8-Channel Compact DVR V3

GV-LX8CD2

GV-LX8CD2W

GV-LX8CD1

8-Channel Compact DVR V3 Anti-Vibration ACC Models

GV-LX8CV2
(ACC Model)

GV-LX8CV1
(ACC Model)

INTRODUCTION

The eight-channel GV-Compact DVR V3 is a mobile video recorder, simultaneously displaying real-time images from eight 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 **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

- Stream in H.264 codec
- Up to 240 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
- 8 alarm inputs and outputs

Playback

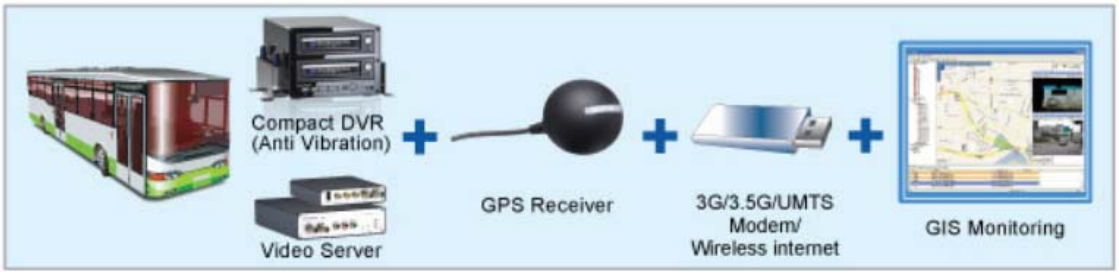
- Retrieve video by date, time and event
- Remote playback

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

Model		GV-LX8CD1	GV-LX8CD2	GV-LX8CD2W	GV-LX8CV1 (ACC Model)	GV-LX8CV2 (ACC Model)
Video						
Video Standard		NTSC, PAL				
Video Input/Output		8 Videos In, 8 Loops Out				
Compression		Dual streams from H.264 and MJPEG (H.264 for the main stream; MJPEG for the sub stream)				
Frame Rate		30 fps/ch at 704 x 480 (NTSC); 25 fps/ch at 704 x 576 (PAL) * When recording is enabled and the resolution is set at 704 x 480 / 704 x 576, the frame rate for live view will be 5 fps/ch. However, the frame rate for recording will remain at 30 fps/ch (NTSC) or 25 fps/ch (PAL).				
Video Resolution	NTSC	704 x 480, 704 x 480 De-interlace, 352 x 240				
	PAL	704 x 576, 704 x 576 De-interlace, 352 x 288				
Video Streaming		Configurable frame rate and bandwidth				
Video Adjustment		Brightness, Contrast, Hue, Saturation				
Audio						
Audio Input/Output		8 Audios In, 1 Audio Out				
Compression		G.723				
Output Signal Formats						
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				
Management						
Event Management	Trigger	Time, Sensor Input, Motion Detection				
	Action	• Store video to HDD (AVI format) • Send e-mails with captured images • Upload captured images to FTP Server • Monitor through Center V2, VSM and GV-GIS • Activate relay outputs to control external devices				
Firmware Upgrade		• Remote upgrade by Web browser • Use a USB flash drive • Use the upgrade utility included on the Softwae CD				
Client PC Requirements		• Microsoft IE 7.x or above running on Windows XP / Vista / 7 / Server 2008				
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				
Network						
Interface		• 10/100/1000 Base-T Ethernet • 802.11b/g/n Wireless LAN (optional) • Mobile broadband: UMTS, EDGE, etc. (optional)				
Protocol		HTTP, HTTPS, TCP, UDP, SMTP, FTP, DHCP, NTP, UPnP, DynDNS, 3GPP/ISMA, RTSP, SNMP, QoS (DSCP)				
Security		IP address filtering				
External Interface						
Audio / Video Input		D-Type, DB 15 connector (8 Videos In, 8 Audios In)				
Audio / Video Output		D-Type, DB 15 connector (1 TV Out, 1 Spot Out, 1 VGA Out, 1 Audio Out, 8 Video Loops Out)				
Sensor Input		8 inputs on terminal block				
Alarm Output		8 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, 10/100/1000 Mbps				
USB		4 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		8 digital inputs				
Alarm Output		8 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 91 mm / 7 x 9.6 x 3.6 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	258 x 244 x 101 mm / 10.1 x 9.6 x 4 inch	258 x 244 x 140 mm / 10.1 x 9.6 x 5.5 inch
Weight	2.3 Kg / 5 lb	3.2 Kg / 7 lb	3.3 Kg / 7.3 lb	2.9 Kg / 6.4 lb	3.8 Kg / 8.4 lb
HDD Drive Bay	1 bay	2 bays	1 bay	1 bay	2 bays
DVD-RW Drive	None	None	1 drive	None	None
Optional Storage					
SATA HDD of 2.5" or 3.5"	1 SATA HDD	2 SATA HDDs	1 SATA HDD	1 SATA HDD	2 SATA HDDs
USB HDDs	4 external USB HDDs				
DVD-RW backup	DVD-RW backup	DVD-RW backup	N/A (already equipped)	DVD-RW backup	DVD-RW backup
Reliability (for ACC models only)					
Operating Shock	10G, 2 ms				
Operating Vibration	5 ~ 500 Hz, 1G				
Regulatory					
Regulatory	CE, FCC, C-Tick, RoHS compliant				

Note:

1. For HDD
   a. SATA II/III HDD and SSD are supported, but some SATA III HDD and SSD may have compatibility issues with the device.
   b. 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.
   c. An HDD converter is required from GeoVision for 2.5" HDD.
2. Currently, all standard models do not support the GPS receiver (RS-232 interface) and GPS function.
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. 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 with PS/2 Connector	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 **Anti-Vibration ACC models** 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 **Anti-Vibration ACC models** 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)

PACKING LIST

- **Standard Models (GV-LX8CD1 / GV-LX8CD2 / GV-LX8CD2W)**

- 1 to 5 D-Type Video Cable x 1

- 6 to 8 D-Type Video/TV/Spot Monitor Cable x 1

- Camera Power Cable x 2

- D-Type Audio Cable x 1

- Power Adaptor 12V, 5A x 1
- AC Power Cord x 1
- Lock Key x 2 (1 Bay), x 4 (2 Bays)
- Round Screws x 6 (1 Bay), x 12 (2 Bays)
- T-Cap Screw x 4 (1 Bay), x 8 (2 Bays)
- Remote Control x 1
- GV-Compact DVR Quick Start Guide x 1
- GV-Compact DVR Software DVD x 1
- GV-NVR Quick Start Guide x 1
- GV-NVR Software DVD x 1

- **Anti-Vibration ACC Models (GV-LX8CV1 / GV-LX8CV2)**

- 1 to 5 D-Type Video Cable x 1

- 6 to 8 D-Type Video/ TV/ Spot Monitor Cable x 1

- Camera Power Cable x 2

- D-Type Audio Cable x 1

- Power Cable x 1

- Shorting Cable x 1

- Lock Key x 2 (1 Bay), x 4 (2 Bays)
- Round Screws x 6 (1 Bay), x 12 (2 Bays)
- T-Cap Screw x 4 (1 Bay), x 8 (2 Bays)
- Remote Control x 1
- GV-Compact DVR Quick Start Guide x 1
- GV- Compact DVR Software DVD x 1
- GV-NVR Quick Start Guide x 1
- GV-NVR Software DVD x 1