

# GV-Hot Swap System V6 (Rev. B) – 4U, 20-Bay



#### **INTRODUCTION**

GV-Hot Swap System V6 (Rev. B) features a powerful data storage capacity. It comes with hot-swappable SATA mobile racks in sizes of 4U (20-bay) and 2U (12 / 8-bay). Depending on HDD capacity, GV-Hot Swap System V6 (Rev. B) can store up to 400 terabytes of recorded data.

GeoVision surveillance software empowers GV-Hot Swap System V6 (Rev. B) with a maximum of 64 audio and video channels for GV-VMS, and 32 audio and video channels for GV-NVR. When installed with GV-Recording Server, GV-Hot Swap System V6 (Rev. B) can record up to 256 channels and distribute up to 600 channels to a variety of GeoVision software.

#### **KEY FEATURES**

- Powered by Intel Core i7 Processor
- 64-bit Windows 10 IoT Enterprise
- RAM 8 GB (for GV-NVR) / 16 GB (for GV-VMS / GV-Recording Server)
- H.265 CPU and GPU decoding
- Maximum storage capacity of up to 400 TB (4U 20-Bay) / 240 TB (2U 12-Bay) / 160 TB (2U 8-Bay)
- Hot-swap SATA HDDs for data storage
- Hot-swap status LED panel
- Dual 2.5 Gigabit LAN ports for GV-VMS / NVR and three 2.5 Gigabit LAN ports for GV-Recording Server
- Multiple monitor display for up to 3 monitors
- Compatible with full selections of GeoVision accessories
- 64-channel GV-VMS / 32-channel GV-NVR (pure IP surveillance)
- Up to 256 channels of recording and up to 600 channels of client distribution (for GV-Recording Server)
- Extreme performance for preinstalled GV-VMS / NVR / Recording Server software
- Anti-vibration feature to provide the disk throughput of 95% or higher
- Sliding rail kit for rackmount chassis with loading up to 80 KG
- RAID type: 0, 1, 5, 6, 10, 50, 60 (optional)
- Redundant Power Supply (optional)
- GV-AI Accelerator Module to enhance PVD detection channels and reduce CPU demand (optional)
- CE, FCC, LVD compliant (by request)



## **AVAILABLE MODELS**

- GV-VMSH V6 (Rev. B)
- GV-VMSH Pro V6 (Rev. B)
- GV-NVRH V6 (Rev. B)
- GV-Recording Server V6 (Rev. B)

