

GV-RNVR256G0-N



- Realtime AI Face Recognition (face tracking on E-Map, attendance management, and repeated visitor search)
- H.265 / H.264 video format
- Up to 256-ch IP camera input
- 4-ch HDMI; HDMI #1 at up to 8K
- 16 alarms input and 4 alarm output
- Up to 12 MP resolution recording
- 16-bay hot-swap SATA HDDs, up to 18 TB for each disk
- Two-way audio
- P2P function for GV-Eye app
- ONVIF cameras supported
- RAID 0, 1, 5, 6, 10

Introduction

GV-RNVR256G0-N is an H.264/H.265 Linux-embedded Standalone Network Video Recorder which records video files directly to the internal hard drives. GV-RNVR256G0-N supports up to 256 channels of IP cameras for video surveillance. Featuring video output with up to 8K resolution, GV-RNVR256G0-N 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 mouse and a flash drive to back up videos.

With its Web Client on the web browser, users can access several functions, including Live View, Change Stream, Manual Alarm, Divide Screen, and more.

GV-RNVR256G0-N integrates the capacity of AI-capable GV-R Series IP cameras and provides various analytics functions for perimeter protection. With the Face Recognition functions, users can access the database for face tracking on E-Map, face attendance management, and repeated visitor search to enhance the convenience and security of the surveillance environment.

Specifications

System		
Operating system		Embedded Linux
No. of Drive Bay ⁽⁴⁾		16 (3.5" SATA HDD), up to 18 TB for each disk
Video and Audio		
Compression		Audio: G.711 Video: H.264 / H.265
Resolution		12 MP, 8 MP, 5 MP, 3 MP, 2 MP (1080p), 1.3 MP (960p), 1 MP (720p)
Decoding		
Live / Playback	Frame Rate	12 MP: 150 fps in total (5 CH max.) 8 MP: 240 fps in total (8 CH max.) 5 MP: 390 fps in total (13 CH max.) 4 MP: 480 fps in total (16 CH max.) 2 MP: 960 fps in total (32 CH max.) 720p: 2160 fps in total (72 CH max.) 480p: 4560 fps in total (152 CH max.)
Playback		Max. 16-ch playback

Operation		
Max. Bandwidth	Input	1024 Mbps
	Output ⁽³⁾	800 Mbps
Playback Function		Fast forward/backward (2x, 4x, 8x, 16x) Slow forward (1/2x, 1/4x, 1/8x, 1/16x)
Event Management	Trigger	Schedule, Sensor Input, Motion Detection
	Action	-Store Video (AVI format) -Send e-mails with captured images -Upload captured images to FTP Server -Activate relay outputs to control external devices
Web Monitoring		IE 10 / 11 Safari V12.1 or above Firefox V52 or above Google Chrome V57 or above Edge V79 or above
Maintenance		Firmware upgrade through Web Browser or Utility
Interface		
Monitor	HDMI	HDMI 1: 1024 x 768, 1280 x 720, 1280 x 1024, 1440 x 900, 1920 x 1080, 1600 x 1200, 1920 x 1200, 3840 x 2160, 7680 x 4320 HDMI 2, 3: 1024 x 768, 1280 x 720, 1280 x 1024, 1440 x 900, 1920 x 1080, 1600 x 1200, 1920 x 1200, 3840 x 2160 HDMI 4: 1024 x 768, 1280 x 720, 1280 x 1024, 1440 x 900, 1920 x 1080 *The device only supports HDMI 1 output 8K. If the output resolution of HDMI 1 is set to 8K, the maximum output resolution of HDMI 3 and 4 will be limited to 1080P, and HDMI 2 will be disabled.
Connector	Ethernet	2 ports, RJ45 100/1000 Mbps
	USB	USB 2.0 x 1 (front) USB 3.0 x 2 (rear)
	Line In	1 RCA
	Audio Out	1 RCA
	RS-232	1 RJ45 (not functional)
	RS-485	1
	Alarm Input/Out	16 in / 4 out
	e-SATA	1
LED Indicator		4 LEDs: Power, HDD, LAN x 2
RAID		
RAID Type		0, 1, 5, 6, 10
General		
Language	Local	Arabic, Bulgarian, Danish, English, Finnish, French, German, Greek, Hebrew, Hindi, Italian, Japanese, Korean, Persian, Polish, Portuguese, Romanian, Russian, Spanish, Thai, Traditional Chinese, Turkish
	Web	English, French, German, Italian, Japanese, Portuguese, Russian, Spanish, Turkish
Mechanical Design	Dimensions (W x D x H)	439 x 466.1 x 149 mm (17.28" x 18.35" x 5.87")
	Net Weight	9.3 kg (20.5 lb)
Rack Mount		Yes

