Quick Start Guide

GV-CS1320 Camera Access Controller

Thank you for purchasing GV-CS1320 Camera Access Controller. This guide is designed to assist the new user in getting immediate results from the controllers. For advanced information on how to use GV-CS1320, please refer to GV-CS1320 Camera Access Controller User's Manual on Software CD / DVD.

Note: No memory card slot or local storage function for Argentina.

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

May 2016

Contents

Installation Considerations

To make sure the finger and face of the cardholder can be detected, follow the instructions below to set up GV-CS1320.

Bell Button Recognition:

- The bell button cannot be responded with gloves on.

Installation Height:

- When placed at a building gate, GV-CS1320 should be about 1.4-1.5 meters above the ground.

- When placed at a parking lot gate, GV-CS1320 should be about 1.2 meters above the ground to match the height of vehicles.

140 -150 cm

120 cm
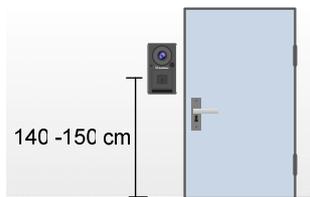
Face Detection Limitations

- GV-CS1320 cannot detect the face of cardholders wearing facial masks or sunglasses.

- GV-CS1320 is designed to detect front-view faces only. If the face is slightly tilted horizontally or vertically, the tilt angle cannot exceed 15° degree.

Front View Only   ±15° Horizontal   ±15° Vertical   -15° +15°
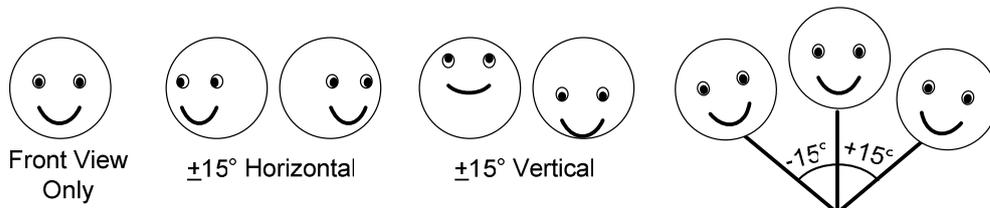
Lighting Conditions

- Avoid placing GV-CS1320 where the light source is directly behind the subject.

- Prevent light from directly falling onto the GV-CS1320's camera lens.

Optional Accessories

Optional devices can expand the capabilities and versatility of your GV-CS1320. Contact your dealer for more information.

Name	Details
GV-Reader 1352 V2	GV-Reader 1352 V2 is a card reader that uses a 13.56 MHz frequency. It has both Wiegand and RS-485 outputs that can be connected to any standard access control panel.
GV-RK1352	GV-RK1352 is a card reader with keypad that uses a 13.56 MHz frequency. The reader has both Wiegand and RS-485 outputs that can be connected to any standard access control panel.
GV-R1352	GV-R1352 is a card reader that uses a 13.56 MHz frequency. The reader has both Wiegand and RS-485 outputs that can be connected to any standard access control panel.
GV-DFR1352	GV-DFR1352 is a card reader that uses a 13.56 MHz frequency. The reader has both Wiegand and RS-485 outputs that can be connected to any standard access control panel.
GV-GF Fingerprint Readers	GV-CS1320 is compatible with GV-GF1921 / 1922. The reader supports three operation modes: Fingerprint Only, Fingerprint + Card and Card Only. In Fingerprint Only mode, the fingerprints are enrolled through GV-ASManager. In Fingerprint + Card mode, the fingerprint templates are stored on the user card. In Card Only mode, the users only need to swipe the card to be granted access. Readers with optical and capacitance sensors are available.
GV-CR420	GV-CR420 is a card reader with a built-in 4MP wide angle IP camera. The card reader recognizes identification cards and transmits live view through network connection.
Push Button Switch	The push button switch can be integrated with access control system, allowing door exit by momentarily activating or deactivating the electric locking device. Both American standard and European standard push buttons are available.

