

GV-Tower VMS System



Introduction

The GV-Tower VMS System comes with 4 hot swap drive bays for the storage up to 16 TB. This system has two CPU options: i3 and i5. The Intel Core i3 processor is based on Sandy Bridge architecture, while the Intel Core i5 processor is based on Ivy Bridge architecture. It features the latest upgraded VMS system and 64-bit Microsoft Windows 7. GV-Tower VMS System 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 VMS system that you have ever seen.

Features

- Powered by Intel Core i3 or i5 Processor
- 64-bit Windows Embedded Standard 7
- Support for GPU Decoding
- 4-bay hot swap data HDD
- Maximum storage capacity of up to 16 terabytes
- Pre-installed recovery from the hidden partition
- Dual Gigabit LAN ports
- Dual monitor display (VGA and HDMI outputs)
- Support for 3rd party IP cameras with H.264
- 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 cameras
- H.264 / MJPEG / MPEG4
- Dual video streams
- On-screen LED panel for HDD status
- Smart device access
- Multiple (22) languages

Packaging

- GV-Tower VMS System x 1
- Keys for Hard Disk Safety Lock x 2
- Hard Disk Drive Screw x 16
- GV-IR Remote Control x 1
- AC Power Cord x 1
- GV-Tower VMS System Quick Start Guide x 1

Specifications

Hardware

System		
CPU		Intel Core i3 Processor
		Intel Core i5 Processor (optional)
RAM		4 GB Dual Channels
No. of HDD		4 (3.5" HDD)
Internal Storage		16 GB (DOM)
		32 GB (DOM) bundled with i5 Processor
OS		64-bit Windows Embedded Standard 7
DirectX		11
Power		120 W, 100-230 V, 47-63 Hz
Connector	Ethernet	RJ-45, 10 / 100 / 1000 Mbps x 2
	Video Output	VGA and HDMI
	USB 2.0	Rear: 6 ports
Fan	7 cm (3 1/8")	2 units
Environment		
Operating Temp.		0 ~ 45 °C / 32 ~ 113 °F
Humidity		0 ~ 80% RH (non-condensing)
Physical		
Color		Black
Dimensions (W x H x D)		260 x 140 x 260 mm / 10.24 x 5.51 x 10.24 in
Net Weight		6.3 kg / 13.8 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 VMS (GV)	GV-Tower VMS (3rd Party)
Video Input	32 channels	32 channels in increments of 1 channel
Audio Input	32 channels	32 channels in increments of 1 channel
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)	
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 hard disk.	
Language		
Type	Bulgarian / Czech / Danish / English / French / German / Greek / Hebrew / Hungarian / Italian / Japanese / Persian / Polish / Portuguese / Russian / Serbian / Simplified Chinese / Slovakian / Slovenian / Spanish / 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 increments of 1 channel
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		Intel Core i3 / i5	
	Stream 1 (H.264)	Stream 2 (H.264)	Total FPS	Full-Frame Channels
D1	704 x 480	352 x 240	960 fps	32 ch
1.3 MP	1280 x 1024	320 x 256	960 fps	32 ch
2 MP	1920 x 1080	448 x 252	960 fps	32 ch
3 MP	2048 x 1536	320 x 240	640 fps	32 ch
5 MP	2560 x 1920	320 x 240	320 fps	32 ch

For GV-Fisheyes Camera (De-warping)

Video Resolution	Single Stream (H.264)	Intel Core i3		Intel Core i5	
		Total FPS	Full-Frame Channels	Total FPS	Full-Frame Channels
1.3 MP	1280 x 1024	90 fps	6 ch	150 fps	10 ch
2 MP	1440 x 1376	90 fps	6 ch	135 fps	9 ch
4 MP	2048 x 1944	45 fps	3 ch	60 fps	4 ch
5 MP	2560 x 1920	30 fps	3 ch	60 fps	6 ch

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

Video Resolution	Single Stream (H.264)	Intel Core i3		Intel Core i5	
		Total FPS	Full-Frame Channels	Total FPS	Full-Frame Channels
VGA	640 x 480	960 fps	32 ch	960 fps	32 ch
1 MP	1280 x 720	600 fps	20 ch	960 fps	32 ch
1.3 MP	1280 x 1024	600 fps	20 ch	960 fps	32 ch
2 MP	1920 x 1080	360 fps	12 ch	780 fps	26 ch
3 MP	2048 x 1536			540 fps	27 ch
4 MP	2048 x 1944	Not Supported		345 fps	23 ch
5 MP	2560 x 1920			200 ch	20 ch

Options

GV-Hub V2	An easy way for serial port extension. This hub can add 4 RS-232/RS-485 serial ports through the GV-Tower VMS System's USB port.
GV-COM V2	This unit can add 1 RS-232/RS-485 serial port through the GV-Tower VMS System's USB port.
GV-COM V3	This unit can add 1 RS-485 port to your computer through a USB connector.
GV-IO Box (4 Ports V1.0/V1.1)	GV-IO Box 4 Ports V1.0/V1.1 provides 4 inputs and 4 relay outputs, and supports both DC and AC output voltages. A USB port is also provided for PC connection.
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 (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-Joystick V2	GV-Joystick facilitates the PTZ camera control. It can be either plugged into the GV-Tower VMS System for independent use or connected to GV-Keyboard to empower the operation. However, this device can only work on GV-System version 8.2 or later.
GV-Keyboard V3	The 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