GV-Tower NVR System V2 (Rev. B)

Introduction

GV-Tower NVR System V2 (Rev. B) comes with 4 hot-swap drive bays for a storage of 40 TB. This system has Intel Core i5 and features the latest upgraded NVR system and 64-bit Microsoft Windows Embedded OS. GV-Tower NVR System V2 (Rev. B) supports up to 32 channels of GV-IP devices or third-party IP devices (license required). You can also bring the surveillance on the HDTV with a HDMI cable. It is a towering, affordable, and efficient NVR system that you have ever seen.

Features

- Powered by Intel Core i5 Processor
- 64-bit Windows Embedded OS
- Support for GPU Decoding
- 4-bay hot-swap data HDD
- Maximum storage capacity of 40 TB
- Pre-installed SSD for recovery
- Dual Gigabit LAN ports
- 2-monitor display with HDMI outputs
- Support for 3rd party IP devices
- Support for 32 channels (Pure IP solution)
- All-in-one solution (Live View, Playback, Recording, Backup, CMS)
- Video analysis
- Fisheye camera dewarping function
- Automatic connection to GV-IP devices
- H.265 / H.264 / MJPEG / MPEG4
- On-screen LED panel for HDD status
- Smart device access
- Multiple (31) languages

Packaging

- GV-Tower NVR System V2 (Rev. B)
- Keys for Hard Disk Safety Lock x 2
- Hard Disk Drive Screw x 16
- AC Power Cord
- Download Guide

Specifications

Hardware

System		
CPU	Intel Core i5 Processor	
RAM	8 GB Dual Channels	
No. of HDD	4 (3.5" HDD; SATA3 interface)	
Internal Storage	64 GB (SSD)	
OS	64-bit Windows Embedded OS	
DirectX	11	
Power	300 W, 110-115 V, 60 Hz 300 W, 220-230 V, 50 Hz	
Connector	Ethernet	RJ-45, 10 / 100 / 1000 Mbps x 2
	Video Output	2 HDMI ports
	USB 3.0	Front: 2 ports Rear: 4 ports
	USB 2.0	Rear: 2 ports

Environment	
Operating Temp.	0 ~ 45 °C / 32 ~ 113 °F
Humidity	0 ~ 80% RH (non-condensing)

Physical	
Color	Silver
Dimensions (W x H x D)	200 x 270 x 335 mm / 7.87 x 10.63 x 13.19 in
Net Weight	8 kg / 17.64 lb (± 1 kg / 2.2 lb)

Sensor and Alarm (Optional)	
GV-IO Box 4 Ports	4 inputs, 4 outputs
GV-IO Box 8 Ports	8 inputs, 8 outputs
GV-IO Box 16 Ports	16 inputs, 16 outputs

Software

Video and Audio		
Model	GV-Tower NVR (GV)	GV-Tower NVR (3rd Party)
Video Input	32 channels	1, 2, 4, 6, 8, 10, 12, 16, 18, 20, 22, 24, 26, 28, 30, 32 channels (license required)
Audio Input	32 channels	1, 2, 4, 6, 8, 10, 12, 16, 18, 20, 22, 24, 26, 28, 30, 32 channels (license required)

Live View and Playback	
Image Control	Contrast / Brightness / Saturation / Hue
Recording Mode	Round the Clock / Motion Detection / Sensor Detection / Pre & Post Recording / Schedule Recording
Pre Recording	1~ 45 min.
Instant Playback	10 sec. / 30 sec. / 1 min. / 5 min.
Watermark	Supported

Searching and Playback	
Search Method	Date / Time / Camera / Event Type
Backup Type	DVD+R (DL) / DVD-R (DL) / DVD+R / DVD+RW / DVD-R / DVD-RW / CD-R / CD-RW

Remote Monitoring	
Monitoring Environment	Web browser (IE, Chrome, Firefox and Safari) Mobile device (Android Smartphone and tablet; iPad, iPhone and iPod Touch)
Live View	Max. 32–channel multi views (Up to 200 channels connection to GV-Tower System V2)
Network Type	LAN, WAN, Internet

System Monitoring and Recovery	
Power Restoration	Automatic restart after power outage
Monitoring	Two independent Watchdogs (Hardware Watchdog + Software Watchdog)
Recovery	Automatic system rebuild from internal SSD.

Language	
Type	Arabic / Bulgarian / Czech / Danish / Dutch / English / Finnish / French / German / Greek / Hebrew / Hungarian / Indonesian / Italian / Japanese / Lithuanian / Norwegian / Persian / Polish / Portuguese / Romanian / Russian / Serbian / Simplified Chinese / Slovakian / Slovenian / Spanish / Swedish / Thai / Traditional Chinese / Turkish

Software License	
Free License	32 channels from GV-IP devices
Maximum License	32 channels from third-party IP devices
Increment for Each License	1 to 32 third-party IP cameras in increments of 2
Optional Combinations	N/A
Dongle Type	Internal

Note:

1. The Maximum License is a paid service.
2. It is required to enable the dual-stream function on GeoVision and third-party IP cameras to have the maximum number of channels supported. For single streaming third-party IP cameras, please see "Total Frame Rate and Max. No. of Channels Supported" below.
3. For backup function, you need to connect an external USB DVD/CD burner.
4. Product design and specifications are subject to change without notice.

