

GV-Joystick V2

User's Manual





© 2021 GeoVision, Inc. All rights reserved.

Under the copyright laws, this manual may not be copied, in whole or in part, without the written consent of GeoVision.

Every effort has been made to ensure that the information in this manual is accurate. GeoVision, Inc. makes no expressed or implied warranty of any kind and assumes no responsibility for errors or omissions. No liability is assumed for incidental or consequential damages arising from the use of the information or products contained herein.

GeoVision, Inc.
9F, No. 246, Sec. 1, Neihu Rd.,
Neihu District, Taipei, Taiwan
Tel: +886-2-8797-8377
Fax: +886-2-8797-8335
<http://www.geovision.com.tw>

Trademarks used in this manual: *GeoVision*, the *GeoVision* logo and *GV* series products are trademarks of GeoVision, Inc. *Windows* and *Windows XP* are registered trademarks of Microsoft Corporation.

September 2021

Contents

- Regulatory Notices..... i
- 1. Introduction..... 1
 - 1.1 Packing List 1
 - 1.2 System Requirements..... 1
- 2. Overview2
 - 2.1 Front View..... 2
 - 2.2 Rear View 3
- 3. Installation4
 - 3.1 Connecting to GV-Software..... 4
 - 3.2 Connecting to GV-Keyboard V3 4
- 4. Starting GV-Joystick.....5
- 5. Controlling Multiple PTZ Cameras in GV-System8
- 6. Calibrating GV-Joystick V29
- 7. Specifications10

Regulatory Notices



FCC Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

Class A

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.



CE Notice

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

RoHS RoHS Compliance

The Restriction of Hazardous Substances (RoHS) Directive is to forbid the use of hazardous materials of production. To meet the RoHS Directive requirements, this product is made to be RoHS compliant.



WEEE Compliance

This product is subject to the Waste Electrical and Electronic Equipment (WEEE) Directive and made compliant with the WEEE requirements.

1. Introduction

GV-Joystick V2 is a plug-and-play device, used to pan, tilt, zoom and focus a PTZ camera. It works with GeoVision software and hardware independently, and its compatibility with GV-Keyboard V3 empowers the operation of GV-System as well.

1.1 Packing List

- GV-Joystick V2
- USB Type A to Type B Cable

1.2 System Requirements

OS	32-bit	Windows 7 / 8 / 10 / Server 2008
	64-bit	Windows 7 / 8 / 10 / Server 2008 R2 / Server 2012 / Server 2016 / Server 2019

Note:

1. For the users of Windows 10 update version 1809 or later, you need to update GV-Joystick V2's driver manually. For details, see the [technical post](#).
 2. The joystick is a HID device compatible with any third-party software supported HID protocol.
-

2. Overview

2.1 Front View



No	Name	Function
1	Power LED	Indicates power activity.
2	F1 (Focus In)	Adjusts focus near.
3	F3 (Focus Out)	Adjusts focus far.
4	F5 (Auto Focus)	Automatically focus a camera.
5	F2 (Previous Camera)	Controls the previous camera.
6	F4 (Next Camera)	Controls the next camera.
7	F6 (Home)	Brings the camera to a home position.
8	Handle	Use the handle to have the following movements: ● Push right / left to pan a camera right / left. ● Push up / down to tilt a camera up / down. ● Turn the handle right to zoom in. ● Turn the handle left to zoom out.

Note:

1. F1 ~ F6 keys described here are defaults. You can customize the functions using the Keyboard & Joystick controller.
2. For GV-Joystick V2 connected to GV-Keyboard V3, the keys can not be customized, and the F5 and F6 keys are not functional.

2.2 Rear View



No	Name	Function
1	USB to DVR port	Connects to computer
2	To GV-Keyboard port	Connects to GV-Keyboard V3

3. Installation

There are two ways to connect GV-Joystick V2 to GV-Software:

1. Direct connection using the **USB to DVR port**
2. Indirect connection through GV-Keyboard V3 using the **To GV-Keyboard port**

Note:

1. These two ports cannot be used simultaneously.
 2. For connecting GV-Joystick V2 to GV-Center V2, only the direct connection is supported.
-

3.1 Connecting to GV-Software

GV-Joystick V2 is a plug-and-play device that works with GV-Software directly. To connect GV-Joystick V2 to GV-Software, use the supplied USB cable.

3.2 Connecting to GV-Keyboard V3

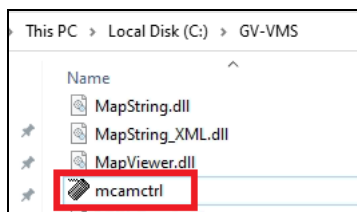
To connect GV-Joystick V2 to GV-Keyboard V3, use the supplied RJ-45 cable.