Electrical	Power Source	Input: AC 100 ~ 240 V, 50 ~ 60 Hz
	Power Consumption (excluding HDD and IP cameras)	8W
Operating / Temperature		Temperature: -10°C ~ 50°C (14°F ~ 122°F)
Humidity		Less than 90% RH
Certification		CE, FCC, LVD, RoHS compliant
AI Integrated Function		
AI Analytics		<p>Pedestrian Detection & Vehicle Detection, Perimeter Intrusion Detection, Line Crossing Detection, Stationary Object Detection, Cross Counting, Heat Map, Crowd Density Monitoring, Queue Length Detection, Face Detection, Rare Sound Detection</p> <p>*The video analytics functions are only applicable when AI-capable GV-R Series IP cameras are connected to the RNVR.</p>
Face Recognition		<p>Face Search, Face Tracking on E-Map, Repeated Visitor Search, Face Attendance Management</p> <p>*Face Recognition function is only applicable when AI-capable GV-R Series IP cameras are connected to the RNVR.</p>
Network		
Protocol		802.1x, DHCP, IPv4/IPv6, DynDNS, HTTP, HTTPS, NTP, RTSP, TCP, SNMP, UDP
Remote Monitoring		
Access from Web Browser		<p>-Live View: Audio, PTZ Setting, Color Controls, Page View, Manual Alarm</p> <p>-Playback: Search Recordings, Stretch, Full Screen, Tag Playback, Picture Playback, Download</p> <p>-Remote Setting: Channel (Live, Image control, Video Cover, Motion), Record (Encode, Capture), Alarm (Motion, I/O, Combination Alarm, PTZ Linkage), Network (IP, DDNS, FTP, Email), Device (HDD Disk /Cloud), System</p>
Live View ⁽³⁾	PC-Based Software	<p>Max. connections are subject to the total output bandwidth of GV-RNVR.</p> <p>*A total of up to 4-channel connection is supported for one non-IE browser.</p>
	Mobile APP	<p>Max. connections are subject to the total output bandwidth of GV-RNVR.</p>
Playback ⁽³⁾	PC-Based Software	<p>Max. number connections are subject to the total output bandwidth of GV-RNVR.</p> <p>*A total of up to 4-channel connection is supported for each Web browser.</p>
	Mobile APP	<p>Max. connections are subject to the total output bandwidth of GV-RNVR.</p>
Application		
Software Supported		GV-Control Center (V4.2.1 or later), GV-Edge Recording Manager Windows Version (V2.2.8 or later), GV-Vital Sign Monitor (V18.4.0 or later), GV-VPN
Smart Device Access		GV-Eye for iOS and Android (V3.2.0 or later)

Note:

- GV-TMEB5800 is not supported by the GV-RNVR.
- Certain GV-IP cameras are not supported by the GV-RNVR. See the [technical notice](#) for details.
- The maximum number of connections depend on the total output bandwidth of the GV-RNVR. See the *Maximum Output Bandwidth* column above for specifications.
- For optimal system performance, it is recommended to use enterprise-level hard disk drives. For a list of supported drives, see [GV-SNVR HDD Compatibility Table](#).
- When exporting recordings on Web browsers, it is suggested to use Internet Explorer Mode on Microsoft Edge.
- To access live view and playback remotely via PC or mobile app, ensure the local GV-RNVR is not currently in the playback interface.
- Only limited GV-Vital Sign Monitor functions are supported. See 3.20 *Connection to HD DVR, SNVR, RNVR* in the [GV-CMS Series User's Manual](#) for details.
- Specifications are subject to change without notice.

Compatible GV-AI Capable IP Cameras

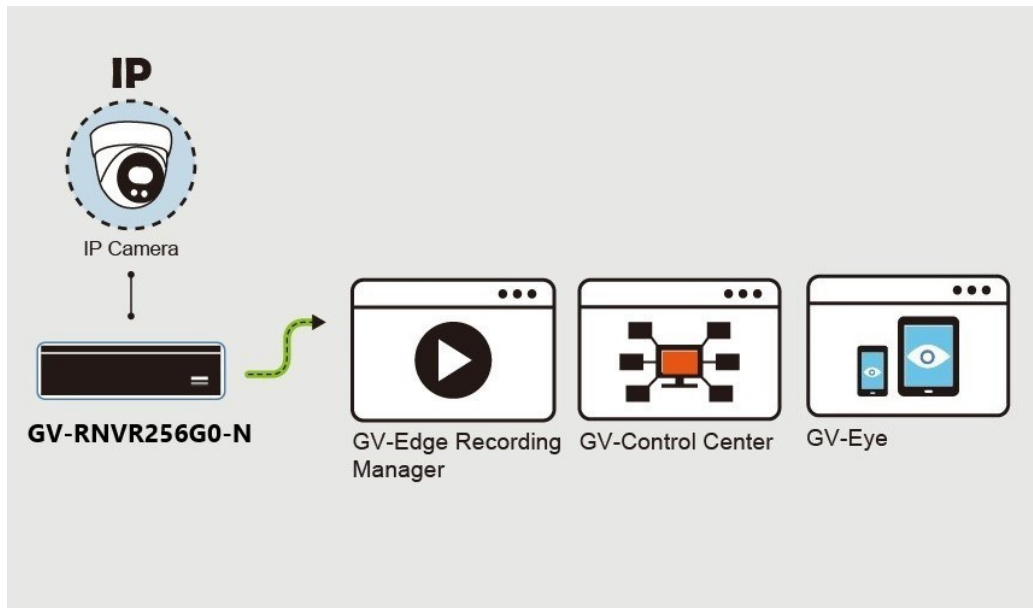
- **GV-RBL5800 / RBL5811 / REB5800 / RMS32810**

Compatible GV-Fisheye Dewarping Cameras

- **GV-RFER12700**

Note: Only one channel of fisheye dewarping is supported.

Applications



Packing List

- | | |
|-----------------------------|-------------------------|
| 1. GV-RNVR256G0-N | 2. Hex nuts x 4 |
| 3. Screw x 68 (for HDD) | 4. Screw M6 (10 mm) x 4 |
| 5. Rack Mount x 2 | 6. USB Mouse |
| 7. Screw for Rack Mount x 6 | 8. Power Cord |
| 9. Ethernet Cable | 10. Download Guide |

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.

Overview



Dimensions

