

## 4-Channel Compact DVR V3



GV-LX4C3D2



GV-LX4C3D2W



GV-LX4C3D1

## 4-Channel Compact DVR V3 Anti-Vibration ACC Model



GV-LX4C3V  
(ACC Model)

### INTRODUCTION

The four-channel GV-Compact DVR V3 is a mobile video recorder, simultaneously displaying real-time images from four cameras. The recording frame rate of each channel is adjustable up to 30 / 25 fps per channel at the resolution of 704 x 480 (NTSC) / 704 x 576 (PAL). The dual-stream design allows you to set up two different codec and resolutions for a single video transmission. In a limited bandwidth network, you can enable the dual streams to lower the resolution and codec for live images, but still get the highest recording quality and smallest file size compressed with H.264 codec.

The Anti-Vibration ACC model of the GV-Compact DVR V3 has already been tested to withstand severe levels of shock and vibration in mobile environments. It is perfect to be installed in any vehicles, such as buses and vans, for surveillance and recording.

The special design of the GV-Compact DVR V3 enables you to link up with TV, VGA and spot monitors simultaneously for direct display. The GV-Compact DVR V3 offers many features that you can expect to have.

## KEY FEATURES

### Recording

- Dual streams from H.264 and MJPEG
- Up to 120 fps at D1 resolution
- Independent channel resolution, quality and frame rate settings

### Local Display

- VGA output in high resolution (1280 x 1024)
- Display video on TV, VGA and Spot Monitor simultaneously
- GPS Speed Text overlay on live view and recordings

### Storage and Backup

- 3.5" or 2.5" SATA HDD (3.5" to 2.5" HDD converter required)
- External USB mass storage devices
- DVD-RW Backup
- Backup Center for PC-based storage and backup solution

### Monitoring

- Continuous, motion detection, schedule and input-triggered recordings
- Buzzer alarm on video lost, input triggered, motion detected and disk full
- 4 alarm inputs and outputs

### Playback

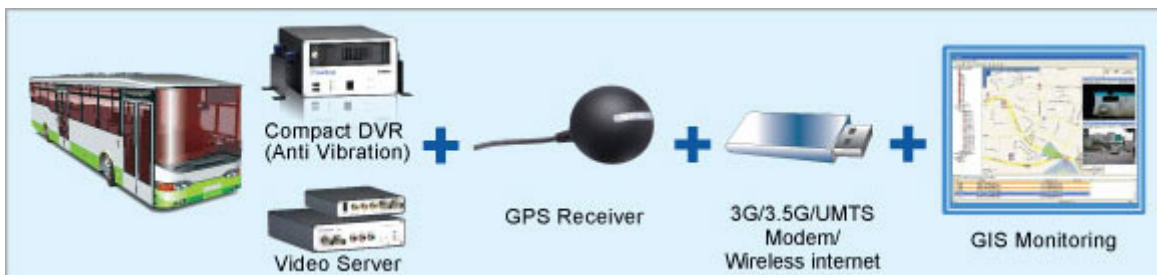
- Retrieve video by date, time and event
- Remote playback

### Remote Monitoring

- Mobile broadband (HSDPA, UMTS, EDGE, EVDO, etc.)
- Mobile Phone Surveillance (Android Smartphone, iPhone, iPad)
- Central monitoring systems Center V2, VSM, Control Center, Recording Server
- Geographic information system GV-GIS
- GPS tracking for the Anti-Vibration ACC models (GPS module required)

### Language Support

- Support 16 languages on Web interface



## SPECIFICATIONS

		GV-LX4C3D1	GV-LX4C3D2	GV-LX4C3D2W	GV-LX4C3V (ACC Model)
<b>Video</b>					
Video Standard		NTSC, PAL			
Video Input/Output		4 Videos In, 4 Loops Out			
Compression		Dual streams from H.264 and MJPEG (H.264 for the main stream; MJPEG for the sub stream)			
Frame Rate		NTSC	30 fps/ch at resolution of 704 x 480		
		PAL	25 fps/ch at resolution of 704 x 576		
Video Resolution		Main Stream		NTSC	704 x 480, 704 x 480 De-interlace, 352 x 240
				PAL	704 x 576, 704 x 576 De-interlace, 352 x 288
		Sub Stream		NTSC	352 x 240
				PAL	352 x 288
Video Streaming		Configurable frame rate and bandwidth			
Video Adjustment		Brightness, Contrast, Hue, Saturation			
<b>Audio</b>					
Audio Input/Output		4 Audios In, 1 Audio Out			
Compression		G.723			
<b>Output Signal Formats</b>					
Resolution		VGA Out	800 x 600, 1024 x 768, 1280 x 1024		
		TV Out	640 x 480		
V. Frequency		VGA Out	60 Hz		
		TV Out	60 Hz		
<b>Management</b>					
Event Management		Trigger	Time, Sensor Input, Motion Detection		
		Action	<ul style="list-style-type: none"> <li>• Store video to HDD (AVI format)</li> <li>• Send e-mails with captured images</li> <li>• Upload captured images to FTP Server</li> <li>• Monitor through Center V2, VSM and GV-GIS</li> <li>• Activate relay outputs to control external devices</li> </ul>		
Firmware Upgrade		<ul style="list-style-type: none"> <li>• Remote upgrade by Web browser</li> <li>• Use a USB flash drive</li> <li>• Use the upgrade utility included on the Software CD</li> </ul>			
Client PC Requirements		<ul style="list-style-type: none"> <li>• Microsoft IE 7.x or above running on Windows XP / Vista / 7 / Server 2008</li> </ul>			
Language on Web Interface		Czech / Danish / English / French / German / Hebrew / Hungarian / Italian / Japanese / Polish / Portuguese / Russian / Serbian / Simplified Chinese / Spanish / Traditional Chinese			
Language on OSD		English / French / German / Italian / Japanese / Portuguese / Russian / Simplified Chinese / Spanish / Traditional Chinese			
<b>Network</b>					
Interface		<ul style="list-style-type: none"> <li>• 10/100 Base-T Ethernet</li> <li>• 802.11b/g/n Wireless LAN (optional)</li> <li>• Mobile broadband: UMTS, EDGE, etc. (optional)</li> </ul>			
Protocol		HTTP, HTTPS, TCP, UDP, SMTP, FTP, DHCP, NTP, UPnP, DynDNS, Multicast, 3GPP/ISMA, RTSP, SNMP, QoS(DSCP)			
Security		IP address filtering			
<b>External Interface</b>					
Audio / Video Input		D-Type, DB 15 connector (4 Videos In, 4 Audios In)			
Audio / Video Output		D-Type, DB 15 connector (1 TV Out, 1 Spot Out, 1 VGA Out, 1 Audio Out, 4 Video Loops Out)			
Sensor Input		4 inputs on terminal block			
Alarm Output		4 outputs on terminal block			
PTZ		RS-485 +/- output on terminal block			
ACC Wire Connection		None			1 output on terminal block
GPS		None			1 port (PS/2 connector)
Ethernet		RJ-45, 10/100 Mbps			
USB		2 ports (USB 2.0)			
IR Receiver		1 port for optional External IR Receiver			
Power		12V, 5A (60W Max.)			10 ~ 28V, 5A (60W Max.)