### **SPECIFICATIONS**

ProcessorReferenceReferenceReferenceReferenceReferenceReferenceSet Set Set Set Set Set Set Set Set Set	System				
RAMServerB GB Dual ChannelsGV-NVR6 GB Dual ChannelsOS64-bit Windows 10 IoT EnterpriseNo. of HDDID (25 '/ 3.5" HDD)Internal Storage128 GB SSDHDD StorageUp to 400 TB*Up to 400 TB*Up to 400 TB*Op to 400 TB*ConnectorGV-WS / NVR: RJ-45, 2.5 GbE x 2 GV-WS / NVR: RJ-45, 2.5 GbE x 3 CV-Recording Server: RJ-45, 2.5 GbE x 3 CV-RS (Pro-A) x 1, USB 3.1 (Type-A) x 1, TSB 3.2 (Type-C) x 1 Rear: USB 2.0 (Type-A) x 1, USB 3.1 (Type-A) x 2, USB 3.2 (Type-C) x 1 Rear: USB 2.0 (Type-A) x 4, USB 3.2 (Type-A) x 2, USB 3.2 (Type-C) x 1Font: USB 2.0 (Type-A) x 1, USB 3.1 (Type-A) x 2, USB 3.2 (Type-C) x 1 Rear: USB 2.0 (Type-A) x 4, USB 3.1 (Type-A) x 2, USB 3.2 (Type-C) x 1Rear: USB 2.0 (Type-A) x 4, USB 3.1 (Type-A) x 2, USB 3.2 (Type-C) x 1 Rear: USB 2.0 (Type-A) x 4, USB 3.2 (Type-A) x 2, USB 3.2 (Type-C) x 1Font: USB 2.0 (Type-A) x 4, USB 3.1 (Type-A) x 2, USB 3.2 (Type-C) x 1 Rear: USB 2.0 (Type-A) x 4, USB 3.1 (Type-A) x 2, USB 3.2 (Type-C) x 1ModelGV-WSGV-WSGV-WSGV-WSGV-WS (GV GAC, GO-	CPU		Intel Core i7 Processor		
OS 64-bit Windows 10 IoT Enterprise   No. of HDD 20 (2.5" / 3.5" HDD)   Internal Storage 128 GB SSD   HDD Storage Up to 400 TB*   Connector Éthernet GV-VMS / NVR: RJ-45, 2.5 GbE x 2 GV-Recording Server: RJ-45, 2.5 GbE x 3   Video Output 3 Displays: HDMJ, DisplayPort, VGA   USB GV-PMS / NVR: RJ-45, 2.5 GbE x 3   Video Output 3 Displays: HDMJ, DisplayPort, VGA   USB GV-PMS / S.1 (Type-A) x 1, USB 3.1 (Type-A) x 1, USB 3.1 (Type-A) x 1, USB 3.2 (Type-A) X 1			16 GB Dual Channels		
No. of HDD   20 (2.5" / 3.5" HDD)     Internal Storage   128 GB SSD     HDD Storage   Up to 400 T8*     GV-Recording Server: R1-45, 2.5 GbE x 2 GV-Recording Server: R1-45, 2.5 GbE x 3   Storage     Yideo Output   3 Displays: HDMI, DisplayPort, VGA   GV-Recording Server: R1-45, 2.5 GbE x 3     Yideo Output   3 Displays: HDMI, DisplayPort, VGA   Rear: USB 2.0 (Type-A) x 1, USB 3.1 (Type-A) x 1, Rear: USB 2.0 (Type-A) x 4, USB 3.2 (Type-A) x 2, USB 3.2 (Type-C) x 1     Fan   S cm x 2   Storage   Output: 850W     Power   0utput: 100-240V AC, 50-60 Hz, 11-5.5A   Model   Output: 100-240V AC, 50-60 Hz, 11-5.5A     Model   Output: 100-240V AC, 50-60 Hz, 11-5.5A   GV-VMS (Pro)   Storage     Yideo Input   3 2 channels   64 channels     Audio Input   3 2 channels   64 channels     Yideo Compression   Geo MPEG4, Geo H.264 / H.265   Model     Video Compression   G2 channels   32 channels     Audio Input   3 2 channels   1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels     Yideo Compression   32 channels   32 channels     Audio Input   32 channels   32 channels     Yideo Compression   Geo MPEG4, Ge		GV-NVR	8 GB Dual Channels		
Internal Storage 128 GB SSD HDD Storage Up to 400 TB* GV-VMS / NVR: RJ-45, 2.5 GbE x 2 GV-VMS / NVR: RJ-45, 2.5 GbE x 3 GV-VMS / NVR: RJ-45, 2.5 GbE x 3 (iso 0 uput 3 Display: HDMI, DisplayPort, VGA iso 0 uput 3 Display: HDMI, DisplayPort, VGA iso 0 uput 8 Company (iso 0 uput 100 and 1	OS	1	64-bit Windows 10 IoT Enterprise		
