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The Vision of Security

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.

CS1320V308-QG-B

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[Warranty]

[Technical Support Policy]

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Installation Considerations

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

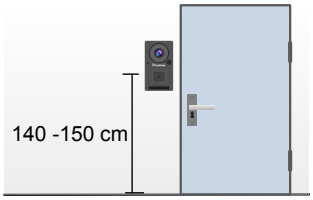
Bell Button Recognition:

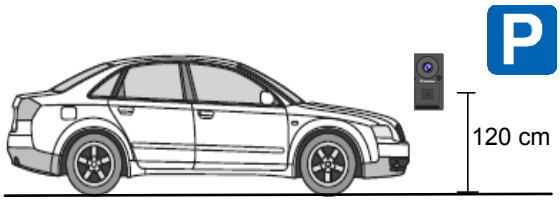
- The bell button cannot be responded with gloves on.



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.





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.

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

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 (formatted and installed)
- Warranty Card

1.2 Compatible Software Versions

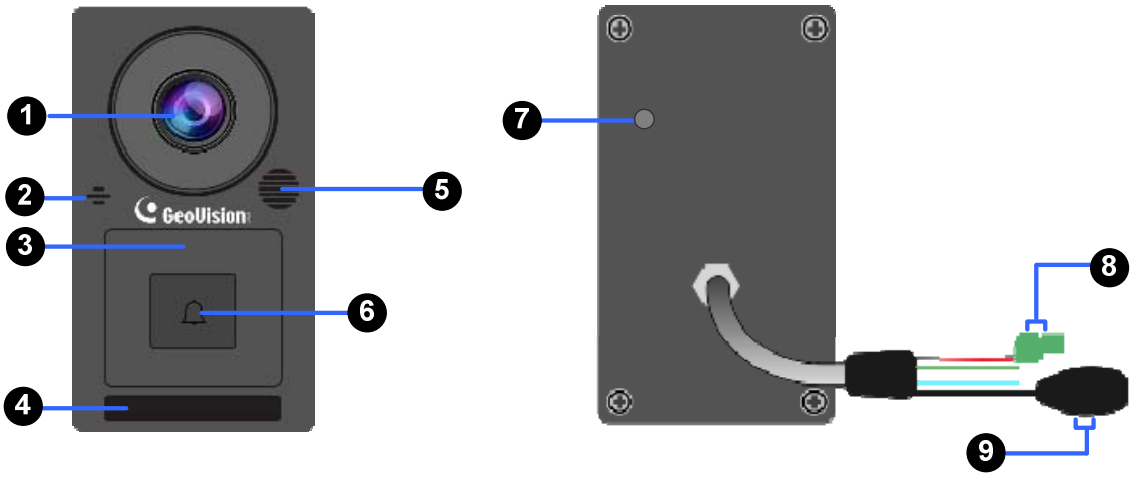
The GeoVision software versions compatible with GV-CS1320 are listed below.

- **GV-VMS:** V15.10 or later
- **GV-DVR / NVR:** V8.6.2.0 (with Patch) or later
- **GV-Control Center:** V3.3.0.0 (with Patch) or later
- **GV-Redundant Serer / Failover Server:** V1.1.0.0 (with Patch) or later
- **GV-Recording Server:** V1.2.5.0 (with Patch) or later
- **GV-Edge Recording Manager:** V1.1.0.0 (with Patch) or later

The compatible versions between GV-CS1320 and GV-ASManager:

GV-CS1320	**V1.0**	**V1.10**	**V1.11**	**V2.00**	**V2.11**	**V2.20**
GV-ASManager	V4.3.5.0	V4.3.5.0 V4.4.0.0	V4.4.2.0 V4.4.3.0	V5.0.0.0	V5.0.1.0	V5.0.2.0
GV-CS1320	**V3.00**	**V3.01 ~ V3.03**	**V3.04 ~ V3.05**	**V3.06**	**V3.07~V3.08**	
GV-ASManager	V5.1.1	V5.2.0	V5.3.0	V5.3.1	V5.3.2	