Total Frame Rate and Max. No. of Channels Supported

For GV-IP Camera (Dual Streams)

Video Resolution	Dual Streams		Max. FPS	Intel Core i5	
	Stream 1 (H.264)	Stream 2 (H.264)		Total FPS	Full-Frame Channels
1.3 MP	1280 x 1024	320 x 256	30 fps	960 fps	32 ch
2 MP	1920 x 1080	448 x 252	30 fps	960 fps	32 ch
3 MP	2048 x 1536	320 x 240	20 fps	640 fps	32 ch
5 MP	2560 x 1920	320 x 240	10 fps	320 fps	32 ch
8 MP	3840 x 2160	1280 x 720	25 fps	575 fps	23 ch
12 MP	4000 x 3000	1024 x 768	15 fps	480 fps	32 ch
Video Resolution	Dual Streams		Max. FPS	Intel Core i5	
	Stream 1 (H.265)	Stream 2 (H.264)		Total FPS	Full-Frame Channels
3 MP	2048 x 1536	640 x 480	30 fps	960 fps	32 ch
4 MP	2560 x 1440	640 x 360	25 fps	800 fps	32 ch
5 MP	2592 x 1944	640 x 480	30 fps	960 fps	32 ch

For GV-Fisheyes Camera (Single Stream De-warping)

Video Resolution	Single Stream (H.264)	Max. FPS	Intel Core i5	
			Total FPS	Full-Frame Channels
1.3 MP	1280 x 1200	15 fps	480 fps	32 ch
2 MP	1920 x 1080	15 fps	405 fps	27 ch
3 MP	2048 x 1536	15 fps	285 fps	19 ch
4 MP	2048 x 1944	15 fps	270 fps	18 ch
5 MP	2560 x 1920	10 fps	320 fps	32 ch
8 MP	3840 x 2160	25 fps	225 fps	9 ch
12 MP	4000 x 3000	15 fps	135 fps	9 ch

For Third-Party IP Camera (Single Stream GPU Decoding)

Video Resolution	Single Stream (H.264)	Max. FPS	Intel Core i5	
			Total FPS	Full-Frame Channels
1.3 MP	1280 x 1024	30 fps	960 fps	32 ch
2 MP	1920 x 1080	30 fps	780 fps	26 ch
3 MP	2048 x 1536	20 fps	560 fps	28 ch
4 MP	2048 x 1944	15 fps	480 fps	32 ch
5 MP	2560 x 1920	10 fps	320 fps	32 ch
8 MP	3840 x 2160	30 fps	210 fps	7 ch
12 MP	4000 x 3000	15 fps	165 fps	11 ch

Note: The total frame rate and channels supported are determined in round-the-clock recording settings with live view only, while remote connections and video analysis features being disabled.
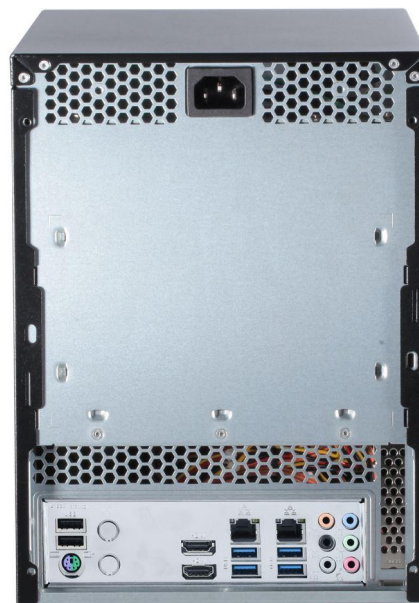
Options

GV-COM V3	This unit can add 1 RS-485 port to your computer through a USB connector.
GV-Data Capture V3 Box	GV-Data Capture V3 Box can integrate GV-Tower NVR System V2 (Rev. B) to an electronic POS system, while GV-Data Capture V3E Box can establish such integration through LAN or Internet.
GV-IO Box (4 Ports V1.2)	GV-IO Box 4 Ports V1.2 provides 4 inputs and 4 relay outputs. It supports both DC and AC output voltages, and provides a USB port for PC connection.
GV-IO Box 4E	GV-I/O Box 4E provides 4 inputs and 4 relay outputs. It provides both DC and AC output voltages, PoE, TCP / IP and RS-485 port for PC connection.
GV-IO Box (8 Ports)	GV-IO Box 8 provides 8 inputs and 8 relay outputs, and supports both DC and AC output voltages. A USB port is also provided for PC connection.
GV-IO Box (16 Ports)	GV-IO Box 16 provides 16 inputs and 16 relay outputs, and supports both DC and AC output voltages. A USB port is also provided for PC connection.
GV-IR Remote Control	GV-IR Remote Control provides easy control of GV-Tower NVR System V2.
GV-Joystick V2	GV-Joystick V2 facilitates the PTZ camera control. It can be either plugged into GV-Tower NVR System V2 (Rev. B) for independent use or connected to GV-Keyboard to empower the operation.
GV-Keyboard V3	GV-Keyboard V3 is designed to program and operate the system, and it can also be connected with PTZ cameras directly for PTZ control.

Overview

Front View   Rear View

GV-Tower NVR System   *January 10, 2020*