Name	Details
GV-IB25 / 65 / 85 Infrared Button	The GV-IB25 / 65 / 85 Infrared Button detects infrared movement within 3 to 12 cm and allows you to open the door with a wave of hand.
Electric Lock	Three types of electric locks are available: electromagnetic lock, electric bolt and electric strike.
GV-AS ID Card & GV-AS ID Tag	GV-AS ID Cards and GV-AS ID Tags are ideal for business and residential environment, where access control is important for security reasons. 13.56 MHz cards and tags are available.
Power Adapter	Contact your sales representative for the countries and areas supported.

1.   Introduction

Welcome to the *GV-CS1320 Camera Access Controller Quick Start Guide.* In the following sections, you will learn the basic installations and configurations of GV-CS1320. For a detailed user manual, see the *GV-CS1320 Camera Access Controller User's Manual* on the Software DVD.

![GeoVision Inc. logo]

1.1 Packing List

- GV-CS1320

- Mounting Plate

- Standard Screw x 2

- Plastic Screw Anchor x 2

- Security Tube

- Torx Wrench

- Silica Gel Bag
- Software DVD
- Micro SD Card 2 GB
- Warranty Card

1.2   Compatible Software Versions

The GeoVision software versions compatible with GV-CS1320 are listed below.

Software	GV-CS1320 Firmware Version	
	V1.0	**V1.10**
GV-ASManager	V4.3.5.0	V4.3.5.0 / V4.4.0.0
GV-VMS	V15.10	
GV-System (DVR/NVR)	V8.6.2.0 with Patch	
GV-Control Center	V3.3.0.0 with Patch	
GV-Failover Server	V1.1.0.0 with Patch	
GV-Redundant Server	V1.1.0.0 with Patch	
GV-GIS	V3.1.1.0 with Patch	
GV-Recording Server	V1.2.5.0 with Patch	
GV-Edge Recording Manager	V1.1.0.0 with Patch	V1.2.0.0

![GeoVision Inc logo]

1.3 Overview
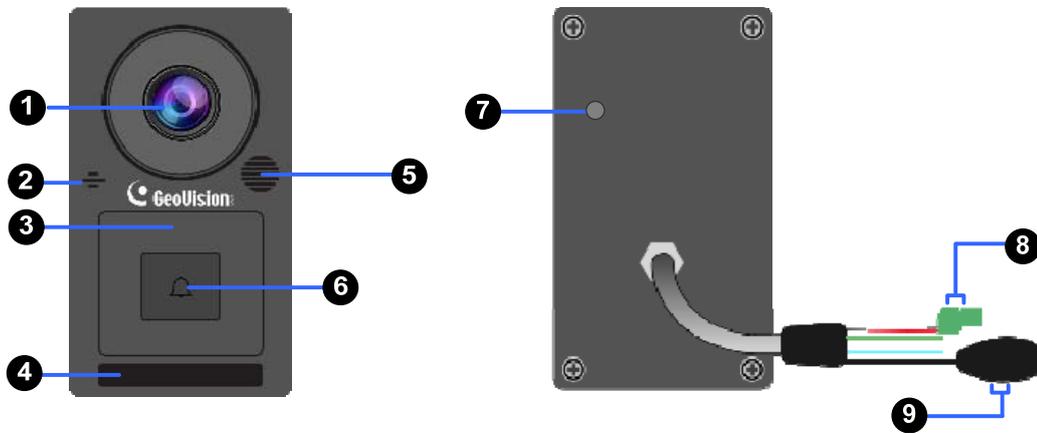
No.	Name	Function
1	Lens	Receives image.
2	Microphone	Receives sound from GV-CS1320.
3	Card Reader	Reads ID cards or ID tags.
4	IR LEDs	Automatically illuminates for night time use.
5	Speaker	Talks to the surveillance area from the local computer.
6	Bell Button (touch pad)	Touch to activate the talk mode.
7	Default Button	Resets all configurations to default factory settings. See *7 Restoring to Factory Default*.
8	Power Cable	Connects to power supply. See *3.6 Connecting the Power*.
9	Ethernet Port	Connects to network and power supply. See *3.5 Connecting GV-CS1320 to PC*.

2. Installation

After the location of your GV-CS1320 is decided, follow the steps below to install the camera access controller.
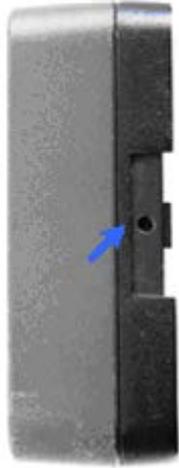
1. Attach the single gang power box to the wall.

