GV-Keyboard

Instruction Manual

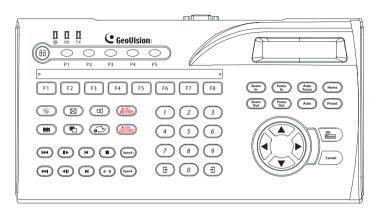


Before attempting to connect or operate this product, please read these instructions carefully and save this manual for future use.

GV-Keyboard

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Introduction

The GV-Keyboard is used to program and operate GV-Systems. Through RS-485 configuration, it can control up to 16 additional GV-Systems.

Packing List

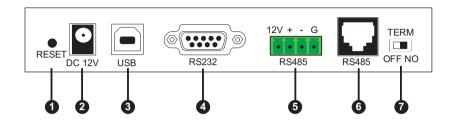
GV-Keyboard x 1
USB Cable (300 cm) x 1
RS-232 Cable (300 cm) x1
RJ-11 (RS-485) Cable (100 cm) x 1
AC Adapter (Input 100-240 V) x 1
Wall Terminal Block x 1

System Requirements

Windows 2000 or XP GV-System V7.0 or above

System Connections

Rear Panel Overview

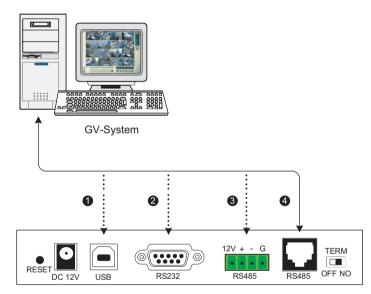


1	Reset	Resets the keyboard when it does not respond to commands.	
2	DC IN 12V Power	Connects to the AC adaptor's DC output plug.	
3	USB Port	Connects to GV-System.	
4	RS-232 Port	Connects to GV-System.	
5	Terminal Block	The terminal block carries RS-485 signals.	
		It can connect up to 16 additional GV-Systems.	
6	RJ-11 Port	The RJ-11 port carries RS-485 signals.	
		Through the wall terminal block, it can connect up to	
		16 additional GV-Systems.	
7	Terminal Resistance	Used in the last daisy-chained GV-System.	

Connecting GV-Keyboard to One GV-System

There are four ways to connect the keyboard and one GV-System, using:

- 1 USB Port,
- 2 RS-232 Port (DC power required),
- 3 Terminal Block (DC power required), or
- 4 RJ-11 Port (DC power required)



GV-Keyboard

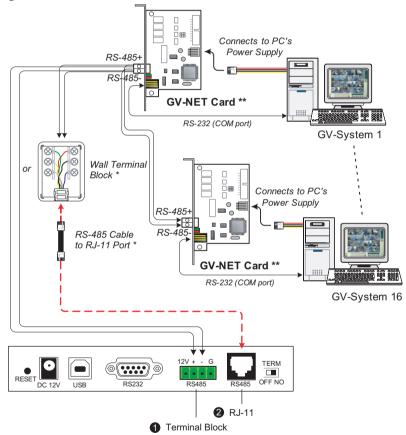
* ① USB cable, ② RS-232 cable, and ③ RJ-11(RS-485) cable are supplied with the GV-Keyboard.

Connecting GV-Keyboard to Multiple GV-Systems

There are two ways to connect the keyboard and up to 16 additional GV-Systems within 600 meters, using:

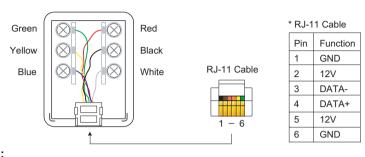
1 Terminal Block, or





- * The RJ-11(RS-485) cable and Wall Terminal Block are supplied with the GV-Keyboard.
- ** The GV-Net card can be replaced with other GV products, such as GV-Net, GV-Net I/O card, and GV-Hub.

▶ Wall Terminal Block



Note:

- 1. When you are using the wall terminal block for connection, the RS-485 + and RS-485 cables should be attached to the appropriate terminal screws.
- 2. It's not necessary to use extra power for RS-485 connection if the keyboard adaptor is connected.