HDD Storage   Up to 400 TB*     GV-VMS / NVR: RJ-45, 2.5 GbE x 2   GV-VMS / NVR: RJ-45, 2.5 GbE x 3     Connector   Video Output   3 Displays: HDM, DisplayPort, VGA     Video Output   3 Displays: HDM, DisplayPort, VGA   Image: USB 3.1 (Type-A) x 1, USB 3.1 (Type-A) x 1, USB 3.2 (Type-C) x 1     Fan   8 cm x 2   Image: USB 2.0 (Type-A) x 4, USB 3.2 (Type-A) x 2, USB 3.2 (Type-C) x 1     Power   0utput: 850W   Input: 100-240V AC, 50-60 Hz, 11-5.5A     Model   Output: 850W   Input: 100-240V AC, 50-60 Hz, 11-5.5A     Model   Output: 850W   GV-VMS (Pro)     Video and Audio   Imput: 100-240V AC, 50-60 Hz, 11-5.5A   GV-VMS (Pro)     Video Input   32 channels   64 channels        Video Input   32 channels   1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels     Video Input   32 channels   32 channels   32 channels     Video Input   32 channels   1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels     Video Compression   32 channels   32 chann	No. of HDD				
Ethernet   GV-VMS / NVR: RJ-45, 2.5 GbE x 2 GV-Recording Server: RJ-45, 2.5 GbE x 3     Video Output   3 Displays: HDMI, DisplayPort, VGA     USB   Front: USB 2.0 (Type-A) x 1, USB 3.1 (Type-A) x 1 Rear: USB 2.0 (Type-A) x 4, USB 3.2 (Type-A) x 2, USB 3.2 (Type-C) x 1     Fan   8 cm x 2     Power   Output: 850W Input: 100-240V AC, 50-60 Hz, 11-5.5A     Model   6V-VMS     Video and Audio   GV-VMS     Video Compression   64 channels     Audio Input   32 channels   64 channels     Video and Audio   GV-VNR (GV)   GV-NNR (3rd Party)     Video and Audio   32 channels   64 channels     Video Compression   Geo MPEG4, Geo H.264 / H.265   GV-NNR (3rd Party)     Video Input   32 channels   1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels     Video Compression   Geo MPEG4, Geo H.264 / H.265   32 channels     Video Input   32 channels   1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels     Video Compression   Geo MPEG4, Geo H.264 / H.265   32 channels     Video Compression   Geo MPEG4, Geo H.264 / H.265   32 channels     Video Compression   Geo MPEG4, Geo H.264 / H.265   32 channels <t< td=""><td>Internal Storage</td><td></td><td>128 GB SSD</td><td></td></t<>	Internal Storage		128 GB SSD		
Ethernet   GV-Recording Server: RJ-45, 2.5 GbE x 3     Video Output   3 Displays: HDMI, DisplayPort, VGA     USB   Front: USB 2.0 (Type-A) x 1, USB 3.1 (Type-A) x 1, Rear: USB 2.0 (Type-A) x 4, USB 3.2 (Type-A) x 2, USB 3.2 (Type-C) x 1     Fan   8 cm x 2     Power   0utput: 850W     Input: 100-240V AC, 50-60 Hz, 11-5.5A   OUtput: 850W     Model   0utput: 850W     Input: 100-240V AC, 50-60 Hz, 11-5.5A   OUTPO     Video and Audio   64 channels     Video Input   32 channels   64 channels     Audio Input   52 channels   64 channels     Video Compression   Geo MPEG4, Geo H.264 / H.265   GV-NVR (3rd Party)     Video Input   32 channels   64 channels     Video Input   32 channels   1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels     Video Input   32 channels   1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels     Video Compression   32 channels   32 channels     Video Input   32 channels   1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels     Video Compression   32 channels   32 channels     Video Compression   32 channels   32 channels<	HDD Storage		Up to 400 TB*		
GV-Recording Server: RJ-45, 2.5 GbE x 3ConnectorVideo Output3 Displays: HDMI, DisplayPort, VGAFon: USB 2.0 (Type-A) x 1, USB 3.1 (Type-A) x 1, USB 3.2 (Type-C) x 1Rear: USB 2.0 (Type-A) x 4, USB 3.2 (Type-A) x 2, USB 3.2 (Type-C) x 1Rear: USB 2.0 (Type-A) x 4, USB 3.2 (Type-A) x 2, USB 3.2 (Type-C) x 1Rear: USB 2.0 (Type-A) x 4, USB 3.2 (Type-A) x 2, USB 3.2 (Type-C) x 1Rear: USB 2.0 (Type-A) x 4, USB 3.2 (Type-A) x 2, USB 3.2 (Type-C) x 1Rear: USB 2.0 (Type-A) x 4, USB 3.2 (Type-A) x 2, USB 3.2 (Type-C) x 1Rear: USB 2.0 (Type-A) x 4, USB 3.2 (Type-A) x 2, USB 3.2 (Type-C) x 1Rear: USB 2.0 (Type-A) x 4, USB 3.2 (Type-A) x 2, USB 3.2 (Type-C) x 1Rear: USB 2.0 (Type-A) x 4, USB 3.1 (Type-A) x 2, USB 3.2 (Type-C) x 1Rear: USB 2.0 (Type-A) x 4, USB 3.2 (Type-A) x 2, USB 3.2 (Type-C) x 1Rear: USB 2.0 (Type-A) x 4, USB 3.1 (Type-A) x 2, USB 3.2 (Type-C) x 1Rear: USB 2.0 (Type-A) x 4, USB 3.1 (Type-A) x 2, USB 3.2 (Type-C) x 1Rear: USB 2.0 (Type-A) x 4, USB 3.1 (Type-A) x 2, USB 3.2 (Type-C) x 1Model ColGV-VMS (POVideo Input32 channelsGe MPEG4, Geo H.264 / H.265ModelGov MPEG4, Geo H.264 / H.265Mode Compression32 channels32 channels32 channels32 channels32 channelsSig Channels </td <td></td> <td>Ethorpot</td> <td>GV-VMS / NVR: RJ-45, 2.5 GbE x 2</td> <td></td>		Ethorpot	GV-VMS / NVR: RJ-45, 2.5 GbE x 2		
USB Front: USB 2.0 (Type-A) x 1, USB 3.1 (Type-A) x 2, USB 3.2 (Type-C) x 1   Fan 8 cm x 2   Power Output: 850W Input: 100-240V AC, 50-60 Hz, 11-5.5A GV-VMS   Model GV-VMS GV-VMS   Video and Audio S2 channels 64 channels   Video Input 32 channels 64 channels   Audio Input GV-NVR (GV) GV-NVR (GV)   Video Compression Gev MPE G4, Geo H.264 / H.265 GV-NVR (3rd Party)   Video Input 32 channels GV-NVR (3rd Party)   Video Input 32 channels 1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels   Audio Input 32 channels 1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels   Audio Input S2 channels 1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels   Audio Input S2 channels 1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels   Audio Input S2 channels 1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels   Video Compression Geo MPEG4, Geo H.264 / H.265 Model   Model Gev PEG4, Geo H.264 / H.265 Model   Model Gev PEG4, Geo H.264 / H.265 Model   Model Gev APEG4, Geo H.264 / H.265   Model Gev APEG4, Geo H.264 / H.265   Model<			GV-Recording Server: RJ-45, 2.5 GbE x 3		
USB   Rear: USB 2.0 (Type-A) x 4, USB 3.2 (Type-A) x 2, USB 3.2 (Type-C) x 1     Fan   8 cm x 2     Power   0utput: 850W Input: 100-240V AC, 50-60 Hz, 11-5.5A     Model   0 vMS     Video and Audio   64 channels     Video and Audio   32 channels     Video Compression   32 channels     Model   64 channels     Video Compression   62 com MEG4, Geo H.264 / H.265     Model   60 vNVR (GV)     Video Input   32 channels     Video Input   62 channels     Video Compression   62 vNVR (GV)     Video Input   32 channels     Video Compression   32 channels     Audio Input   32 channels     Video Compression   Geo MPEG4, Geo H.264 / H.265     Model   Gev MPEG4,	Connector	Video Output	3 Displays: HDMI, DisplayPort, VGA		
Rear: USB 2.0 (Type-A) x 4, USB 3.2 (Type-A) x 2, USB 3.2 (Type-C) x 1     Fan   8 cm x 2     Power   Output: 850W Input: 100-240V AC, 50-60 Hz, 11-5.5A     Model   6V-VMS     Video and Audio   6V-VMS     Video Input   32 channels   64 channels     Audio Input   32 channels   64 channels     Video Compression   6eo MPEG4, Geo H.264 / H.265   6V-NVR (3rd Party)     Video and Audio   52 channels   52 channels     Video Input   32 channels   6V-NVR (3rd Party)     Video Compression   62 channels   32 channels     Video Input   32 channels   32 channels     Video Compression   Geo MPEG4, Geo H.264 / H.265   32 channels     Video Compression   Geo MPEG4, Geo H.264 / H.265   32 channels     Video Compression   Geo MPEG4, Geo H.264 / H.265   32 channels     Video Compression   Geo MPEG4, Geo H.264 / H.265   32 channels <td></td> <td>LISB</td> <td>Front: USB 2.0 (Type-A) x 1, USB 3.1 (Type-A) x 1</td> <td></td>		LISB	Front: USB 2.0 (Type-A) x 1, USB 3.1 (Type-A) x 1		
