

GV-MINI DVR SYSTEM (M Series)

GV-2008M V2 / GV-2004M V2 / GV-1480M V2 /
GV-1240M V2 / GV-1120M V2 / GV-800M V2



- Dual gigabit LAN
- Compatible with full selections of GeoVision accessories
- User-friendly software interface
- Enhanced network security with RSA encryption
- Recovery DVD in case of system failure
- HD drive hot swappable
- Built-in IR remote control receiver
- PCI slot expandable
- eSATA Connector
- Operate on Windows XP Embedded System
- Latest GeoVision surveillance software pre-installed and upgradeable
- Compatible with GeoVision value-added optional products
- 24-hour technical support
- Complete product information and testing reference
- Available in 14 languages

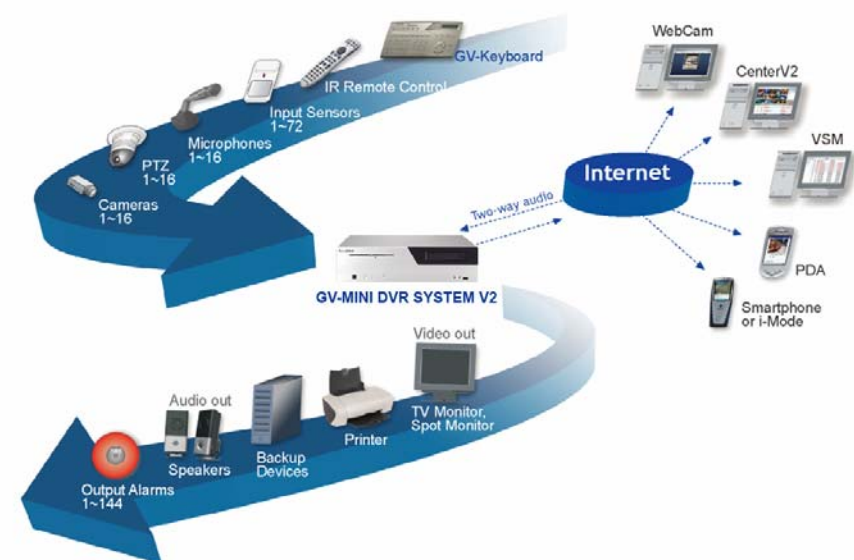
Introduction

Featuring small size and lightweight, the GV-MINI DVR System V2 is designed for small businesses and consumers who demand powerful surveillance system.

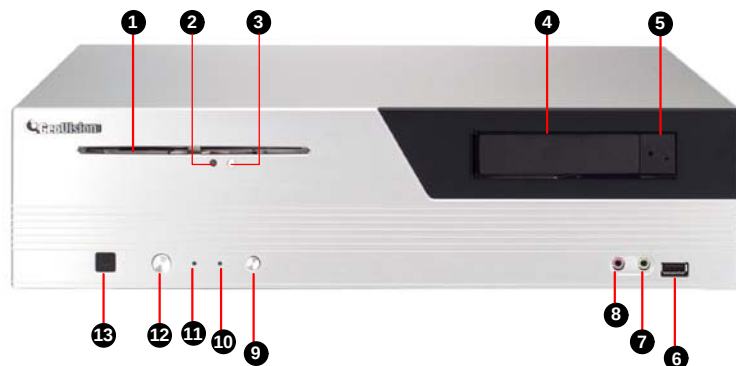
The GV-MINI DVR V2 weights 6.25 Kg and measures 395 (W) x 100 (H) x 300 (D) mm (16 x 4 x 12 inch) with a compact size smaller than a traditional 4U rackmount DVR system.

Despite its small lightweight design, the GV-MINI DVR V2 is a powerful surveillance system that features 16 audio and video channels with a maximum of 480FPS (NTSC) and 400FPS (PAL) recording rate. Its networking capability offers remote access and control over the system, while GeoVision's new compression formats provide superior video transmission and quality. In addition, flexibility and availability of a wide range of accessories cater to any type of installation or budget needs.

The GV-Mini DVR V2 is full of great features, yet small enough for space concerned and cost effective applications.



