

GV-Hot Swap DVR System V4

2 Bay Model



4 / 8 Bay Model



20 Bay Model



INTRODUCTION

The GV-Hot Swap DVR System V4 features a powerful data storage capacity. It comes with a selection of 2, 4, 8, or 20 bays via hot-swappable SATA mobile racks. Depending on HDD size, the GV-Hot Swap DVR System V4 can reach the maximum storage capacity of 30 terabytes. Support for hot-swapping makes data storage and management more convenient.

GeoVision Surveillance System empowers the GV-Hot Swap DVR System V4 with a maximum of 32 audio and video channels, and a recording rate of up to 960 FPS (NTSC) / 800 FPS (PAL). Its networking capability makes the remote access and control of the system possible. Additionally, its compatibility with other GeoVision accessories can cater to any kind of needs or budgets. By extending the compatibility to the third-party IP devices, both GeoVision Surveillance System and GV-NVR provide a pure IP solution to GV-Hot Swap DVR System V4.

KEY FEATURES

- ▶ Powered by Intel® Core™2 Quad
- ▶ Support 32-channel GV-DVR & GV-NVR (Pure IP surveillance)
- ▶ Dual / triple-monitor display
- ▶ Maximum storage capacity of more than 30 terabytes
- ▶ Hot-swap status LED panel
- ▶ Dual Gigabit LAN ports
- ▶ 2 / 4 / 8 / 20 hot-swap SATA HDDs for data storage
- ▶ Built-in 4 inputs and 4 outputs **
- ▶ Extreme performance for GV-DVR and GV-NVR operation
- ▶ Recovery DVD in case of failure
- ▶ RAID 0 / 1 / 5 / 6 data protection (optional)*
- ▶ Compatible with full selections of GeoVision accessories

* Only for 8-bay models

** Not available for 2-bay models

AVAILABLE MODELS

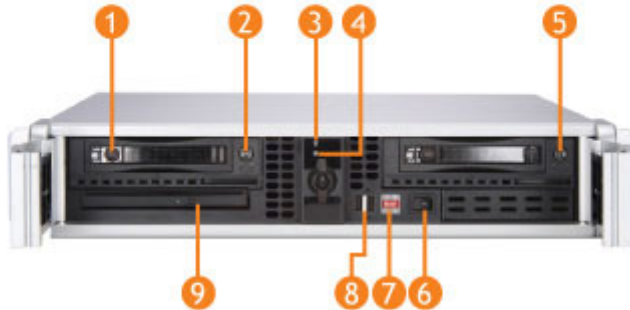
- ▶ GV-2016H V4
- ▶ GV-2008H V4
- ▶ GV-1480H V4
- ▶ GV-1248H V4
- ▶ GV-1240H V4
- ▶ GV-1120H V4
- ▶ GV-NVRH V4



2-Bay Models

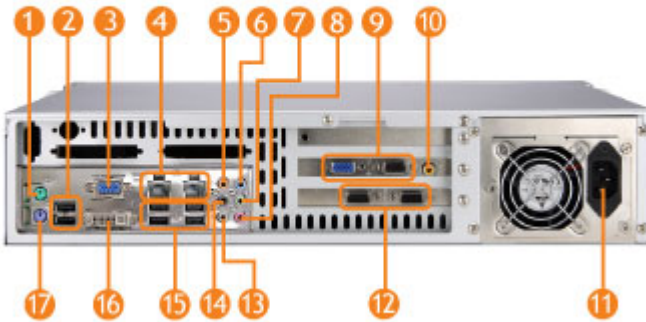
GV-2008H V4 / 1480H V4 / 1240H V4 / 1120H V4

Front View



1. Safety Lock
2. HDD 1 (Power Switch)
3. Power LED
4. Hard Drive Activity LED
5. HDD 2 (Power Switch)
6. Power Switch
7. Reset Button
8. USB Port x 2
9. Slim DVD (±) RW Drive

