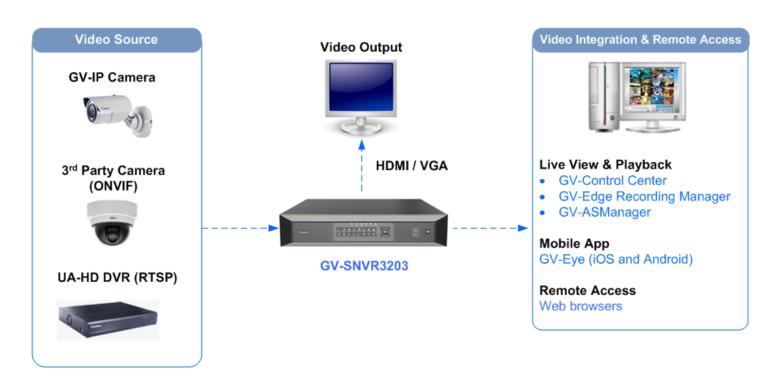


GV-SNVR3203



Introduction

GV-SNVR3203 is a standalone network video recorder with Linux embedded that records video files directly to the internal hard drive and supports up to 32 IP camera channels for video surveillance. Thanks to its up to 4K resolution video output, GV-SNVR3203 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

- 32-channel video recording
- Up to 4000 x 3000 resolution for each channel
- Dual stream support
- Triple display from 3 video outputs with distinct layouts: one 4K (HDMI), two 1080p (HDMI / VGA)
- 4 SATA HDD drawers (3.5") for up to 80 TB storage
- Two-way audio
- 16 sensor inputs and 4 alarm outputs
- 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
- Recording export
- Remote live view through Web browser
- Smart device access (iOS and Android)
- Support for 12 languages

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Specifications

Hardware

Hardware				
System				
OS		Embedded Linux		
No. of Drive Bay		4 (3.5" HDD), up to 80 TB		
		*See the <i>Recommended Hard Disks</i> section below for details.		
Power Source		Input: AC 100 ~ 240V, 50 ~ 60 Hz		
	Gigabit Ethernet	2 ports, RJ-45 10/100/1000 Mbps		
	Video Output	HDMI output ports x 2, VGA output port x 1		
	Audio	RCA, Audio In/Out		
Connectors	USB	Front: USB 2.0 x 2 ports, Rear: USB 3.0 x 1 port		
	RS-485	Not functional		
	I/O Terminal Block	16 inputs, 4 outputs, DC 12V out (1A)		
LED Indicators		6 LEDs: RUN, NET, GUARD, HD, ALM, CLOUD (not functional)		
Operating Temperature		-10°C ~ 55°C (14°F ~ 131°F)		
		0% ~ 90% RH (non-condensing)		
Humidity Dimensions (L. v. W. v. H.)		442 mm × 426 mm × 89 mm (17.4" × 16.8" × 3.5")		
Dimensions (L x W x H)		5.7 kg (12.57 lb)		
Net Weight				
Certification /ideo and Audio		FCC, CE, BSMI, RoHS, UL compliant		
		H 264 H 265		
Video Compress	SION	H.264, H.265		
Video Stream		Dual streams from H.264, H265		
Video Output		4K (HDMI), 1080p (HDMI / VGA),		
		*Up to three video outputs with distinct user-defined layouts are supported, subject to		
		the SNVR's maximum channel number and frame rate.		
Audio Compression		G.711		
Audio Support		Yes		
Two-Way Audio)	Yes		
Disk Array				
Array Type		RAID 1, 5		
nterface				
	VGA Output	1 port (1920 x 1080p / 60 Hz, 1920 x 1080p / 50 Hz, 1600 x 1200 / 60 Hz, 1280 x 1024 / 60 Hz, 1280 x 720 / 60 Hz, 1024 x 768 / 60 Hz)		
Monitors		2 ports (3840 x 2160 / 30 Hz, 1920 x 1080p / 60 Hz, 1920 x 1080p / 50 Hz, 1600 x 1200		
	HDMI Output	60 Hz, 1280 x 1024 / 60 Hz, 1280 x 720 / 60 Hz, 1024 x 768 / 60 Hz)		
		*HDMI audio output is not supported		
Decoding		TIDINI dudio output is not supported		
Decouning		12 MP: up to 30 fps/CH, 60 fps in total (2 CH max.)		
Frame Rate		8 MP: up to 30 fps/CH, 120 fps in total (4 CH max.)		
		5 MP: up to 30 fps/CH, 180 fps in total (6 CH max.)		
		4 MP: up to 30 fps/CH, 240 fps in total (8 CH max.)		
		Main 4 MP: up to 25 fps/CH, 225 fps in total (9 CH max.)		
		1080P: up to 30 fps/CH, 480 fps in total (16 CH max.)		
		960P: up to 25 fps/CH, 800 fps in total (32 CH max.)		
		*When connected to more than one monitor, live view images for multiple		
		windows will automatically be converted to sub streams.		
		Sub 720P: up to 30 fps/CH, 960 fps in total (32 CH max.)		
Playback		Max. 16-ch playback		
Fisheye Dewarping		A total of 3-ch (live view + playback)		
Operation				
Recording	Input	Max. 384 Mbps		
Bandwidth	Output	Max. 384 Mbps		
Recording Mode		Normal, Motion Detection, Alarm Input, Alarm Output, Manual Alarm, Audio Detection		
		Recording, Schedule Recording, Event recording, Snapshot, Manual recording		
Pre-Recording		0 ~ 60 sec. / Default 10 sec.		
Post Recording		5 ~ 600 sec. / Default 60 sec.		
	k			

