

## GV-Center V2



### INTRODUCTION

GV-Center V2 is a Central Monitoring Station (CMS) software that allows the user to monitor, receive and record live video events from multiple subscribers, i.e. GV-DVR / NVR / VMS, GV-IP Devices and/or GV-SNVR, in an integrated interface. During an alert event, the GV-Center V2 receives live images and/or event messages with attached video recordings for the user to track any abnormalities at the premises. With its 2-way audio feature, the GV-Center V2 can manage and communicate with the surveillance sites remotely from one point of control.

The standard version of GV-Center V2 is a free software capable of managing up to 5 subscribers for a total of 160 channels and is ideal for small security settings, such as residential areas. For medium to large security networks, the Pro version of GV-Center V2 is recommended, requires a paid license, which supports up to 500 subscribers for a maximum of 800 channels.

### GV-CENTER V2 VS. GV-CENTER V2 PRO

#### GV-Center V2

- ▶ Manages up to 5 GV-DVR / NVR / VMS, GV-IP Devices and/or GV-SNVR and receives images from max. 160 channels
- ▶ Suitable for a small security setting, e.g. residential areas
- ▶ Free software

#### GV-Center V2 Pro

- ▶ Manages up to 500 GV-DVR / NVR / VMS, GV-IP Devices and/or GV-SNVR and receives images from max. 800 channels
- ▶ Suitable for medium to large CMS network, e.g. alarm services, chain stores and large corporate environments
- ▶ Paid software

## ALERT EVENTS

Below are 19 of the most frequently used alert events available on GV-Center V2. Upon an alert event, the GV-Center V2 can automatically activate alarms, send out e-mail or SMS notifications and/or trigger I/O devices to notify the operators or the authorities for immediate security measures. In addition, GV-Center V2 also provides a convenient alarm report feature for detailing the course of the events, including the event type and the measures taken, along with time records, during the events.



## CASE DIAGRAM



## CENTRAL MONITORING FEATURES

- ▶ View live images from 5 GV-DVR / NVR / VMS, GV-IP Devices and/or GV-SNVR for up to 160 channels (standard version)
- ▶ View live images from 500 GV-DVR / NVR / VMS, GV-IP Devices and/or GV-SNVR for up to 800 channels (Pro version)
- ▶ Receive live images and/or text messages upon user-selected alert events, e.g. 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
- ▶ Automated alarms through the PC or I/O devices
- ▶ Automated alert notifications by e-mail or SMS server
- ▶ Two-way audio communication
- ▶ Remote PTZ control
- ▶ Remote I/O device control
- ▶ Access and view subscriber account information, such as location ID and the number of cameras and I/O devices with their status
- ▶ Multiple monitor configuration for displaying the following across different monitors, as designated by the user: main screen, event list and for displaying user-specified alert events upon occurrence
- ▶ Subscriber schedule to specify monitoring period and send out alerts when the schedule is not followed
- ▶ Alarm reports to detail the course of events
- ▶ E-Map alerts to lay out the locations of triggered cameras and I/O devices within a floor plan
- ▶ Event charts to provide daily, weekly and monthly statistical charts for event analysis
- ▶ Failover server support for uninterrupted monitoring services
- ▶ RSA and AES encryption for a secured network

## 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 recordings attachable by event
- ▶ Flag feature for highlighting important events
- ▶ Event Log filters for advanced event search
- ▶ Backup in Access format for later retrievals
- ▶ Customized event tabs and event message colors (Pro version only)

## RECORDING FEATURES

- ▶ Automatic video recording upon user-selected alert events, e.g. motion and I/O trigger
- ▶ Pre-alarm and post-alarm recording for video attachment

## Specifications

Features	GV-Center V2	GV-Center V2 Pro
Maximum # of Channels	160	800
Maximum # of Subscribers	5	500
Maximum # of Sensors / Alarms	720 / 720	72,000 / 72,000
Realtime 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

## Minimum System Requirements

GV-Center V2		GV-Center V2 Pro
OS	64-bit	Windows 10 / Server 2016
CPU	Intel Core i3 2130, 3.4 GHz	Intel Core i7 2600, 3.4 GHz
Memory	4 GB Dual Channels	8 GB 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:

1. It is not recommended to install GV-Center V2 (Pro) and GV-Control Center on the same PC. **Running GV-Center V2 (Pro) and GV-Control Center on the same PC may result in CPU overload error or system failure.**
2. 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 comes with onboard GPU or is connected to external GPU for GPU decoding.

**Onboard GPU:** GPU decoding is only supported when using the following Intel CPU:

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)
- 8th Generation Intel Core i3 / i5 / i7 Desktop Processors (Coffee lake)
- 9th Generation Intel Core i3 / i5 / i7 Desktop Processors (Coffee lake / Coffee lake Refresh)

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)
- 8th Generation Intel Core i3 / i5 / i7 Desktop Processors (Coffee lake)
- 9th Generation Intel Core i3 / i5 / i7 Desktop Processors (Coffee lake / Coffee lake Refresh)

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

## Note:

1. One external NVIDIA graphic card can be supported to perform GPU decoding at free of charge.
2. GeForce GTX1060 is not supported.

**Onboard GPU + external GPU:** To have both the onboard and external GPU to perform GPU decoding, the GPUs must follow their respective specifications listed above.

## Note:

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

## Software License

Free License for GV-Center V2	5 subscribers, 160 channels
Paid License for GV-Center V2 Pro	500 subscribers, 800 channels
Increment for Each License	N/A
Optional Combinations	<ol style="list-style-type: none"> <li>1. Center V2 Pro</li> <li>2. Center V2 Pro + Vital Sign Monitor</li> </ol>
Dongle Type	Internal or external

**Note:** It is recommended to use the internal GV-USB Dongle to have the Hardware Watchdog function, which restarts the PC when Windows crashes or freezes.

## Options

Optional Devices	Description
Internal USB Dongle	The USB dongle can provide the Hardware Watchdog function to the GV-Center V2 (Pro) by restarting the computer when Windows crashes. You need to connect the dongle internally on the motherboard.
GV-IO Box Series	GV-IO Box series (4E / 4 Ports / 8 Ports / 16 Ports) provide 4 / 8 / 16 inputs and relay outputs and support both DC and AC output voltages, with optional support for Ethernet module and 4E additionally supporting PoE, TCP/IP and RS-485 connection.