1.3 Overview

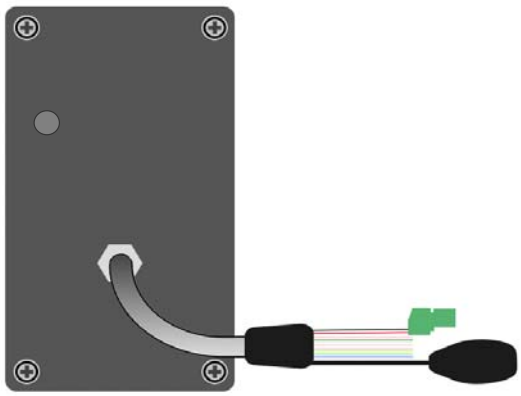


No.	Name	Function
1	Lens	Receives image.
2	Microphone	Receives sound from GV-CS1320.
3	Card Reader	Reads ID cards or ID tags.
4	IR LEDs	Automatically illuminates for night time use.
5	Speaker	Talks to the surveillance area from the local computer.
6	Touchpad and LED status	Touch to activate the talk mode. See the *LED and Beeper Status* below.
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*.

LED and Beeper Status

Condition	LED	Beeper
Ready	Blue (Connected to GV-ASManager) Purple (Disconnected from GV-ASManager)	N/A
Access Denied	Displays red LED momentarily	Two short beeps
Access Granted	Displays green LED momentarily	One long beep
Touchpad activated	Flashes blue momentarily	One short beep
Touchpad ignored	Returns to blue/purple LED	Three short beeps after 30 seconds

Wire Definition



Wire	Definition
RJ-45	Ethernet
Red	12V DC
Black	GND
Yellow	Input 1
Brown	Input COM
Light Red	Input 2
Blue	RS-485 +
Light Blue	RS-485 -
Gray	Output NO
Purple	Output COM
Orange	Output NC
Green	Not functional
White	Not functional

2. In stallation

After the location of your GV-CS1320 is decided, follow the steps below to install the camera access controller. You will need to prepare a **single gang power box** for wall mount installation.

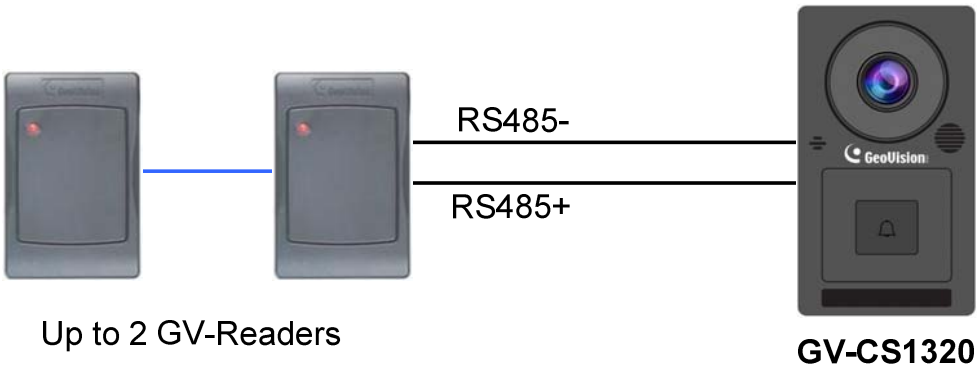
1. Attach the single gang power box to the wall.
2. Place the mounting plate on the single gang power box and secure with the 2 standard screws provided.
3. Place GV-CS1320 on the mounting plate together with the single gang power box and thread the cables through the holes.
4. Secure the security screw on the bottom with the mounting plate.

<table>
<tr>
<td>
Step 2</td>
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Step 3</td>
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Step 4</td>
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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.