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Playback Function		Fast forward / backward (2x, 4x, 8x, 16x) Slow forward (1/2x, 1/4x, 1/8x,)
Local	Corridor Mode	3/4/5/7/9/10/12/16/32
Viewing	Multi-Window	4/6/8/9/16/25/36
Video Analytics		Defocus Detection, Scene Change Detection, Object Removed, Object Left Behind
Al Integrated F	unction	
Al Analytics		Intrusion Detection, Cross Line Detection, Enter Area, Face Detection, Leave Area (Human classification), Auto Tracking, People Flow Counting, Crowd Density Monitoring *These functions are only applicable when the NVR is connected to AI-capable IP cameras listed in <i>Compatible GV-AI Capable IP Cameras</i> below.
Management		
Language		Czech, English, French, German, Hungarian, Italian, Japanese, Polish, Portuguese, Russian, Spanish, Traditional Chinese
Firmware upgrade		Upgrade through Web
Web Browser		IE 10 or above Firefox V52 or above Google Chrome V45 or above Edge V79 or above
Network		
Protocol		802.1x, ARP, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, PPPoE, QoS, RTCP, RTP, RTSP, SMTP, SNMP, TCP, UDP, UPnP
System Monito	oring and Recovery	
Power Restoration		Automatic restart after power outage
Remote Monit	oring	
Multi-Window		1/4/6/8/9/10/13/16/25/36
Monitoring Environment		IE browser, non-IE bowsers (Chrome, Edge, Firefox), Mobile app
Access from Web Browsers		Live View, Image Snapshot, Playback, Digital PTZ, System Configurations
Live View	PC-Based Software	Max. connection subject to the total output bandwidth of GV-SNVR3203 ^{Note5}
	Mobile APP	Max. connection subject to the total output bandwidth of GV-SNVR3203 ^{Note5}
Playback	PC-Based Software	Max. connection subject to the total output bandwidth of GV-SNVR3203 ^{Note5}
	Mobile APP	Max. connection subject to the total output bandwidth of GV-SNVR3203 ^{Note5}
Application		
Software Supported		GV-Control Center (V4.1.1 or later), GV-Edge Recording Manager Windows Version (V2.2.4 or later), GV-ASManager (V6.0.2 or later)
Smart Device Access		GV-Eye for iOS and Android (V3.0.0 or later)

Note:

- 1. Fisheye dewarping is only supported by GV-FER5702.
- 2. GV-SNVR3203 does not support the thermal camera GV-TMEB5800.
- 3. Certain GV-IP cameras are not supported by GV-SNVR3203. See the technical notice for details.
- 4. GV-SNVR3203 may support third-party IP cameras for motion recording, depending on the IP cameras' ONVIF capabilities.
- 5. The maximum remote connection is subject to the total output bandwidth of GV-SNVR3203. To access the output bandwidth data, see the technical notice.
- 6. ANR function is supported when connected to certain GV-IP cameras. See *Appendix E* in the User's Manual for more details.
- 7. Specifications are subject to change without notice.

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Compatible AI Capable GV-IP Cameras

- GV-BLFC5800, EBD4813, EBFC5800, TBL4810, TDR4803, TFD4800, TVD4810: Firmware V1.04 or later
- GV-EBD8813, EBD8800, TBL8804, TBL8810, TDR8805, TVD8810: Firmware V1.05 or later
- GV-SD4825-IR, SD4834-IR: Firmware V1.02 or later
- GV-PTZ5810-IR: Firmware V1.01 or later
- GV-TBL4807: Firmware V1.06 or later
- GV-TMS8800, TMS20811: Firmware V1.00 or later

Recommended Hard Disks

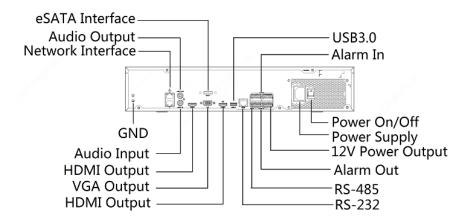
GV-SNVR3203 supports 4 SATA HDD (3.5") with up to 80 TB of storage capacity. For system efficiency, it is recommended to use enterprise-level hard disk drives instead of desktop-level or green HDD.

Note:

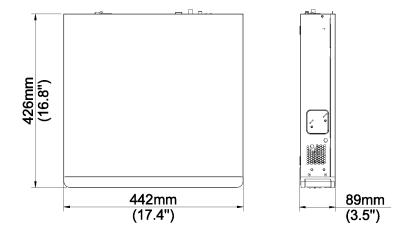
- 1. GV-SNVR3203 does not support 2.5" SATA HDD.
- 2. It is recommended to use the supported HDDs to ensure the compatibility. See GV-SNVR HDD Compatibility Table.
- 3. It is suggested to use HDDs with high capacity in low-temperature / dust-free / low-humidity environments to ensure the smooth operation.

Overview

Back Panel



Dimensions





Packing List

- 1. GV-SNVR3203
- 2. SATA cable x 4
- 3. USB mouse
- 4. Screw x 16 (for HDD)
- 5. AC power cord
- 6. Phoenix Terminal x 4
- 7. Rack Mounting Bracket x 2
- 8. Screw M4 (6 mm) x 4
- 9. Download Guide

Accessories

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

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