2. Place the mounting plate on the single gang power box and secure with the 2 standard screws provided.

3. Place GV-CS1320 on the mounting plate together with the single gang power box and thread the cables through the holes.

4. Secure the security screw on the bottom with the mounting plate.

3.   Connecting GV-CS1320

3.1   Connecting RS485 Readers

You can establish RS-485 connection with any GV-Readers. GV-CS1320 can connect with up to **2 readers**. You need two power wires and two RS-485 wires from one reader to GV-CS1320. When connecting a second reader to GV-CS1320, you will need to set up a separate power source to power the second reader if the total power consumption (including output devices) exceeds 12V.

RS485-

RS485+

Up to 2 GV-Readers
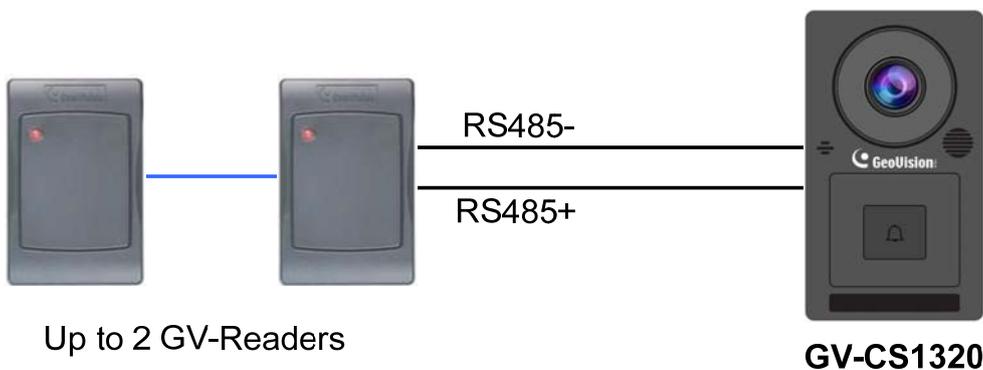
GV-CS1320

The table below shows the wire assignments of RS485 connection on GV-CS1320.

Wire color	Definition
Red	12V DC
Black	GND
Blue	RS-485 +
Light Blue	RS-485 -

7

3.2 Connecting Network Readers

GV-CS1320 supports network connection with GV-CR420 and GV-GF1921 / 1922.

Network Reader   TCP/IP   **GV-CS1320**

3.3   Connecting Input Devices

GV-CS1320 supports 2 types of inputs:

1.   Sensor inputs, e.g. door status sensor

2.   Button inputs, e.g. door opener and exit button

All inputs are **dry contact** and can be configured as normally open (NO) or normally closed (NC) through the GV-CS1320 Web interface. The default value is **NO**. To change the input status, see *Input Setting*, Chapter 4, *GV-CS1320 Camera Access Controller User's Manual*.

The table below shows the wire assignments of input connectors on GV-CS1320.

Wire color	Definition
Yellow	Sensor IN1
Light Red	Button IN2
Brown	IN COM

3.4 Connecting Output Devices

GV-CS1320 supports 1 type of output: Door outputs, e.g. electronic lock.

The table below shows the wire assignments of output connectors on GV-CS1320.

Wire color	Definition
Purple	Door COM
Orange	Door NC
Gray	Door NO

Check if your output device meets the following absolute maximum ratings before connecting it to the Door outputs.

| **Breakdown Voltage**	250V AC, 220V DC
Continuous Load Current	1A (30V DC), 0.3A (125V AC)
Note: Absolute Maximum Ratings are those values beyond which damage to GV-CS1320 circuit board may occur. Continuous operation of GV-CS1320 at the absolute rating level may affect GV-CS1320's reliability.	