Up to 2 GV-Readers

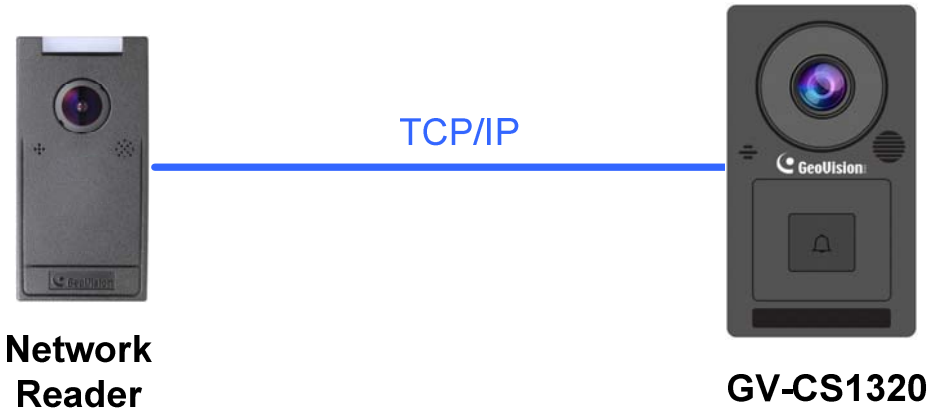
GV-CS1320

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 -

3.2 Connecting Network Readers

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



3.3 Connecting Input Devices to GV-CS1320

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

Note: You can connect a GV-I/O Box to your GV-CS1320 to give an extra layer of security. For details, see *Chapter 8 Connecting to GV-I/O Box 4 Ports, GV-CS1320 Camera Access Controller User's Manual.*

3.4 Connecting Output Devices to GV-CS1320

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.

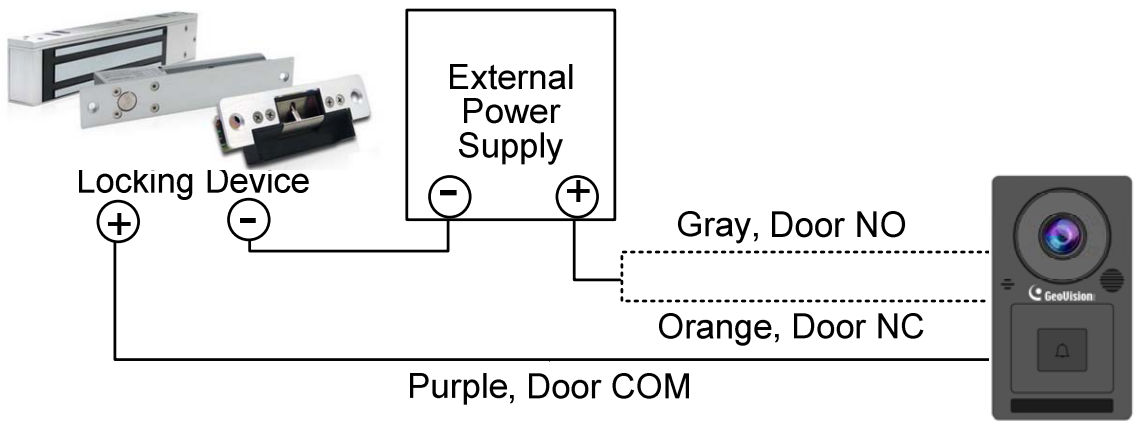
Breakdown Voltage	250V AC, 220V DC
Continuous Load Current	1A (30V DC), 0.3A (125V AC)

Note:

1. 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.
2. You can connect a GV-I/O Box to your GV-CS1320 to give an extra layer of security. For details, see *Chapter 8 Connecting to GV-I/O Box 4 Ports, GV-CS1320 Camera Access Controller User's Manual.*

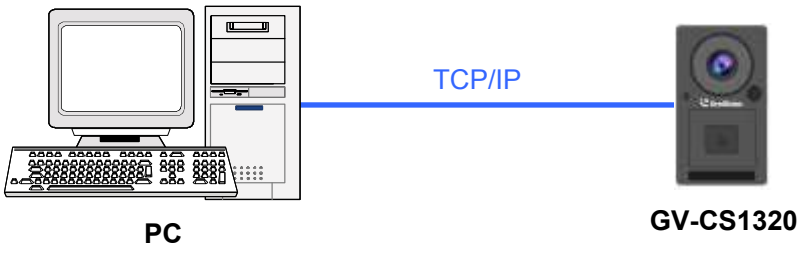
To connect an output device:

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 for configurations, as well as connecting to the access control system GV-ASManager to monitor and regulate the access control of GV-CS1320. The network connection is required between the computer and GV-CS1320.



