

GV-Mini System (Rev. B)



Introduction

Equipped with Intel Mini-STX motherboard form factor, GV-Mini System (Rev. B) is a mini PC but has the advantage of using a regular desktop CPU. GV-Mini System (Rev. B) is using Intel Core i7 and comes with 3 graphics outputs (HDMI, DP and VGA) to support up to 2 monitors simultaneously. Its high-performance processor makes it possible to run GeoVision software, and the mini size offers the versatility for VESA mounting on the rear of a monitor.

Features

- Mini PC with Intel Mini-STX form factor
- Powerful desktop CPU Intel Core i7 Processor
- 64-bit Windows 10 IoT Enterprise
- Support for GPU Decoding
- 3 graphics outputs, HDMI, DP, VGA, to support up to 2 monitors simultaneously
- Pre-installed SSD for recovery
- Mini size (155 x 155 x 80 mm / 6.11 x 6.11 x 3.15 in)
- VESA mount (optional)

Packaging

- GV-Mini System (Rev. B)
- 19V, 120W Power Adapter
- Power Cord (by regions)
- Download Guide

Supported Software

- GV-NVR
- GV-VMS
- GV-ASManager
- GV-AI FR Server
- GV-AI Smart Retail (coming)

Specifications

System	
CPU	Intel Core i7 Processor
OS	64-bit Windows 10 IoT Enterprise
Memory	16 GB Dual Channels
Graphics	Intel UHD Graphics
Audio	Realtek Audio
LAN	Intel Gigabit LAN
OS SSD	256 GB SSD
Internal Storage	Slots for 2.5" HDD/SSD x 2
Front I/O	<ul style="list-style-type: none"> - Power Button, Power LED and HDD LED - USB 3.1 Gen 1 (Type-A) - USB 3.1 Gen 1 (Type-C) - Headphone jack for mic input - Microphone jack
Rear I/O	<ul style="list-style-type: none"> - VGA - HDMI - DisplayPort - USB 3.1 Gen 1 (Type-A) - USB 2.0 - LAN - DC Jack - COM port <p>Note: Three graphics output options, VGA, HDMI and DP, support two monitors simultaneously.</p>
Power	19V, 120W Power Adapter
Environment	
Operating Temp.	0 ~ 35 °C / 32 ~ 95 °F
Physical	
Color	Black
Dimensions (W x H x D)	155 x 155 x 80 mm / 6.11 x 6.11 x 3.15 in
Net Weight	1.92 kg / 4.23 lb

Note:

1. If you are in an area with unstable voltage, make sure to install an automatic voltage regulator (AVR) or a UPS power supply with AVR function, to maintain a constant voltage.
2. All damages to the power supply caused by unstable voltage are not included in the 2-year warranty service.
3. All specifications are subject to change without notice.

Accessories

VESA Bracket	The bracket allows for mounting the unit on the rear of a computer monitor.
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Overview



Total Frame Rate and Max. No. of Channels Supported for GV-NVR / VMS

For GV-IP Camera (Dual Streams)

GV-NVR

Resolution	Dual-stream Resolution		Max. Frame Rate / Camera	Channel	Total Frame Rate / System
	Stream 1 (H.264)	Stream (H.264)			
1.3 MP	1280 x 1024	320 x 256	30 fps	32	960 fps
2 MP	1920 x 1080	448 x 252	30 fps	32	960 fps
3 MP	2048 x 1536	320 x 240	20 fps	32	640 fps
5 MP	2560 x 1920	320 x 240	10 fps	32	320 fps
8 MP	3840 x 2160	1280 x 720	25 fps	32	800 fps
12 MP	4000 x 3000	1024 x 768	15 fps	32	480 fps

Resolution	Dual-stream Resolution		Max. Frame Rate / Camera	Channel	Total Frame Rate / System
	Stream 1 (H.265)	Stream (H.264)			
1 MP	1280 x 720	640 x 360	30 fps	32	960 fps
2 MP	1920 x 1080	640 x 360	30 fps	32	960 fps
3 MP	2048 x 1536	640 x 480	30 fps	32	960 fps
4 MP	2560 x 1440	640 x 360	25 fps	32	800 fps
5 MP	2592 x 1944	640 x 480	30 fps	32	960 fps