4. Starting GV-Joystick

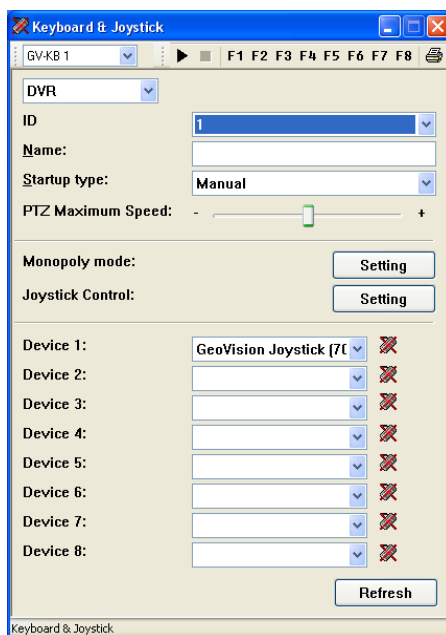
When using GV-Joystick V2 to control PTZ cameras connected to GV-Software, it is required to run **GV-Mcamctrl Utility** in the background. Up to 8 units of GV-Joystick V2 can be connected together, but only one GV-Joystick V2 can control one PTZ camera at one time.

Note: For combining use with GV-Keyboard V3, see *GV-Keyboard V3 User's Manual*.

1. Run **mcamctrl.exe** from the GV-Software folder.



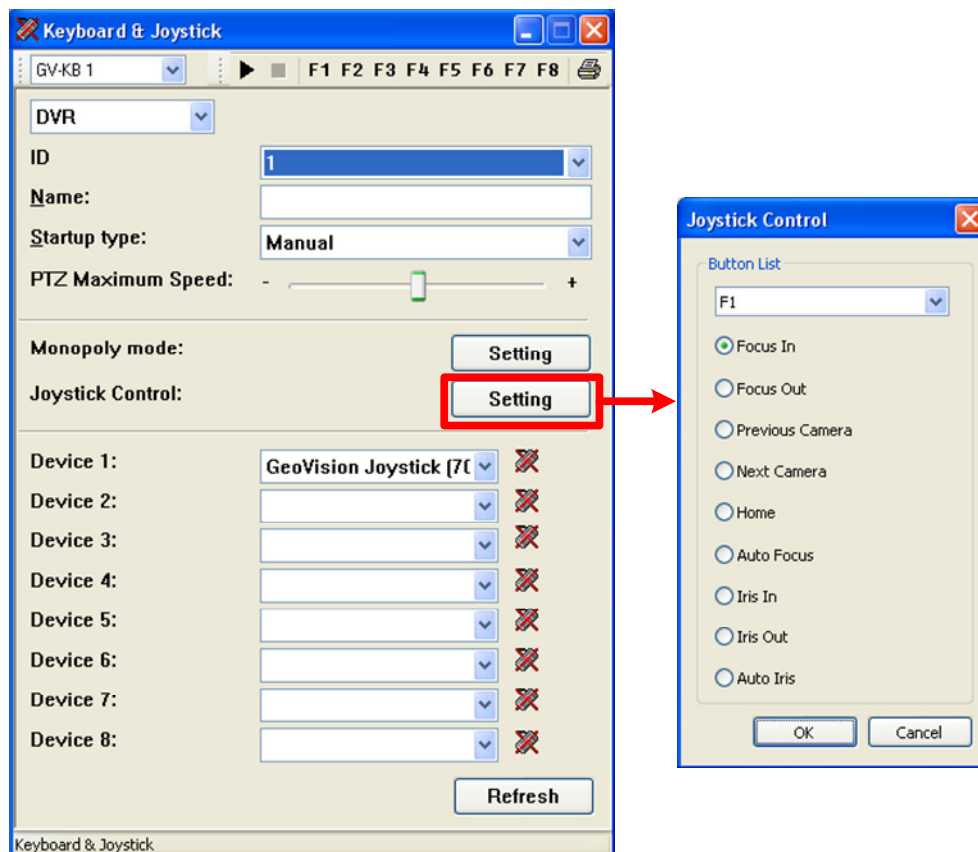
2. The Keyboard & Joystick controller appears.



3. Select **GeoVision Joystick** from the Device drop-down list.

Tip: If you can not find the **GeoVision Joystick** option, make sure your GV-Joystick is properly connected and then click the **Refresh** button from the Keyboard & Joystick controller to scan for the device again.