To connect an output device:

The example below illustrates the connection of a locking device to GV-CS1320. Connect the (+) point on the locking device to the Door COM wire on GV-CS1320, connect the two (-) points of the locking device and the external power supply together, and connect the (+) point on the external power supply to the Door NO or Door NC wire on GV-CS1320 based on the state of the locking device.
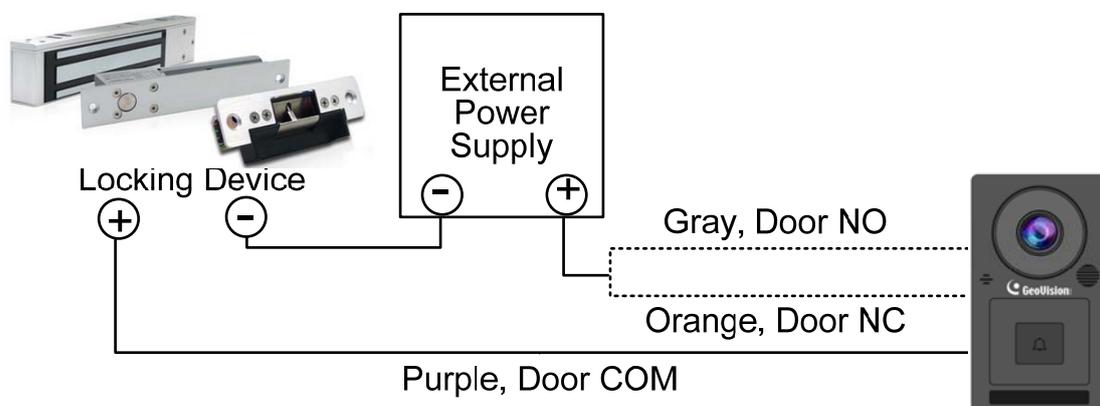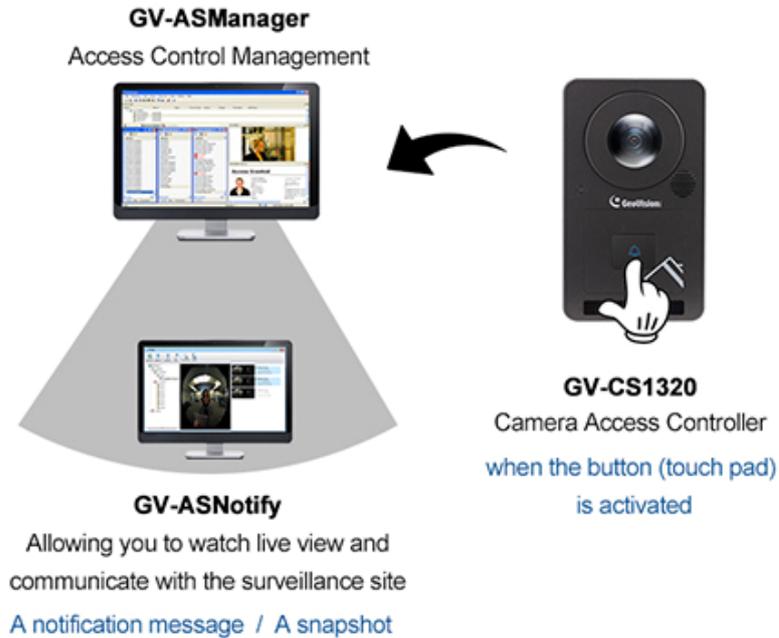
3.5   Connecting GV-CS1320 to PC

Connecting GV-CS1320 to a computer enables you to access its Web interface and connect it to GV-ASManager if the computer is installed with GV-ASManager. The computer running GV-ASManager software can be used to monitor the access information and alarm messages from GV-CS1320. The communication link between the computer and GV-CS1320 requires a network connection.

The figure below illustrates the network connection between GV-CS1320 and the computer.
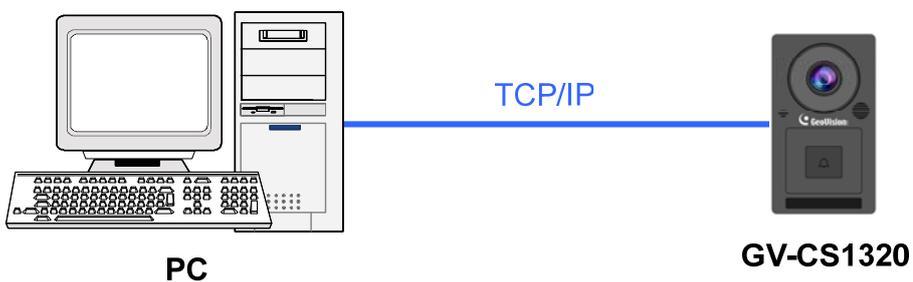
PC   **GV-CS1320**

When GV-CS1320 is connected to GV-ASManager, GV-ASNotify will generate a notification message whenever the bell button (touch pad) on GV-CS1320 is activated. You can use GV-ASNotify to watch live view and communicate with the surveillance site with the microphone and speaker functions of GV-ASNotify. For details, see Chapter 15, *GV-ASNotify* in the *GV-ASManager User's Manual*.