Power   Output: 850W Input: 100-240V AC, 50-60 Hz, 11-5.5A     Model   GV-VMS   GV-VMS (Pro)     Video and Audio   S2 channels   64 channels     Video Input   32 channels   64 channels     Audio Input   32 channels   64 channels     Video Compression   Geo MPEG4, Geo H.264 / H.265   GV-NVR (3rd Party)     Video and Audio   Video and Audio   J. 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels     Video Input   32 channels   1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels     Video Input   32 channels   1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels     Video Input   Geo MPEG4, Geo H.264 / H.265   Streame     Video Compression   Geo MPEG4, Geo H.264 / H.265   Streame     Video Compression   Geo MPEG4, Geo H.264 / H.265   Streame     Video Compression   Geo MPEG4, Geo H.264 / H.265   Streame     Model   GV-Recording Server (GV)   Streame   Streame     Software Specifications   Z56 channels   Streame   Streame		050	Rear: USB 2.0 (Type-A) x 4, USB 3.2 (Type-A) x 2,	USB 3.2 (Type-C) x 1	
Power     Input: 100-240V AC, 50-60 Hz, 11-5.5A       Model     GV-VMS     GV-VMS (Pro)       Video and Audio     State Sta	Fan		8 cm x 2		
Input: 100-240V AC, 50-60 Hz, 11-5.5AModelGV-VMSGV-VMS (Pro)Video and Audio32 channels64 channelsAudio Input32 channels64 channelsVideo CompressionGeo MPEG4, Geo H.264 / H.265GV-NVR (3rd Party)Video and AudioVideo and AudioVideo Input32 channelsGV-NVR (3rd Party)Video Input32 channels1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsVideo Input32 channels1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsVideo CompressionGeo MPEG4, Geo H.264 / H.2651, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsVideo CompressionGeo MPEG4, Geo H.264 / H.2651, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsVideo CompressionGeo MPEG4, Geo H.264 / H.2651, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsVideo CompressionGeo MPEG4, Geo H.264 / H.2651, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsVideo CompressionGeo MPEG4, Geo H.264 / H.2651, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsVideo CompressionGeo MPEG4, Geo H.264 / H.2651, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsVideo CompressionGeo MPEG4, Geo H.264 / H.2651, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsVideo CompressionGeo MPEG4, Geo H.264 / H.2651, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsVideo CompressionGeo MPEG4, Geo H.264 / H.2651, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels	Dower		Output: 850W		
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Video Input32 channels64 channelsAudio Input32 channels64 channelsVideo CompressionGeo MPEG4, Geo H.264 / H.265ModelGV-NVR (GV)GV-NVR (3rd Party)Video and Audio32 channelsVideo Input32 channels1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsAudio Input32 channels1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsAudio Input32 channels1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsVideo CompressionGeo MPEG4, Geo H.264 / H.265ModelGV-Recording Server (GV)Software Specifications256 channelsNumber of IP Video Device Connections256 channels	Model		GV-VMS	GV-VMS (Pro)	
Audio Input32 channels64 channelsVideo CompressionGeo MPEG4, Geo H.264 / H.265GV-NVR (3rd Party)ModelGV-NVR (GV)GV-NVR (3rd Party)Video and Audio32 channels1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsAudio Input32 channels1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsAudio Input32 channels1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsVideo CompressionGeo MPEG4, Geo H.264 / H.265ModelGV-Recording Server (GV)Software Specifications256 channels	Video and Audio		1		
