

# GV-CS1320 Camera Access Controller

## *User's Manual*



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

# GV-CS1320 摄像头访问控制器

## 用户手册



在尝试连接或操作本产品之前，请仔细阅读这些说明，并保存本手册以备将来使用。



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## Naming and Definition

<b>GV-DVR/NVR</b>	GeoVision Analog and Digital Video Recording Software. GV-DVR/NVR also refers to <b>Multicam System, GV-NVR System, GV-Hybrid DVR System</b> and <b>GV-DVR System</b> at the same time.
<b>GV-VMS</b>	GeoVision Video Management System for IP cameras.

## Optional Device

Optional devices can expand the capabilities and versatilities of your GV-CS1320. Consult your sales representative for more information.

<b>GV-AS ID Card &amp; GV-AS ID Key Fob</b>	125 KHz and 13.56 MHz cards / key fobs are available.
<b>GV-FWC</b>	GV-FWC integrates GeoVision face-recognition-based cameras, software and readers into access control systems by sending access card data, paired to Face IDs, to controllers either through TCP/IP or Wiegand connection.
<b>GV-GF Fingerprint Readers</b>	The reader supports three operation modes for access control: Fingerprint Only, Fingerprint + Card and Card Only. Readers with optical and capacitance sensors are available.
<b>GV-IB25 / 65 / 85 Infrared Button</b>	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.

## 命名和定义

<b>GV-DVR/NVR</b>	GeoVision 模拟和数字视频录制软件。GV-DVR/NVR 也同时指代 <b>Multicam</b> 系统，GV-NVR 系统，GV-混合 DVR 系统和GV-DVR 系统。
<b>GV-VMS</b>	GeoVision IP 摄像头视频管理系统。

## 可选设备

可选设备可以扩展您的 GV-CS1320 的功能和灵活性。有关更多信息，请咨询您的销售代表。

<b>GV-AS ID 卡 &amp; GV-AS ID 钥匙扣</b>	提供 125 KHz 和 13.56 MHz 卡 / 钥匙扣。
<b>GV-FWC</b>	GV-FWC 将 GeoVision 基于人脸识别的摄像头、软件和读卡器集成到访问控制系统中，通过 TCP/IP 或 Wiegand 连接将与人脸 ID 配对的访问卡数据发送到控制器。
<b>GV-GF 指纹读卡器</b>	该读卡器支持三种访问控制操作模式： 仅指纹、指纹 + 卡和仅卡。可提供光学和电容传感器的读卡器。
<b>GV-IB25 / 65 / 85 红外按钮</b>	GV-IB25 / 65 / 85 红外按钮可以检测3到12厘米范围内的红外运动，并允许您通过挥手打开门。

<b>GV-IO Box Series</b>	GV-IO Box series provides 4 / 8 / 16 inputs and relay outputs, and supports both DC and AC output voltages, with optional support for Ethernet module and 4E additionally supporting PoE connection.
<b>GV-WTR</b>	GV-WTR is a converter designed for converting Wiegand interface to RS-485 interface, and vice versa. It enables 3rd party readers to be connected to RS-485 GV-Controllers, as well as allowing GV-AI FR (software) and GV-CR1320 (RS-485 camera reader) to be connected to 3rd-party Wiegand controllers.
<b>Electric Lock</b>	Three types of electric locks are available: electromagnetic lock, electric bolt and electric strike.
<b>Power Adapter</b>	Contact our sales representatives for the countries and areas supported.
<b>Push Button Switch</b>	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.

<b>GV-IO 盒系列</b>	GV-IO 盒系列提供4 / 8 / 16个输入和继电器输出，支持直流和交流输出电压，并可选支持以太网模块，4E额外支持PoE连接。
<b>GV-WTR</b>	GV-WTR是一个转换器，旨在将Wiegand接口转换为RS-485接口，反之亦然。它使第三方读卡器能够连接到RS-485 GV控制器，同时允许GV-AI FR（软件）和GV-CR1320（RS-485摄像头读卡器）连接到第三方Wiegand控制器。
<b>电锁</b>	可用的电锁有三种类型：电磁锁、电动插销和电动门锁。
<b>电源适配器</b>	请联系我们的销售代表以获取支持的国家和地区信息。
<b>按钮开关</b>	按钮开关可以与访问控制系统集成，通过瞬时激活或停用电锁装置来允许门的退出。提供美标和欧标按钮开关。

# Installation Considerations

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

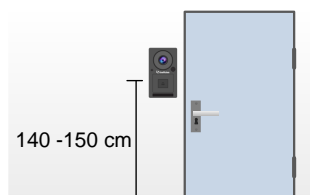
## Touchpad Recognition:

- The touchpad cannot be activated 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.



# 安装注意事项

为确保持卡人的手指可以被检测到，请按照以下说明设置GV-CS1320。

## 触摸板识别：

- 触摸板在戴手套时无法激活。



## 安装高度：

- 当放置在建筑大门时，GV-CS1320应离地面约1.4-1.5米。
- 当放置在停车场大门时，GV-CS1320应离地面约1.2米，以匹配车辆的高度。





## **Lighting Conditions**

- Avoid placing GV-CS1320 where the light source is directly behind the subject.
- Prevent light from directly falling onto GV-CS1320's camera lens.

### 光照条件

- 避免将GV-CS1320放置在光源直接位于被摄体后方的地方。
- 防止光线直接照射到 GV-CS1320'的摄像头镜头上。

# Chapter 1 Introduction



GV-CS1320 is an access controller with a built-in 2 MP camera and 13.56 MHz reader. GV-CS1320 recognizes access control cards and grants access to up to 100,000 registered users. Its camera captures a live view of entrance / exit and transmits it to the access control system GV-ASManager over a network. With the camera access controller, you won't need to install and maintain a separate camera.

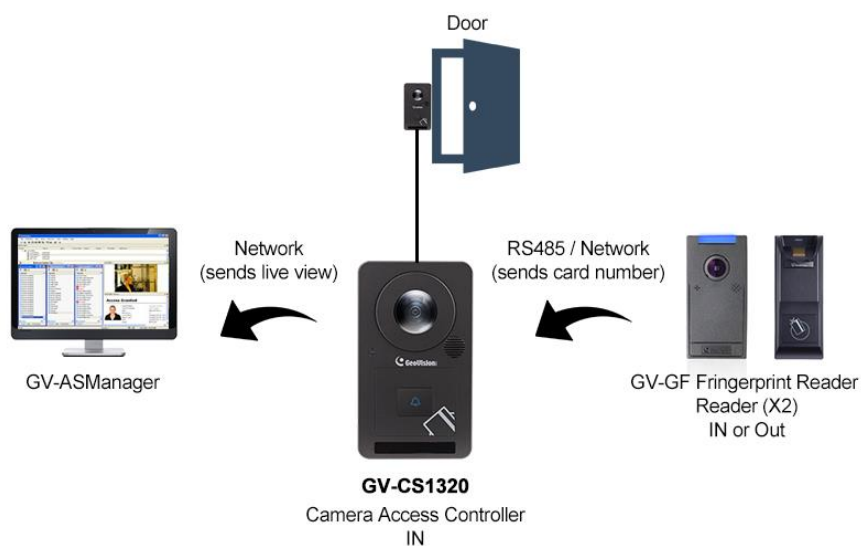


Figure 1-1

## 第1章 介绍



GV-CS1320 是一款内置 2 MP 摄像头和 13.56 MHz 读卡器的访问控制器。GV-CS1320 识别访问控制卡，并允许多达 100,000 名注册用户访问。其摄像头捕捉入口/出口的实时画面，并通过网络将其传输到访问控制系统 GV-ASManager。使用摄像头访问控制器，您无需安装和维护单独的摄像头。



图 1-1

When the touchpad on GV-CS1320 is activated by visitors, the security staff can communicate with visitors and grant access with the following three methods: SIP/VoIP Calling, GV-ASNotify PC program and GV-Access mobile app.

### 1. GV-ASNotify PC Program:

When GV-CS1320 is connected to the access control system GV-ASManager, GV-ASNotify will generate notifications whenever the touchpad is activated. The security staff can then use the program to watch live view and talk to the access control site.

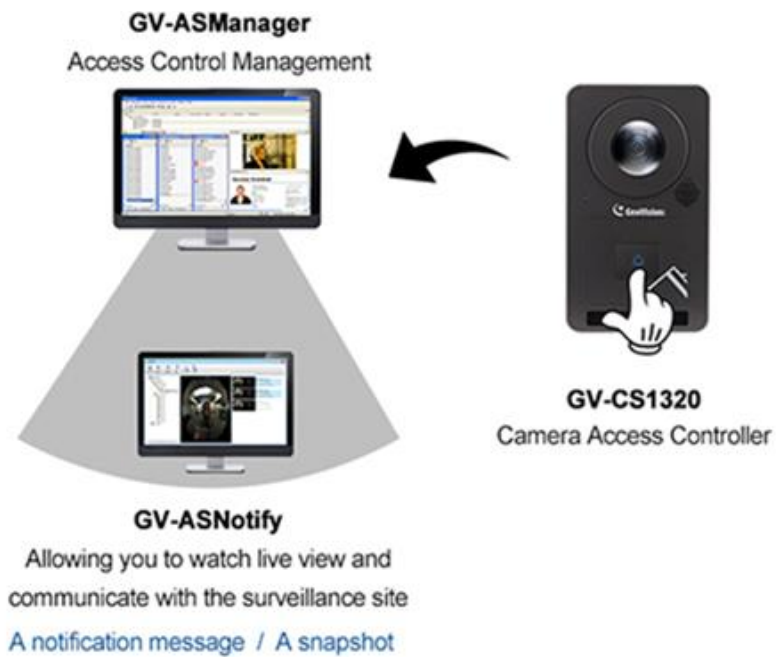


Figure 1-2

当访客激活 GV-CS1320 上的触摸板时，安保人员可以通过以下三种方式与访客沟通并授予访问权限：SIP/VoIP 呼叫、GV-ASNotify PC 程序和 GV-Access 移动应用。

### 1. GV-ASNotify PC 程序：

当 GV-CS1320 连接到访问控制系统 GV-ASManager 时，GV-ASNotify 将在触摸板被激活时生成通知。安全人员可以使用该程序观看实时画面并与访问控制现场进行对话。



图 1-2

**2. GV-Access Mobile App:**

Using the GV-Access mobile app, the security staff can receive push notifications when the touchpad of GV-CS1320 is activated and launch a live view call with visitors. For details on the mobile app, visit our [website](#).

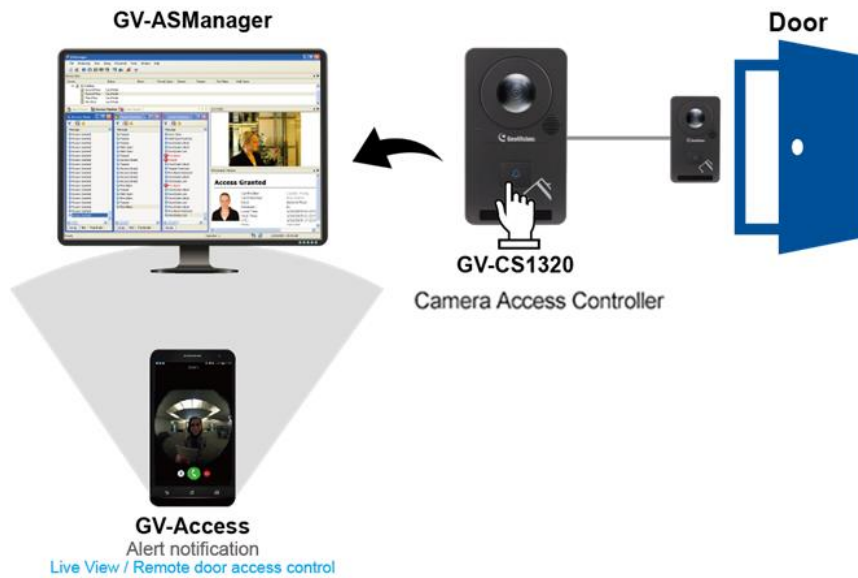


Figure 1-3

**3. VoIP Calls:**

When the touchpad is activated, GV-CS1320 can place a call to the security staff through VoIP. The security staff can then communicate with visitors and enter an access code to open the door.

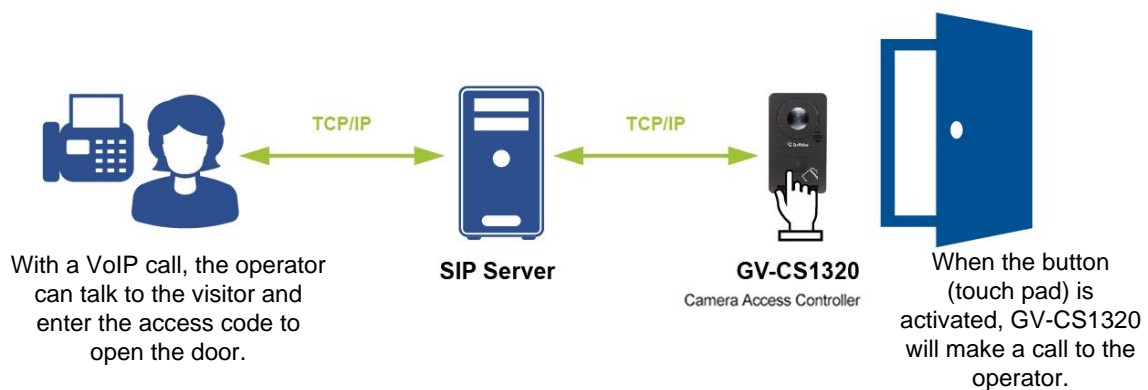


Figure 1-4

### 2. GV-Access 移动应用程序:

使用 GV-Access 移动应用程序，安全人员可以在 GV-CS1320 的触摸板被激活时接收推送通知，并与访客发起实时通话。有关移动应用程序的详细信息，请访问我们的[网站](#)。



图 1-3

### 3. VoIP 通话:

当触摸板被激活时，GV-CS1320 可以通过 VoIP 给安全人员拨打电话。安全人员可以与访客进行沟通，并输入访问代码以打开门。

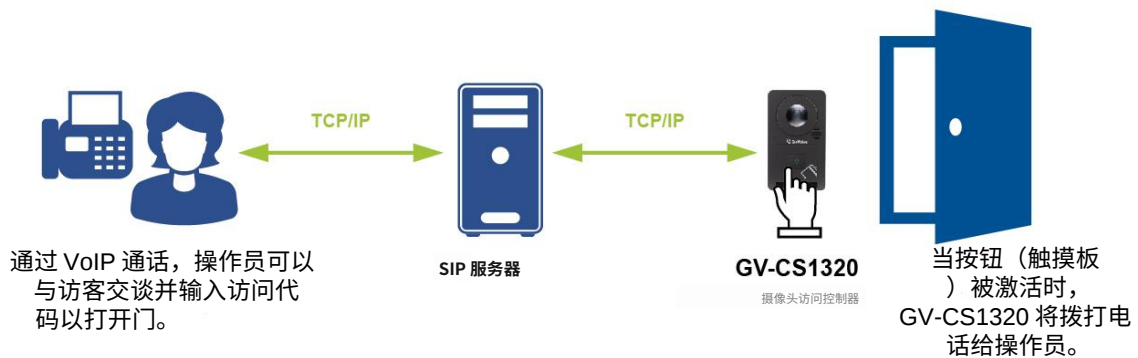


图 1-4



## 1.1 Key Features

### Camera

- 2 MP progressive scan super low lux CMOS
- Minimum illumination at 0.02 lux
- Dual streams from H.264 and MJPEG
- Up to 15 fps at 1920 x 1080
- Day and night function (with removable IR-cut filter)
- Built-in IR with effective distance up to 3 m (10 ft)
- Ingress protection (IP66)
- 12V DC, 2.5A / PoE+ (IEEE 802.3at)
- Built-in microphone and speaker
- Wide Dynamic Range (WDR)
- Built-in micro SD card slot
- Provides 180° panorama view
- ONVIF (Profile S) conformant

### Reader

- Built-in 13.56 MHz, ISO 14443A reader
- Support for GV-Proximity Cards with GID (GeoVision identifier) to enhance security
- 2 types of interfaces, RS-485 and TCP/IP, supporting 2 readers for each interface
- OSDP communication through RS-485

## 1.1 主要特点

### 摄像头

- 2 MP逐行扫描超低照度CMOS
- 最低照度为0.02 lux
- 支持H.264和MJPEG的双流
- 在1920 x 1080下可达15 fps
- 日夜功能（带可拆卸IR-cut滤镜）
- 内置红外灯，有效距离可达3米（10英尺）
- 防水等级（IP66）
- 12V DC, 2.5A / PoE+ (IEEE 802.3at)
- 内置麦克风和扬声器
- 宽动态范围（WDR）
- 内置micro SD卡槽
- 提供180°全景视图
- 符合ONVIF（Profile S）

### 读卡器

- 内置13.56 MHz, ISO 14443A读卡器
- 支持GV-接近卡，带GID（GeoVision标识符）以增强安全性
- 2种接口，RS-485和TCP/IP，支持每个接口2个读卡器
- 通过RS-485进行OSDP通信

**Access Control**

- 1 door (one-way or two-way control)
- 2 inputs, dry contact (Door Sensor / Exit Button)
- 1 relay output (Electric Lock)
- Support for GV-I/O Box 4 Ports for door / fire / temper sensor, door button and doorbell applications
- Touchpad to activate two-way communication between the security staff and visitors
- Snapshots captured upon card presented and touchpad activated
- SIP / VoIP calling support
- Anti-passback (APB) support
- GV-Access app for push notifications and live view calls

## 访问控制

- 1扇门（单向或双向控制）
- 2个输入，干接点（门传感器/退出按钮）
- 1个继电器输出（电锁）
- 支持GV-I/O盒4个端口，用于门/火灾/防篡改传感器、门按钮和门铃应用
  
- 触摸板以激活安保人员与访客之间的双向通信
- 在卡片呈现和触摸板激活时捕获快照
- 支持SIP/VoIP呼叫
- 支持反向通行（APB）
- GV-Access应用程序用于推送通知和实时通话

## 1.2 Packing List

- GV-CS1320



- Mounting Plate



- Standard Screw x 2



- Plastic Screw Anchor x 2



- Security Screw



- Torx Wrench



- Silica Gel Bag
- Software DVD
- Micro SD Card 2 GB (formatted and installed)
- Warranty Card

## 1.2 包装清单

- GV-CS1320



- 标准螺丝 x 2



- 安全螺丝



- 硅胶袋
- 软件DVD
- Micro SD 卡 2 GB (已格式化并安装)
- 保修卡

- 安装板



- 塑料螺丝锚 x 2



- Torx扳手



## 1.3 System Requirements

To access the functions and settings of GV-CS1320 on the Web interface, ensure your PC has good network connection and use one of the following web browsers:

- Internet Explorer 9 x or later
- Microsoft Edge
- Google Chrome
- Firefox

---

**Note:** For users of non-IE browsers, download **GV-Web Viewer** to access full functioning user interface. See [3.1 Accessing Your Surveillance Images](#).