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:

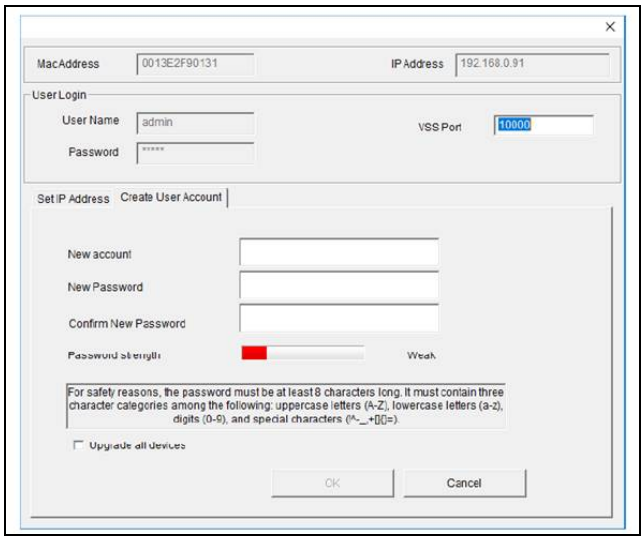
1. Power should only be applied to the unit when all connections are completed and tested.
2. GV-CS1320 produces an output voltage of 12V. You will need to connect an external power supply if the total power consumption exceeds 12V after readers and output devices are connected.

4. Accessing GV-CS1320

4.1 Creating Login Credentials

When purchasing a new GV-CS1320 or after loading default, you need to set up a login username and password for the GV-CS1320.

1. Download and install GV-IP Device Utility from our website.
2. On the GV-IP Device Utility window, click to search for your GV-CS1320.
3. Double-click your GV-CS1320 in the GV-IP Device Utility list. This dialog box appears.



4. Click the **Create User Account** tab to type a new username and password. Note that the new password must meet the password strength requirements.
5. Optionally, click **Upgrade all devices** to use the same username and password on all other devices of the same model.

4.2 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 • Fir efox • G oogle Chrome • Saf ari

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

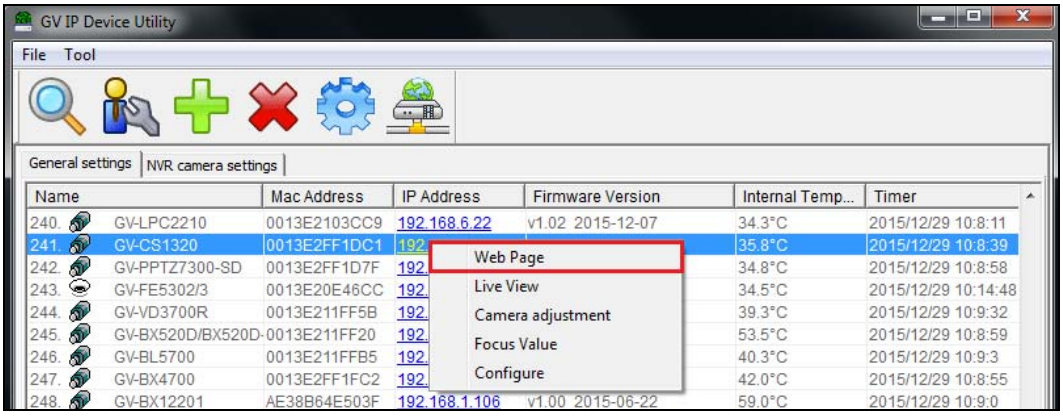
4.3 Looking Up the Dynamic IP Address and Logging In

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 and log in the Web interface.

