

GV-Center V2



INTRODUCTION

While GV-Center V2 Pro is a professional version for a large central monitoring network such as alarm services companies or chain stores, GV-Center V2 is a standard version that comes with the installation CD of GV-Series software free of charge. It is suitable for a smaller security monitoring network for residential environment. The GV-Center V2 has all the same good features with GV-Center V2 Pro.

GV-CENTER V2 VS. GV-CENTER V2 PRO

GV-Center V2

- ▶ Manages 5 GV-System / GV-VMS and receives images from max. 160 channels
- ▶ Suitable for a smaller security monitoring network, e.g. residential environment
- ▶ Free software
- ▶ Economical and standard

GV-Center V2 Pro

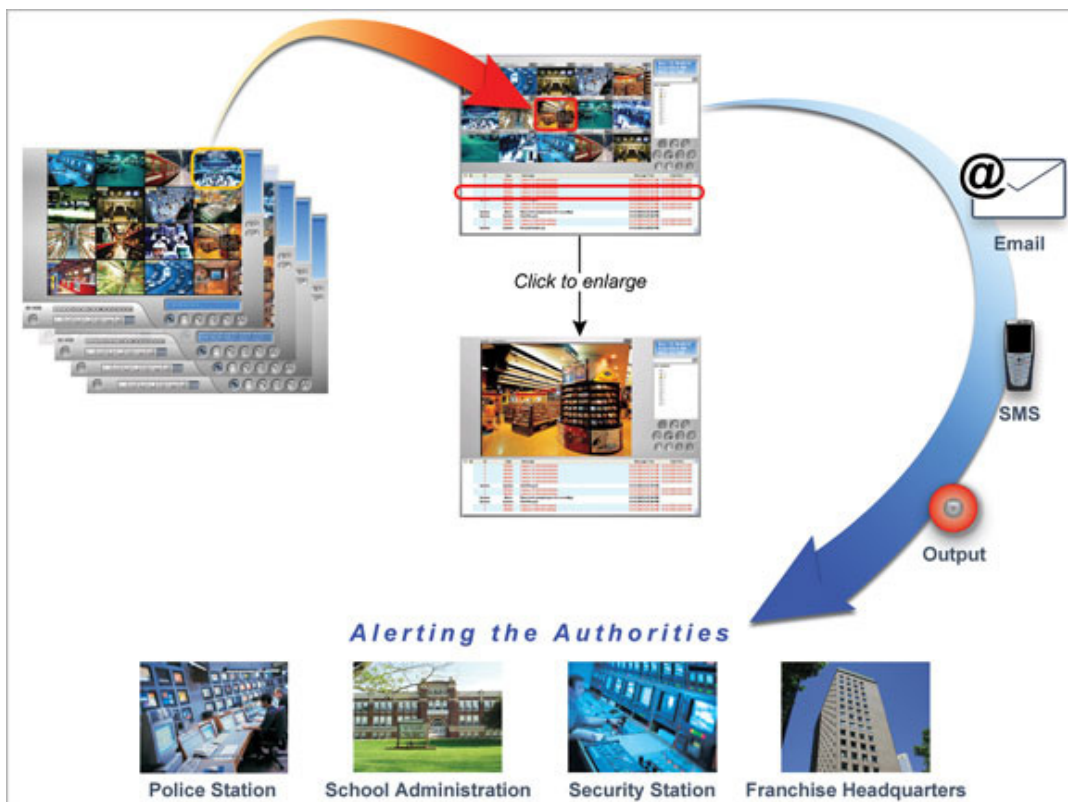
- ▶ Manages 500 GV-System / GV-VMS and receives images from max. 800 channels
- ▶ Suitable for a large CMS network, e.g. alarm services, chain stores
- ▶ Paid software
- ▶ Value added and professional

FUNCTIONS

Most of the alerts can be verified in video evidence before the security guards are dispatched to the site. We have concluded 19 most frequent alert conditions in a security event. As soon as any of the alert conditions occurs, the GV-Center V2 can automatically activate alarms to notify the operators or the authorities designate, such as security station. The security personnel can thus verify the nature of alarms on the spot and take proper actions. Meanwhile an SMS or e-mail message of alerts will be sent to the local GV-System / GV-VMS subscriber or other authorities, such as school administrators. This mechanism of GV-Center V2 and its security network can successfully reduce the probability of false alarms.