---

### 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	V3.09
GV-ASManager	V5.1.1	V5.2.0	V5.3.0	V5.3.1	V5.3.2	V5.3.3
GV-CS1320	V3.10	V3.11	3.12			
GV-ASManager	V5.3.4	V6.0.1 V6.0.1A	V6.0.1A			

## 1.3 系统要求

要通过网页界面访问 GV-CS1320 的功能和设置，请确保您的电脑有良好的网络连接，并使用以下任一网页浏览器：

- Internet Explorer 9 及更高版本
- Microsoft Edge
- 谷歌浏览器
- 火狐浏览器

---

注意：对于非 IE 浏览器的用户，请下载 [GV-Web Viewer](#) 以访问完整功能的用户界面。参见 [3.1 访问您的监控图像](#)。

---

### 兼容软件版本

与 GV-CS1320 兼容的 GeoVision 软件版本如下所示。

- **GV-VMS:** V15.10 或更高版本
- **GV-DVR / NVR:** V8.6.2.0（带补丁）或更高版本
- **GV-Control Center:** V3.3.0.0（带补丁）或更高版本
- **GV-冗余服务器 / 备用服务器:** V1.1.0.0（带补丁）或更高版本
- **GV-录制服务器:** V1.2.5.0（带补丁）或更高版本
- **GV-Edge 录制管理器:** V1.1.0.0（带补丁）或更高版本

GV-CS1320 与 GV-ASManager 之间的兼容版本：

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	V3.09
GV-ASManager	V5.1.1	V5.2.0	V5.3.0	V5.3.1	V5.3.2	V5.3.3
GV-CS1320	V3.10	V3.11	3.12			
GV-ASManager	V5.3.4	V6.0.1 V6.0.1A	V6.0.1A			



## 1.4 Physical Description

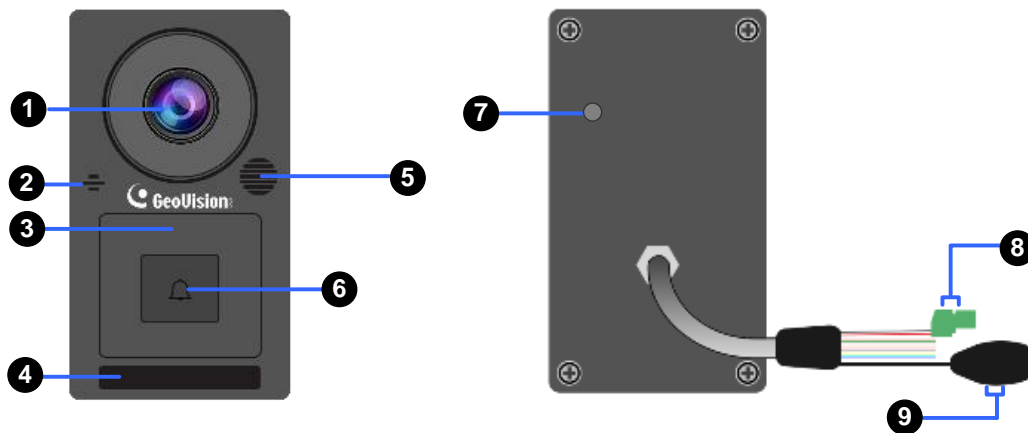


Figure 1-5

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 <i>1.7 LED Status and Beeper</i> .
7	Default Button	Resets all configurations to default factory settings. See <i>5.3 Restoring to Factory Default Settings</i> .
8	Power Cable	Connects to power supply. See <i>1.6.5 Connecting the Power</i> .
9	Ethernet Port	Connects to network and power supply. See <i>1.6.4 Connecting GV-CS1320 to PC</i> .

## 1.4 物理描述

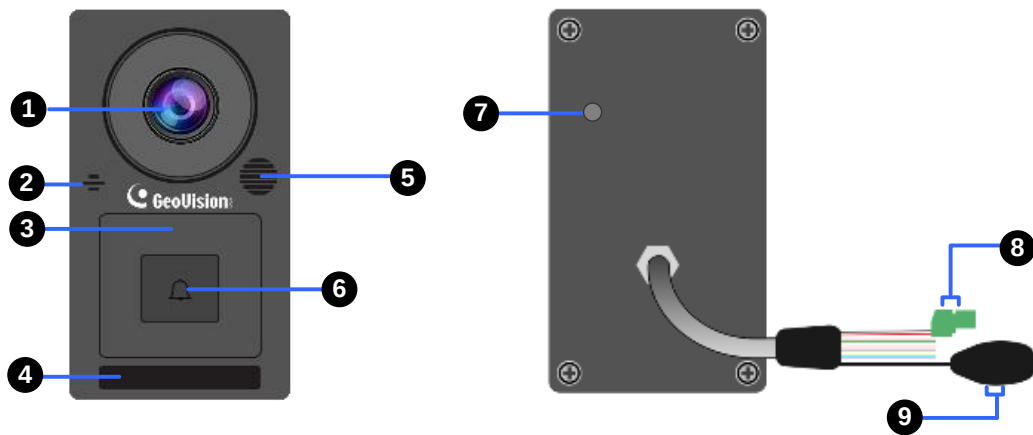


图 1-5

否	名称	功能
1	镜头	接收图像。
2	麦克风	接收来自 GV-CS1320 的声音。
3	卡读卡器	读取身份证或 ID 标签。
4	红外 LED	自动照明以便夜间使用。
5	扬声器	从本地计算机与监控区域对话。
6	触摸板和 LED 状态	触摸以激活对话模式。见1.7 LED 状态和蜂鸣器。
7	默认按钮	将所有配置重置为出厂默认设置。参见 5.3 恢复出厂默认设置。
8	电源线	连接到电源供应。参见1.6.5 连接电源。
9	以太网端口	连接到网络 and 电源供应。参见1.6.4 连接 GV-CS1320 到 PC。

## 1.5 Installation

### 1.5.1 Wire Definition

The wire assignment of GV-CS1320 cable data is illustrated below.

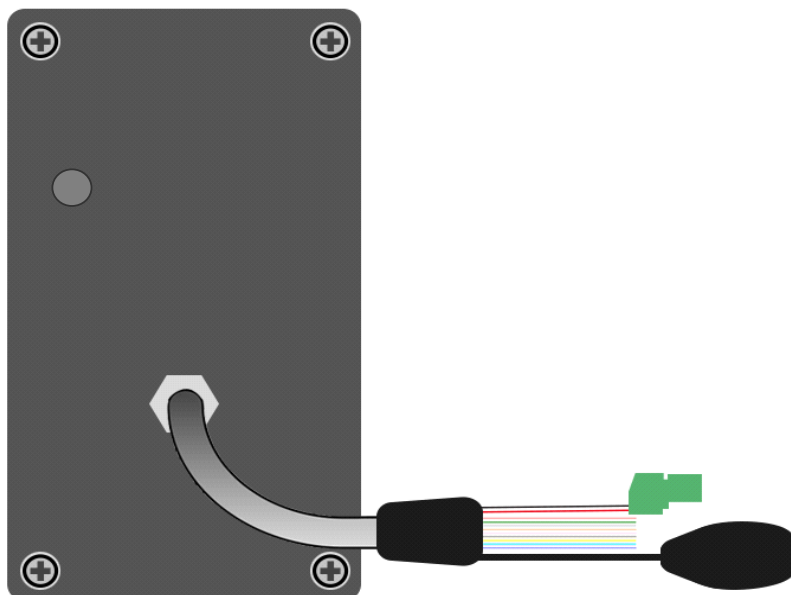


Figure 1-6

Wire	Definition	Wire	Definition
RJ-45	Ethernet	Blue	RS-485 +
Red	12V DC	Light Blue	RS-485 -
Black	GND	Gray	Door NO
Yellow	Sensor IN1	Purple	Door COM
Brown	IN COM	Orange	Door NC
Light Red	Button IN2	Green	Not functional
White	Not functional		

## 1.5 安装

### 1.5.1 线缆定义

GV-CS1320 电缆数据的线缆分配如下所示。

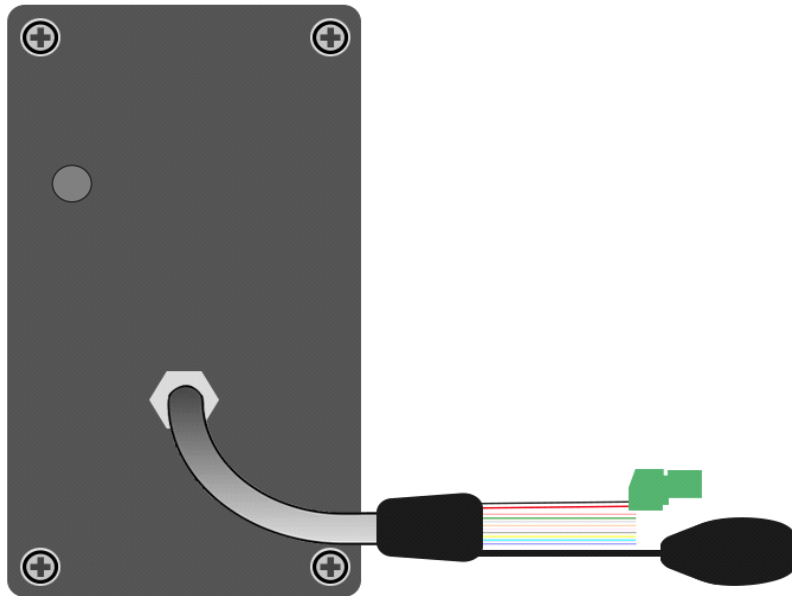


图 1-6

线缆	定义	线缆	定义
RJ-45	以太网	蓝色	RS-485 +
红色	12V DC	浅蓝色	RS-485 -
黑色	接地	灰色	门常开
黄色	传感器输入1	紫色	门公共
棕色	输入公共	橙色	门常闭
浅红色	按钮 IN2	绿色	不可用
白色	不可用		

## 1.5.2 Installing GV-CS1320

After the location of GV-CS1320 is decided, follow the steps below to install the camera access controller.

---

**Note:** 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.

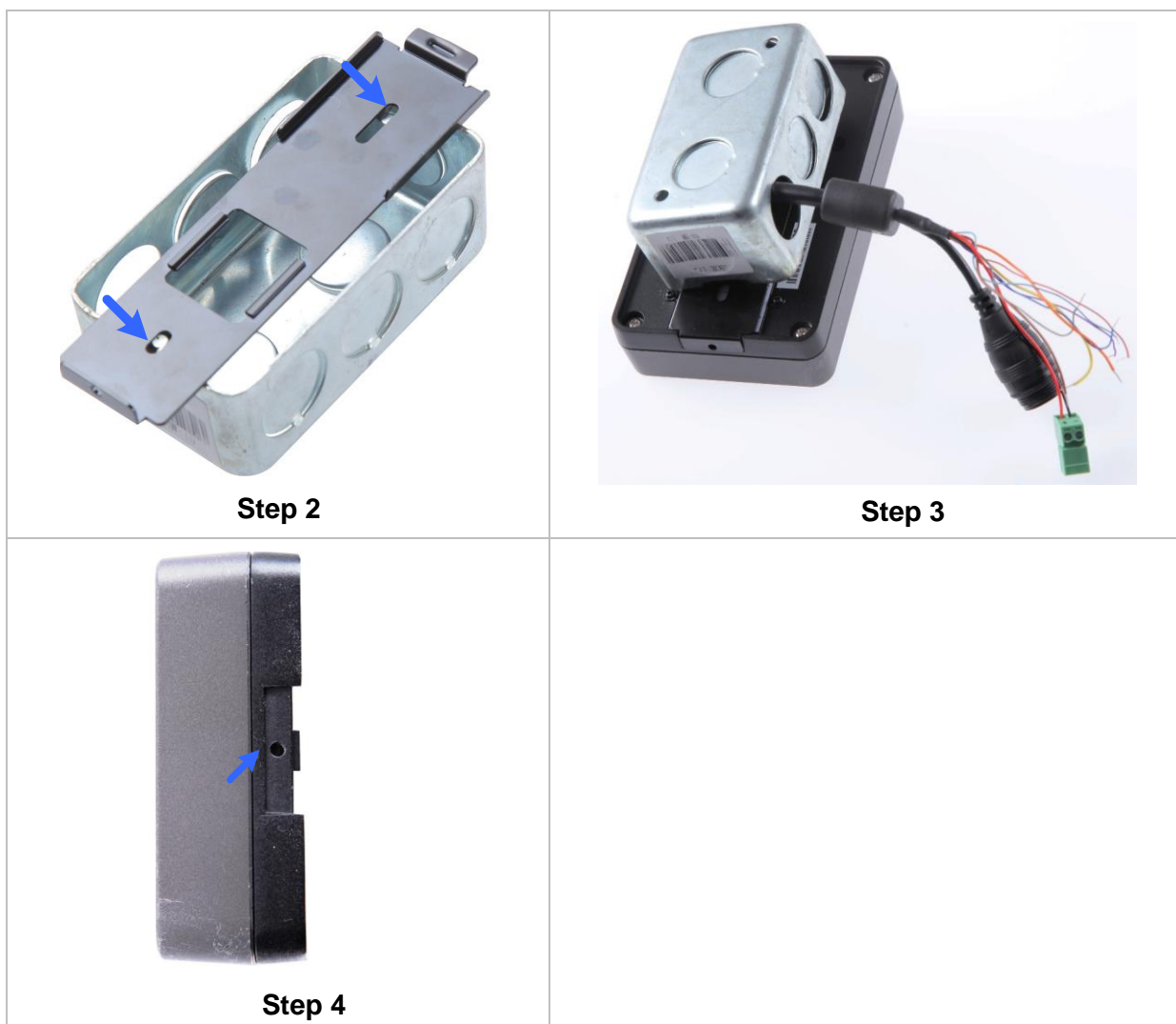


Figure 1-7

## 1.5.2 安装 GV-CS1320

确定 GV-CS1320 的位置后，请按照以下步骤安装摄像头访问控制器。

---

**注意：**您需要准备一个单开电源盒以进行墙面安装。

---

1. 将单开电源盒固定在墙上。
2. 将安装板放在单开电源盒上，并用提供的两个标准螺丝固定。
3. 将 GV-CR1320 放在安装板上，与单开电源盒一起，并将电缆穿过孔。
4. 用安装板固定底部的安全螺丝。



图 1-7

### 1.5.3 Replacing the Silica Gel Bag

If you opened the compartment cover at the back of your GV-CS1320 to change a new Micro SD card, you must follow the steps below to replace the original silica gel bag with a new one.

1. Open the compartment cover at the back of your GV-CS1320 with a screwdriver.

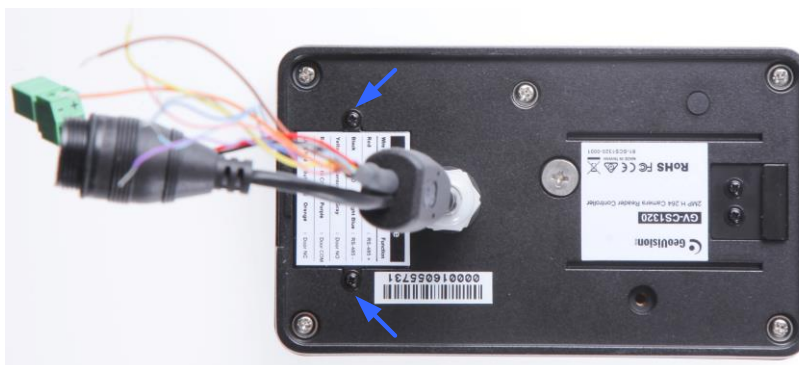


Figure 1-8

2. To replace the silica gel bag, remove the silica gel bag and place a new one to the camera.



Figure 1-9

3. Fasten the compartment cover.

---

#### IMPORTANT:

1. The silica gel loses its effectiveness when the dry camera access controller is opened. To prevent the lens from fogging up, replace the silica gel bag every time when you open the camera access controller and conceal the gel bag in the camera access controller within two minutes of exposing to the open air.
  2. For each newly replaced silica gel bag, allow it to absorb moisture for at least 30 minutes before operating the camera.
-

### 1.5.3 更换硅胶袋

如果您打开了 GV-CS1320 后面的舱盖以更换新的 Micro SD 卡，则必须按照以下步骤将原来的硅胶袋更换为新的。

1.用螺丝刀打开GV-CS1320背面的舱盖。

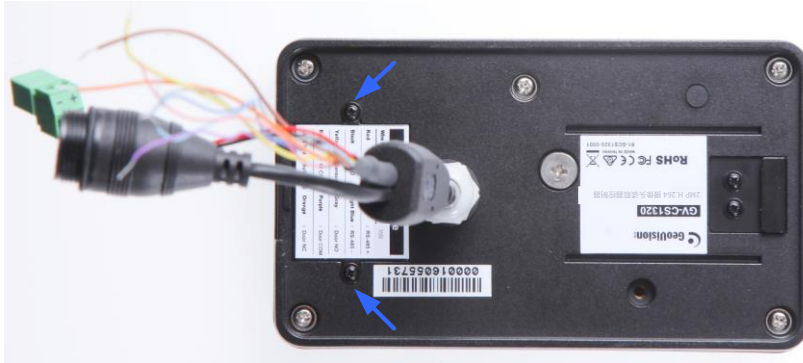


图 1-8

2.要更换硅胶袋，请取出旧的硅胶袋并将新的硅胶袋放入摄像头中。



图 1-9

3.固定舱盖。

---

#### 重要提示：

- 1.当干燥的摄像头访问控制器被打开时，硅胶的有效性会降低。  
为了防止镜头起雾，每次打开摄像头访问控制器时都要更换硅胶袋，并在暴露于空气中两分钟内将硅胶袋放回摄像头访问控制器内。
  - 2.对于每个新更换的硅胶袋，操作摄像头前请至少让其吸收水分30分钟。
-



## 1.6 Connecting GV-CS1320

### 1.6.1 Connecting RS485 / OSDP Readers

GV-CS1320 can establish RS-485 connection with up to 2 RS-485 or OSDP readers. Connect the RS-485 wires from GV-CS1320 to the reader. The 12V DC and GND wires of GV-CS1320 are used to power the reader, but you will need to set up a separate power source if the total power consumption (including output devices) exceeds 12V.