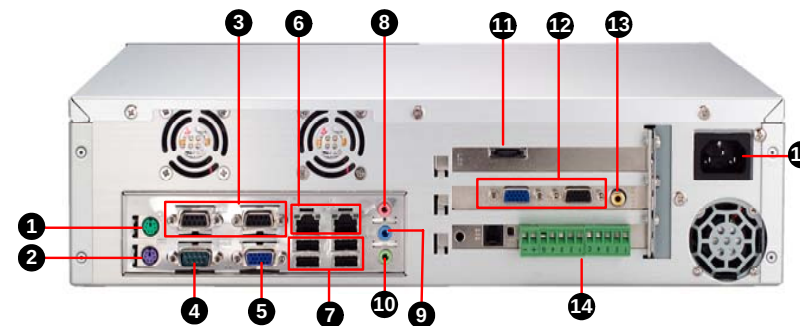
Front Panel View –



1	DVD-ROM Drive	8	Microphone
2	DVD-ROM Drive Read LED	9	Reset Button
3	DVD-ROM Drive Eject Button	10	HDD Read / Write LED
4	Hot Swap Drive Bay	11	Power LED
5	Hot Swap Drive Eject Button	12	Power Button
6	USB Port	13	IR Remote Control Receiver
7	Speaker		

Rear Panel View –

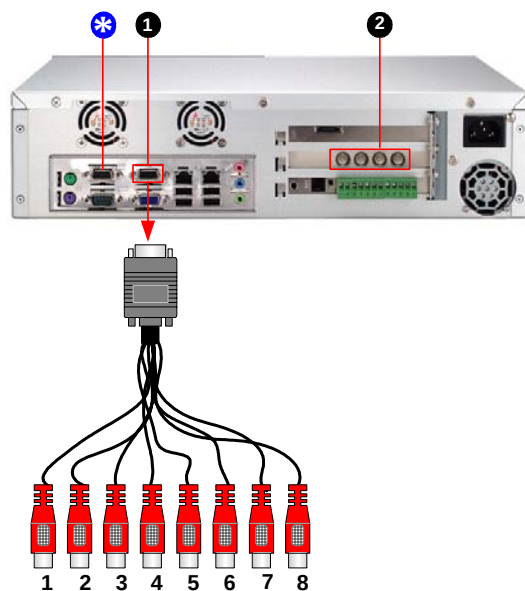
GV-2008M V2, GV-2004M V2, GV-1480M V2, GV-1240M V2, GV-1120M V2



Important: On the rear panels of GV-2004M V2 and GV-2008M V2, the D-Type Audio Ports (No.3, Figure 2) are not functional.

1	PS/2 Mouse Input	9	Audio Line In Port
2	PS/2 Keyboard Input	10	Audio Line Out Port
3	D-Type Audio Port x 2	11	eSATA Connector
4	COM 1	12	D-Type Video Port x 2
5	VGA Monitor Output	13	RCA TV Output
6	Ethernet Port x 2	14	GV-Net I/O Card (option for change)
7	USB Port x 4	15	AC Power Input (full range)
8	Audio Microphone In Port		

Rear Panel View – GV-800M V2



1	D-Type Audio Port	*	Not functional
2	BNC Video Port x 4		

Note: GV-800M V2 only supports 4 audio channels, so only port 1 to port 4 of the supplied D-Type audio cable can work.

Models

The GV-Mini DVR V2 has the following models:

GV-2008M V2	- Eight-channel digital video recorder - Records up to 240 (NTSC) / 200 (PAL) fps at the D1 resolution
GV-2004M V2	- Four-channel digital video recorder - Records up to 120 (NTSC) / 100 (PAL) fps at the D1 resolution
GV-1480M V2	- Sixteen-channel digital video recorder - Records up to 480 (NTSC) / 400 (PAL) fps at the CIF resolution
GV-1240M V2	- Eight-channel or sixteen-channel digital video recorder - Records up to 240 (NTSC) / 200 (PAL) fps at the CIF resolution
GV-1120M V2	- Sixteen-channel digital video recorder - Records up to 120 (NTSC) / 100 (PAL) fps at the CIF resolution
GV-800M V2	- Four-channel digital video recorder - Records up to 120 (NTSC) / 100 (PAL) fps at the CIF resolution

System

Model	GV-2008M V2	GV-2004M V2	GV-1480M V2	GV-1240M V2	GV-1120M V2	GV-800M V2					
CPU	Intel Pentium 4 3.0 GHz, 800MHz FSB										
RAM	1GB (512MB x 2) Dual Channel	512MB (256MB x 2) Dual Channel									
Storage Device	1 hot swap drive bay										
OS	Microsoft Windows XP Embedded										
VGA	Intel GMA 900										
DirectX	9.0c										
DVD(±)RW	4X										
Fan	3 x 80 mm fans on both sides; 2 x 40 mm fans on the rear panel										
Power	220W, 115-230V, 60-50Hz										

* Multiple options for the HDD capacity and amount of RAM are available to meet different needs. Please contact your dealer or sales representative for further information.