Alarm				
Sensor Input	4 digital inputs			
Alarm Output	4 relay outputs			
Environment				
Operation Temp.	-20 ~ 50 ° C / 4 ~ 122 ° F			
Humidity	5 ~ 85% RH (non-condensing)			
Physical				
Dimensions (L x W x H)	176 x 244 x 86 mm / 7 x 9.6 x 3.4 inch	176 x 244 x 130 mm / 7 x 9.6 x 5.1 inch	176 x 244 x 130 mm / 7 x 9.6 x 5.1 inch	176 x 253 x 105 mm / 7 x 10 x 4.1 inch
Weight	2.3 Kg / 5 lb	3.2 Kg / 7 lb	3.3 Kg / 7.3 lb	2.9 Kg / 6.4 lb
HDD Drive Bay	1 bay	2 bays	1 bay	1 bay
DVD-RW Drive	None		1 drive	None
Reliability				
Operating Shock	-			10G, 2 ms
Operating Vibration	-			5 ~ 500 Hz, 1G
Optional Storage				
SATA HDD of 2.5" or 3.5"	1 SATA HDD	2 SATA HDDs	1 SATA HDD	1 SATA HDD
USB HDDs	2 external USB HDDs			
DVD-RW backup	DVD-RW backup	DVD-RW backup	N/A (already equipped)	DVD-RW backup
Regulatory				
Regulatory	CE, FCC, C-Tick, RoHS compliant			

**Note:**

1. Currently, all standard models do not support the GPS receiver (RS-232 interface) and GPS function.
2. An HDD converter is required from GeoVision for 2.5" HDD.
3. The frame rate of sub stream for live view will be affected by the number of connections and recording. However, the frame rate of main stream for recording is unaffected.
4. For the Anti-vibration ACC models (GV-LX4C3V, GV-LX8CV1 and GV-LX8CV2), it is necessary to use the hard drive especially for notebook, vehicle or surveillance applications, and tightly fasten the unit on the vehicle to prevent vibration and shock hazard.
5. All specifications are subject to change without notice.

## Options

Optional devices can expand your GV-Compact DVR's capabilities and versatility. Contact your dealer for more information.

External IR Receiver	The external IR receiver, with a 5-meter cable (16.4 feet), allows long-distance remote control of the GV-Compact DVR V3.
GV-GPS 232 Receiver	GV-GPS 232 Receiver, with RS-232 interface, is a Global Position System receiver. It can be applied to vehicle tracking and location verification. The device is designed for <b>Anti-Vibration ACC models</b> only.
2.5" to 3.5" HDD Converter	The HDD converter allows you to install a 2.5" SATA HDD into GV-Compact DVR.
GV-Relay V2	Working with the GV-Relay V2, GV-Compact DVR V3 can expand the voltage load up to 10A 250V AC / 10A 125V AC / 5A 100V DC.
WiFi USB Adaptor	The WiFi USB Adaptor is designed to connect the GV IP devices, such as GV-Video Servers or GV-Compact DVRs, to the wireless network. This product complies with IEEE 802.11 b/g/n (Draft 3.0) standards for wireless networking.
Power Adaptor of DC 12V, 5.0A	The power adaptor is used to power on the Anti-Vibration ACC model to test the connection. This device is designed for <b>Anti-Vibration ACC models</b> only.

## Supported Wireless LAN USB Adaptor

Vendors	Model
D-Link	DWA-140 (H/W version B1), DWL-G122 (version C1)
EDIMAX	EW-7318Ug, EW-7718Un
Linksys	WUSB54GC, WUSB600 (version 1)
Pegatron	WL-166N11

Note: Linksys WUSB54GC ver. 3 is not supported.

## Supported Mobile Broadband Device

Vendors	Model
HUAWEI	EC169C, E169, E220, E1692, E1750, E1752 and E1756USB Modem (HSDPA/UMTS/EDGE/GPRS/GSM)
Novatel	MC950D and MC996D (HSDPA/UMTS/EDGE/GPRS/GSM)
ONDA	MSA523HS
Verizon	USB760 Modem (EVDO)
Vodafone	K3565 (Rev 2)