Video CompressionGeo MPEG4, Geo H.264 / H.265ModelGV-NVR (GV)GV-NVR (3rd Party)Video and AudioI, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsVideo Input32 channels1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsAudio Input32 channels1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsVideo CompressionGeo MPEG4, Geo H.264 / H.265ModelGV-Recording Server (GV)Software Specifications256 channels	Video Input		32 channels	64 channels	
ModelGV-NVR (GV)GV-NVR (3rd Party)Video and AudioVideo Input32 channels1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsAudio Input32 channels1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsVideo CompressionGeo MPEG4, Geo H.264 / H.265ModelGV-Recording Server (GV)Software Specifications256 channels	Audio Input		32 channels	64 channels	
Video and Audio     I     Video Input     32 channels     1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels       Audio Input     32 channels     1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels       Video Compression     Geo MPEG4, Geo H.264 / H.265     1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels       Video Compression     Geo MPEG4, Geo H.264 / H.265     1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels       Video Compression     Geo MPEG4, Geo H.264 / H.265     1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels       Video Compression     Geo MPEG4, Geo H.264 / H.265     1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels       Video Compression     Geo MPEG4, Geo H.264 / H.265     1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channels       Nodel     Gev-Recording Server (GV)     50 channels     50 channels       Number of IP Video Device Connections     256 channels     50 channels	Video Compression		Geo MPEG4, Geo H.264 / H.265		
Video Input32 channels1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsAudio Input32 channels1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsVideo CompressionGeo MPEG4, Geo H.264 / H.265ModelGV-Recording Server (GV)Software Specifications256 channelsNumber of IP Video Device Connections256 channels	Model		GV-NVR (GV)	GV-NVR (3rd Party)	
Video Input32 channels32 channelsAudio Input32 channels1, 2, 4, 6, 8, 10, 12, 16, 18, 20 22, 24, 26, 28, 30, 32 channelsVideo CompressionGeo MPEG4, Geo H.264 / H.265ModelGV-Recording Server (GV)Software SpecificationsZ56 channelsNumber of IP Video Device Connections256 channels	Video and Audio				
Audio Input 32 channels 32 channels   Video Compression Geo MPEG4, Geo H.264 / H.265 32 channels   Model GV-Recording Server (GV)   Software Specifications 256 channels   Number of IP Video Device Connections 256 channels	Video Input		32 channels		
Model GV-Recording Server (GV)   Software Specifications 256 channels	Audio Input		32 channels		
Software Specifications       Number of IP Video Device Connections     256 channels	Video Compression		Geo MPEG4, Geo H.264 / H.265		
Number of IP Video Device Connections     256 channels	Model		GV-Recording Server (GV)		
Number of IP Video Device Connections     256 channels	Software Specifications				
Number of Remote Client Connections 600 channels	Number of IP Video D	evice Connections	256 channels		
	Number of Remote Cl	ient Connections	600 channels		