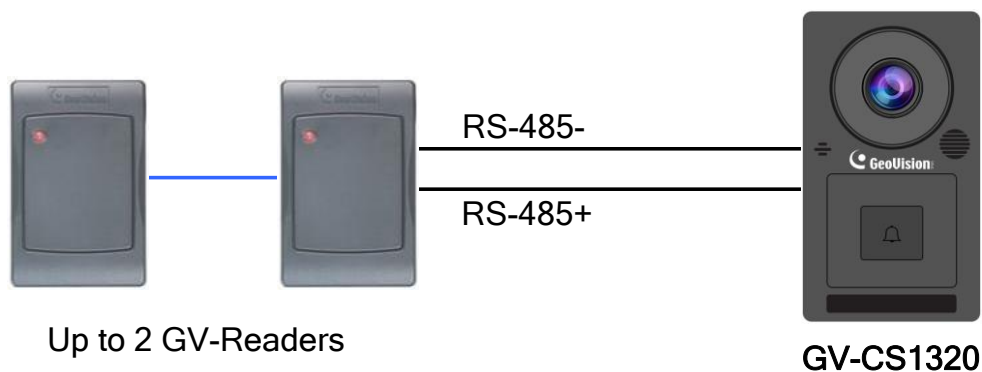


Figure 1-10

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 -

---

**Note:** For the RS-485 interface, connect just one of the following readers to GV-CS1320: GV RS-485 readers and OSDP compliant readers.

---

## 1.6 连接 GV-CS1320

### 1.6.1 连接 RS485 / OSDP 读卡器

GV-CS1320 可以与最多 2 个 RS-485 或 OSDP 读卡器建立 RS-485 连接。

将GV-CS1320的RS-485电缆连接到读卡器。GV-CS1320的12V直流电源和接地线用于为读卡器供电，但如果总功耗（包括输出设备）超过12V，则需要设置单独的电源。

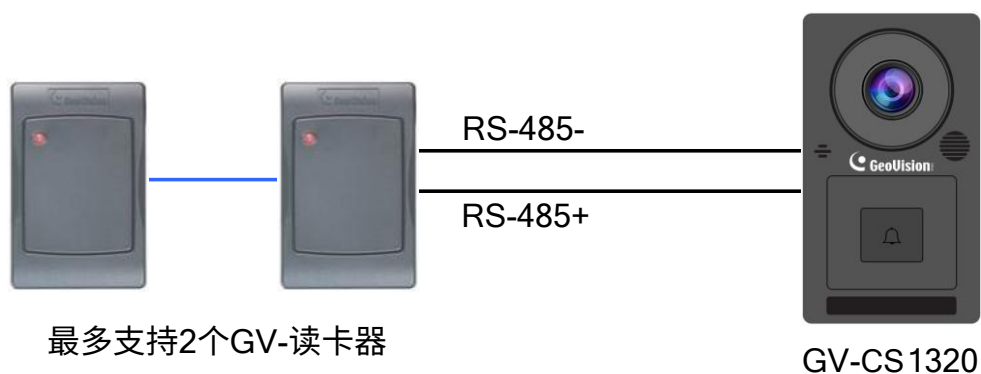


图1-10

下表显示了GV-CS1320上RS485连接的线缆分配。

线缆颜色	定义
红色	12V DC
黑色	接地
蓝色	RS-485 +
浅蓝色	RS-485 -

---

注意：对于RS-485接口，仅需将以下读卡器之一连接到GV-CS1320：  
GV RS-485读卡器和符合OSDP标准的读卡器。

---

### 1.6.2 Connecting Network Readers

GV-CS1320 supports network connection with GV-CR420, GV-GF1921 / 1922 and GV-FR2020.

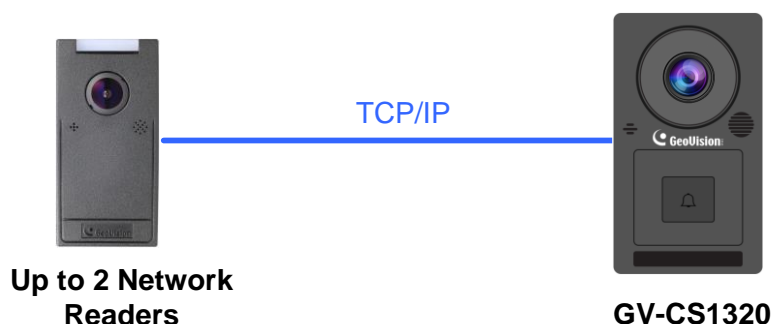


Figure 1-11

### 1.6.3 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 *4.2.1.4 Input Setting*

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*.

---

## 1.6.2 连接网络读卡器

GV-CS1320支持与GV-CR420、GV-GF1921 / 1922和GV-FR2020的网络连接。



图1-11

## 1.6.3 将输入设备连接到GV-CS1320

GV-CS1320 支持 2 种输入类型：

1. 传感器输入，例如门状态传感器
2. 按钮输入，例如门开启按钮和退出按钮

所有输入均为**干接点**，并且可以通过 GV-CS1320 网页界面配置为常开 (NO) 或常闭 (NC)。默认值为 **NO**。要更改输入状态，请参见4.2.1.4 输入设置

下表显示了 GV-CS1320 上输入连接器的接线分配。

线缆颜色	定义
黄色	传感器输入1
浅红色	按钮 IN2
棕色	输入公共

---

**注意：**您可以将 GV-I/O Box 连接到您的 GV-CS1320，以提供额外的安全层。有关详细信息，请参见第 8 章 连接到 GV-I/O Box 4 端口。

---

## 1.6.4 Connecting an Output Device 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.

<b>Breakdown Voltage</b>	250V AC, 220V DC
<b>Continuous Load Current</b>	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*.

**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.

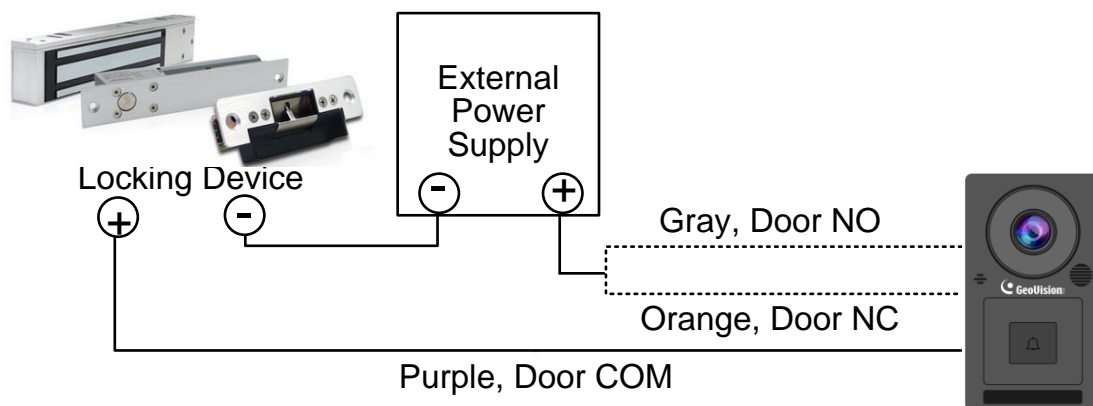


Figure 1-12

## 1 .6.4 连接输出设备到 GV-CS1320

GV-CS1320 支持 1 种输出：门输出，例如电子锁。

下表显示了 GV-CS1320 上输出连接器的接线分配。

线缆颜色	定义
紫色	门公共
橙色	门常闭
灰色	门常开

在将输出设备连接到门输出之前，请检查您的输出设备是否符合以下绝对最大额定值。

击穿电压	250V AC, 220V DC
连续负载电流	1A (30V DC), 0.3A (125V AC)

### 注意：

1. 绝对最大额定值是指超出这些值可能会对GV-CS1320电路板造成损坏。在绝对额定值水平下连续操作GV-CS1320可能会影响GV-CS1320的可靠性。
2. 您可以将GV-I/O盒连接到您的GV-CS1320，以提供额外的安全层。  
有关详细信息，请参见第 8 章 连接到 GV-I/O Box 4 端口。

### 连接输出设备：

下面的示例说明了将锁定设备连接到GV-CS1320。将锁定设备的 (+) 点连接到GV-CS1320 的门COM线，将锁定设备和外部电源的两个 (-) 点连接在一起，并根据锁定设备的状态将外部电源的 (+) 点连接到GV-CS1320的门NO或门NC线。

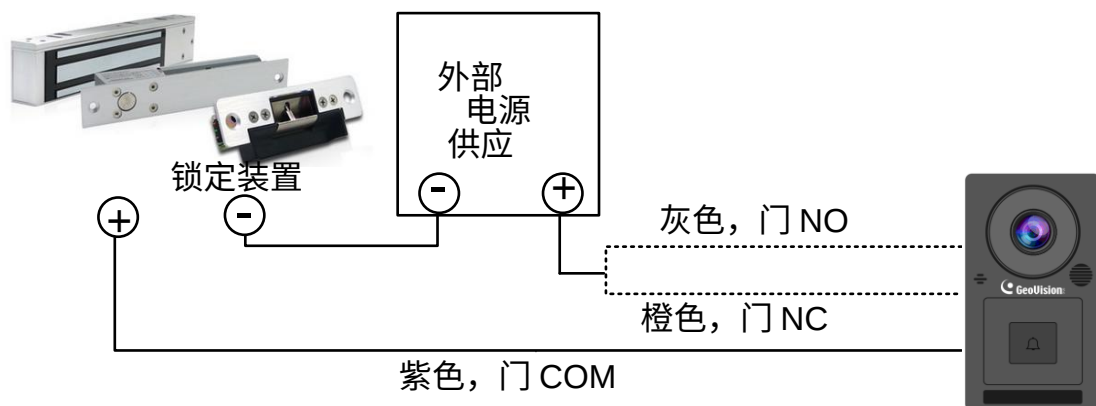
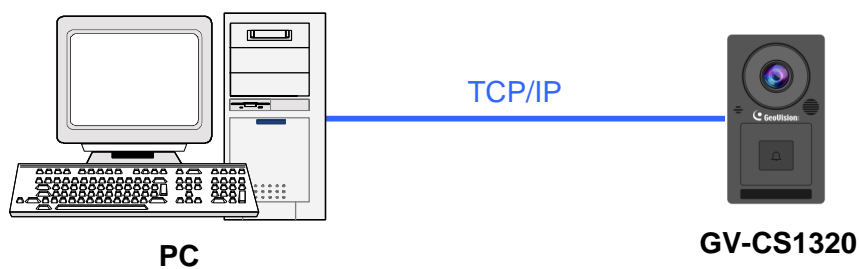


图 1-12

### 1.6.5 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.



*Figure 1-13*

---

**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.
-

### 1.6.5 将 GV-CS1320 连接到 PC

将 GV-CS1320 连接到计算机可以让您访问其网页界面进行配置，并连接到访问控制系统 GV-ASManager 以监控和调节 GV-CS1320 的访问控制。计算机与 GV-CS1320 之间需要网络连接。

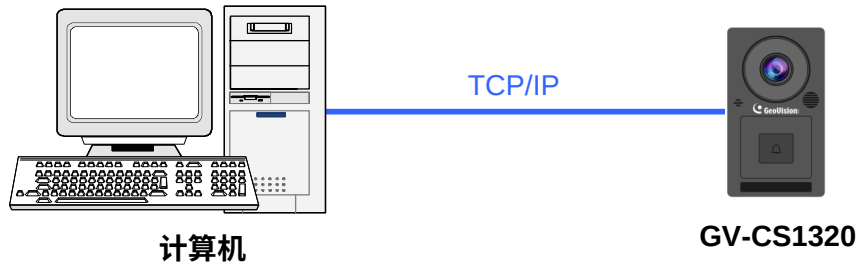


图 1-13

---

**注意：**

1. GV-CS1320 仅与 GV-ASManager V4.3.5.0 或更高版本兼容。
  2. 当 GV-CS1320 正在执行电源重置时，GV-ASManager 的系统事件日志中可能会显示重复消息。
-



## 1.6.6 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.
-

## 1.6.6 连接电源

您可以选择使用电源适配器或以太网供电 (PoE) 适配器供电。

- 使用电源适配器时，将12V和GND线连接到12V、3A电源适配器，然后将电源适配器连接到电源。

下表显示了GV-CS1320上电源连接器的引脚分配。

线缆颜色	GV-CS1320定义
红色	12V DC
黑色	接地

- 使用PoE适配器时，电源将通过以太网电缆提供给设备。

---

### 注意：

1. 只有在所有连接完成并经过测试后，才能对设备施加电源。
  2. GV-CS1320输出电压为12V。如果在连接读卡器和输出设备后，总功耗超过12V，则需要连接外部电源。
-

## 1.7 LED Status and Beeper

Normally, the LED on GV-CS1320 is blue during standby mode and the LED flashes green when a card is granted access. The LED status and beeper under different conditions are listed below

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
Talk mode enabled	Constant yellow	N/A
<b>Note:</b> Talk mode is two-way communication, enabled by GV-Access app, VoIP calls or GV-ASNotify application.		

## 1.7 LED状态和蜂鸣器

通常，GV-CS1320上的LED在待机模式下为蓝色，当卡片获得访问权限时，LED闪烁绿色。不同条件下的LED状态和蜂鸣器如下所示

条件	LED	蜂鸣器
准备就绪	蓝色（连接到 GV-ASManager）紫色（未连接到 GV-ASManager）	不适用
访问被拒绝	瞬间显示红色 LED	两声短蜂鸣
访问被授权	瞬间显示绿色 LED	一声长蜂鸣
触摸板已激活	瞬间闪烁蓝色	一声短蜂鸣
触摸板被忽略	返回蓝色/紫色 LED	三声短蜂鸣 在 30 秒后
通话模式已启用	常量黄色	不适用
注意:对讲模式为双向通信，通过 GV-Access 应用程序、VoIP 通话或 GV-ASNotify 应用程序启用。		

## Chapter 2 Getting Started

This chapter provides basic information to get GV-CS1320 on the network.

Follow the steps below to get GV-CS1320 working on the network:

1. Use a standard network cable to connect the camera access controller to your network.
2. Connect power using one of the methods:
  - Using the power adapter, connect to power. For details, see *1.6.5 Connecting the Power*.
  - Use the Power over Ethernet (PoE) function. The power will be provided over the network cable.
3. You can now access the Web interface of GV-CS1320.
  - If GV-CS1320 is installed in a LAN with the DHCP server, use GV-IP Device Utility to look up its dynamic IP address. See *2.2 Checking the Dynamic IP Address*.
  - If GV-CS1320 is installed in a LAN without the DHCP server, the default IP address **192.168.0.10** will be applied. You also can assign a different static IP. See *2.3 Assigning an IP Address*.

Once GV-CS1320 is properly installed, refer to the sections below for some of the important features that can be configured through its Web interface:

- **Date and time adjustment:** see *4.5.1 Date and Time Settings*.
- **Login and privileged passwords:** see *4.5.2 User Account*.
- **Network gateway:** see *4.4 Network*.
- **Camera image adjustment:** see *3.2.2 The Control Panel of the Live View Window*.
- **Video format, resolution and frame rate:** see *4.1.1 Video Settings*.

## 第 2 章 开始使用

本章提供了将 GV-CS1320 连接到网络的基本信息。

请按照以下步骤将 GV-CS1320 连接到网络：


1. 使用标准网络电缆将摄像头访问控制器连接到您的网络。
2. 使用以下方法之一连接电源：
  - 使用电源适配器连接电源。有关详细信息，请参见 1.6.5 连接电源。
  - 使用以太网供电 (PoE) 功能。电源将通过网络电缆提供。
3. 您现在可以访问 GV-CS1320 的网页界面。
  - 如果 GV-CS1320 安装在带有 DHCP 服务器的局域网中，请使用 GV-IP 设备工具查找其动态 IP 地址。请参见 2.2 检查动态 IP 地址。
  - 如果 GV-CS1320 安装在没有 DHCP 服务器的局域网中，将应用默认 IP 地址 **192.168.0.10**。您也可以分配一个不同的静态 IP。请参见 2.3 分配 IP 地址。

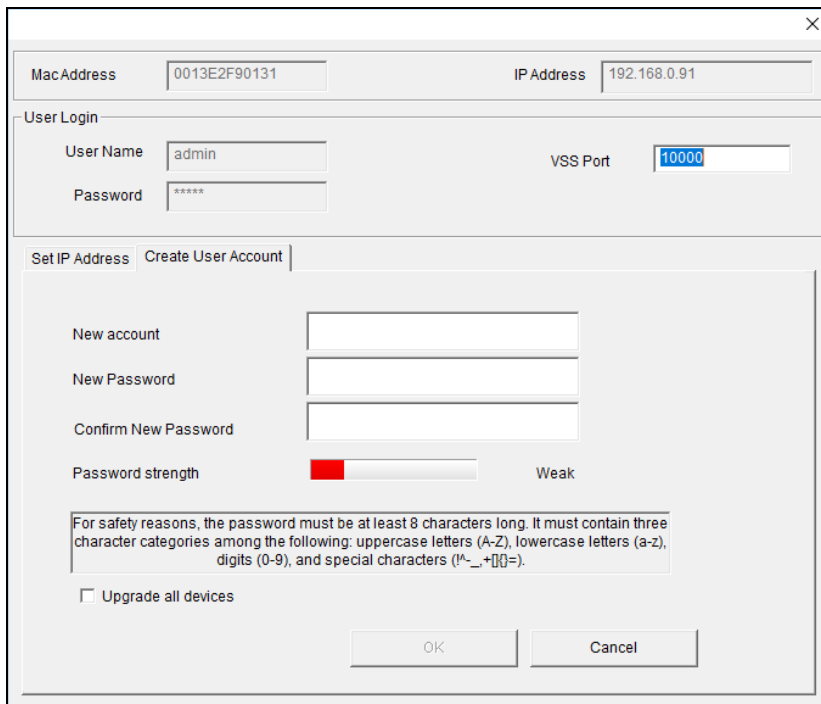
一旦 GV-CS1320 正确安装，请参阅以下部分以获取可以通过其网页界面配置的一些重要功能：

- **日期和时间调整：**请参见 4.5.1 日期和时间设置。
- **登录和特权密码：**请参见 4.5.2 用户账户。
- **网络网关：**请参见 4.4 网络。
- **摄像头图像调整：**请参见 3.2.2 实时查看窗口的控制面板。
- **视频格式、分辨率和帧率：**请参见 4.1.1 视频设置。

## 2.1 Creating Login Credentials

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



The screenshot shows a dialog box titled "GV-IP Device Utility" with a close button (X) in the top right corner. The dialog is divided into several sections:

- Mac Address:** 0013E2F90131
- IP Address:** 192.168.0.91
- User Login:**
  - User Name:** admin
  - Password:** \*\*\*\*\*
  - VSS Port:** 10000
- Set IP Address | Create User Account:**
  - New account:** [Empty text box]
  - New Password:** [Empty text box]
  - Confirm New Password:** [Empty text box]
  - Password strength:** A progress bar is shown, currently at the "Weak" level.
  - Instructions:** For safety reasons, the password must be at least 8 characters long. It must contain three character categories among the following: uppercase letters (A-Z), lowercase letters (a-z), digits (0-9), and special characters (!@\_+[]=).
  - Upgrade all devices
  - Buttons:** OK and Cancel

Figure 2-1

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.