GV-ASManager
Access Control Management

GV-CS1320
Camera Access Controller
when the button (touch pad)
is activated

GV-ASNotify
Allowing you to watch live view and
communicate with the surveillance site
A notification message / A snapshot

Note:

1. GV-CS1320 is only compatible with GV-ASManager V4.3.5.0 or later.

2. While GV-CS1320 is performing a power reset, duplicate messages may be displayed in the System Event Log on GV-ASManager.

3.6 Connecting the Power

You can choose to supply power using a power adapter or using a Power over Ethernet (PoE) adapter.

- When using a Power Adaptor, connect 12V and GND wires to a 12V, 3A power adapter and then connect the power adapter to a power source.

  The table below shows the pin assignments of the power connectors on GV-CS1320.

Wire color	GV-CS1320 Definition
Red	12V DC
Black	GND

- When using PoE adapter, power will be provided to the device through the Ethernet cable.

Note:

1. Power should only be applied to the unit when all connections are completed and tested.

2. GV-CS1320 produces an output voltage of 12V. You will need to connect an external power supply if the total power consumption exceeds 12V after readers and output devices are connected

4. Accessing GV-CS1320

4.1 Web Browser

To access the functions and settings of GV-CS1320 on the Web interface, ensure your PC use one of the following web browsers.

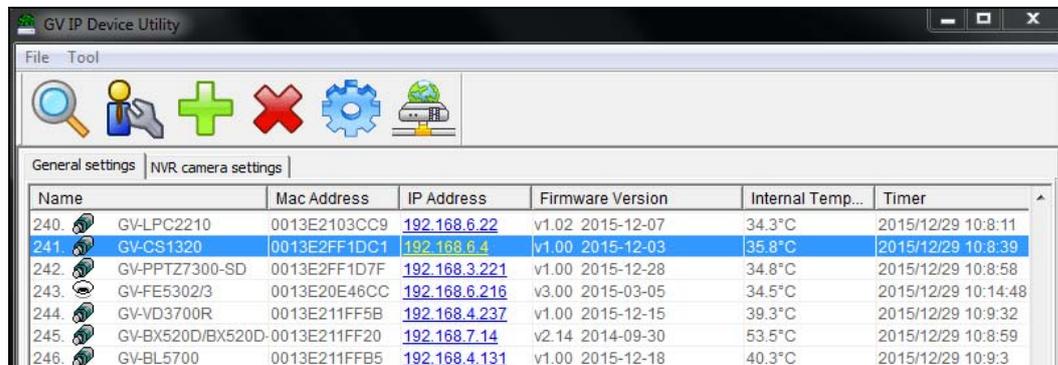| Browser	- Internet Explorer 9.x or later - Firefox - Google Chrome - Safari

Note: For users of non-IE browsers, download **GV-Web Viewer** to access full functioning user interface. See *3.1 Accessing Your Surveillance Images*, Chapter 3, *GV-CS1320 Camera Access Controller User's Manual*.

4.2   Looking Up the Dynamic IP Address

By default, when GV-CS1320 is connected to LAN with a DHCP server, it is automatically assigned with a dynamic IP address. Follow the steps below to look up its IP address.
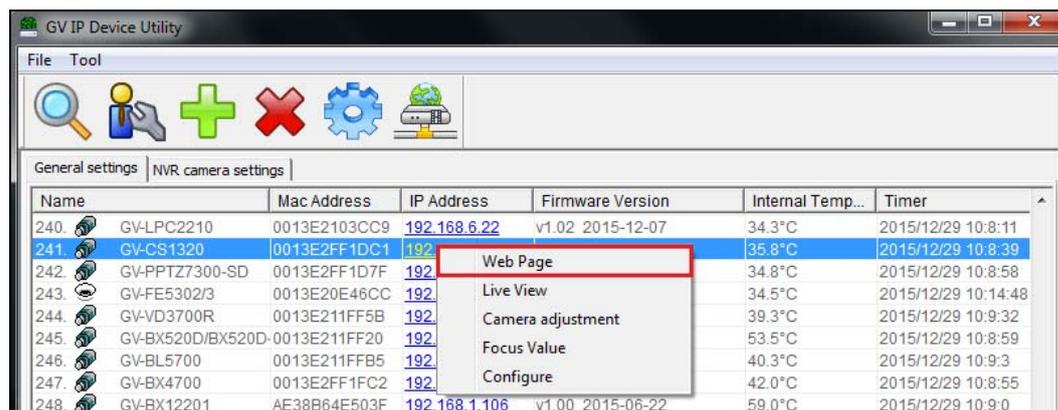