Note:

1. The number of supported channels may vary depending on the resolution and codec of connected IP videos. If you want to know the number of supported channels according to your requirements, please write us at <a href="mailto:support@geovision.com.tw">support@geovision.com.tw</a> for more information.

- 2. The H.265 CPU and GPU decoding are only supported by GV-VMS V15.11.0.0 or later versions.
- 3. For HDD storage capacity of different brands, please see here for details.\*

Live View Playback (for GV-VMS / NVR)				
Image Control	Contrast / Brightness / Saturation / Hue			
Posserding Mode	Round the Clock / Motion Detection / Sensor Detection / Pre & Post Recording / Schedule			
Recording Mode	Recording			
Pre Recording 1~45 min.				
Instant Playback 10 sec. / 30 sec. / 1 min. / 5 min.				
Watermark Marking	Supported			
Searching and Backup (for GV-VMS / NVR)				
Search Method Date / Time / Camera / Event Type				
Backup Type <sup>1</sup>	DVD+R (DL) / DVD-R (DL) / DVD+R / DVD+RW / DVD-R / DVD-RW / CD-R / CD-RW			

Remote MonitoringNetwork TypeLAN, WAN, InternetMonitoring EnvironmentWeb browser (IE, Chrome, Firefox and Safari) Mobile device (Android and iOS)System MonitoringPower RestorationAutomatic restart after power outageMonitoringTwo independent Watchdogs (Hardware Watchdog + Software Watchdog)Peripheral DevicesAudio Microphone InMini stereo jackAudio OutputMini stereo jackAudio OutputO ~ 45 °C / 32 ~ 113 °FHumidityO ~ 80% RH (non-condensing)LanguageGV-VMSBulgarian / Czech / Danish / English / French / German / Greek / Hebrew / Hunga Japanese / Persian / Polish / Portuguese / Russian / Serbian / Simplified Chinese / Slovenian / Spanish / Traditional Chinese / TurkishGV-NVR / Recording ServerYes (Fan, Power, HDD)ColorBlack / sliverDimensions (W x H x D)442 x 175 x 660 mm / 17 x 7 x 26 inNet Weight20.7 kg / 45 lb (± 1 kg / 2.2 lb)	/ Slovakian / / Greek / Hebrew / Polish /		
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System Monitoring   Automatic restart after power outage     Power Restoration   Automatic restart after power outage     Monitoring   Two independent Watchdogs (Hardware Watchdog + Software Watchdog)     Peripheral Devices   Mini stereo jack     Audio Microphone In   Mini stereo jack     Audio Output   Mini stereo jack     Environment   0 ~ 45 °C / 32 ~ 113 °F     Operating Temp.   0 ~ 45 °C / 32 ~ 113 °F     Humidity   0 ~ 80% RH (non-condensing)     Language   Japanese / Persian / Polish / French / German / Greek / Hebrew / Hunga Japanese / Persian / Polish / Portuguese / Russian / Serbian / Simplified Chinese / Slovenian / Spanish / Traditional Chinese / Turkish     GV-NVR / Recording Server   Arabic / Bulgarian / Czech / Danish / Dutch / English / Finnish / French / German / Hungarian / Indonesian / Italian / Japanese / Lithuanian / Norwegian / Persian / Portuguese / Romanian / Russian / Serbian / Simplified Chinese / Slovenian / Sweish / Thai / Traditional Chinese / Turkish     Physical   ED Indicator   Yes (Fan, Power, HDD)     Color   Black / silver   Black / silver     Dimensions (W x H x D)   442 x 175 x 660 mm /17 x 7 x 26 in     Net Weight   20.7 kg / 45 lb (± 1 kg / 2.2 lb)	/ Slovakian / / Greek / Hebrew / Polish /		
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Net Weight     20.7 kg / 45 lb (± 1 kg / 2.2 lb)			
LED Indicator Chassis LED Panel 4 LEDs: Power x 1, OS HDD activity x 1, LAN x 2 (not functional)			
HDD LED Panel     2 LEDs: HDD Power, HDD activity			
Software License			
GV-NVR			
Free License 32 channels from GV-IP Cameras			
Optional Paid License2 ~ 32 channels from third-party IP Cameras (at increments of 2)			
Optional Combinations N/A			
Dongle Type Internal Dongle			
GV-VMS V17 (for free 32 GV Channels)			
Supported Devices Channels License			
GV-IP Devices Only 32 ch No license required			
64 ch GV-VMS Pro license required, 32 ch per license			
16 ch Trial Version: 16 channels of 3rd-Party IP devices			
32 ch 3rd-Party license required, in increments of 1 ch			
GV + 3rd-Party IP 2 licenses required:			
Devices 64 ch • GV-VMS Pro license, 32 ch per license.			
3rd-Party license, in increments of 1 ch			
License Type Internal Dongle or Software License			
GV-VMS V18 (for AI integration)			
Supported Devices Channels License			
32 ch Initial license			
2 licenses required:			
GV-IP Devices Only 64 ch • GV-VMS V18.1 or later initial license			
GV-VMS Pro license, 32 ch per license			
2 licenses required:			
32 ch • GV-VMS V18.1 or later initial license			
• <b>3rd-Party</b> license required, in increments of 1 ch			
GV + 3rd-Party IP 3 licenses required:			
Devices			
• GV-VMS V18.1 or later initial license			
• GV-VMS Pro license, 32 ch per license			
• 3rd-Party license, in increments of 1 ch			
License Type Internal Dongle or Software License			

GV-Recording Server	
Free License	N/A
Optional Paid License	256 channels
	1. <b>GV-IP video devices only:</b> 8, 16, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 84, 88, 92, 96,
	100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 144, 148, 152, 156, 160, 164, 168, 172, 176,
	180, 184, 188, 192, 196, 200, 204, 208, 212, 216, 220, 224, 228, 232, 236, 240, 244, 248, 252, 256
Increment for Each License	IP channels.
increment for Each License	2. Third-party IP devices (Includes GV-IP video devices): 8, 16, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68,
	72, 76, 80, 84, 88, 92, 96, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 144, 148, 152, 156,
	160, 164, 168, 172, 176, 180, 184, 188, 192, 196, 200, 204, 208, 212, 216, 220, 224, 228, 232, 236,
	240, 244, 248, 252, 256 IP channels.
Optional Combinations	N/A
Dongle Type	Internal
Regulatory	
Туре	CE, FCC, LVD compliant (by request)
Noto	

Note:

1. For backup function, you need to connect an external USB DVD/CD burner.

2. The disk throughput test was conducted by a 3rd-party HDD manufacturer. The level of vibration produced by the system's hard drive operation and fan energy is minimized to have an effect of less than 5% on the disk throughput when using 8 TB hard drives.

3. 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.