GV-VMS

Resolution	Dual-stream Resolution		Max. Frame Rate / Camera	Channel	Total Frame Rate / System
	Stream 1 (H.264)	Stream (H.264)			
1.3 MP	1280 x 1024	320 x 256	30 fps	64	1920 fps
2 MP	1920 x 1080	448 x 252	30 fps	64	1920 fps
3 MP	2048 x 1536	320 x 240	30 fps	64	1920 fps
5 MP	2560 x 1920	320 x 240	25 fps	64	1600 fps
8 MP	3840 x 2160	1280 x 720	25 fps	64	1600 fps
12 MP	4000 x 3000	1024 x 768	15 fps	64	960 fps

Resolution	Dual-stream Resolution		Max. Frame Rate / Camera	Channel	Total Frame Rate / System
	Stream 1 (H.265)	Stream (H.264)			
1 MP	1280 x 720	640 x 360	30 fps	64	1920 fps
2 MP	1920 x 1080	640 x 360	30 fps	64	1920 fps
3 MP	2048 x 1536	640 x 480	30 fps	64	1920 fps
4 MP	2560 x 1440	640 x 360	25 fps	64	1600 fps
5 MP	2592 x 1944	640 x 480	30 fps	64	1920 fps

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

GV-NVR

Resolution	Single-Stream Resolution (H.264)	Max. Frame Rate / Camera	Channel	Total Frame Rate / System
1.3 MP	1280 x 1200	15 fps	32	480 fps
2 MP	1440 x 1376	15 fps	32	480 fps
3 MP	2048 x 1536	15 fps	32	480 fps
4 MP	2048 x 1944	15 fps	27	405 fps
5 MP	2560 x 1920	10 fps	32	320 fps
8 MP	2896 x 2768	25 fps	12	300 fps
12 MP	4000 x 3000	15 fps	13	195 fps

GV-VMS

Resolution	Single-Stream Resolution (H.264)	Max. Frame Rate / Camera	Channel	Total Frame Rate / System
1.3 MP	1280 x 1200	15 fps	61	915 fps
2 MP	1440 x 1376	15 fps	57	855 fps
3 MP	2048 x 1536	15 fps	36	540 fps
4 MP	2048 x 1944	15 fps	27	405 fps
5 MP	2560 x 1920	10 fps	41	410 fps
8 MP	2896 x 2768	25 fps	12	300 fps
12 MP	4000 x 3000	15 fps	13	195 fps

For Third-Party Camera (Single Stream GPU Decode)

GV-NVR

Resolution	Single-Stream Resolution (H.264)	Max. Frame Rate / Camera	Channel	Total Frame Rate / System
1.3 MP	1260 x 1024	30 fps	32	960 fps
2 MP	1920 x 1080	30 fps	32	960 fps
3 MP	2048 x 1536	20 fps	32	640 fps
4 MP	2048 x 1944	15 fps	32	480 fps
5 MP	2560 x 1920	10 fps	32	320 fps
8 MP	3840 x 2160	30 fps	10	300 fps
12 MP	4000 x 3000	15 fps	14	210 fps

GV-VMS

Resolution	Single-Stream Resolution (H.264)	Max. Frame Rate / Camera	Channel	Total Frame Rate / System
1.3 MP	1260 x 1024	30 fps	60	1800 fps
2 MP	1920 x 1080	30 fps	38	1140 fps
3 MP	2048 x 1536	20 fps	39	780 fps
4 MP	2048 x 1944	15 fps	44	660 fps
5 MP	2560 x 1920	10 fps	54	540 fps
8 MP	3840 x 2160	30 fps	10	300 fps
12 MP	4000 x 3000	15 fps	14	210 fps

Note:

1. The test data shown in the tables above were obtained using Core i7 and 16 GB RAM.
2. 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.