Rear View



1. PS/2 Mouse Input
2. USB Port x 2
3. VGA Monitor Output
4. Ethernet Port x 2
5. Center / Subwoofer Port
6. Audio Line In Port
7. Audio Line Out Port
8. Audio microphone In Port
9. D-Type Video Port x 2 (1-8, 9-16)
10. RCA TV Output
11. AC Power Input (Full Range)
12. D-Type Audio Port x 2 (1-8, 9-16)
13. Side R/L Port
14. Rear R/L Port
15. USB Port x 4
16. DVI-D Output
17. PS/2 Keyboard Input

GV-NVRH V4

Rear View



4 / 8 -Bay Models

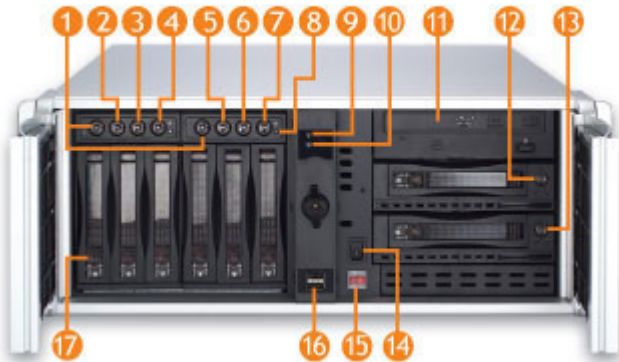
GV-2016H V4 / 2008H V4 / 1480H V4 / 1240H V4 / 1120H V4 / NVRH V4

Front View -- LED Panel



LED Color	Description
Gray	- No HDD is assigned to this LED. - GV-System is not started.
Green	A HDD is assigned to this LED.
Red	The HDD is full.
Flashing Green	GV-System is recording or the video / audio files are played back with ViewLog.
Flashing Red	The HDD is recycling.
Flashing Green and Red	The operating system or GV-System freezes.

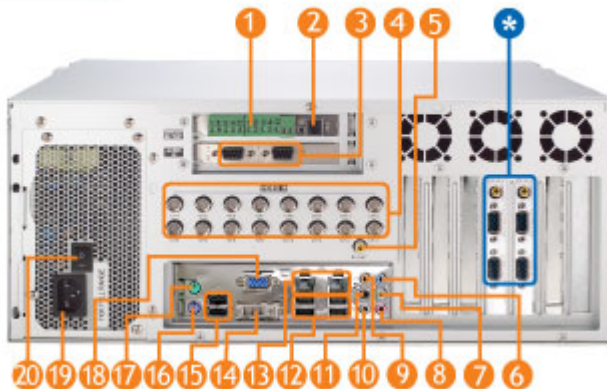
Front View



- | | |
|--------------------------------|-----------------------------|
| 1. SATA Backplane Reset Switch | 10. Hard Drive Activity LED |
| 2. HDD 1 (Power Switch) | 11. DVD (±) RW Drive |
| 3. HDD 2 (Power Switch) | 12. HDD 7 (Power Switch) |
| 4. HDD 3 (Power Switch) | 13. HDD 8 (Power Switch) |
| 5. HDD 4 (Power Switch) | 14. Power Switch |
| 6. HDD 5 (Power Switch) | 15. Reset Button |
| 7. HDD 6 (Power Switch) | 16. USB Port x 2 |
| 8. Fan Sensor LED | 17. Safety Lock |
| 9. Power LED | |