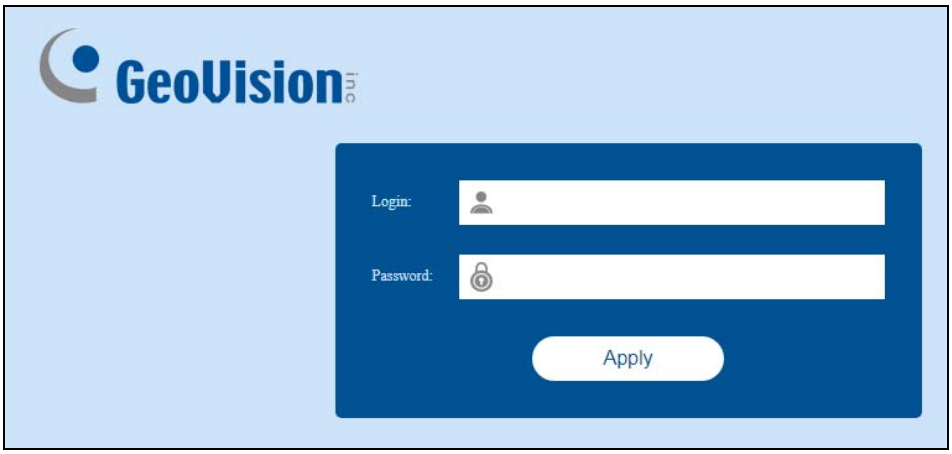
Note: The PC installed with GV-IP Device Utility must be under the same LAN as GV-CS1320.

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1. Install the GV-IP Device Utility program from the Software DVD or our website.
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**.



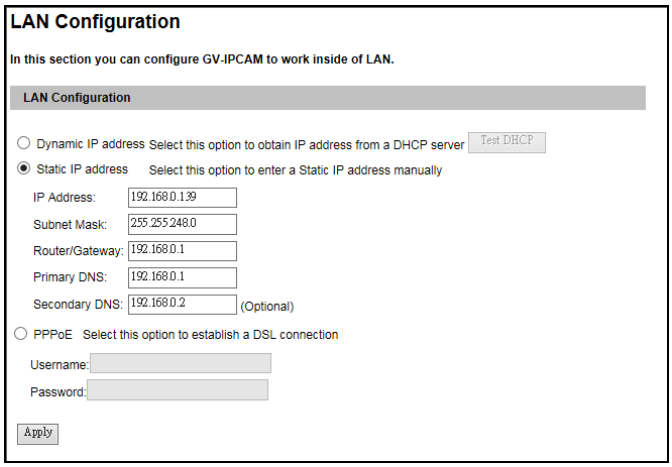
4. On the login page, type your username and password to login.



4.4 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.

1. Open your web browser, and type the default IP address http://192.168.0.10
2. In both Login and Password fields, type your username and password. Click **Apply**.
3. In the left menu, select **Network** and then **LAN** to begin the network settings.



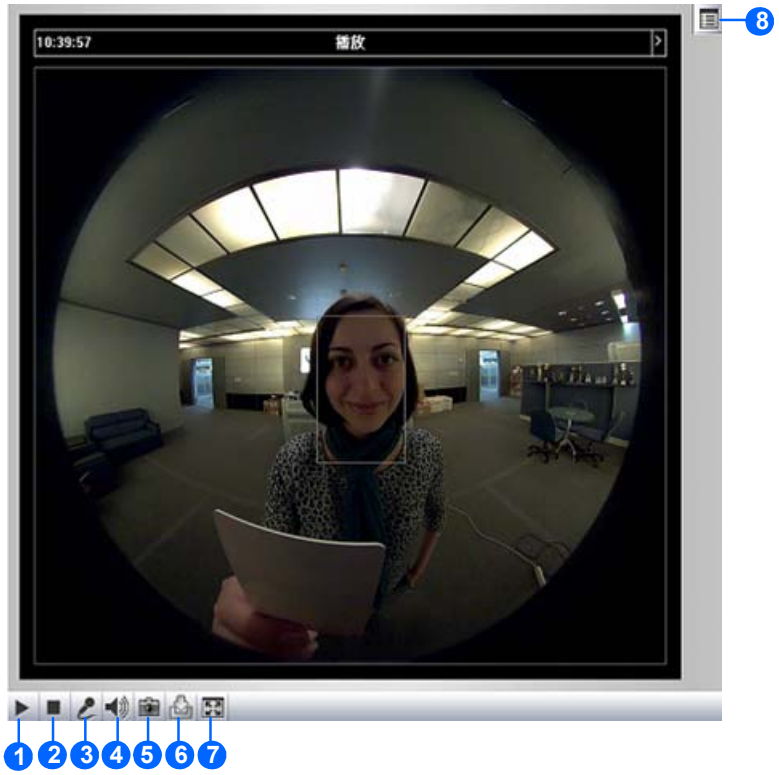
4. Select **Static IP address**. Type the IP Address, Subnet Mask, Router/Gateway, Primary DNS and Secondary DNS.
5. Click **Apply**. GV-CS1320 is now accessible by entering the assigned IP address on the Web browser.