Installation

USB Driver

If you are using the USB port to connect the keyboard and GV-System, it's necessary to install the USB driver. These instructions are for Windows XP. Installation under Windows 2000 is similar, but not necessarily identical.

- 1. Use the USB cable to attach the keyboard to GV-System.
- 2. The Found New Hardware Wizard detects the keyboard and pops up.



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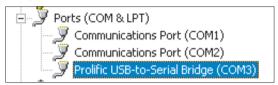
- 3. Select Install from a list of specific location (Advanced), and then click Next.
- Check Include this location in the search, and then click the Browse button to locate the folder that contains the driver. The driver is located at the installation CD:\GV7.0\Driver\GV Keyboard and Hub.



5. Click Next to display this warning window, and then click Continue Anyway.



 To verify that the driver is installed correctly, go to Windows Device Manager. In the Ports (COM & LPT) field, you should see the entry for Prolific USB-to-Serial Bridge.



Note: Remember the COM port showing in the Prolific USB-to Serial Bridge entry. It indicates the port number that the keyboard is using.

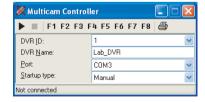
GV-Keyboard Application

To run the GV-Keyboard application, follow these steps:

1. Execute mcamctrl.exe from the GV-System folder.



2. The Mulitcam Controller window should display.



The controls in the Multicam Controller window:

Name	Description	
DVR ID	Selects the desired DVR ID for connection.	
DVR Name	Gives the login DVR a descriptive name.	
Port	Selects the port connecting to the keyboard.	
Startup type	Selects Manual or Automatic to run Mulitcam Controller at next	
	startup.	
•	Starts the service.	
	Stops the service.	
F1 - F8	Defines eight function keys on the keyboard to control output	
	modules, display layout, PTZs, and cameras.	
Print Icon	Prints out a label for the eight function keys.	

▶ Defining Eight Function Keys

F1 - F8 options allow you to assign these features to the eight function keys on the keyboard:

- Output Control
- Display Layout
- PTZ Preset Go
- PTZ Auto
- Camera Select
- Start/Stop Camera Scan

Note: For the PTZ Preset Go and PTZ Auto functions, you must map the PTZ camera first in Main System.



► Printing Function Key Labels

The Print Memo allows you to print out the label for the eight function keys (F1 - F8) so that you can attach it on the keyboard for instant reference.

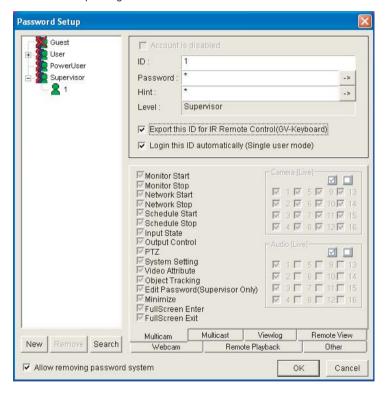
- 1. Click the **Printer** icon. This displays the Printer Memo window.
- Under every field from F1 to F8, type the information that you want to print on the label. The words you type will also appear on Preview fields for print preview.
- 3. Click Print.



ID & Password Settings in DVRs

For the keyboard operation, you must export IDs and Passwords from GV-Systems first. And these settings are restricted for digits.

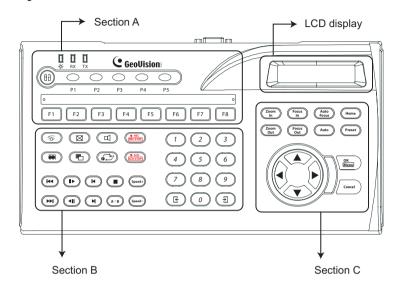
 Click the Configure button, and select Password Setup. This displays the Password Setup dialog box.



Select a user from the user list, and then check Export this ID for IR Remote Control (GV-Keyboard). This allows the export of its ID and Password.

When logging in the GV-System, you will see the exported ID in the ID drop-down list of the Login dialog box.