GV-2016H V4 / 2008H V4

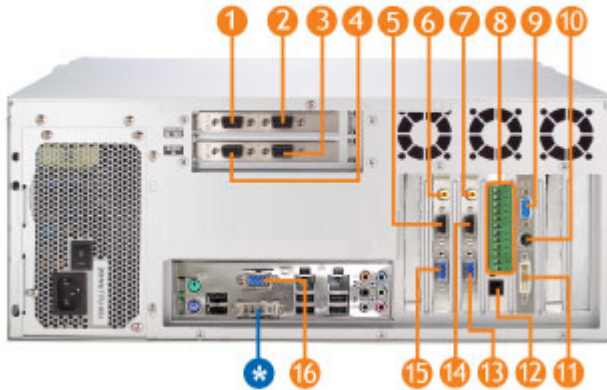
Rear View



- | | |
|----------------------------------|---------------------------------|
| 1. I/O and RS-485±Terminal Block | 12. USB Port x 4 |
| 2. RJ-11 Port | 13. Ethernet Port x 2 |
| 3. D-Type Audio 1-16 | 14. DVI-D Output |
| 4. BNC Connector x 16 | 15. USB Port x 2 |
| 5. RCA TV Output | 16. PS/2 Keyboard Input |
| 6. Audio Line In Port | 17. PS/2 Mouse Input |
| 7. Audio Line Out Port | 18. VGA Monitor Port |
| 8. Audio Microphone In Port | 19. AC Power Input (Full Range) |
| 9. Center / Subwoofer Port | 20. AC Power Switch |
| 10. Side R/L Port | * Not recommended for use |
| 11. Rear R/L Port | |

GV-1480H V4 / 1240H V4 / 1120H V4 (32 Channels)

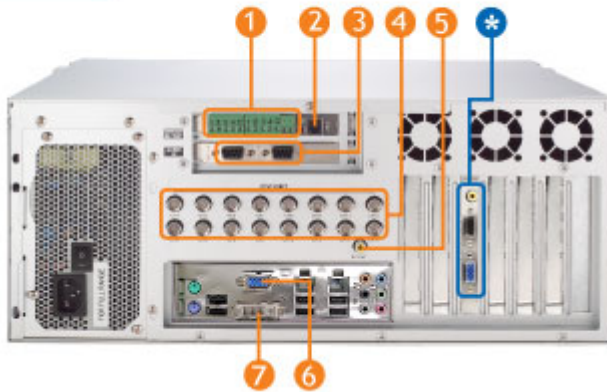
Rear View -- 32 Channels



- 1. D-Type Audio 1-8
 - 2. D-Type Audio 9-16
 - 3. D-Type Audio 25-32
 - 4. D-Type Audio 17-24
 - 5. D-Type Video 1-8
 - 6. RCA TV Output 1-16
 - 7. RCA TV Output 17-32
 - 8. I/O and RS-485±Terminal Block
 - 9. VGA Monitor Output
 - 10. S-Video Output
 - 11. DVI-I Output
 - 12. RJ-11 Port
 - 13. D-Type Video 25-32
 - 14. D-Type Video 17-24
 - 15. D-Type Video 9-16
 - 16. VGA Monitor Output
- * Not Functional

GV-1480H V4 / 1240H V4 / 1120H V4 (16 Channels)

Rear View -- 16 Channels



- 1. I/O and RS-485±Terminal Block
 - 2. RJ-11 Port
 - 3. D-Type Audio 1-16
 - 4. BNC Video Connector x 16
 - 5. RCA TV Output
 - 6. VGA Monitor Output
 - 7. DVI-D Output
- * Not recommended for use

GV-NVRH V4

Rear View

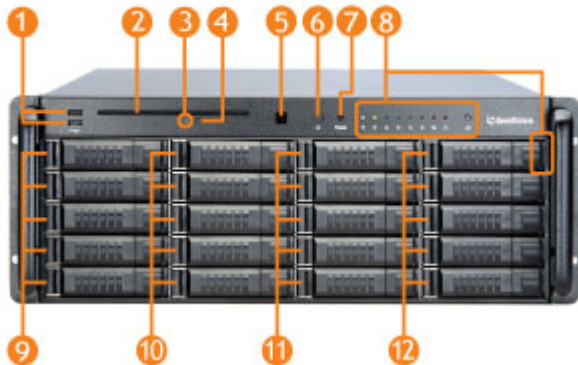


- 1. I/O Terminal Block
- * RS-485± Terminal Block (Not Functional)