Note: The PC installed with GV-IP Device Utility must be under the same LAN with GV-CS1320.

---

1. Install the GV-IP Device Utility program included on the Software DVD.

2. On the GV-IP Utility window, click the 🔍 button to search for the IP devices connected in the same LAN. Click the **Name** or **Mac Address** column to sort.

3. Click on the IP address of **GV-CS1320** and select **Web Page**.

4. The login page appears.

5. Type the default ID and password **admin** and click **Apply** to login.

4.3   Configuring the IP Address

By default, GV-CS1320, connected to LAN without a DHCP server, is assigned with a static IP address of **192.168.0.10**.

Follow the steps below to assign a new IP address to avoid IP conflict with other GeoVision devices.

Note: If your router supports the DHCP server, GV-CS1320 will obtain a dynamic IP address from the DHCP server each time it connects to the LAN, instead of using 192.168.0.10.

---

1. Open your web browser, and type the default IP address http://192.168.0.10

2. In both Login and Password fields, type the default value **admin**. Click **Apply**.

3. In the left menu, select **Network** and then **LAN** to begin the network settings.

LAN Configuration

In this section you can configure GV-IPCAM to work inside of LAN.

LAN Configuration

○ Dynamic IP address Select this option to obtain IP address from a DHCP server [Test DHCP]

● Static IP address   Select this option to enter a Static IP address manually

    IP Address: 192.168.0.139

    Subnet Mask: 255.255.248.0

    Router/Gateway: 192.168.0.1

    Primary DNS: 192.168.0.1

    Secondary DNS: 192.168.0.2   (Optional)

○ PPPoE   Select this option to establish a DSL connection
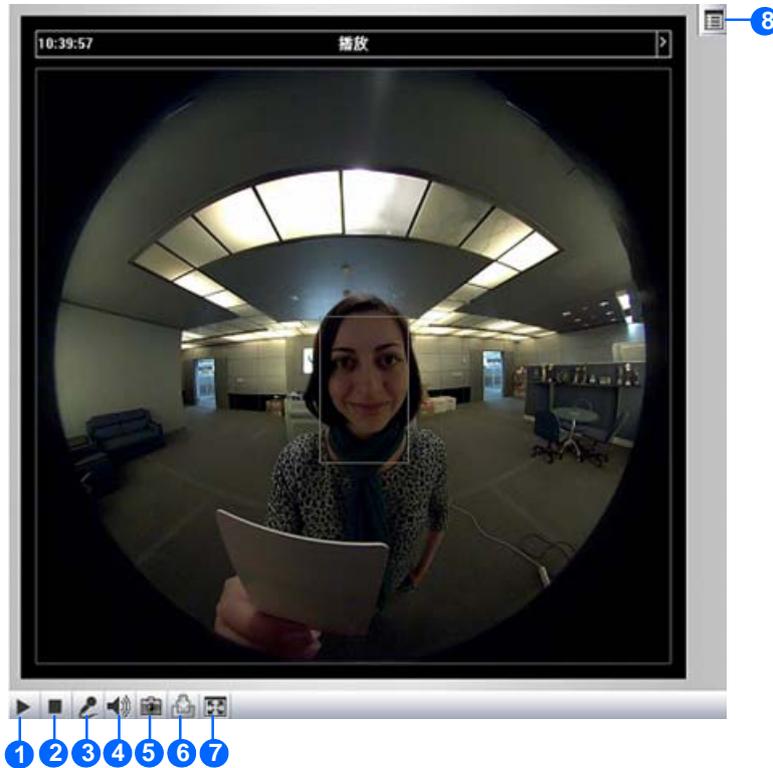
    Username:

    Password:

[Apply]

4. Select **Static IP address**. Type the IP Address, Subnet Mask, Router/Gateway, Primary DNS and Secondary DNS.

5. Click **Apply**. GV-CS1320 is now accessible by entering the assigned IP address on the web browser.

Important:

1. If **Dynamic IP Address** or **PPPoE** is enabled, you need to know which IP address the camera will get from the DHCP server or ISP to log in. If your camera in installed in a LAN, use the GV-IP Device Utility to look up its current dynamic address. See *Checking the Dynamic IP Address*, Chapter 2, *GV-CS1320 Camera Access Controller User's Manual.*
   If your GV-CS1320 uses a public dynamic IP address, via PPPoE, use the Dynamic DNS service to obtain a domain name linked to the camera's changing IP address first. For details on Dynamic DNS Server settings, see *Advanced TCP/IP*, Chapter 4, *GV-CS1320 Camera Access Controller User's Manual.*

2. If **Dynamic IP Address** and **PPPoE** is enabled and you cannot access the unit, you may have to reset it to the factory default settings and then perform the network settings again. Refer to section 7 to see how to restore to factory default settings.

---

5. The Web Interface

No.	Name	Function
1	Play	Plays live video.
2	Stop	Stops playing video.
3	Microphone	Talks to the surveillance area from the local computer.
4	Speaker	Listens to the audio around GV-CS1320.
5	Snapshot	Takes a snapshot of live video.
6	File Save	Records live video to the local computer.
7	Full Screen	Switches to full screen view. Right-click the image to have these options: **Snapshot**, **Digital PTZ**, **Wide Angle Lens Dewarping**, **Wide Angle Setting**, **PIP** and **PAP**.
8	Show System Menu	Brings up these functions: **Alarm Notify**, **Video and Audio Configuration**, **Remote Config**, **Show Camera Name** and **Image Enhance**.

For details, see Chapter 3, *GV-CS1320 Camera Access Controller User's Manual*.

19

![GeoVision logo]

6. Upgrading System Firmware

GeoVision periodically releases the updated firmware on the website. To load the new firmware into the GV-CS1320, follow the instructions below.

1. In the Live View window, click the **Show System Menu** button and select **Remote Config**. This dialog box appears.
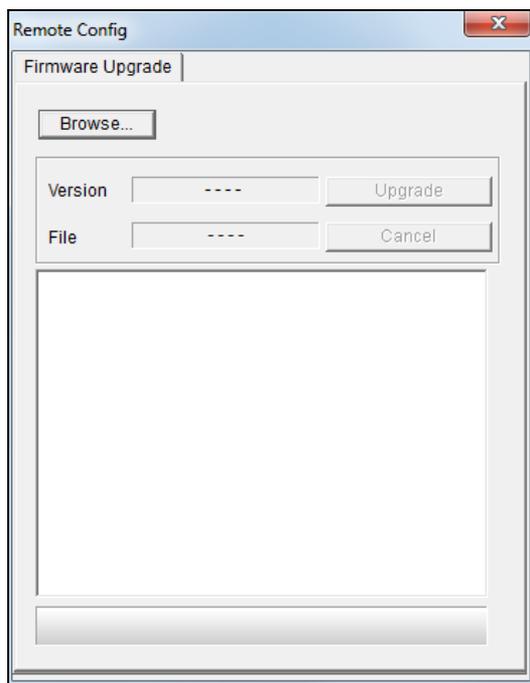
2. Click the **Browse** button to locate the firmware file (.img) saved at your local computer.
3. Click the **Upgrade** button to process the upgrade.

7.   Restoring to Factory Default

You can restore GV-CS1320 to factory default settings using the Web interface or directly on the camera.

7.1   Using the Web Interface

1. In the left menu, select **Management** and select **Tools**.
2. Under the **System Settings** section, click the **Load Default** button.

7.2   Directly on the Camera

1. Unplug the power cable.
2. Use a point object such as the tip of a pen to hold down the **Load default** button while plugging the power cable.

3. Wait until the status LED blinks twice to release the **Load default** button. The process takes about 5 seconds.