## 2.1 创建登录凭据

购买新的 GV-CS1320 或在加载默认设置后，您需要为 GV-CS1320 设置登录用户名和密码。

1. 从我们的网站下载并安装 GV-IP 设备工具。
2. 在 GV-IP 设备工具窗口中，点击搜索你的 GV-CS1320。
3. 在 GV-IP 设备工具列表中双击你的 GV-CS1320。将出现此对话框。



图 2-1

4. 点击**创建用户账户**tab以输入新的用户名和密码。请注意，新密码必须满足密码强度要求。
5. 可选地，点击**升级所有设备**以在所有相同型号的其他设备上使用相同的用户名和密码。




## 2.2 Checking the Dynamic IP Address

Follow the steps below to look up the IP address and access the Web interface.

---

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

---

1. Download and install GV-IP Device Utility from 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. Find GV-CS1320 with its MAC address, click on its IP address and select **Web Page**.

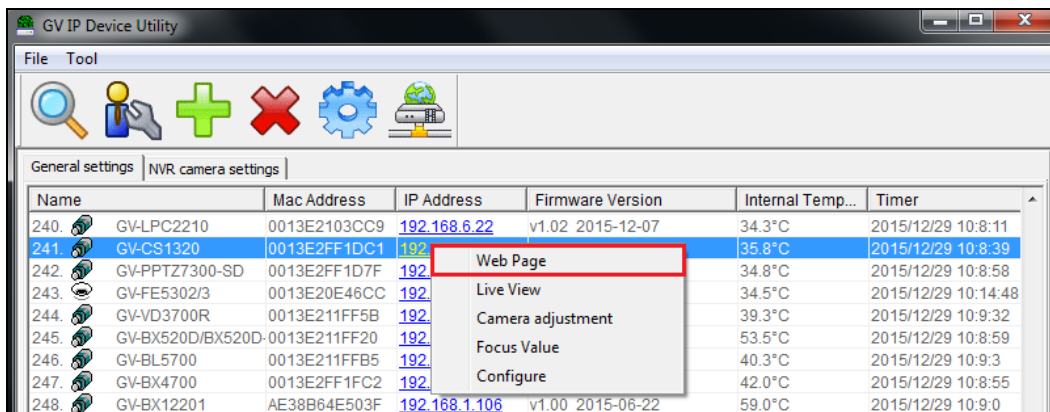


Figure 2-2

4. On the login page, enter your username and password to login. See [2.1 Creating Login Credentials](#).

## 2.3 Assigning an IP Address

Follow the steps below to assign a new IP address.

---

**Note:**

1. GV-CS1320 has a default IP address of 192.168.0.10. The computer used to set the IP address must be under the same network assigned to the unit.
  2. 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.
-

## 2.2 检查动态 IP 地址

按照以下步骤查找 IP 地址并访问网页界面。

---

注意：安装了 GV-IP 设备工具的 PC 必须与 GV-CS1320 在同一局域网内。

---

1. 从我们的网站下载并安装 GV-IP 设备工具。
2. 在 GV-IP 工具窗口中，点击按钮以搜索连接在同一局域网中的 IP 设备。点击名称或 MAC 地址列进行排序。
3. 找到 GV-CS1320 及其 MAC 地址，点击其 IP 地址并选择网页。

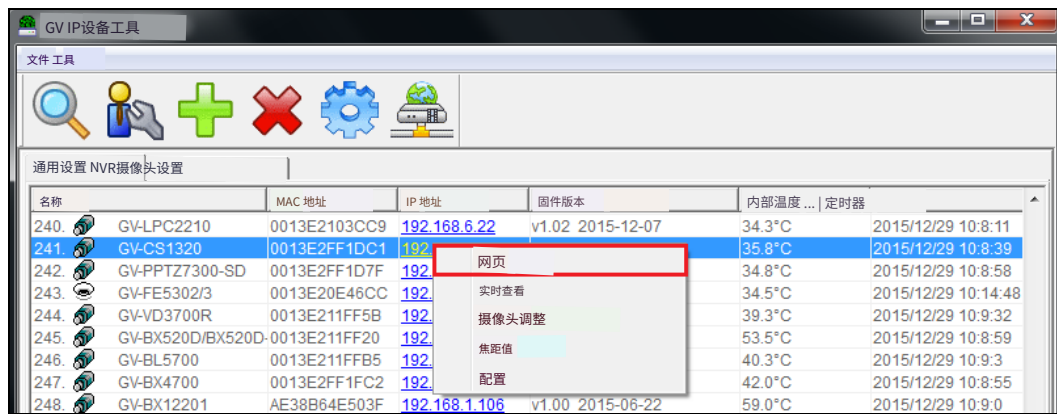


图 2-2

4. 在登录页面，输入您的用户名和密码以登录。请参见2.1 创建登录凭证。

## 2.3 分配 IP 地址

请按照以下步骤分配新的IP地址。

---

**注意：**

1. GV-CS1320的默认IP地址为192.168.0.10。用于设置IP地址的计算机必须在分配给该设备的同一网络下。
  2. 如果您的路由器支持DHCP服务器，GV-CS1320将在每次连接到局域网时从DHCP服务器获取动态IP地址，而不是使用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, enter your username and password and click **Apply**.
3. In the left menu, select **Network** and then **LAN** to begin the network settings.

Figure 2-3

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 GV-CS1320 will receive from the DHCP server or ISP to log in. If your GV-CS1320 is installed in a LAN, use GV-IP Device Utility to look up its current dynamic address. See [2.2 Checking the Dynamic IP Address](#).  
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 unit's changing IP address. For details on Dynamic DNS Server settings, see [4.4.3 Advanced TCP/IP](#).
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. For details, see [5.3 Restoring to Factory Default Settings](#).

1. 打开您的网页浏览器，输入默认IP地址<http://192.168.0.10>\_\_\_\_\_
2. 在登录和密码字段中，输入您的用户名和密码，然后点击应用。
3. 在左侧菜单中，选择网络，然后选择局域网以开始网络设置。

图 2-3

4. 选择**静态 IP 地址**。输入IP地址、子网掩码、路由器/网关、主DNS和次DNS。
5. 点击应用。现在可以通过在网页浏览器中输入分配的IP地址来访问GV-CS1320。

### 重要提示：

- 1.如果启用了**动态IP地址**或 **PPPoE**，您需要知道GV-CS1320将从DHCP服务器或ISP接收哪个IP地址以进行登录。如果您的GV-CS1320安装在局域网中，请使用GV-IP设备工具查找其当前动态地址。  
请参见 2.2 检查动态 IP 地址。  
如果您的 GV-CS1320 使用公共动态 IP 地址，通过 **PPPoE**，首先使用动态 DNS 服务获取与设备的变化 IP 地址相关联的域名。有关动态 DNS 服务器设置的详细信息，请参见 4.4.3 高级 TCP/IP。
- 2.如果**动态 IP 地址**和 **PPPoE**已启用且您无法访问设备，您可能需要将其重置为出厂默认设置，然后再次执行网络设置。有关详细信息，请参见 5.3 恢复出厂默认设置。

## Chapter 3 Accessing the Camera Access Controller

Two types of user levels are allowed to log in GV-CS1320: **Administrator** and **Guest**. The Administrator has full access to all system configurations while the Guest can only access the live view and network status.

### 3.1 Accessing Your Surveillance Images

1. Start the Internet Explorer browser.
2. Type the IP address or domain name of GV-CS1320 in the **Location / Address** field of your browser.

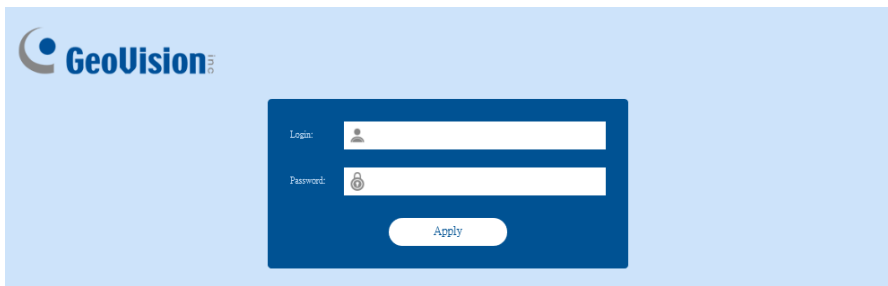


Figure 3-1

3. Enter your username and password.
4. The live web page, similar to the image in *Figure 3-3*, is now displayed on your browser.

## 第 3 章 访问摄像头访问控制器

GV-CS1320 允许两种用户级别登录：**管理员**和**访客**。管理员拥有对所有系统配置的完全访问权限，而访客只能访问实时查看和网络状态。

### 3.1 访问您的监控图像

- 1.启动 Internet Explorer 浏览器。
- 2.在浏览器的**位置 / 地址**字段中输入 GV-CS1320 的 IP 地址或域名。



图 3-1

- 3.输入您的用户名和密码。
- 4.现在在您的浏览器中显示的网页与图 3-3中的图像类似。

### 3 Accessing the Camera Access Controller

For Mozilla Firefox, Google Chrome or Microsoft Edge, click **Run** to execute GV-Web Viewer when prompted by your web browser, type in the IP address of GV-CS1320, and click **Connect** to access the full functioning user interface.

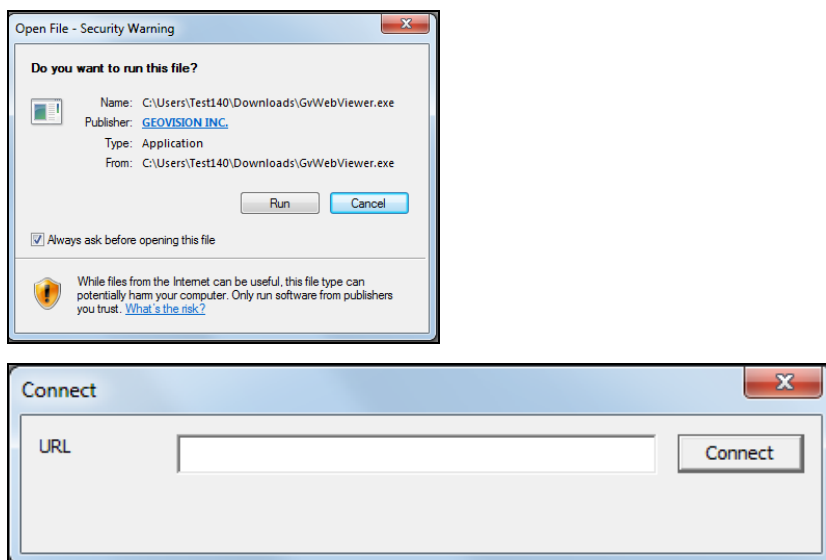


Figure 3-2

---

**Note:** To enable the updating of images in Microsoft Internet Explorer, you must set your browser to allow ActiveX Controls and perform a one-time installation of GeoVision's ActiveX component onto your computer.

---

对于 Mozilla Firefox、Google Chrome 或 Microsoft Edge，当您的网页浏览器提示时，点击运行以执行 GV-Web Viewer，输入 GV-CS1320 的 IP 地址，然后点击连接以访问完整功能的用户界面。

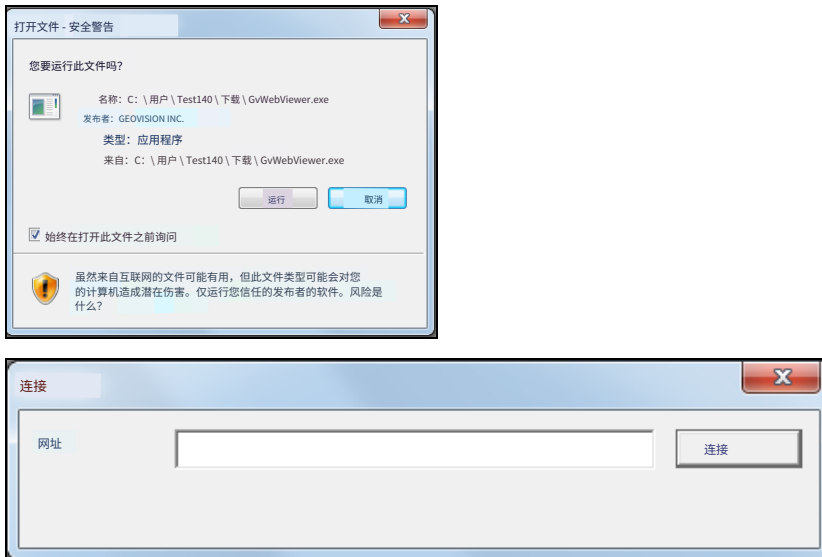


图 3-2

---

**注意：**要启用 Microsoft Internet Explorer 中图像的更新，您必须设置浏览器以允许 ActiveX 控件，并在您的计算机上进行一次性安装 GeoVision 的 ActiveX 组件。

---



## 3.2 Functions Featured on the Main Page

This section introduces the features of the **Live View** window on the main page.

### 3.2.1 The Live View Window

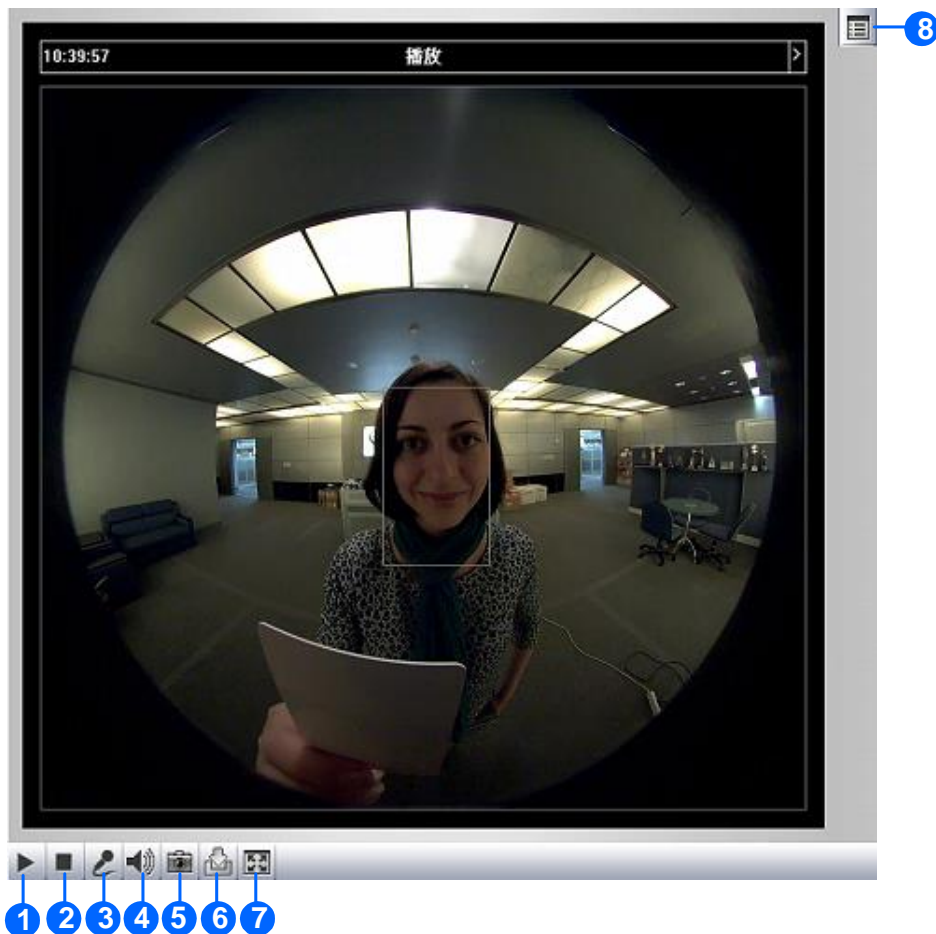


Figure 3-3

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. --- See 3.2.3 <i>Snapshot of a Live Video</i> .
6	File Save	Records live video to the local computer. --- See 3.2.4 <i>Video Recording</i> .