20 -Bay Models

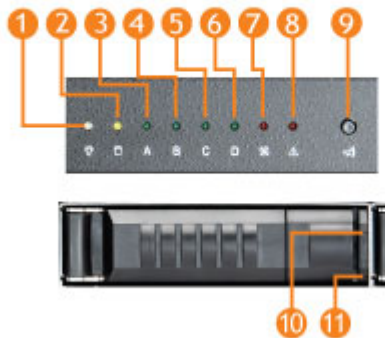
GV-2016H V4 / 2008H V4 / 1480H V4 / 1240H V4 / 1120H V4 / NVRH V4

Front View



- 1. USB Port x 2
- 2. DVD(±) RW Drive
- 3. DVD(±) RW Drive Activity LED
- 4. DVD-eject button
- 5. Built-in GV-IR Remote Control Receiver
- 6. Power Button
- 7. Reset Button
- 8. LED Panel (See LED Panel for details.)
- 9. HDD Group A
- 10. HDD Group B
- 11. HDD Group C
- 12. HDD Group D

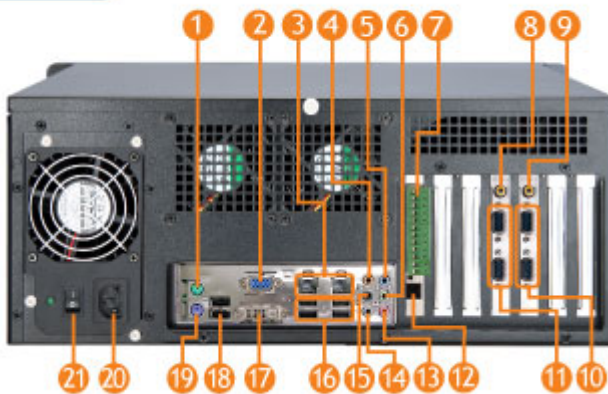
Front View -- LED Panel



	LED	Description
1	Power LED	The LED shines when the power is on.
2	HDD Activity LED	The LED shines when the HDDs are writing or reading data.
3	HDD Group A LED	The LEDs of HDD Group A to D shine when the power is on.
4	HDD Group B LED	
5	HDD Group C LED	
6	HDD Group D LED	
7	System Alert LED	The LED shines and the system sounds on if one fan stops or the GV-Hot Swap DVR V3 is overheated.
8	Alert LED	(reserved)
9	Alarm Mute Button	Press this button to silence the alarm when the System Alert LED shines and the system sounds.
10	HDD Power LED (White)	The LED shines white after the HDD is installed.
11	HDD Activity LED (Blue)	The LED shines blue if the HDD is reading or writing data.

GV-2016H V4 / 2008H V4

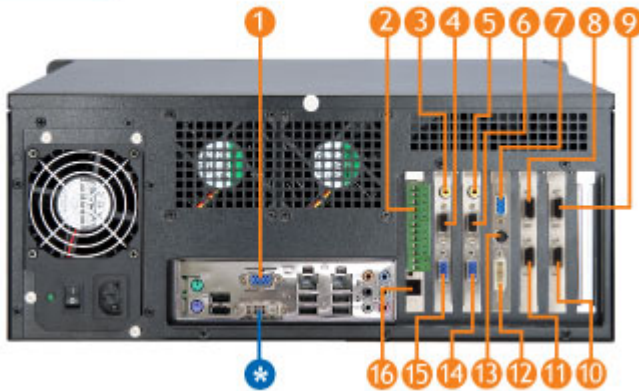
Rear View



- 1. PS/2 Mouse Input
 - 2. VGA Monitor Output
 - 3. Ethernet Port x 2
 - 4. Center / Subwoofer Port
 - 5. Audio Line In Port
 - 6. Audio Line Out Port
 - 7. I/O and RS-485± Terminal Block
 - 8. RCA TV Output 1-8
 - 9. RCA TV Output 9-16 *
 - 10. D-Type Video 9-16, D-Type Audio 9-16 *
 - 11. D-Type Video 1-8, D-Type Audio 1-8
 - 12. RJ-11 Port
 - 13. Audio Microphone In Port
 - 14. Side R / L Port
 - 15. Rear R / L Port
 - 16. USB Port x 4
 - 17. DVI-D Output
 - 18. USB Port x 2
 - 19. PS/2 Keyboard Input
 - 20. AC Power Input (Full Range)
 - 21. AC Power Switch
- Note: * are only available on the GV-2016H V4 model.