Video

Model	GV-2008M V2	GV-2004M V2	GV-1480M V2	GV-1240M V2	GV-1120M V2	GV-800M V2
Video Standard	NTSC, PAL					
Video Input	8 channels	4 channels	16 channels	8 / 16 channels	16 channels	4 channels
Input Level	1.0 Vp-p (± 10%) Composite, 75 Ω					
TV Output	1.0 Vp-p composite					
Compression	H/W: MPEG-2, MPEG-4 (ASP) S/W: Geo MPEG4 / Geo Mpeg4 (ASP) / Geo H264		Geo MPEG4, Geo Mpeg4 (ASP), Geo H264			
Display Frame (Max)	NTSC	240 FPS	120 FPS	480 FPS		120 FPS
	PAL	200 FPS	100 FPS	400 FPS		100 FPS
Display Resolution	NTSC	360 x 240 / 720 x 480 / 720 x 480 De-interlace		360 x 240 / 640 x 480 / 640 x 480 De-interlace / 720 x 480 / 720 x 480 De-interlace		
	PAL	360 x 288 / 720 x 576 / 720 x 576 De-interlace		360 x 240 / 640 x 480 / 640 x 480 De-interlace / 720 x 576 / 720 x 576 De-interlace		
Camera Name	Max. 32 characters					
Screen Split Control	1x1 / 2x2 / 1+5 / 1+7 / 3x3 / 2+8 / 1+12 / 1+16 / 4x4					
Screen Rotate Control	1 ~ 10 sec.					
Image Control	Contrast, Brightness, Saturation, Hue					

Recording

Model		GV-2008M V2	GV-2004M V2	GV-1480M V2	GV-1240M V2	GV-1120M V2	GV-800M V2
Recording Frame	NTSC	H/W: 240 (D1)	H/W: 120 (D1)	S/W: 480 (CIF)	S/W: 240 (CIF)	S/W: 120 (CIF)	S/W: 120 (CIF)
	PAL	H/W: 200 (D1)	H/W: 100 (D1)	S/W: 400 (CIF)	S/W: 200 (CIF)	S/W: 100 (CIF)	S/W: 100 (CIF)
Image Compression Dimensions	NTSC	720 x 480 / 720 x 480 De-interlace		360 x 240 / 640 x 480 / 640 x 480 De-interlace / 720 x 480 / 720 x 480 De-interlace			
	PAL	720 x 576 / 720 x 576 De-interlace		360 x 240 / 640 x 480 / 640 x 480 De-interlace / 720 x 576 / 720 x 576 De-interlace			
Recording Mode		Round the Clock / Motion Detection / Sensor Detection / Pre & Post Recording / Schedule Recording					
Schedule		96 groups per day by 15 min.					
Pre Recording		1~ 90 sec. (1 FPS)					
Water Marking		Support					

Audio

Model	GV-2008M V2	GV-2004M V2	GV-1480M V2	GV-1240M V2	GV-1120M V2	GV-800M V2
Audio Input	8 channels	4 channels	16 channels	16 / 8 channels	16 channels	4 channels
Input Level	0.5 ~ 1 Vp-p composite					
Compression	ADPCM / G.723					

Searching and Playback

Search Method	Date / Time
Date / Time / Event Search	Selectable on the tree list and calendar
Log Search	Through the log data to find the video event / time
Backup Type	DVD+R (DL) / DVD-R (DL) / DVD+R / DVD+RW / DVD-R / DVD-RW / CD-R / CD-RW

Remote Client Software

Monitoring Environment	WebCam / Twin Server / CenterV2 / Remote Playback Server / Remote View / IP Multicast / VSM / Control Center / GView for PDA / MSView for Microsoft Smartphone / SSView Version 2 for Symbian Smartphone / SSView Version 3 for Nokia S60 2 nd and 3 rd / 3G Mobile Phone
WebCam Live View	Max. 16 channels transmission (Max. 200 channels accessible)
Remote Search	WebCam's Remote Playback / Remote Playback Server

System Monitoring and Recovery

Power Restoration	Power restored after AC power loss
Monitoring	Two independent Watchdogs (Hardware Watchdog + Software Watchdog)
Recovery DVD	Automatic system rebuild