## 3.2 主页面上的功能

本节介绍主页面上实时查看窗口的功能。

### 3.2.1 实时查看窗口

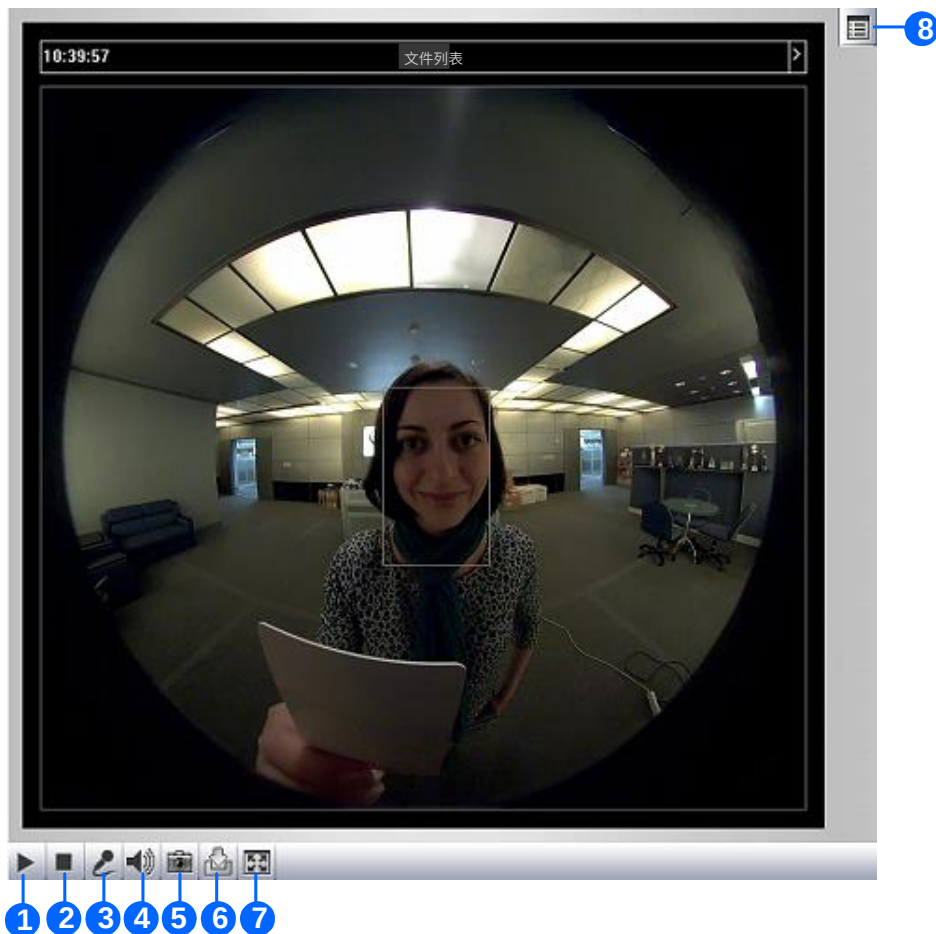


图 3-3

否	名称	功能
1	播放	播放实时视频。
2	停止	停止播放视频。
3	麦克风	从本地计算机与监控区域对话。
4	扬声器	监听GV-CS1320周围的音频。
5	快照	拍摄实时视频的快照。 --- 参见 3.2.3 实时视频快照。
6	文件保存	将实时视频录制到本地计算机。 --- 参见 3.2.4 视频录制。

7	Full Screen	<p>Switches to full screen view. Right-click the image to have these options: <b>Snapshot, Digital PTZ, Wide Angle Lens Dewarping, Wide Angle Setting, PIP and PAP.</b></p> <p>--- See 3.2.5 <i>Digital PTZ</i></p> <p>--- See 3.2.6 <i>Wide Angle Lens Dewarping</i></p> <p>--- See 3.2.7 <i>Picture-in-Picture and Picture-and-Picture View</i></p>
8	Show System Menu	<p>Brings up these functions: <b>Alarm Notify, Video and Audio Configuration, Remote Config, Show Camera Name and Image Enhance.</b></p> <p>--- See 3.2.8 <i>Alarm Notification</i></p> <p>--- See 3.2.9 <i>Video and Audio Configuration</i></p> <p>--- See 3.2.10 <i>Remote Configuration</i></p> <p>--- See 3.2.11 <i>Camera Name Display</i></p> <p>--- See 3.2.12 <i>Image Enhancement</i> respectively.</p>

### 3 访问摄像头访问控制器

7	全屏	<p>切换到全屏视图。右键单击图像以获得以下选项：<b>快照,数字PTZ,广角镜头去畸变,广角设置,画中画和画与画</b>. --- 见</p> <p style="text-align: center;">3.2.5 数字PTZ</p> <p>--- 见 3.2.6 广角镜头去畸变</p> <p>--- 见 3. 2.7 画中画和画与画查看</p>
8	显示系统菜单	<p>调出以下功能：<b>报警通知,视频和音频配置,远程配置,显示摄像头名称 和 图像增强</b> .</p> <p>--- 见 3.2.8 报警通知</p> <p>--- 见 3.2.9 视频和音频配置</p> <p>--- 见 3.2.10 远程配置</p> <p>--- 见 3.2.11 摄像头名称显示</p> <p>--- 见 3.2.12 图像增强分别。</p>

### 3.2.2 The Control Panel of the Live View Window

To open the control panel of the Live View window, click the arrow button on top of the viewer. You can access the following functions by using the left and right arrow buttons on the control panel.

Click the arrow button to display the control panel.

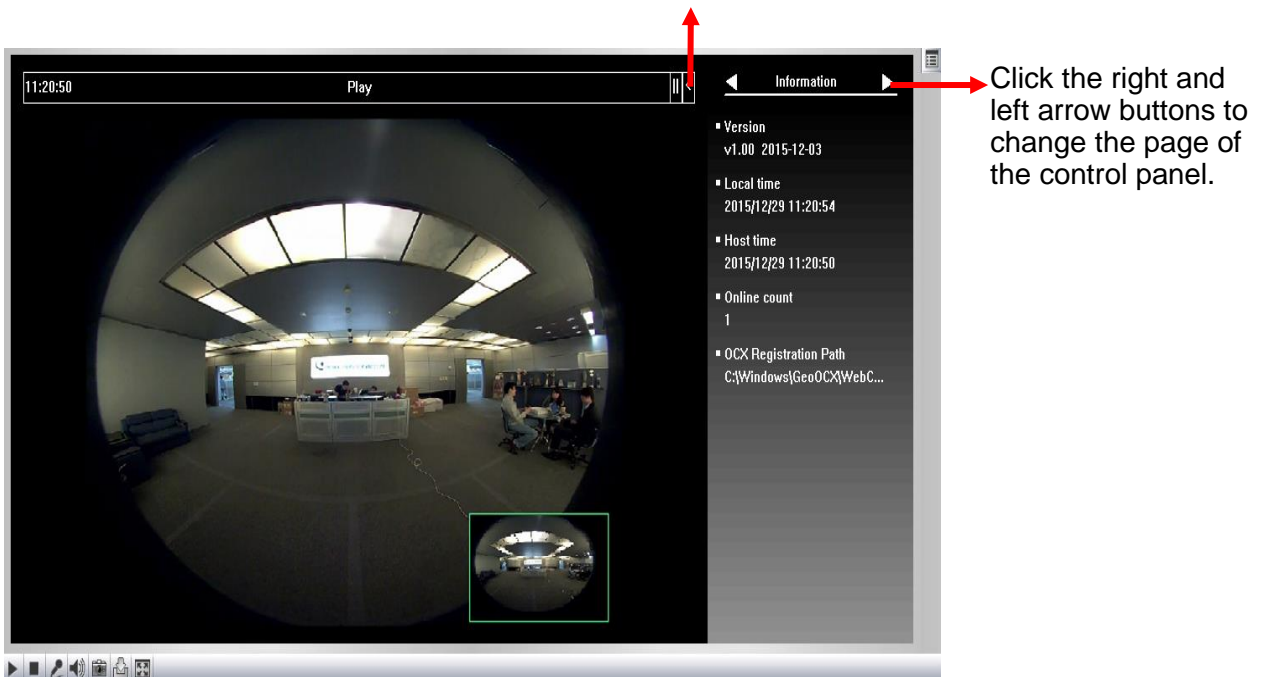


Figure 3-4

**[Information]** Displays the version of GV-CS1320, local time of the local computer, host time of GV-CS1320, and the number of users logging in to GV-CS1320.

**[Video]** Displays the current video codec, resolution and data rates.

**[Audio]** Displays the audio data rates when the microphone and speaker devices are enabled.

**[Alarm Notify]** Displays the captured images upon sensor triggers. For this function to work, you must configure the Alarm Notify settings first. See [3.2.8 Alarm Notification](#).

**[Camera Adjustment]** Allows you to adjust the image quality.

### 3.2.2 实时查看窗口的控制面板

要打开实时查看窗口的控制面板，请单击查看器顶部的箭头按钮。您可以通过使用控制面板上的左右箭头按钮访问以下功能。



图 3-4

**[信息]**显示 GV-CS1320 的版本、本地计算机的本地时间、GV-CS1320 的主机时间以及登录 GV-CS1320 的用户数量。**[视频]**显示当前的视频编码、分辨率和数据速率。

**[音频]**显示当麦克风和扬声器设备启用时的音频数据速率。

**[报警通知]**显示传感器触发时捕获的图像。要使此功能正常工作，您必须先配置报警通知设置。请参见 3.2.8 报警通知。

**[摄像头调整]**允许您调整图像质量。



Figure 3-5

- **Brightness:** Adjusts the brightness of the image.
- **Contrast:** Adjusts the relative differences between one pixel and the next.
- **Saturation:** Adjusts the saturation of the image.
- **Sharpness:** Adjusts the sharpness of the image
- **Gamma:** Adjusts the relative proportions of bright and dark areas
- **White balance:** GV-CS1320 automatically adjusts the color to be closest to the image you are viewing. You can choose one of the four presets: **Auto**, **Outdoor**, **Indoor**, and **Fluorescent**. You can also choose **Manual** to adjust the white balance manually.



图 3-5

- 亮度: 调整图像的亮度。
- 对比度: 调整一个像素与下一个像素之间的相对差异。
- 饱和度: 调整图像的饱和度。
- 锐度: 调整图像的锐度。
- 伽玛: 调整明亮和黑暗区域的相对比例。
- **白平衡**: GV-CS1320 自动调整颜色, 使其最接近您正在查看的图像。您可以选择四个预设之一: 自动, 户外, 室内和**荧光**。您还可以选择手动以手动调整白平衡。



- **Flicker less:** GV-CS1320 automatically matches the frequency of your camera access controller's image to the frequency of indoor light sources, e.g. fluorescent lighting. You can also select 50 Hz or 60 Hz manually. If these don't match, faint light and dark bars may appear in your images. Check the power utility to determine which frequency is used.
- **Image Orientation:** Changes the image orientation on the Live View window.
- **Slowest Shutter Speed:** Shutter speed controls the amount of the lights enters the image sensor and directly impacts the quality of image presentation. A slow shutter speed allows higher light exposure that creates a brighter overall image by blurring moving objects and bringing out background details, and a faster shutter speed lowers color and image clarity in order to capture motions.
- **D/N:** Select **Auto** for automatic switch between day mode and night mode depending on the amount of light detected. Select **Black and white** to switch the camera access controller to night mode. Select **Color** to switch the camera access controller to day mode. The value 10 is the most light-sensitive. Select **Trigger by Input** for the externally installed infrared illuminator to turn on under low light and turn off under sufficient light.
- **Denoise:** Reduces image noise especially under low-light conditions. The higher the denoise value, the stronger the effect.
- **Wide Dynamic Range:** adjusts and generates clear live view when the scene contains very bright and very dark areas at the same time. Select **Auto (Strong)** to bring out details in the darks areas of the scene, select **Auto (Weak)** to bring out less detail in the dark area and at the same time keep the bright areas from overexposure, or select **Auto (Normal)** for a balanced effect. Select **Close** to disable the function.
- **Defog:** Select **Auto** to automatically enhance the visibility of images. Select **Close** to disable the function.
- **Super Low Lux:** Select **Auto** for GV-CS1320 to automatically enhance the live view under insufficient light. Select **Close** to disable the function. The default setting is Auto.
- **Metering:** Controls the camera access controller's exposure. Select **Normal** for GV-CS1320 to adjust exposure based on the full live view. Select **Regional Metering** for GV-CS1320 to adjust exposure of specified zones. Draw directly on the live view and a block marked with "AE (automatic exposure)" appears. You can establish up to 4 zones. To remove the block, right-click the block and select **Delete**.
- **Back Light Suppression:** Reduces back light under backlit conditions. Select **Face Enhanced** for FD Scene Mode to access this option (see *4.1.1 Video Settings*). The higher the value, the stronger the effect.

- **无闪烁:** GV-CS1320 自动匹配您的摄像头访问控制器的图像频率与室内光源的频率，例如荧光灯。您也可以手动选择 50 赫兹或 60 赫兹。如果这些不匹配，您的图像中可能会出现微弱的光和暗条纹。检查电力公用事业以确定使用的频率。
  
- **图像方向:** 更改实时查看窗口上的图像方向。
- **最慢快门速度:** 快门速度控制进入图像传感器的光线量，并直接影响图像呈现的质量。慢快门速度允许更高的光线曝光，从而通过模糊移动物体和突出背景细节来创建更亮的整体图像，而快快门速度则降低颜色和图像清晰度，以捕捉运动。
  
- **D/N:**选择自动以根据检测到的光线量在白天模式和夜间模式之间自动切换。选择**黑白**以将摄像头访问控制器切换到夜间模式。选择**彩色**以将摄像头访问控制器切换到白天模式。值10是最敏感的光线。选择**输入触发**以使外部安装的红外照明器在低光下开启，在光线充足时关闭。
  
- **去噪:** 减少图像噪声，特别是在低光条件下。去噪值越高，效果越强。
  
- **宽动态范围:** 在场景同时包含非常明亮和非常黑暗的区域时，调整并生成清晰的实时查看。选择**自动（强）**以在场景的黑暗区域中突出细节，选择**自动（弱）**以在黑暗区域中突出较少的细节，同时保持明亮区域不被过曝，或选择**自动（正常）**以获得平衡效果。选择关闭以禁用该功能。
  
- **除雾:** 选择自动以自动增强图像的可见性。选择关闭以禁用该功能。
- **超低照度:** 选择自动以使GV-CS1320在光线不足的情况下自动增强实时查看。选择关闭以禁用该功能。默认设置为自动。
- **测光:** 控制摄像头访问控制器的曝光。选择正常以使 GV-CS1320根据完整的实时查看调整曝光。选择**区域测光**以调整GV-CS1320指定区域的曝光。直接在实时查看上绘制，标记为“AE（自动曝光）”的块将出现。您可以建立最多4个区域。要移除该块，请右键单击该块并选择删除。
- **背光抑制:** 在逆光条件下减少背光。选择人脸增强以访问此选项（见4.1.1 视频设置）。值越高，效果越强。

### 3.2.3 Snapshot of a Live Video

To take a snapshot of live video, follow these steps:

1. Click the **Snapshot** button (No. 5, Figure 3-3). The Save As dialog box appears.
2. Specify **Save in**, type the **File name**, and select **JPEG** or **BMP** as **Save as Type**. You may also choose whether to display the name and date stamps on the image.
3. Click the **Save** button to save the image in the local computer.

### 3.2.4 Video Recording

You can record live video for a certain period of time to your local computer.

1. Click the **File Save** button (No. 6, Figure 3-3). The Save As dialog box appears.
2. Specify **Save in**, type the **File name**, and move the **Time period** scroll bar to specify the time length of the video clip from 1 to 5 minutes.
3. Click the **Save** button to start recording.
4. To stop recording, click the **Stop** button (No. 2, Figure 3-3).

### 3.2.5 Digital PTZ

The Digital PTZ (DPTZ) function of GV-CS1320 allows you to simulate the PTZ movement on the screen.

1. Right-click on the live view to display a dropdown list.
2. Select **Digital PTZ**. The PTZ control panel appears.



Figure 3-6

3. To change the direction, click the **Arrow** buttons.
4. To zoom in / out, click the corresponding buttons or use the mouse scroll. To bring the live view back to its default image, click **Home**.

### 3.2.3 实时视频快照

要拍摄实时视频的快照，请按照以下步骤操作：

1. 单击快照按钮（第5号，图 3-3）。将出现“另存为”对话框。
2. 指定保存位置，输入文件名，并选择 **JPEG**或 **BMP**作为**保存类型**。您还可以选择是否在图像上显示名称和日期戳。
3. 单击保存按钮将图像保存到本地计算机。

### 3.2.4 视频录制

您可以将实时视频录制一段时间到本地计算机。

1. 单击文件保存按钮（编号 6，图 3-3）。将出现“另存为”对话框。
2. 指定保存到，输入文件名，并移动时间段滚动条以指定视频片段的时长，从1分钟到5分钟。
3. 单击保存按钮开始录制。
4. 要停止录制，请点击停止按钮（编号2，图 3-3）。

### 3.2.5 数字PTZ

GV-CS1320的数字PTZ（DPTZ）功能允许您在屏幕上模拟PTZ移动。

1. 右键单击实时查看以显示下拉列表。
2. 选择**数字PTZ**。PTZ控制面板出现。



图3-6

3. 要改变方向，请点击箭头按钮。
4. 要放大/缩小，请点击相应的按钮或使用鼠标滚轮。要将实时查看恢复到默认图像，请点击主页。

### 3.2.6 Wide Angle Lens Dewarping

Use the Wide Angle Lens Dewarping function to reduce the warping of live view.

1. Right-click on the live view to display a dropdown list.
2. Select **Wide Angle Setting**. The Wide Angle Dewarping Setting window appears.

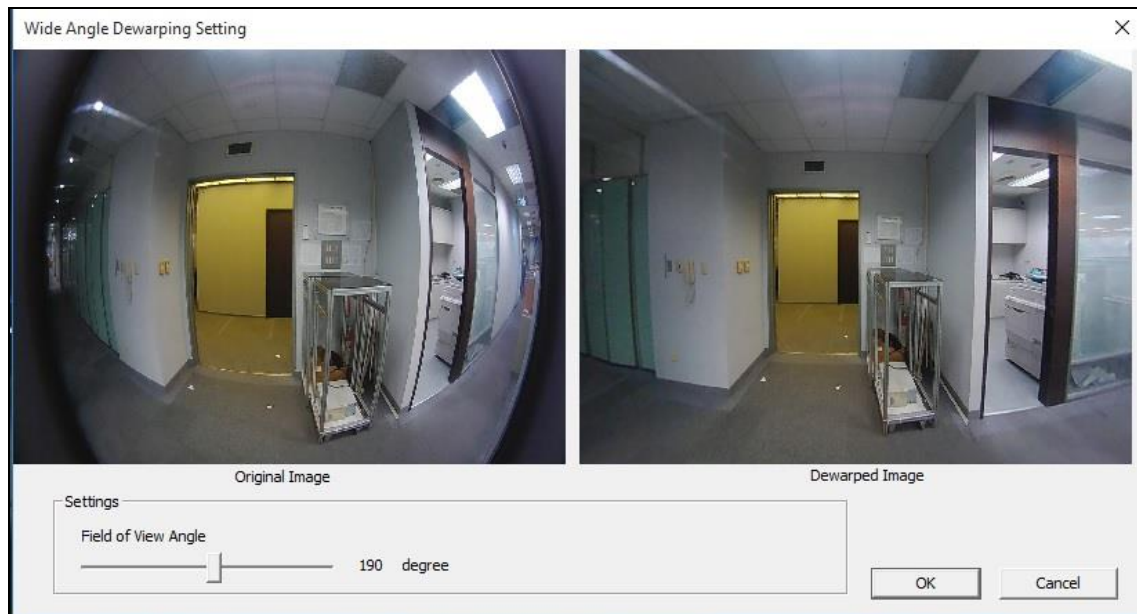


Figure 3-7

3. Slide the slider at the bottom to correct the degree of warping. The adjusted view is shown on the right. Click **OK** to close this window.
4. To enable this configuration, right-click on the live view, select **Wide Angle Lens Dewarping**.

