channel 1** and does not support fisheye dewarping (*).
- 4. For supported IP cameras, the resolutions of stream 1 and 2 both must meet the requirements noted under Specifications.

Supported GeoVision Application

- GV-Edge Recording Manager (Windows Version V1.1.0.0 or later)
- GV-Control Center (V3.3.0.0 or later)
- GV-Center V2 (V15.10 or later)
- GV-Vital Sign Monitor (V15.10 or later)
- GV-Eye (V2.0 or later)

Recommended Hard Disks

GV-SNVR1600 supports 4 SATA HDD (3.5") with total up to 16 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 33.0 or later
- Mozilla Firefox 28.0 or later



Overview

Front Panel



Back Panel



Packing List

GV-SNVR01600 Package

- 1. GV-SNVR1600
- 2. AC Power Cord
- 3. SATA Cable x 4
- 4. HDD Mounting Bracket Kit (4 pairs and 32 screws included)
- 5. Rack Mount Kit (2 L-shaped brackets and 6 screws included)
- 6. Rubber Foot x 4
- 7. USB Mouse
- 8. Download Guide
- 9. Quick Start Guide
- 10. Warranty Card