GV-1480H V4 / 1240H V4 / 1120H V4 (32 Channels)

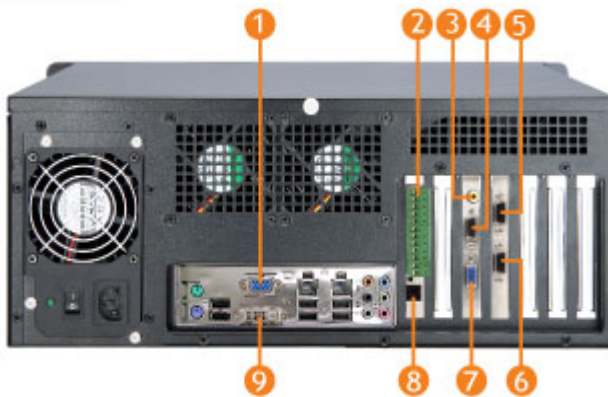
Rear View



- 1. VGA Monitor Output
- 2. I/O and RS-485± Terminal Block
- 3. RCA TV Output 1-16
- 4. D-Type Video 1-8
- 5. RCA TV Output 17-32
- 6. D-Type Video 17-24
- 7. VGA Monitor Output
- 8. D-Type Audio 1-8
- 9. D-Type Audio 17-24
- 10. D-Type Audio 25-32
- 11. D-Type Audio 9-16
- 12. DVI-D Output
- 13. S-Video Output
- 14. D-Type Video 25-32
- 15. D-Type Video 9-16
- 16. RJ-11 Port
- * Not functional

GV-1480H V4 / 1240H V4 / 1120H V4 (16 Channels)

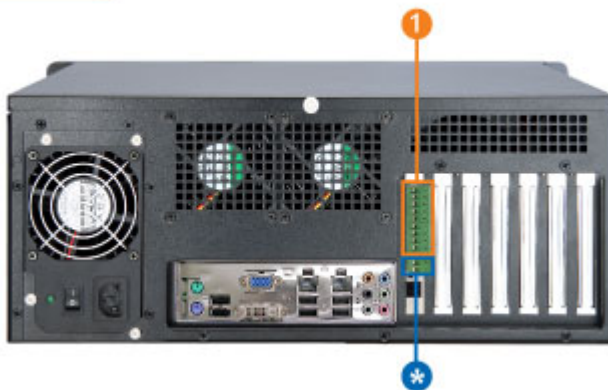
Rear View



- 1. VGA Monitor Output
- 2. I/O and RS-485± Terminal Block
- 3. RCA TV Output 1-16
- 4. D-Type Video 1-8
- 5. D-Type Audio 1-8
- 6. D-Type Audio 9-16
- 7. D-Type Video 9-16
- 8. RJ-11 Port
- 9. DVI-D Output

GV-NVRH V4

Rear View



- 1. I/O Terminal Block
- * RS-485± Terminal Block (Not Functional)