### 3.2.6 广角镜头去畸变

使用广角镜头去畸变功能来减少实时查看的畸变。

1. 右键单击实时查看以显示下拉列表。
2. 选择**广角设置**。广角去畸变设置窗口将出现。



图 3-7

3. 滑动底部的滑块以修正畸变程度。调整后的视图显示在右侧。点击确定关闭此窗口。
4. 要启用此配置，请右键单击实时查看，选择**广角镜头去畸变**。

### 3.2.7 Picture-in-Picture and Picture-and-Picture View

Two types of close-up views are available to provide clear and detailed images of the surveillance area: **Picture-in-Picture (PIP)** and **Picture-and-Picture (PAP)**. After entering the live view window, the image is displayed in PIP mode by default.

#### Picture-in-Picture View

With the Picture in Picture (PIP) view, you can crop the video to get a close-up view or zoom in on the video.

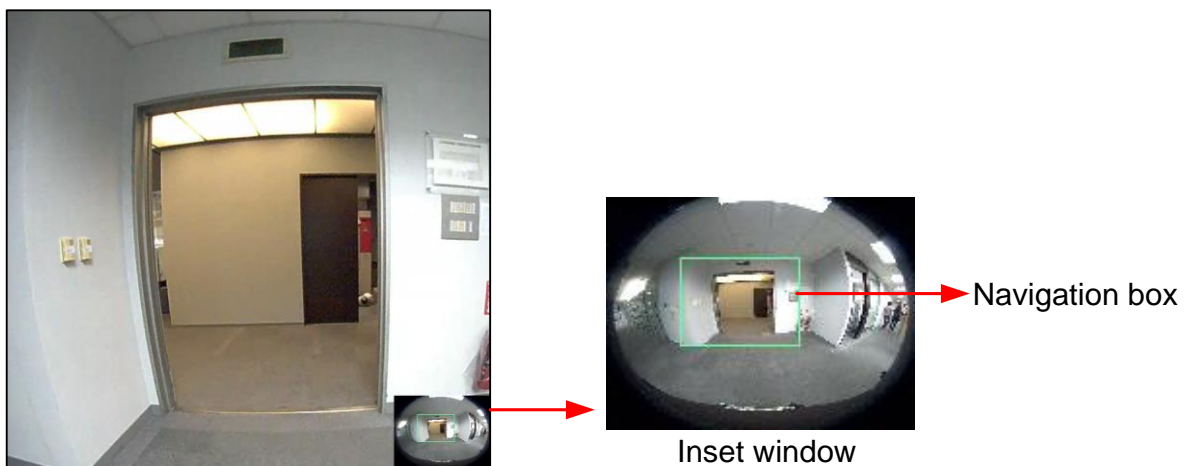


Figure 3-8

1. Right-click the live view and select **PIP**. An inset window appears.
2. Click the inset window. A navigation box appears.
3. Move the navigation box around in the inset window to have a close-up view of the selected area.
4. To adjust the navigation box size, move the cursor to any of the box corners, and enlarge or diminish the box.
5. To exit the PIP view, right-click the image and click **PIP** again.

### 3.2.7 画中画和画与画视图

提供两种特写视图，以清晰详细的图像展示监控区域：**画中画 (PIP)** 和**画与画 (PA P)**。进入实时查看窗口后，图像默认以PIP模式显示。

#### 画中画视图

使用画中画 (PIP) 视图，您可以裁剪视频以获得特写视图或放大视频。

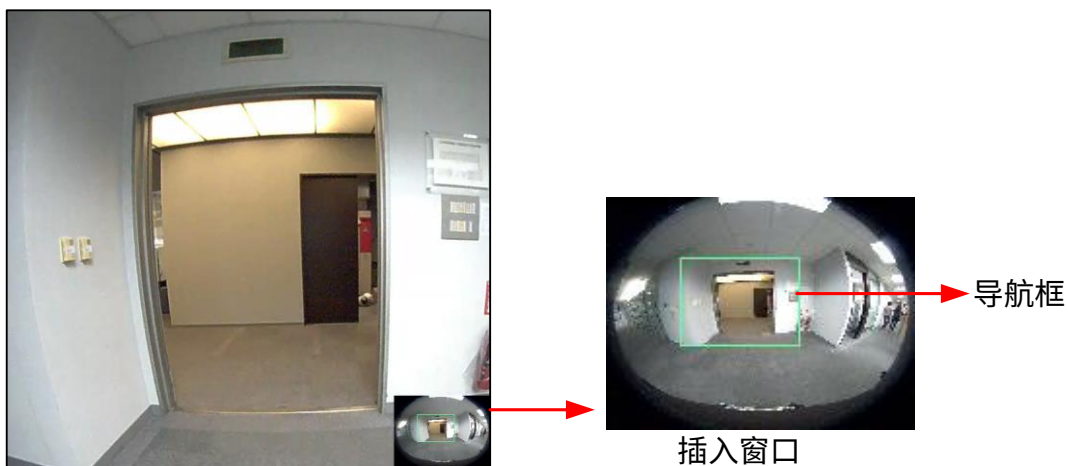


图3-8

1. 右键单击实时查看并选择 **PIP**。插入窗口将出现。
2. 单击插入窗口。导航框将出现。
3. 在插入窗口中移动导航框，以便对所选区域进行特写查看。
4. 要调整导航框的大小，请将光标移动到框的任意角落，并放大或缩小框。
5. 要退出PIP视图，请右键单击图像并再次单击 **PIP**。



## Picture-and-Picture View

With the Picture and Picture (PAP) view, you can create a split video effect with multiple close-up views on the image. A total of 7 close-up views can be defined.

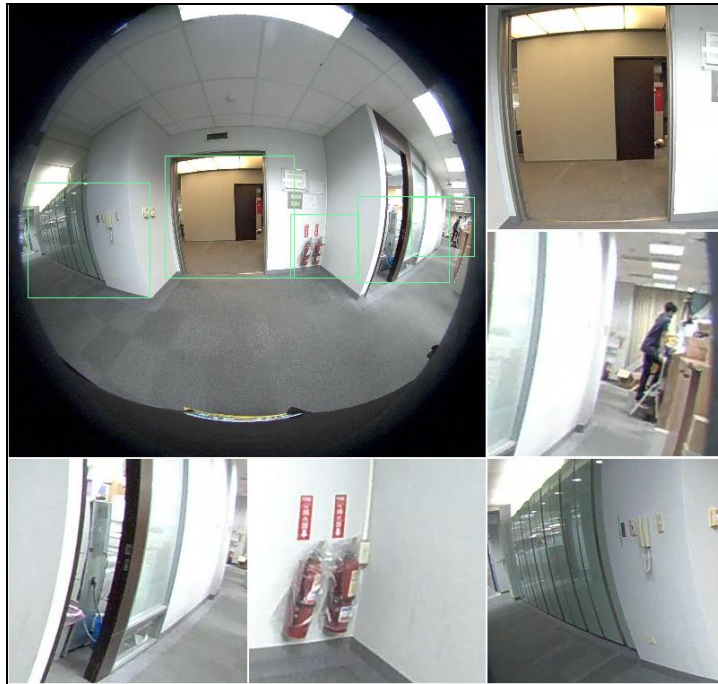


Figure 3-9

1. Right-click the live view and select **PAP**. Three inset windows appear at the bottom.
2. Draw a navigation box on the image, and this selected area is immediately reflected in one inset window. Up to seven navigation boxes can be drawn on the image.
3. To adjust a navigation box size, move the cursor to any of the box corners, and enlarge or diminish the box.
4. To move a navigation box to another area on the image, drag it to that area.
5. To change the frame color of the navigation box or hide the box, right-click the image, select **Mega Pixel Setting** and click one of these options:
  - **Display Focus Area of PAP Mode:** Displays or hides the navigation boxes on the image.
  - **Set Color of Focus Area:** Changes the color of the box frames.
6. To delete a navigation box, right-click the desired box, select **Focus Area of PAP Mode** and click **Delete**.
7. To exit the PAP view, right-click the image and click **PAP** again.

## 画与画视图

通过画中画（PAP）视图，您可以创建多个特写视图的分屏视频效果。最多可以定义7个特写视图。

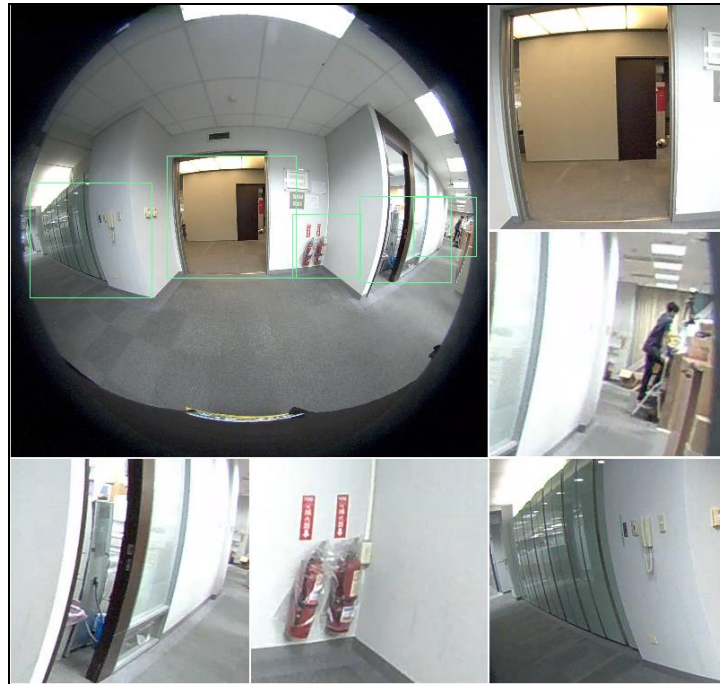


图 3-9

1. 右键单击实时查看并选择 **PAP**。三个插入窗口出现在底部。
2. 在图像上绘制一个导航框，所选区域会立即在一个插入窗口中反映。最多可以在图像上绘制七个导航框。
3. 要调整导航框的大小，请将光标移动到框的任意角落，然后放大或缩小框。
4. 要将导航框移动到图像的另一个区域，请将其拖动到该区域。
5. 要更改导航框的边框颜色或隐藏框，请右键单击图像，选择**百万像素设置**并单击以下选项之一：
  - **显示PAP模式的焦点区域**：显示或隐藏图像上的导航框。
  - **设置焦点区域的颜色**：更改框架的颜色。
6. 要删除导航框，请右键单击所需的框，选择 **PAP模式的焦点区域**，然后单击删除。
7. 要退出PAP视图，请右键单击图像并单击 **PAP**再次。

### 3.2.8 Alarm Notification

After motion detection, you can view up to four captured images.



Figure 3-10

For this function to work, click the **Show System Menu** button (No. 8, Figure 3-3), and select **Alarm Notify**. In the pop-up dialog box, configure the following settings.

- **Motion Notify:** Enable the option to capture images upon motion detection, and display the captured ones on the control panel of the Live View window.
- **Alert Sound:** Activates the computer alarm upon motion detection.
- **Auto Snapshot:** The snapshot of live view is taken every 5 seconds upon motion detection.
- **File Path:** Assigns a file path to save the snapshots.

### 3.2.8 报警通知

在运动检测后，您可以查看最多四张捕获的图像。



图3-10

要使此功能正常工作，请点击**显示系统菜单**按钮（第8号，图3-3），并选择**报警通知**。在弹出对话框中，配置以下设置。

- **运动通知:**启用该选项以在运动检测时捕获图像，并在实时查看窗口的控制面板上显示捕获的图像。
- **警报声音:**在运动检测时激活计算机警报。
- **自动快照:**在运动检测时每5秒拍摄一次实时查看的快照。
- **文件路径:**分配一个文件路径以保存快照。

### 3.2.9 Video and Audio Configuration

You can enable the microphone and speaker for two-way audio communication and set the number of frames to keep for live view buffer. Click the **Show System Menu** button (No. 9, Figure 3-3), and select **Video and Audio Configuration**.

- **Camera:** Sets the number of frames to keep in live view buffer. Keeping more frames for live view buffer can ensure a smooth live view, but the live view will be delayed for the number of frames specified.

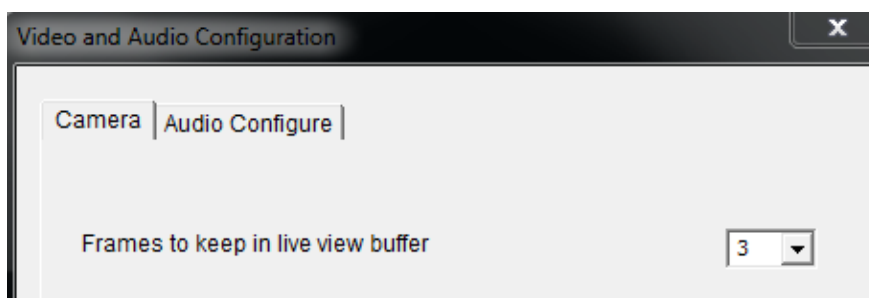


Figure 3-11

- **Audio Configure:** You can enable the microphone and speaker and adjust the audio volume.

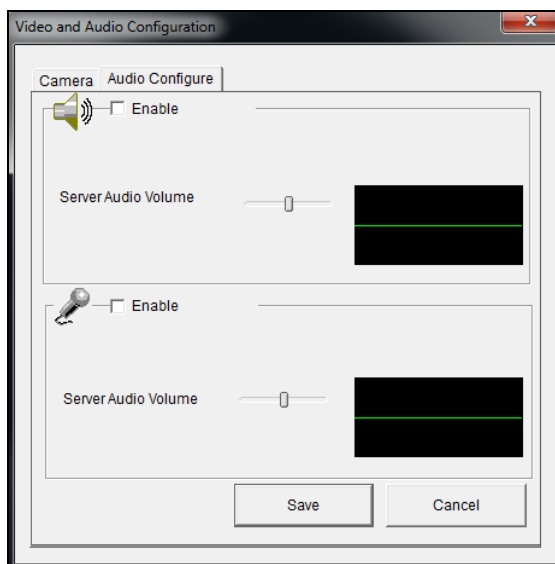


Figure 3-12

### 3.2.9 视频和音频配置

您可以启用麦克风和扬声器进行双向音频通信，并设置实时查看缓冲区中保留的帧数。点击显示系统菜单按钮（编号 9，图 3-3），并选择**视频和音频配置**。

- **摄像头:**设置实时查看缓冲区中保留的帧数。保持更多帧以供实时查看缓冲可以确保流畅的实时查看，但实时查看将延迟指定的帧数。



图 3-11

- **音频配置:**您可以启用麦克风和扬声器并调整音频音量。



图 3-12

#### 3.2.10 Remote Configuration

You can upgrade firmware over the network. Click the **Show System Menu** button (No. 9, Figure 3-3), and select **Remote Config**. For details, see *5.1.1 Using the Web Interface*.

#### 3.2.11 Camera Name Display

To display the camera access controller's name on the image, click the **Show System Menu** button (No. 9, Figure 3-3), and select **Show Camera Name**.

#### 3.2.12 Image Enhancement

To enhance the image quality of live video, click the **Show System Menu** button (No. 9, Figure 3-3), and select **Image Enhance**. This dialog box appears.

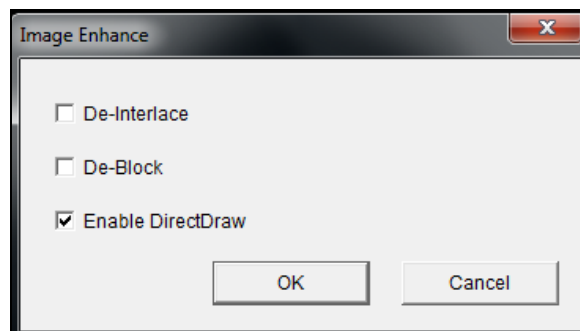


Figure 3-13

- **De-Interlace:** Converts the interlaced video into non-interlaced video.
- **De-Block:** Removes the block-like artifacts from low-quality and highly compressed video.
- **Enable DirectDraw:** Activates the DirectDraw function.

### 3.2.10 远程配置

您可以通过网络升级固件。点击**显示系统菜单**按钮（编号 9，图 3-3），并选择**远程配置**。有关详细信息，请参见5.1.1 使用网页界面。

### 3.2.11 摄像头名称显示

要在图像上显示摄像头访问控制器的名称，请单击**显示系统菜单**按钮（第 9 项，图 3-3），并**选择显示摄像头名称**。

### 3.2.12 图像增强

要增强实时视频的图像质量，请单击**显示系统菜单**按钮（第 9 项，图 3-3），并选择**图像增强**。此对话框将出现。



图 3-13

- **去交错**：将交错视频转换为非交错视频。
- **去块状**：去除低质量和高度压缩视频中的块状伪影。
- **启用 DirectDraw**：激活 DirectDraw 功能。



## Chapter 4 Administrator Mode

The Administrator can access system configuration of GV-CS1320 through the network. The following configuration categories are available: **Video**, **Access Control**, **Events and Alerts**, **Network**, **Management** and **SIP**.

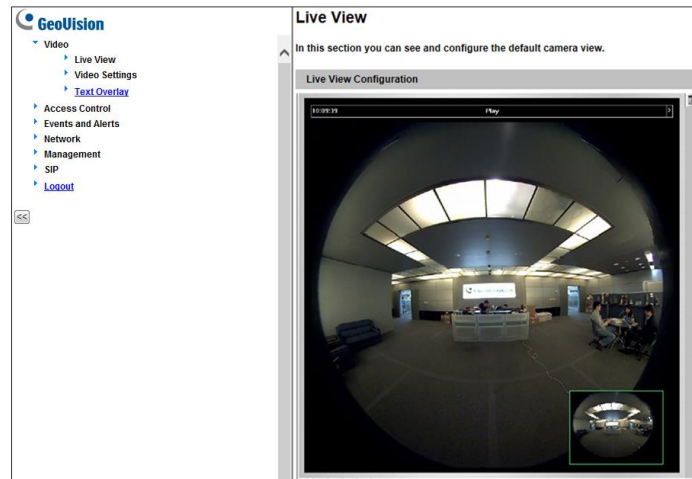


Figure 4-1

### List of Menu Options

Find the topic of interest by referring to the section number prefixed to each option.

4.1 Video & Motion	4.1.1 Video Settings 4.1.2 Text Overlay
4.2 Access Control	4.2.1 Basic Setting 4.2.2 Extended Device
4.3 Events and Alerts	4.3.1 RTSP/ONVIF
4.4 Network	4.4.1 Status 4.4.2 LAN 4.4.3 Advanced TCP/IP 4.4.4 IP Filtering 4.4.5 SNMP Setting
4.5 Management	4.5.1 Date and Time 4.5.2 Storage Settings 4.5.3 User Account 4.5.4 Log Information 4.5.5 Tools 4.5.6 Language
4.6 SIP	4.6.1 SIP Setting
<b>Note:</b> Motion Detection, found under Video and Motion setting, is nonfunctional.	