CASE DIAGRAM



CENTRAL MONITORING FEATURES

- ▶ View live images from 160 channels of 5 GV-System / GV-VMS
- ▶ Receive live images on motion detection, alarm, I/O trigger, panic button activation
- ▶ View GV-System / GV-VMS server information
- ▶ Two-way audio communication
- ▶ Real-time I/O monitoring
- ▶ Receive incident notifications
- ▶ Quick search by key-word in backup ViewLog
- ▶ Remote PTZ control
- ▶ Remote I/O device control
- ▶ Create, edit groups of GV-Center V2 Pro servers and subscribers
- ▶ Keep track of GV-System / GV-VMS's location ID, alarm status, and online status
- ▶ Respond to alerts of video lost, motion detection, I/O module lost, I/O triggered, connection lost, subscriber login/logout, surveillance system abnormality, intruder, missing object, unattended object, POS loss prevention, and disk full
- ▶ Send notification via alarms, SMS, and e-mails
- ▶ Logon to SMS server at startup
- ▶ Avoid connection failure
- ▶ 1024x768 or 1280x1024 resolution
- ▶ Live or attached videos at 320x240 / 640x240 / 640x480
- ▶ Single monitor screen divisions: 6/15/24x, 6/12/24x
- ▶ Dual monitors screen divisions: 9/25/36x; 9/20/42x
- ▶ Dual monitor support: one for live videos display, the other for event lists

EVENT LIST FEATURES

- ▶ Display 7 types of event messages: alarm, video attachment, connection status, motion detection, subscriber login/logout history, system status, and module trigger
- ▶ Video attachable files by event
- ▶ Full event lists for quick search
- ▶ Backup in Access format for later retrievals
- ▶ Flag bookmarks for the highlight of important events
- ▶ Event Log Filter as a search engine

RECORDING FEATURES

- ▶ Auto record video events
- ▶ Pre-alarm and post-alarm recording on attachment mode
- ▶ Attachment mode record by motion and I/O trigger
- ▶ Receive video attachment on each event
- ▶ Recycle feature: Delete old file for non-stop recording

GV-Center V2 Specifications

| Features | GV-Center V2 |
|-------------------------------|--|
| Maximum # of Channels | 160 |
| Maximum # of Subscribers | 5 |
| Maximum # of Sensors / Alarms | 720 / 720 |
| Real-Time Audio Monitoring | Yes |
| Remote PTZ Control | Yes |
| Remote I/O Control | Yes |
| Auto Recording | Yes |
| Event List Viewer | Yes |
| Event List Filter | Yes |
| Dual Monitor Support | Yes |
| Network Load Support | No |
| Automatic Connection Recovery | Yes |
| Supported Language | 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 |

System Requirements

| | | |
|--------------|--|---|
| OS | 32-bit | Windows 7 / 8 / 8.1 / 10 / Server 2008 |
| | 64-bit | Windows 7 / 8 / 8.1 / 10 / Server 2008 / Server 2012 R2 |
| CPU | Pentium 4, 3.0 GHz with Hyper-Threading | |
| Memory | 2 x 512 MB Dual Channels | |
| Hard Disk | 1 GB | |
| Graphic Card | PCI-Express, 1024 x 768, 32-bit color | |
| Direct X | 9.0c | |
| Software | .Net Framework 3.5 SP1 and Chart Control | |

Note: If you want to perform GPU decoding, refer to the *GPU Decoding Specifications*.

GPU Decoding Specifications

A higher total frame rate can be achieved if your CPU or external VGA supports GPU decoding.

On-board VGA: GPU decoding is only supported when using the following Intel chipsets:

For **H.264** Video Compression

- 2nd Generation Intel Core i3 / i5 / i7 Desktop Processors (Sandy Bridge) - only support 1 MP to 2 MP videos
- 3rd Generation Intel Core i3 / i5 / i7 Desktop Processors (Ivy Bridge)
- 4th Generation Intel Core i3 / i5 / i7 Desktop Processors (Haswell / Haswell Refresh)
- 6th Generation Intel Core i3 / i5 / i7 Desktop Processors (Skylake)
- 7th Generation Intel Core i3 / i5 / i7 Desktop Processors (Kaby lake)

For **H.265** Video Compression

- 6th Generation Intel Core i3 / i5 / i7 Desktop Processors (Skylake)
- 7th Generation Intel Core i3 / i5 / i7 Desktop Processors (Kaby lake)

External VGA: GPU decoding is only supported when using NVIDIA graphics cards with compute capability 3.0 or above and memory 2 G or above. To look up the compute capability of the NVIDIA graphics cards, refer to: <https://developer.nvidia.com/cuda-gpus>.

Note: NVIDIA graphic cards do not support H.265 GPU decoding.

On-board VGA + external VGA: To have both the on-board VGA and external VGA perform GPU decoding, the VGAs must follow their respective specifications listed above.

Note:

1. If you have both on-board VGA and external VGA installed, the on-board VGA must be connected to a monitor for H.264 / H.265 GPU decoding.
2. You can install multiple external graphics cards if needed.

Options

| Optional Devices | Description |
|--------------------------|---|
| Internal USB Dongle | The USB dongle can provide the Hardware Watchdog function to the GV-Center V2 by restarting the computer when Windows crashes. You need to connect the dongle internally on the motherboard. |
| 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 Ports provides 8 inputs and 8 relay outputs, and supports both DC and AC output voltages. You can connect the unit to the PC either by using its USB port or through network by using its Ethernet module. |
| GV-IO Box (16 Ports) | GV-IO Box 16 Ports provides 16 inputs and 16 relay outputs, and supports both DC and AC output voltages. You can connect the unit to the PC either by using its USB port or through network by using its Ethernet module. |