Alarm

Sensor Input	Standard	4 inputs
	GV-IO 12-In Card (Optional)	16 inputs
	GV-IO Box w/ GV-RELAY Box (Optional)	8 ~ 72 inputs
Alarm Output	Standard	4 outputs
	GV-IO 12-Out Card (Optional)	16 outputs
	GV-IO Box w/ GV-RELAY Box (Optional)	16 ~ 144 outputs
Motion Detection	16 channels	

Connector

Model	GV-2008M V2	GV-2004M V2	GV-1480M V2	GV-1240M V2	GV-1120M V2	GV-800M V2
Video Input	BNC 4 / 8 / 16 ports					
Audio Input	RCA 4 / 8 / 16 ports					
Audio Microphone In	Mini stereo jack					
Audio Output	Mini stereo jack					
TV Output	RCA					N/A
RS±485 for PTZ Control	2-pin terminal					
Ethernet	RJ-45, 10/100/1000 Mbps x 2					
USB 2.0	Front: 1 port, Rear: 4 ports					
eSATA	Rear: 1 port					
Remote Access	TCP/IP					

Environment

Operating Temp.	10 ~ 45 °C (50 ~ 113 °F)
Humidity	0 ~ 80% RH (non-condensing)

Physical

IPC Case	Desktop PC
Color	Aluminum Silver
Dimensions (W x H x D)	395 (W) x 100 (H) x 300 (D) mm (16 x 4 x 12 inch)
Weight	6.25 Kg

Language

Type	English / Czech / French / German / Hebrew / Hungarian / Italian / Japanese / Polish / Portuguese (Brazil) / Russian / Spanish / Simplified Chinese / Traditional Chinese
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* Product design and specifications are subject to change without notice.

PTZ Support

Here is a list of the PTZ manufacturers and models supported by GeoVision:

	PTZ Manufacturer & Model	GV-System PTZ Option
1	Ademco (Juptier)	Ademco (Juptier)
2	Bosch (TC700/8560)	Bosch (TC700/8560)
3	Canon VC-C3	VCC3
4	Canon VC-C4	VCC4
5	CBC GANZ (ZC-S120 Series)	CBC GANZ (ZC-S120 Series)
6	Chiper (V9KRV)	Chiper (V9KRV)
7	D-Max Version Protocol	D-Max Dome
8	DiGi Dome (DOH-240)	DongYang Dome (DOH-240) / D-Max Dome
9	Direct Perception (PTU-D46)	Direct Perception (PTU Series)
10	DynaColor D-7720	DynaColor (D-7720/D7722) / DynaColor Dome
11	DynaColor D-7722	DynaColor Dome
12	DynaColor Version Protocol	DynaColor Dome
13	Elbex (Matrix/1000)	ELBEX (Matrix/1000)
14	Elitar (EL-PT830)	Pelco Dome
15	GKB (SPD-221)	GKB (SPD-221)
16	Hi-Sharp (HS-CC600)	HiSharp Pelco D
17	Hi-Sharp (HS-CC610)	HiSharp Pelco P
18	JEC Version Protocol	JEC Dome
19	JEC (ETXK8000)	Pelco Dome / JEC Dome
20	JVC (TK-S576B/S655)	JVC (TK-S5768B/S655)
21	Kalatel Cyber Dome with KTD-312	Kalatel Cyber Dome
22	Kampro 230X CCD Zoom Camera (GE Security)	Pelco Dome
23	Kampro Technology (K-ZC23)	Kampro Technology (K-ZC23)
24	Kenko (DMP23-H1)	Kenko (DMP23-H1)
25	LiLin PIH-7000 (17X)	Lilin (PIH)
26	LiLin PIH-7600 (22X)	Lilin (PIH)
27	LiLin PIH-7600PL	Lilin (PIH)
28	LiLin PIH-7625 (25X)	Lilin (PIH)
29	LG (LPT-OS553HQ)	LG (LPT-OS553HQ)
30	Mintron (54G2AHN/P)	Mintron
31	MESSOA (SDS600 Series)	MESSOS (SDS600 Series)
32	Minking Version Protocol	Minking Dome
33	Mintron (54G2AHN/P)	Mintron (54G2SHN/P)
34	MZC (IR6018DN)	Pelco Dome
35	NanWang (NVD 2300PNT)	NanWang (NVD 2300PNT)