## 第4章 管理员模式

管理员可以通过网络访问 GV-CS1320 的系统配置。可用的配置类别如下：视频，访问控制，事件和警报，网络，管理和 SIP。



图 4-1

### 菜单选项列表

通过参考每个选项前缀的章节编号找到感兴趣的主体。

4.1 视频与运动	4.1.1 视频设置 4.1.2 文本叠加
4.2 访问控制	4.2.1 基本设置 4.2.2 扩展设备
4.3 事件和警报	4.3.1 RTSP/ONVIF
4.4 网络	4.4.1 状态 4.4.2 局域网 4.4.3 高级 TCP/IP 4.4.4 IP过滤 4.4.5 SNMP设置
4.5 管理	4.5.1 日期和时间 4.5.2 存储设置 4.5.3 用户账户 4.5.4 日志信息 4.5.5 工具 4.5.6 语言
4.6 SIP	4.6.1 SIP 设置
<b>注意：运动检测，位于视频和运动设置下，无法使用。</b>	

## 4.1 Video and Motion

GV-CS1320 supports dual streams, Streaming 1 and Streaming 2, which allow separate codec and resolutions settings for a single video transmission. In a bandwidth-limited network, such as mobile phone surveillance, this dual-stream feature allows you to view live video in lower resolution (Streaming 2), and record in highest resolution (Streaming 1) at the same time.

Comparison between Stream 1 and Stream 2:

Video Setting Options	Stream 1	Stream 2
Video Signal Type	Different codec, resolutions and frame rates can be applied to Stream 1 and 2.	
Watermark Setting	Yes	Not configurable. Settings in Stream 1 will be automatically applied to Stream 2.
Special View Setting		

## 4.1 视频与运动

GV-CS1320 支持双流，流 1 和流 2，允许为单个视频传输设置不同的编码器和分辨率。在带宽受限的网络中，例如手机监控，此双流功能允许您以较低分辨率（流 2）查看实时视频，同时以最高分辨率（流 1）进行录制。

流 1 和流 2 的比较：

视频设置选项	流 1	流 2
视频信号类型	可以为流 1 和流 2 应用不同的编码器、分辨率和帧率。	
水印设置	是	不可配置。流 1 中的设置将自动应用于流 2。
特殊视图设置		

## 4.1.1 Video Settings

### Video Settings

In this section you can define compression art, broadcasting method and privacy mask.

---

#### Video Signal Type

In this section you can configure camera's video signal, also the resolution and frame per second to be transmitted through the network

Video Format

Resolution	Frame per second
<input type="text" value="1920*1080 (16:9)"/>	<input type="text" value="15"/>

---

#### Bandwidth Management

In this section you can configure the bit rate used by video stream. When VBR (Variable Bit Rate) is selected, consistent image quality is achieved at the cost of varying bit rate. To set a consistent bit rate at the cost of varying image quality, select CBR (Constant Bit Rate).

VBR Quality  Maximal Bit Rate  Mbit  
 CBR Maximal Bit Rate  Kbps

---

#### Region Of Interest (ROI)

In this section you can configure ROI of H.264.

Enable [ROI Setting](#)

---

#### GOP Structure and Length

In this section you can configure the composition of the video stream (GOP structure). Using I-Frame only will significantly increase the video quality as well as the bandwidth.

Group of Picture(GOP) Size  (seconds)

---

#### H264 Video Entropy Coding Setting

In this section you can decide Video entropy coding for H.264 codec

H.264 Entropy Encoding

---

#### Text Overlay Settings

In this section you can set up texts to be overlaid on live view when viewing via GeoVision software.

Camera Name

Overlay with:

Camera Name  
 Date  
 System Time

Figure 4-2a

## 4.1.1 视频设置

### 视频设置

在本节中，您可以定义压缩艺术、广播方式和隐私遮罩。

---

**视频信号类型**

在本节中，您可以配置摄像头的视频信号，以及通过网络传输的分辨率和每秒帧数。

视频格式 H264
▼

分辨率	每秒帧数
1920*1080 (16:9) ▼	15 ▼

---

**带宽管理**

在本节中，您可以配置视频流使用的比特率。当选择 VBR（可变比特率）时，在比特率变化的情况下可以实现一致的图像质量。要在图像质量变化的情况下设置一致的比特率，请选择 CBR（恒定比特率）。

VBR 质量
 

良好 ▼

最大比特率 8 ▼ 兆比特

CBR
 

最大比特率 2048  Kbps

快速列表 ▼

---

**感兴趣区域 (ROI)**

在本节中，您可以配置 H.264 的 ROI。

启用 ROI 设置

---

**GOP 结构和长度**

在本节中，您可以配置视频流的组成（GOP 结构）。仅使用 I 帧将显著提高视频质量以及带宽。

图像组 (GOP) 大小 0.25
▼ (秒)

---

**H264 视频熵编码设置**

在本节中，您可以决定 H.264 编解码器的视频熵编码

H.264 熵编码 CAVLC V

---

**文本叠加设置**

在本节中，您可以设置在通过 GeoVision 软件查看时叠加在实时查看上的文本。

摄像头名称

叠加内容：

摄像头名称

日期

系统时间

图 4-2a

**Text Overlay Settings (OSD)**

In this section you can set up texts to be overlaid on live view.

Camera Name

Font Size

Overlay with:

Camera Name

Date

System Time

**Watermark Setting**

In this section you can set Watermark function.

Enable

**LED Control**

Ready LED  Enable  Disable

**Enable SDK**

Enable

**Special View Setting**

**Additional functions for Live View**

D/N

<input checked="" type="radio"/>	Auto	Sensitivity	<input type="text" value="3"/>
<input type="radio"/>	Black and White		
<input type="radio"/>	Color		

BLC  Off  On

IR Light  Auto  Off

**FD Scene Mode**

Mode

Figure 4-2b

**文本叠加设置 (OSD)**

在本节中，您可以设置在实时查看上叠加的文本。

摄像头名称

字体大小

叠加内容：

右下角摄像头名称

日期

系统时间 右下角

---

**水印设置**

在本节中，您可以设置水印功能。

启用

---

**LED 控制**

准备 LED  启用  禁用  禁用

---

**启用 SDK**

启用

---

**特殊视图设置**

实时查看的附加功能

**D/N**

<input checked="" type="radio"/> 自动	灵敏度 <input type="text" value="3"/>
<input type="radio"/> 黑白	
<input type="radio"/> 彩色	

**BLC**  关闭  开启

红外灯  自动  关闭

---

**FD 场景模式**

模式正常

**应用**

图 4-2b



**[Connection Template]** Select the type of your network connection. Unless you select **Customized**, this option will automatically bring up the recommended frame rate.

**[Video Signal Type]** Configure the codec type, signal format, resolution and frame rate. Select between **H.264** and **MJPEG** as the codec type.

The codec options, resolutions and maximum frame rates are listed as below:

Streams	Codec Options	Image Resolution	Max Frame Rate
Stream 1	H.264, MJPEG	1920 x 1080	15 fps
Stream 2	H.264, MJPEG	640 x 360	15 fps

**[Bandwidth Management]** When using the H.264 code, you can select constant bitrate or variable bitrate to control the bandwidth usage.

- **VBR (Variable Bitrate):** The quality of the video stream is kept as constant as possible at the cost of a varying bitrate. The bandwidth is used much more efficiently than a comparable CBR. You can set a limit to the bit rate by specifying a **Maximal Bit Rate**. Set the image quality to one of the 5 standards: **Standard, Fair, Good, Great, and Excellent**.
- **CBR (Constant Bitrate):** CBR is used to achieve a specific bitrate by varying the quality of the stream. Select a bitrate from the **Maximal Bit Rate** dropdown list.

**[GOP Structure and Length]** Set the maximum number of seconds between every key frame. This option is only available when H.264 is selected for codec.

**[H.264 Video Entropy Coding Setting]** By default, the entropy coding is set to CAVLC. To change it to **CABAC**, click and select from the dropdown list.

**[Text Overlay Settings]** Displays camera name, date, and/or time on the live view and recorded videos when viewing through GeoVision software.

- **Camera:** Type the camera name.
- **Overlay with:** Select one or more of the options to be overlaid on the live view and recorded videos: Camera Name, Date and System Time.

**[连接模板]**选择您的网络连接类型。除非您选择自定义，否则此选项将自动显示推荐的帧率。

**[视频信号类型]**配置编解码器类型、信号格式、分辨率和帧率。在 **H.264**和 **MJPEG**之间选择编解码器类型。

编解码器选项、分辨率和最大帧率如下所示：

流	编解码器选项	图像分辨率	最大帧率
流 1	H.264, MJPEG	1920 x 1080	15 fps
流 2	H.264, MJPEG	640 x 360	15 fps

**[带宽管理]**使用H.264编码时，您可以选择恒定比特率或可变比特率来控制带宽使用。

- **VBR（可变比特率）**：视频流的质量尽可能保持恒定，代价是比特率的变化。带宽的使用效率远高于可比的**CBR**。您可以通过指定最大比特率来设置比特率的限制。将图像质量设置为以下5个标准之一：标准、一般、良好、优秀和极佳。
- **CBR（恒定比特率）**：CBR用于通过改变流的质量来实现特定的比特率。从**最大比特率**下拉列表选择一个比特率。

**[GOP结构和长度]**设置每个关键帧之间的最大秒数。此选项仅在选择H.264作为编码时可用。

**[H.264视频熵编码设置]**默认情况下，熵编码设置为CAVLC。要将其更改为 **CABAC**，请单击并从下拉列表中选择。

**[文本叠加设置]**在通过GeoVision软件查看时，在实时查看和录制视频上显示摄像头名称、日期和/或时间。

- **摄像头**：输入摄像头名称。
- **叠加内容**：选择一个或多个选项以叠加在实时查看和录制视频上：摄像头名称、日期和系统时间。

**[Text Overlay Settings (OSD)]** Displays camera name, date, and/or time on the live view and recorded videos when viewing through GeoVision software and third-party software through ONVIF and RTSP.

- **Camera Name:** Type the camera name.
- **Font Size:** Select the font size from 1x to 5x.
- **Overlay with:** Select one or more of the options to be overlaid on the live view and recorded videos: Camera Name, Date and System Time, and select the display position

**[Watermark]** Enable this option to watermark all recordings. The watermark allows you to verify whether the recorded video has been tampered with. See *5.4 Verifying Watermark*.

### **[Special View Setting]**

- **D/N:** Sets the Day/Night mode of GV-CS1320.
  - ⊙ **Auto:** Select **Auto** for GV-CS1320 to detect the amount of light present and automatically switch to monochrome in a poorly-lit scene. Use the dropdown list to adjust the sensitivity level of light sensor from 1 to 5. The higher the value, the more sensitive GV-CS1320 is to light.
  - ⊙ **Black and White:** Select this option for the live view to be in monochrome.
  - ⊙ **Color:** Select this option for the live view to be in color.

**[BLC]** Enable the backlight compensation to adjust the exposure when the subject is positioned in front of a bright light source.

**[IR Light]** Enable or disable the IR LEDs (No. 4, Figure 1-5).

**[FD Scene Mode]:** When connected to GV-AI FR Server, face detection accuracy may be reduced under backlit conditions. To improve accuracy, select **Face Enhanced** to enable **Back Light Suppression** in the control panel of the Live View window (see Figure 3-5).

---

#### **Note:**

1. The functions **Region of Interest (ROI)**, **LED Control (Ready LED)**, **Enable SKD** in the Video Setting page don't work with GV-CS1320.
  2. Selecting "Face Enhanced" for FD Scene Mode will reset all settings under Camera adjustment.
-

**[文本叠加设置 (OSD)]**在通过GeoVision软件和通过ONVIF和RTSP的第三方软件查看时，在实时查看和录制视频上显示摄像头名称、日期和/或时间。

- **摄像头名称:**输入摄像头名称。
- **字体大小:**从1x到5x选择字体大小。
- **叠加内容:**选择一个或多个选项以叠加在实时查看和录制视频上：摄像头名称、日期和系统时间，并选择显示位置

**[水印]**启用此选项以对所有录制进行水印处理。水印允许您验证录制的视频是否被篡改。见 5.4 验证水印。

#### **[特殊查看设置]**

- **D/N:** 设置 GV-CS1320的日夜模式。
  - ⊙ **自动:**选择自动以使GV-CS1320检测光线强度，并在光线不足的场景中自动切换到单色模式。使用下拉列表调整光传感器的灵敏度级别，从1到5。值越高，GV-CS1320对光线的敏感度越高。
  - ⊙ **黑白:**选择此选项以使实时查看为单色。
  - ⊙ **彩色:**选择此选项以使实时查看为彩色。

**[BLC]**启用背光补偿，以在被摄体位于明亮光源前时调整曝光。

**[红外灯]**启用或禁用红外LED（图1-5中的第4号）。

**[FD场景模式]:**连接到GV-AI FR服务器时，背光条件下的人脸检测准确性可能会降低。为了提高准确性，请选择**人脸增强以启用背光抑制**在实时查看窗口的控制面板中（见图3-5）。

。

---

#### **注意:**

1. **功能感兴趣区域 (ROI)、LED控制 (就绪LED)、启用SKD**在视频设置页面中与GV-C S1320不兼容。
  2. 选择“人脸增强”作为FD场景模式将重置所有摄像机调整下的设置。
-

## 4.1.2 Text Overlay

The Text Overlay allows you to overlay any text in any place on the camera view. Up to 16 text messages can be created on one camera view. The overlaid text will be saved in the recordings.

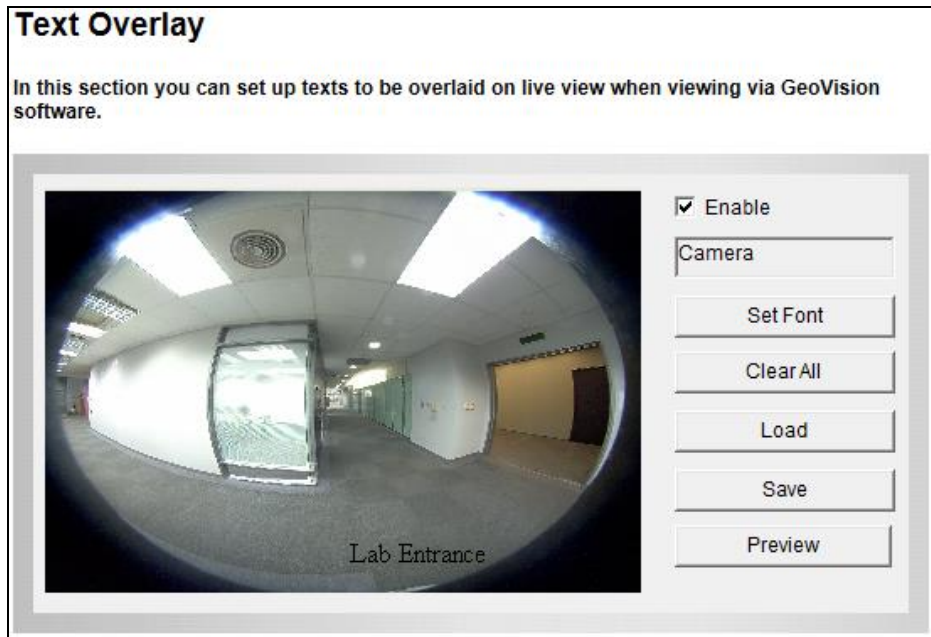


Figure 4-3

1. Select the **Enable** option.
2. Click **Set Font** to set up the font, font style and font size in a pop-up window.
3. Click any place on the image. This dialog box appears.

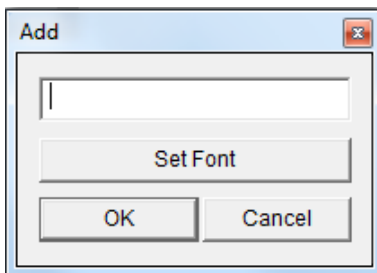


Figure 4-4

4. Type the desired text, and click **OK**. The text is overlaid on the image.
5. Drag the overlaid text to a desired place on the image.
6. Click **Set Font** to modify the font settings.
7. Click **Save** to apply the settings, or click **Load** (Undo) to revert to the last saved setting.
8. Click **Preview** to see how the text will appear on the image. Click **Close** to end the preview.

## 4.1.2 文本叠加

文本叠加允许您在摄像头视图的任何位置叠加任何文本。在一个摄像头视图上可以创建最多 16 条文本消息。叠加的文本将保存在录制中。



图 4-3

1. 选择启用选项。
2. 点击设置字体以在弹出窗口中设置字体、字体样式和字体大小。
3. 点击图像上的任意位置。此对话框将出现。

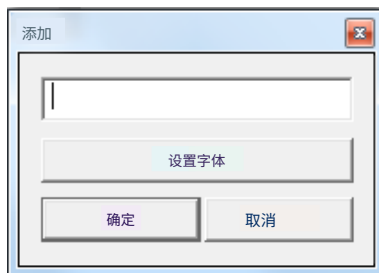


图 4-4

4. 输入所需的文本，然后点击确定。文本将叠加在图像上。
5. 将叠加的文本拖动到图像上的所需位置。
6. 点击设置字体以修改字体设置。
7. 点击保存以应用设置，或点击加载（撤销）以恢复到上次保存的设置。
8. 点击预览以查看文本在图像上的显示效果。点击关闭以结束预览。

## 4.2 Access Control

Under Access Control, there are two sections, **Basic Setting** and **Extended Device**, you can choose from to configure the controller settings on the left menu of the Web interface.

### 4.2.1 Basic Setting

The Basic Setting section covers function setting, door parameter configuration, card setting, input and other settings.

Changes in some of the Basic Setting page will affect the options available on other pages. The diagram below shows the relationships between each Basic Setting page.

