

GV-Tower NVR System V2 (Rev. C)



Introduction

GV-Tower NVR System V2 (Rev. C) comes with 4 hot-swap drive bays for a storage of 56 TB. This system has Intel Core i5 Processor and features the latest NVR system and 64-bit Windows 10 IoT Enterprise. GV-Tower NVR System V2 (Rev. C) 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 10 IoT Enterprise
- Support for GPU Decoding
- 4-bay hot-swap data HDD
- Maximum storage capacity of 56 TB
- Pre-installed SSD for recovery
- One Gigabit LAN port
- Support for dual display from any two of the three video outputs (VGA, DVI-D, HDMI)
- 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. C)
- 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 10 IoT Enterprise	
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 1
	Video Output	1 HDMI port / 1 DVI-D port / 1 VGA port Support for dual display from any two of the three video outputs
	USB (3.1 Gen 1)	Front: 2 ports Rear: 2 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	Stream 1 (H.264)	Mbps	Stream 2 (H.264)	Mbps	Max. FPS	Intel Core i5	
						Total FPS	Full-Frame Channels
1.3 MP	1280 x 720	3.99	640 x 360	1.99	30 fps	960 fps	32 ch
2 MP	1920 x 1080	6.12	640 x 360	2.19	30 fps	960 fps	32 ch
3 MP	2048 x 1520	9.17	640 x 360	1.99	30 fps	960 fps	32 ch
4 MP	2560 x 1440	9.21	640 x 360	1.72	25 fps	800 fps	32 ch
5 MP	2592 x 1944	9.19	640 x 480	2.29	30 fps	960 fps	32 ch
8 MP	3840 x 2160	13.47	1280 x 720	3.14	25 fps	700 fps	28 ch
12 MP	4000 x 3000	13.73	1024 x 768	3.07	15 fps	450 fps	30 ch

Video Resolution	Stream 1 (H.265)	Mbps	Stream 2 (H.264)	Mbps	Max. FPS	Intel Core i5	
						Total FPS	Full-Frame Channels
1.3 MP	1980 x 720	0.83	640 x 360	0.84	30 fps	960 fps	32 ch
2 MP	1920 x 1080	1.6	640 x 360	0.84	30 fps	960 fps	32 ch
3 MP	2048 x 1536	2.05	640 x 360	0.83	30 fps	960 fps	32 ch
4 MP	2560 x 1440	2.21	640 x 360	0.82	25 fps	800 fps	32 ch
5 MP	2560 x 1920	2.41	640 x 360	0.83	30 fps	960 fps	32 ch
8 MP	3840 x 2160	3.52	640 x 360	1.24	20 fps	640 fps	32 ch

For GV-Fisheye Camera (Single Stream, 360° De-warping)

Video Resolution	Stream 1 (H.264)	Mbps	Max. FPS	Intel Core i5	
				Total FPS	Full-Frame Channels
8 MP	2896 x 2768	6.39	25 fps	25 fps	1
12 MP	4000 x 3000	13.74	15 fps	30 fps	2

Video Resolution	Stream 1 (H.265)	Mbps	Max. FPS	Intel Core i5	
				Total FPS	Full-Frame Channels
3 MP	2048 x 1536	3.3	30 fps	120 fps	4
5 MP	2592 x 1944	7.75	30 fps	30 fps	1
12 MP	4000 x 3000	9.85	20 fps	20 fps	1

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. C) to an electronic POS system, while GV-Data Capture V3E Box can deliver direct output to GV-NVR System V2 (Rev. C) 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. C) 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