SPECIFICATIONS

		GV-2016H V4	GV-2008H V4	GV-1480H V4	GV-1240H V4	GV-1120H V4	GV-NVRH V4
Drive Bay		4 / 8 / 20 bays		2 / 4 / 8 / 20 bays			
CPU		Intel® Core 2 Quad™ Processor					
RAM		2GB Dual Channels					
Video	Codec	S/W : Geo MPEG4 / Geo MPEG4 (ASP) / Geo H264 / Geo H264 V2 H/W: MPEG-4 (ASP)		Geo MPEG4 / Geo MPEG4 (ASP) / Geo H264 / Geo H264 V2			MJPEG / MPEG4 / H.264
	Input	16 channels	8 channels	16/32 channels	8/16/32 channels	16/32 channels	NVR (GV): 4~32 channels NVR: 1~32 channels
Video Loop Output (Optional)		16 / 32 channels					
Audio	Compression	ADPCM / G.723					
	Input	16 channels	8 channels	16/32 channels	8/16/32 channels	16/32 channels	NVR (GV): 4~32 channels NVR: 1~32 channels
Display Frames (max)	NTSC	480 FPS	240 FPS	960 FPS			
	PAL	400 FPS	200 FPS	800 FPS			
Recording Frames	NTSC	H/W: 480 (D1)	H/W: 240 (D1)	S/W: 960 (CIF)	S/W: 480 (CIF)	S/W: 240 (CIF)	
	PAL	H/W: 400 (D1)	H/W: 200 (D1)	S/W: 800 (CIF)	S/W: 400 (CIF)	S/W: 200 (CIF)	
Video Resolution	NTSC	720x480 / 720x480 De-interlace		320x240 / 360x240 640x480 / 640x480 De-interlace / 720x480 / 720x480 De-interlace			
	PAL	720x576 / 720x576 De-interlace		320x240 / 360x288 640x480 / 640x480 De-interlace / 720x576 / 720x576 De-interlace			
Backup Type		DVD+R (DL) / DVD-R (DL) / DVD+R / DVD+RW / DVD-R / DVD-RW / CD-R / CD-RW					
Recovery DVD		Automatic system rebuild					
Alarm	Sensor Input	4 *					
	Alarm Output	4 *					
Connector	Ethernet	RJ-45, 10 / 100 / 1000 Mbps x 2					
	VGA Output	2 Monitors : DB-15 VGA Monitor Output + DVI-D Output (DVI-D signal Only)					
		3 Monitors : DB-15 VGA Monitor Output x 2 + DVI-I Output					
	USB 2.0	Front : 2 ports, Rear : 6 ports					
Remote Access		TCP/ IP, LAN, WAN, Internet, Modem Dial-up, Modem-to-Modem, ISDN					
Operating Temp.		0 ~ 45 °C (32 ~113 °F)					
Humidity		0~80% RH (non-condensing)					
Dimensions (W x H x D)	20 bays	483 x 178 x 660.4 (mm) / 19 x 7 x 26 (inch)					
	4/8 bays	483 x 178 x 528 (mm) / 19 x 7 x 21 (inch)					
	2 bays	483 x 89 x 528 (mm) / 19 x 3.5 x 21 (inch)					
Hardware Accessory		GV-Keyboard, GV-IR Remote Control					
RAID (Option for 8 & 10-bay models only)		0 / 1 / 5 / 6					
Optional Products		GV-Video Loop Through Card / GV-IO 12-In Card / GV-IO 12-Out Card / GV-Multi Quad Card / GV-IO Box 4 / GV-IO Box 8 / GV-IO Box 16 / GV-Data Capture Box Series / GV-Hub Box / GV-COM Box/ GV-DOM / GV-Joystick					
Languages		English / Czech / Danish / French / German / Hebrew / Hungarian / Italian / Japanese / Polish / Portuguese (Brazil) / Russian / Serbian / Spanish / Simplified Chinese / Traditional Chinese					

Note:

- The 2-bay and 20-bay models are available upon special request. Please contact your sales representative for further information.
- Functions with * marks are not available for 2-bay models.
- GV-Video Loop Through Card, GV-IO 12-In Card, GV-IO 12-Out Card and GV-Multi Quad Card are not available to all 2-bay models.
- GV-Video Loop Through Card and GV-Multi Quad Card are not available to GV-NVRH V4.
- Product design and specifications are subject to change without notice.