

GV-Mini System



Introduction

Equipped with Intel Mini-STX motherboard form factor, GV-Mini System is a mini PC but has the advantage of using a regular desktop CPU. GV-Mini System is available in 3 types of CPU Cores (i3, i5 and 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 gives the possibility for VESA mounting on the rear of a monitor.

Features

- Mini PC with Intel Mini-STX form factor
- Powerful desktop CPU: Intel Core i3 / i5 / i7
- 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
- 19V, 120W Power Adapter
- Power Cord (by regions)
- Download Guide

Supported Software

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

Specifications

System			
CPU	Intel Core i3	Intel Core i5	Intel Core i7
OS	64-bit Windows 10 IoT Enterprise		
Memory	8 GB DDR4 2400 MHz (4 GB x 2)		GV-FR Server/GV-Smart Retail: 8 GB DDR4 2400 MHz (4 GB x 2) GV-NVR/GV-VMS/GV-ASManager: 16 GB DDR4 2400 MHz (8 GB x 2)
Graphics	Intel® HD Graphics		
Audio	Realtek Audio		
LAN	Intel® Gigabit LAN		
OS SSD	GV-FR Server/GV-Smart Retail: 256 GB MLC SSD GV-NVR/GV-VMS/GV-ASManager: 64 GB MLC SSD		
Internal Storage Interface	GV-FR Server/GV-Smart Retail: 2.5" HDD/SSD x 1 GV-NVR/GV-VMS/GV-ASManager: 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) 		<ul style="list-style-type: none"> - 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 		<ul style="list-style-type: none"> - LAN - DC Jack - COM port
	Note: Three graphics output options, VGA, HDMI and DP, support two monitors simultaneously.		
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: All specifications are subject to change with 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

Note: The data shown in the tables below were obtained using the model with Core i7 and 16 GB RAM.

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