4. Select the ID of the joystick and name it.
5. In **Startup Type**, select **Manual** or **Automatic** to run the Keyboard & Joystick controller manually or automatically at next startup.
6. To adjust the camera speed, use the **PTZ Maximum Speed** slider.
7. To customize the function keys:
 - A. Click the **Setting** button next to Joystick Control. This dialog box appears.



- B. Select a function key (F1 ~ F6) and select a function.
8. To add another GV-Joystick V2, repeat step 3 and select **GeoVision Joystick** with a different serial number from the Device drop-down list.
9. Click the **Start Service** button ► to start the service. If you want to stop the service, click the **Stop Service** button ■.

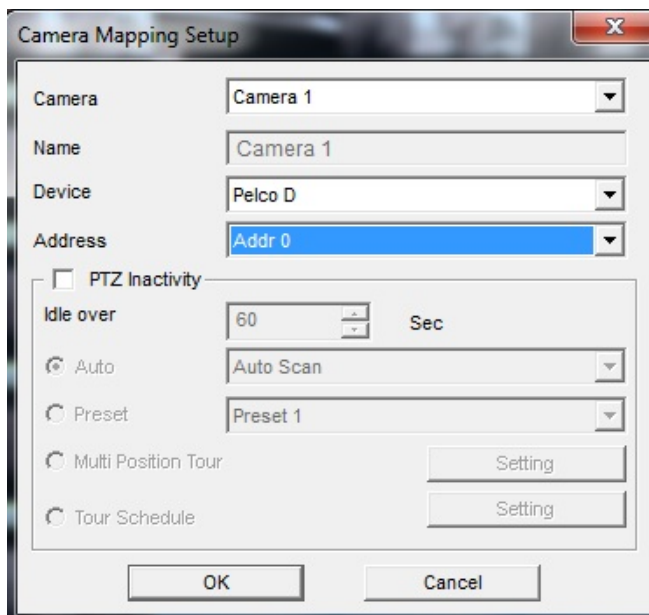
Note:

1. If you add or remove a GV-Joystick V2, the corresponding COM port in Windows may change. In this case, click the **Refresh** button and check the GV-Joystick V2 assigned in the Device drop-down list.
 2. The serial number is randomly generated by Windows and may change if GV-Joystick V2 is re-installed.
 3. The buttons **F1** to **F8** and **Print** on the toolbar of Keyboard & Joystick controller are only available when GV-Keyboard V3 is in use.
 4. To add a PTZ camera to GV-DVR / NVR / VMS, click the **Configure** button > **General Setting** > **System Configure** > **PTZ Device Setup** to enable the settings. For details, see *PTZ Control* in *GV-DVR / NVR User's Manual* or *GV-VMS User's Manual*.
-

5. Controlling Multiple PTZ Cameras in GV-System

GV-Joystick V2 allows you to control more than one PTZ camera at a time. For this, you need to assign PTZ cameras to camera channels in GV-DVR / NVR / VMS first.

1. Click the **Configure** button > **Accessories** > **PTZ Device** > **Camera Mapping PTZ Dome**. This dialog box appears.



2. Select a **Camera** channel.
3. Select the PTZ model connected to the selected channel from the Device drop-down list..
4. When more than one identical PTZ brands are connected to the system, use the **Address** drop-down list to choose the corresponding address.
5. Click **OK** to apply the settings.
6. To control multiple cameras using GV-Joystick V2, click the **Previous Camera** and **Next Camera** buttons on the joystick.

6. Calibrating GV-Joystick V2

The internal settings may deviate and the control can become less accurate after a period of time. Follow the steps below to calibrate your GV-Joystick V2.

1. Press and hold the **F1**, **F2**, **F3** and **F4** buttons on the GV-Joystick for 3 seconds. The Power LED blinks red.
2. Release the buttons. The Power LED turns green and the settings are calibrated.



7. Specifications

OS Supported	32-bit	Windows XP / Vista / 7 / 8 / Server 2008
	64-bit	Windows 7 / 8 / Server 2008 R2 / Server 2012
Communication	USB 2.0	Connects to PC
	RJ-45	Connects to GV-Keyboard V3
Power	DC IN	DC 5V 50mA
Environmental Conditions	Operating Temperature	0°C ~ 50°C / 32°F ~ 122°F
	Humidity	5%~95% (non-condensing)
Dimensions (W X H X D)		160 x 90 x 118 mm / 6.3 x 3.54 x 4.65 in
Weight		500 g / 1.1 lb

All specifications are subject to change without notice.