Important:

1. If **Dynamic IP Address** or **PPPoE** is enabled, you need to know which IP address the GV-CS1320 will receive from the DHCP server or ISP to log in. If your device in installed in a LAN, use the GV-IP Device Utility to look up its current dynamic IP address. See *4.2 Checking the Dynamic IP Address and Logging in* in the Quick Start Guide.
   If your GV-CS1320 uses a public dynamic IP address, via PPPoE, first use the Dynamic DNS service to obtain a domain name linked to the device's changing IP address. For details on Dynamic DNS Server, see *4.4.3 Advanced TCP/IP* in the User's Manual.
2. If **Dynamic IP Address** and **PPPoE** is enabled and you cannot access the unit, you will have to reset it to the factory default settings and then perform the network settings again. See *7. Restoring to Factory Default* in the Quick Start Guide.

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5. T he Web Interface



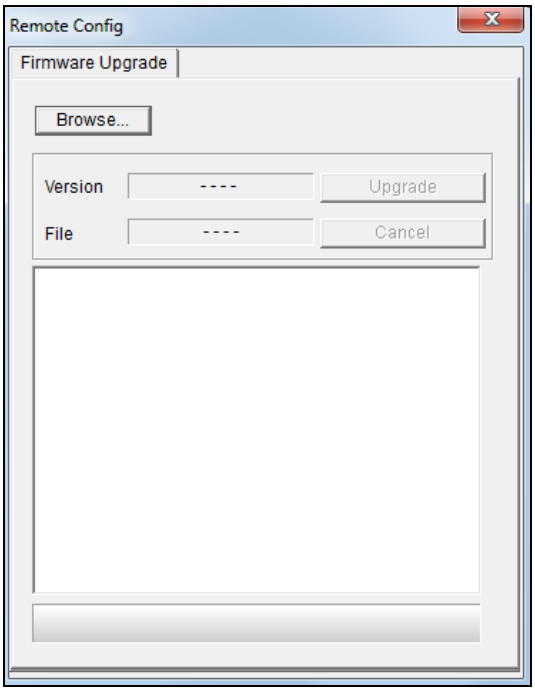
No.	Name	Function
1	Play	Plays live video.
2	Stop	Stops playing video.
3	Microphone	Talks to the surveillance area from the local computer.
4	Speaker	Listens to the audio around GV-CS1320.
5	Snapshot	Takes a snapshot of live video.
6	File Save	Records live video to the local computer.
7	Full Screen	Switches 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 Accessing the Camera Access Controller* in the User's Manual.

6. Up grading 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 (No. 8, *Chapter 5 The Web Interface*) 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.

To upgrade system firmware using GV-IP Device Utility, see *Chapter 5 Advanced Applications* in the User's Manual.

7. Restoring to Factory Default

If for any reason the GV-CS1320 is not responding correctly, you can reset it to its factory default settings by using its Web interface or pressing the **Default** button on the unit.

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.