Keyboard Overview



Section A

	Yellow POWER LED	
	Red RX LED (Receive)	
	Green TX LED (Transmit)	
P1	Changes DVR ID	
P2	Configures the keyboard parameters, including password, key beep and auto-lock period	
Р3	Displays the firmwave version	
P4-5	Reserved for future features	
(AA)	Locks the keyboard	

F1-F8	Function keys	H	Moves one frame forward
Section B			Stops a video event
(3)	Launches Multicam Surveillance System (Main System)	(A-B)	Sets the starting and ending frames for auto playing
	Launches ViewLog	Speed+	Increases playback speed
	Turns full screen view on/off	Speed-	Decreases playback speed
	Switches the screen divisions	Œ	Switches to previous screen
	Turns the sound on/off	$\overline{\Xi}$	Switches to next screen
(ALL	Plays next events automatically	Numeric buttons	Enters the login password; Selects a specific camera; Changes the Time Setting in ViewLog
REC STOP	Starts/Stops recording	► Section C	
• SCH SCH STOP	Starts/Stops the scheduled recording	Zoom	Zooms in the display image of PTZ camera in Main System; Zooms in the display image in ViewLog
(H)	Goes to previous event	Zoom Out	Zooms out the display image of PTZ camera in Main System; Zooms out the display image in ViewLog
	Goes to next event	Focus	Increases the focus of PTZ camera in Main System
	Plays/Pauses a video event	Focus Out	Decreases the focus of PTZ camera in Main System
	Rewinds/Pauses a video event	Auto	Auto Focus
H	Moves one frame back	Auto	Sets the PTZ camera for auto mode



Moves the PTZ camera to the default position



Moves the PTZ camera to a preset location



Calls up the Login dialog box; Enters the settings; Opens the OSD menu



Closes the OSD menu; Returns to the previous menu; Calls up the menu to exit Main System or ViewLog



PTZ control; Navigates the display image in ViewLog; Navigates the OSD menu; Changes the Time Setting in ViewLog

Programming and Operation

Function	Procedure	
Getting started	Press any key, and enter a password.	
	(The default password is 0000 .)	
Launching	1. Press 6.	
Main System	2. When the message "Multicam System-Please Login!" appears	
	on the screen, press ox to open the Login dialog box.	
	3. Select a valid ID, enter a password, and press .	
Launching ViewLog	1. Press 🔳 .	
	2. When the Privilege Confirmation dialog box appears, select	
	a valid ID, enter a password, and press ok lieu.	

Changing DVR ID	Press P1, and enter a two-digit DVR ID.		
Changing password	1. Press P2, enter a password, and press to browse		
	LCD displays.		
	2. When "Password Change" appears, press and enter		
	a four-digit password.		
Disabling/Enabling	1. Press P2, enter a password, and press (to browse		
key beep	LCD displays.		
	2. When "Audio Setting" appears, press (and press		
	to enable/disable the key beep.		
Setting auto-lock	Press P2, enter a password, and press to browse		
period	LCD displays.		
	2. When "Auto Time Lock" appears, press ox and enter an		
	idle period after which the keyboard is automatically locked.		
	* The keyboard can be used only if the correct password		
	is entered.		
Setting A to B frame	1. Press (A-B). The message "A To B Mode (Set A)" appears		
for auto-playing	on the screen.		
	2. Press (A-B) again. The message "A To B Mode (Set B)"		
	appears. ViewLog starts playing the set frames A to B		
	repeatedly.		
	* To stop the playing, press (A-B). The message "A To B		
	Mode (Cancelled)" will appear.		

On-Screen Display Menus

In Main System and Viewlog modes, you can press to call up the on-screen display (OSD) menus.