36	Panasonic WV-CS850	Panasonic (WV-CS850)
37	Panasonic WV-CS854	Panasonic (WV-CS850)
38	PTZ in I/O	PTZ in I/O
39	Pelco/P-version Protocol	Pelco Dome
40	Pelco/D-version Protocol	Pelco Dome
41	Pelco (Spectra III)	Pelco (Spectra III)
42	SAE (DR-E588)	SAE (DR-E588)
43	Samsung (SPD-1600)	Samsung (SPD-1600)
44	Samsung (SPD-3300)	Samsung (SPD-3300)
45	Samsung (SCC-641)	Samsung (SCC-641/643)
46	Samsung (SCC-643)	Samsung (SCC-641/643)
47	Sensormatic (Ultra IV)	Sensormatic (Ultra IV)
48	Sony EVI-D100	Sony (EVI-D100)
49	Sony EVI-D100T	Sony (EVI-D100)
50	TOA (CC551)	TOA (CC551)
51	VIDO Dome	VIDO Dome
52	YAAN Version Protocol	YAAN Dome
53	Yoko (YK-2E00)	Pelco Dome

Note: This list is limited for the original models from the company mentioned above. Any third-party camera models, even claiming of the same protocol compatibility, may or may not work properly with GV-System. GeoVision takes no responsibility of such incompatibility.

For more information about PTZ manufacturers and models please visit [GeoVision website](http://www.geovision.com).

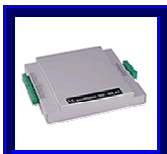
GeoVision Optional Products

Optional devices can expand your GV-Mini DVR V2's capabilities and versatility. Contact your dealer or go to GeoVision web-site for more information.



GV-I/O Box V2

The GV-I/O Box provides 16 inputs and 16 relay outputs. The new version of GV-I/O Box supports both DC and AC output voltages, and provides a USB port as well.



GV-RELAY Box

With 8-point relay outputs, this unit must be used in combination with GV-I/O Box. Up to 2 GV-RELAY Boxes can connect to 1 GV-I/O Box, highly expanding the GV-DVR's I/O capability.



GV-Data Capture V3 / V3E

GV-Data Capture V3 can integrate the GV-DVR to an electronic POS system, while GV-Data Capture V3E can establish such integration through LAN or Internet.



GV-Hub Box

An easy way for serial port extension. This hub can add 4 RS-232/RS-485 serial ports through the GV-DVR's USB port.



GV-COM Box

This unit can add 1 RS-232/RS-485 serial port through the GV-DVR's USB port.



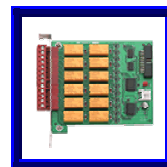
GV-Multi Quad Card

This card can take the video signal from the GV-Mini DVR V2 and then split it into 16 signals while maintaining video quality. It can meet the need for multiple spot monitors



GV-IO 12-In Card V3

With 12 digital inputs, the GV-IO 12-In Card is designed to work with the GV-NET/IO Card to provide an interface for your external devices such as sensors and detectors.



GV-IO 12-Out Card

With 12-point relay outputs, this card can expand the GV-DVR up to 16 alarm outputs.

GV-DOM (Disk on Module)

DOM, a solid-state hard drive, is used for operating system and system software to perform better under harsh conditions.

Other Optional Products

HDD	Multiple options for the HDD capacity are available to meet different needs. A maximum of 3 HDDs, including one in Hot Swap Drive Bay and two in GV-Mini DVR V2, can be installed.
RAM	Multiple options for the amount of RAM are available to meet different needs.

Note:

1. The purchased GV-series cards will be added on the GV-Mini DVR V2 before shipment.
2. Note that the purchase of GV-Multi Quad Card, GV-IO 12-In Card or GV-IO 12-Out Card will replace the default installation of GV-Net I/O Card.

Ordering Information

Model	Item	2008M V2	2004M V2	1480M V2	1240M V2	1120M V2	800M V2
Default	HDD	1 hot swap drive bay					
	VGA	Single Output					
	RAM	1GB (512MB x 2) Dual Ch	512MB (256MB x 2) Dual Channel				
Other Optional Products	HDD (Total GB)	320GB / 500GB / 750GB * Multiple options for the HDD capacity are available to meet different needs. A maximum of 3 HDDs, including one in Hot Swap Drive Bay and two in GV-Mini DVR V2, can be installed.					
	RAM (Total)	2GB	1GB / 2GB				
GeoVision Optional Products	DOM (Disk On Module)	Yes / No					
	GV-Video Loop Through Card	Yes / No					
	GV-IO 12-In Card	Yes / No					
	GV-IO 12-Out Card	Yes / No					
	GV-Multi Quad Card	Yes / No					
	GV-I/O Box	Yes / No					
	GV-Relay Box	Yes / No					
	GV-Data Capture	V3 / V3E					
	GV-Hub	Yes / No					
	GV-Com	Yes / No					

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