4. All damages to the power supply caused by unstable voltage are not included in the 2-year warranty service.

5. All specifications are subject to change without notice.

# TOTAL FRAME RATE AND MAX. NO. OF CHANNELS SUPPORTED

### For GV-IP Camera (Dual Streams)

Video Resolution	Dual-stream Resolution		Max. Frame Rate		Total Frame Rate /
	Stream 1 (H.264)	Stream 2 (H.264)	/ Camera	Channel	System
1.3 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 1520	640 x 360	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
8 MP	3840 x 2160	1280 x 720	25 fps	58	1450 fps
12 MP	4000 x 3000	1024 x 768	15 fps	64	960 fps

Video Resolution	Dual-stream Resolution		Max. Frame Rate	Channel	Total Frame Rate /
	Stream 1 (H.265)	Stream 2 (H.264)	/ Camera	Channel	System
1.3 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 360	30 fps	64	1920 fps
4 MP	2560 x 1440	640 x 360	25 fps	64	1600 fps
5 MP	2560 x 1920	640 x 360	30 fps	64	1920 fps
8 MP	3840 x 2160	640 x 360	20 fps	64	1280 fps

#### For GV-Fisheye Camera (Dual Stream De-warping)

Video Resolution	Dual-stream Resolution		Max. Frame Rate	Channel	Total Frame Rate /
	Stream 1 (H.264)	Stream 2 (H.264)	/ Camera	Channel	System
8 MP	2896 x 2768	640 x 608	25 fps	28	700 fps
12 MP	4000 x 3000	640 x 480	15 fps	26	390 fps
Video Resolution	Dual-stream Resolution		Max. Frame Rate	Channel	Total Frame Rate /
	Stream 1 (H.265)	Stream 2 (H.264)	/ Camera	Channel	System
3 MP	2048 x 1536	640 x 480	30 fps	41	1230 fps
5 MP	2592 x 1944	640 x 480	30 fps	40	1200 fps
12 MP	4000 x 3000	1024 x 768	20 fps	28	560 fps

#### For Third-Party IP Camera (Single Stream GPU Decoding)

Video 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:** 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.

#### **PACKING LIST**

- GV-Hot Swap System V6 (Rev. B)
- AC Power Cord
- Sliding rail kit
- Documents Download Guide

# **GeoVision**

## **OVERVIEW**

#### **Front Panel**



Rear Panel - GV-Hot Swap VMS / NVR System



Rear Panel - GV-Hot Swap Recording Server System



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#### **OPTIONS**

GV-AI Accelerator Module	GV-AI Accelerator Module increases the number of PVD motion detection channels in GV-VMS or GV-AI
(for GV-VMS)	Guard.
GV-Data Capture V3 Box	GV-Data Capture V3 allows the integration of POS systems and the GeoVision surveillance system through
(for GV-VMS / NVR)	cable or network connection.
GV-IO Box Series	GV-IO Box series provides 4 / 8 / 16 inputs and relay outputs, and supports both DC and AC output voltages,
(for GV-VMS / NVR)	with optional support for Ethernet module and 4E additionally supporting PoE connection.
GV-Joystick V2	GV-Joystick facilitates the PTZ camera control.
(for GV-VMS / NVR)	GV-JOYSTICK facilitates the PT2 camera control.
Cigabit Notwork Card	Gigabit Network Card is provided with the two options of 1-port Gb card and 2-port 10-Gb (20 Gb) card. The
Gigabit Network Card	supported number of network cards varies based on models and combination of RAID card. Contact our sales
(for GV-VMS / NVR)	representatives for more information.
RAID Card	The supported RAID types include 0, 1, 5, 6, 10, 50, 60.
	Redundant Power Supply comes with 2 hot-swap modules for 2U models and for 4U models. When 1 module
Redundant Power Supply	is down, the other module can still supply full power to the system.
	- 2U 8-Bay models: 460 W 1+1 mode; 100 ~ 240 V, 47 ~ 63 Hz
	- 2U 12-Bay models: 550 W 1+1 mode; 100 ~ 240 V, 47 ~ 63 Hz
	- 4U 20-Bay models: 800 W 1+1 mode; 90 ~ 264 V, 47 ~ 63 Hz

#### Note:

1. The optional accessories will be built in the GV-Hot Swap Surveillance System V6 (Rev. B) and tested before shipment. Opening the case and installing the accessories yourself will void the warranty.

2. The optional accessories are only supported in GV-Hot Swap Surveillance System V6 (Rev. B) or later.

3. Please contact our sales representatives for more information when combining optional cards for your system.