GV-Keyboard GV-Keyboard

The OSD in Main System



Figure 1 The OSD menus in Main System



Screen Division

Changes the screen divisions



Input Device

Displays all or several input module panels



Output Device

Forces output devices



PTZ Camera

Enables/Disables PTZ camera, Preset Go, Auto (Auto Pan), AF (Auto Focus) and Hide PTZ Panel



Monitor

Starts/Stops all or several cameras for monitoring



Schedule

Enables/Disables the schedule



Camera Scan

Enables/Disables the rotation through screen divisions



Network

Enables/Disables remote applications, including Modem Server, TCP Server, Multicast Server, Connect to VSM, Twin Server, WebCam Server and Connect to Center V2

► Changing the Main System OSD Options

To change the Main System OSD options with the keyboard, follow the steps below:

- 1. Press the **OK/Menu** button to open the OSD (see Figure 1).
- 2. Use the **direction** buttons to select a menu you want.
- 3. Press the **OK/Menu** button to open the menu.
- Use the direction buttons to select a menu option, and then press the OK/Menu button to change the setting.

Simply press the **OK/Menu** button to enable or disable an option in the case of **Schedule** and **Camera Scan**.

The OSD in ViewLog



Figure 2 The OSD menus in ViewLog



Video Event Search Locates a video event.

- 1. Press the ◀ and ▶ buttons to move back and forward on an OSD time. (Month/Date/Year Hr.:Min.:Sec.)
- Use the numeric buttons to enter a desired time or press ▲
 and ▼ to change the display time.
- 3. Press the **OK/Menu** button to view the search result.

If the specified time can't be located, you will be prompted for previous or next video event available.



View Mode

Changes the view modes, including Single View, Thumbnail View, Quad View and Multi View.

► Changing the ViewLog OSD options

To change the ViewLog OSD options with the keyboard, follow the steps below:

- 1. Press the **OK/Menu** button to open the OSD. See Figure 2.
- 2. Use the **direction** buttons to select a menu you want.
- 3. Press the **OK/Menu** button to open the menu.
- 4. Use the **direction** buttons to select a menu option, and then press the **OK/Menu** button to change the setting.

Shortcut key Conflict Test

This test checks whether the keyboard keys are conflicting with certain shortcut keys of other applications.

 Execute GvKeyTest.exe from the GV-System folder. This displays the following window.



Click the Test button. If there are shortcut key conflicts, you will see the similar window as below.



3. Disable the shortcut key settings of another application.

Troubleshooting

Problem	Checklist
No power to Keyboard	► Check USB connection.
	▶ If you are using the RS-232 port for connection, make
	sure to connect the AC adaptor.
Keyboard has power but	▶ Check that Keyboard is not locked. See <i>Getting Started</i> ,
does not respond to any	Programming and Operation on page 14.
buttons pressed	
Keyboard responds to	► Check if Keyboard keys are conflicting with other
some, but not all buttons	applications. See Shortcut key Conflict Test on page 18.
Message "Connect fail "	▶ Verify that the selected ID in Mulitcam Controller is
displays on LCD	consistent with the DVR ID. See Changing DVR ID,
	Programming and Operation on page 15.
	► Check that the COM port setting in Mulitcam Controller
	is correct. See USB Driver Step 6 on page 7.
	▶ If multiple GV-Systems are daisy-chained together,
	(1) check connections among GV-Systems, and
	(2) turn on Terminal Resistance to increase frequency
	response.
	▶ If you are using the wall terminal block, check
	(1) terminal screws are not loose,
	(2) the RS-485 + and RS-485 - cables are attached to
	the appropriate terminal screws. See Wall Terminal
	Block on page 5.
Keyboard LEDs not	▶ Yellow POWER LED: check the power source.
visible	When pressing any key, can't see the RX or TX LEDs.
	▶ Red RX LED: check the connection between Keyboard
	and GV-System.
	▶ Green TX LED: check if Keyboard is malfunctioning.

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Specifications

Output	RS-232 to PC DB9 Female		
	USB	USB 1.1	
	RS-485+	Connects to GV-NET or GV-NET card RS-485+	
	RS-485-	Connects to GV-NET or GV-NET card RS-485-	
Communication	RS-232	9,600 bps	
	RS-485	9,600 bps	
Power	DC IN	DC 12V 1A	
	RS-485	DC 12V	
Environmental	Operation 0~50 degree C		
Conditions temperature			
	Humidity	5%~95% (non-condensing)	
Dimensions	300 (W) x 45 (H) x 161 (D) mm		