The Relationship Diagram between each Basic Setting Page

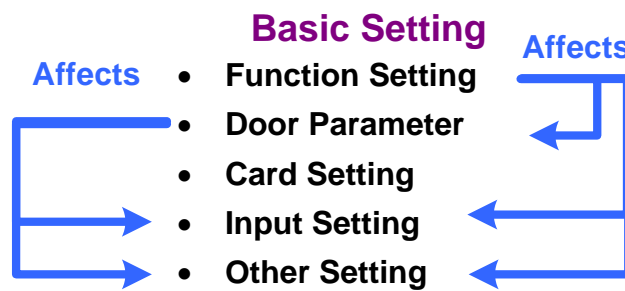


Figure 4-5

## 4.2 访问控制

在访问控制下，有两个部分，**基本设置**和**扩展设备**，您可以从网页界面的左侧菜单中选择以配置控制器设置。

### 4.2.1 基本设置

基本设置部分涵盖功能设置、门参数配置、卡片设置、输入及其他设置。

基本设置页面中的某些更改将影响其他页面上可用的选项。

下图显示了各个基本设置页面之间的关系。

每个基本设置页面之间的关系图

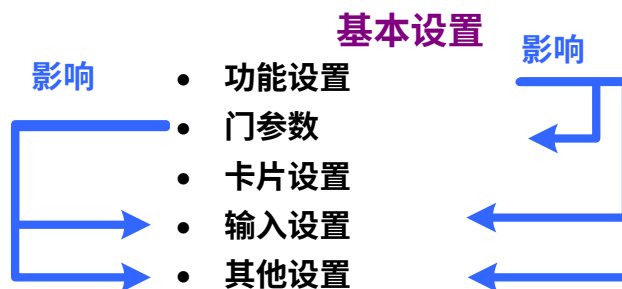


图 4-5



### 4.2.1.1 Function Setting

With the function setting, you can assign certain authentication methods for controlling a door/gate or an elevator.

#### Function Configuration

---

**ID**

ID

---

**Door/Gate A**

Function  ▼

Authentication Mode  ▼

---

**Series Function(APB & Fire)**

Enable/Disable  ▼

Info IP

Figure 4-6

**[ID]** Enter the ID number for the controller. This ID is used by GV-ASManager to differentiate among multiple units of controllers. The ID number can only be between 1 and 1000.

**[Door/Gate #] [Elevator]** Select the function type and the authentication mode for the use of the Doors / Gates / Elevators.

- **Function:** Select the function for GV-CS1320 to be installed in a general door / parking place and an elevator for entry or exit access control.
  - ⊙ **Door Entry Control**
  - ⊙ **Parking Entry Control**
  - ⊙ **Door Exit Control:**
  - ⊙ **Parking Exit Control**
  - ⊙ **Elevator Control**

### 4.2.1.1 功能设置

通过功能设置，您可以为控制门/闸或电梯分配某些认证方法。



图 4-6

**[ID]**输入控制器的ID号。此ID用于GV-ASManager区分多个控制器单元。ID号只能在1到1000之间。

**[门/闸 #] [电梯]**选择门/闸/电梯的功能类型和认证模式。

- 功能:选择GV-CS1320安装在一般门/停车场和电梯中的功能，以进行进出控制。
  - ⊙ 门进入控制
  - ⊙ 停车场进入控制
  - ⊙ 门退出控制:
  - ⊙ 停车场退出控制
  - ⊙ 电梯控制

- **Authentication Mode:** Select the authentication mode for the Doors/Gates or Elevator.
  - ⊙ **Local Unlock Mode:** Remains open. The held-open state cannot be cleared through GV-ASManager.
  - ⊙ **Local Lock Mode:** Remains locked. The locked state cannot be cleared through GV-ASManager.
  - ⊙ **Fixed Card Mode:** Grants access after the card is presented or the passcode is entered, and ignores the authentication schedule of GV-ASManager.
  - ⊙ **Fixed Card + PIN Mode:** Grants access after the user presents the card and enters the card's PIN code, and ignores the authentication schedule of GV-ASManager.
  - ⊙ **Fixed Card/Common mode:** Grants access after the user presents the card or enters the door's password, and ignores the authentication schedule of GV-ASManager.
  - ⊙ **Authentication Schedule Mode:** Follows the authentication schedule set on GV-ASManager.
  - ⊙ **Local Lock Down:** Locks down the door. This mode overrides the Authentication Schedule and the door can only be opened by presenting the assigned access card.

**[Series Function (APB & Fire)]** This option lets you set the Anti-Passback function and fire sensor function across multiple door controllers. The Anti-Passback means that a card used on an entry door cannot access the same entry door again unless it has been used on a corresponding exit door.

- **Enable/Disable:** Enables or disables the Anti-Passback function and fire sensor function.
- **Info IP:** Enter the IP address of the next corresponding controller.

---

**Note:** GV-CS1320 does not support fire sensor inputs. However, the output of GV-CS1320 will be triggered when the fire sensors on one door of its associated controller is triggered.

---

- **身份验证模式:**选择门/闸或电梯的身份验证模式。
  - ⊙ **本地解锁模式:**保持开启状态。保持开启状态无法通过 GV-ASManager 清除。
  - ⊙ **本地锁定模式:**保持锁定状态。锁定状态无法通过 GV-ASManager 清除。
  - ⊙ **固定卡模式:**在出示卡片或输入密码后授予访问权限，并忽略 GV-ASManager 的身份验证计划。
  - ⊙ **固定卡 + PIN 模式:**在用户出示卡片并输入卡片的 PIN 码后授予访问权限，并忽略 GV-ASManager 的身份验证计划。
  - ⊙ **固定卡/通用模式:**在用户出示卡片或输入门的密码后授予访问权限，并忽略 GV-ASManager 的身份验证计划。
  - ⊙ **身份验证计划模式:**遵循 GV-ASManager 上设置的身份验证计划。
  - ⊙ **本地锁定:**锁定门口。此模式覆盖身份验证计划，门只能通过出示分配的访问卡打开。

**[系列功能（反通行 & 火灾）]**此选项允许您在多个门控制器之间设置反通行功能和火灾传感器功能。反通行意味着在入口门使用的卡片不能再次访问同一入口门，除非它已在相应的出口门上使用。

- **启用/禁用:**启用或禁用反通行功能和火灾传感器功能。
- **信息 IP:**输入下一个相应控制器的 IP 地址。

---

**注意:** GV-CS1320 不支持火灾传感器输入。然而，当其关联控制器的一扇门上的火灾传感器被触发时，GV-CS1320 的输出将被触发。

---

#### 4.2.1.2 Door Parameter

The content of the Parameter Configuration page change is based on your settings for **Door/Gate #** in the **Function Configuration** page (Figure 4-6).

### Parameter Configuration

---

#### Events

Anti-passback

Lock Reset Time  (1~255);

Held Open Time  (5~9999);

Fire Action

Alarm Continuous Time  (1~10)

---

#### Alarm

Door Held Open Alarm

Door Forced Open Alarm

Door Access Denied Alarm

Global Fire Alarm

UrgentCode Alarm

---

#### Common Password

Common Password

Password Confirm

Figure 4-7

### 4.2.1.2 门参数

参数配置页面的内容变化基于您在功能配置页面（图 4-6）中对门/闸门# 的设置。

#### 参数配置

事件

反通行	<input type="text" value="否"/>	
锁重置时间	<input type="text" value="5"/>	(1~255);
保持开启时间	<input type="text" value="10"/>	(5~9999);
火灾行动	<input type="text" value="不可更改"/>	
报警持续时间 5	<input type="text"/>	(1~10)

报警

门保持开启报警	<input type="text" value="无"/>	
门强行打开报警 无	<input type="text"/>	
门禁拒绝报警 无	<input type="text"/>	
全球火灾报警	<input type="text" value="无"/>	<input checked="" type="checkbox"/>
紧急代码报警	<input type="text" value="无"/>	<input checked="" type="checkbox"/>

常用密码

常用密码	<input type="password" value="••••••••"/>
密码确认	<input type="password" value="••••••••"/>

图 4-7

**[Events]**

Set the parameters for the events.

- When **Door Control** is selected in the **Function Configuration** page (Figure 4-6), these options become available:

Option	Description
Anti-Passback	Enables or disables the Anti-Passback function.
Lock Reset Time	Sets the time (1 to 255 sec.) that a door remains open after which the door will automatically be locked.
Held Open Time	Sets the time (5 to 9999 sec.) that a door can be held open before an alarm is generated.
Fire Action	Locks or unlocks the door when a fire condition occurs. Otherwise, remains the door's current state by selecting <i>Unchanged</i> .
Alarm Continuous Time	Sets the time (1 to 10 sec.) that the alarm will continuously go off before it ends.

- When **Parking Control** is selected in the **Function Configuration** page (Figure 4-6), these options become available:

Option	Description
Anti-Passback	See the same option above.
Relay On Time	Sets the time (1 to 255 sec.) that a gate remains open after which the gate will automatically be closed.
Held Open Time	See the same option above.
Fire Action	
Alarm Continuous Time	

- When **Elevator Control** is selected in the **Function Configuration** page (Figure 4-6), these options become available:

Option	Description
Relay on Time	See the same option above.
Fire Action	
Alarm Continuous Time	See the same option above.

---

**Note:** GV-CS1320 does not support fire sensor inputs. The **Fire Action** and **Global Fire Alarm** options must work with the Anti-Pass Back (APB).

---

**[事件]**

设置事件的参数。

- 当在**功能配置**页面中选择**门控制**时（图4-6），这些选项将变得可用：

选项	描述
反通行	启用或禁用反通行功能。
锁重置时间	设置门保持打开的时间（1到255秒），之后门将自动锁定。
保持开启时间	设置门可以保持打开的时间（5到9999秒），在此之后将生成警报。
火灾行动	当发生火灾条件时，锁定或解锁门。否则，通过选择保持不变来保持门的当前状态。
警报持续时间	设置警报持续响起的时间（1到10秒），在此之后将结束。

- 当在**功能配置**页面中选择**停车控制**时（图4-6），这些选项将变得可用：

选项	描述
反通行	请参见上述相同选项。
继电器开启时间	设置门保持打开的时间（1到255秒），之后门将自动关闭。
保持开启时间	请参见上述相同选项。
火灾行动	
警报持续时间	

- 当**电梯控制**在**功能配置**页面（图4-6）中被选中时，这些选项变得可用：

选项	描述
继电器开启时间	请参见上述相同选项。
火灾行动	
警报持续时间	请参见上述相同选项。

**注意：** GV-CS1320不支持火灾传感器输入。火灾行动和全球火灾警报选项必须与反通行（APB）一起使用。



**[Alarm]** Select **Yes** or **No** to enable or disable the alarm function. The default settings for all the alarms are set to **NO**.

- When **Door Control** is selected in the **Function Configuration** page (Figure 4-6), these options become available:

Option	Description
Door Held Open	This alarm activates whenever the door is held open over the set period of time.
Door Forced Open	This alarm activates whenever the door is opened by force.
Door Access Denied	This alarm activates whenever entry is denied due to using the wrong card or entering the wrong password.
Global Fire	This alarm activates whenever fire is detected.
Urgent Code	This alarm activates whenever an emergency arises at the door.

**[Common Password]** When **Fixed Card/Common Mode** is selected as **Authentication Mode** in the **Function Configuration** page (Figure 4-6), you can gain access by using the card or entering this Common Password (door's password).

### 4.2.1.3 Card Setting

In the Card Setting page, you can select an identification type for your reader.

**Card Configuration**

**Face Detection Setting**

Show a box around each detected face

Show face detection area

Sensitivity

Enable card and face mode

**Card Identify**

Identification type

Figure 4-8

[警报]选择是或否以启用或禁用警报功能。所有警报的默认设置均设为否。

- 当在**功能配置**页面中选择**门控制**时（图4-6），这些选项将变得可用：

选项	描述
门保持开启	当门保持开启超过设定时间时，此警报会激活。
门强行打开	当门被强行打开时，此警报会激活。
门禁拒绝	当因使用错误的卡片或输入错误的密码而拒绝进入时，此警报会激活。
全球火灾	当检测到火灾时，此警报会激活。
紧急代码	当门口发生紧急情况时，此警报会被激活。

#### [常用密码]当固定卡/普通模式被选为认证模式

模式在**功能配置**页面（图 4-6）中，您可以使用卡片或输入此通用密码（门的密码）。

#### 4.2.1.3 卡片设置

在卡片设置页面，您可以为读卡器选择一种识别类型。

**卡片配置**

---

**人脸检测设置**

在每个检测到的人脸周围显示一个框

显示人脸检测区域

灵敏度 中

启用卡片和人脸模式 禁用

---

**卡片识别**

识别类型

图 4-8

**[Face Detection Setting]**

- **Show a box around each detected face:** Select this option to draw a box around each detected face on the camera view.
- **Show face detection area:** Show the face detection area on the camera view to indicate the area where face detection is supported.
- **Sensitivity:** Select a sensitivity level for face detection.
- **Enable card and face mode:** Select this option to require a card to be presented and a face to be detected before access is granted. The LED Indicator will flash red if the camera reader controller fails to detect the face.

---

**IMPORTANT:** The Face Detection settings do not function.

---

**[Card Identify]**

- **Identification type:** Set the built-in card reader of GV-CS1320 to read UID (unique identification) or GID (GeoVision identification) on GV-AS ID F Card / Key Fob.

To use **GeoVision Identification (GID)**, make sure there are two numbers on your GV-AS ID Cards / Key Fobs as shown below. If there is only one number on your GV-AS ID Cards / Key Fobs, GID is not supported and you must select **Unique Identification (UID)**.

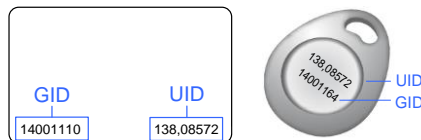


Figure 4-9

### [人脸检测设置]

- **在每个检测到的人脸周围显示一个框：**选择此选项以在摄像头视图中绘制一个框，围绕每个检测到的人脸。
- **显示人脸检测区域：**在摄像头视图中显示人脸检测区域，以指示支持人脸检测的区域。
- **灵敏度：**选择人脸检测的灵敏度级别。
- **启用卡片和人脸模式：**选择此选项以要求在授予访问权限之前出示卡片并检测人脸。如果摄像头读卡器控制器未能检测到人脸，LED指示灯将闪烁红色。

---

重要提示：人脸检测设置无法正常工作。

---

### [卡片识别]

- **识别类型：**将GV-CS1320的内置卡片读取器设置为读取UID（唯一识别）或GID（GeoVision识别），适用于GV-AS ID卡/钥匙扣。要使用**GeoVision识别（GID）**，请确保您的GV-AS ID卡/钥匙扣上有两个数字，如下所示。如果您的GV-AS ID卡/钥匙扣上只有一个数字，则不支持GID，您必须选择**唯一识别（UID）**。

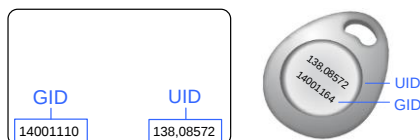
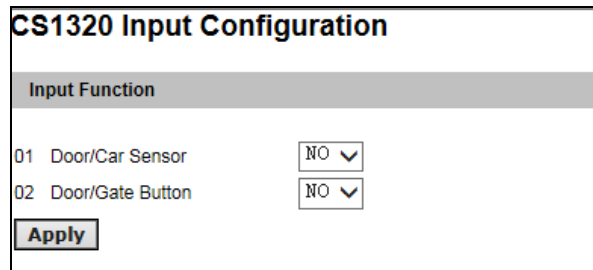


图4-9

#### 4.2.1.4 Input Setting

The Input Setting is used to define the input devices connected to GV-CS1320.



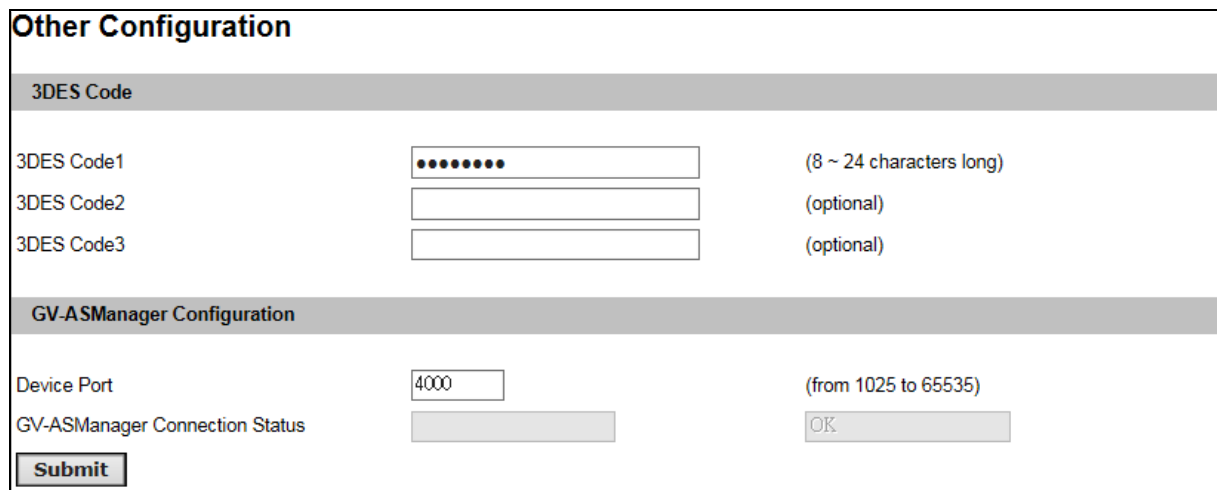
The screenshot shows a web interface titled "CS1320 Input Configuration". It has a section header "Input Function" in a grey bar. Below this, there are two rows of configuration: "01 Door/Car Sensor" with a dropdown menu set to "NO", and "02 Door/Gate Button" also with a dropdown menu set to "NO". At the bottom left of the configuration area is an "Apply" button.

Figure 4-10

**[Input Function]** Set the input contact types to be normally open or normally closed. The default settings for all the inputs are set to **NO**.

#### 4.2.1.5 Other Setting

Here you can specify the encryption code and device port of GV-CS1320 which are used when connecting to GV-ASManager.



The screenshot shows a web interface titled "Other Configuration". It is divided into two main sections. The first section is "3DES Code", which contains three input fields: "3DES Code1" (with a masked input of 8 dots and a note "(8 ~ 24 characters long)"), "3DES Code2" (with a note "(optional)"), and "3DES Code3" (with a note "(optional)"). The second section is "GV-ASManager Configuration", which contains a "Device Port" input field with the value "4000" and a note "(from 1025 to 65535)", and a "GV-ASManager Connection Status" input field with the value "OK". At the bottom left is a "Submit" button.

Figure 4-11

- **3DES Code 1-3:** Stands for Triple DES (Data Encryption Standard). Type up to three different keys for data encryption. The default 3DES Code1 is **12345678**.
- **Device Port:** Keep the default value **4000** or modify it to match that of GV-ASManager's.

#### 4.2.1.4 输入设置

输入设置用于定义连接到GV-CS1320的输入设备。



图4-10

**[输入功能]**将输入接触类型设置为常开或常闭。所有输入的默认设置均设置为常开。

#### 4.2.1.5 其他设置

在这里您可以指定用于连接 GV-ASManager 的 GV-CS1320 的加密代码和设备端口。

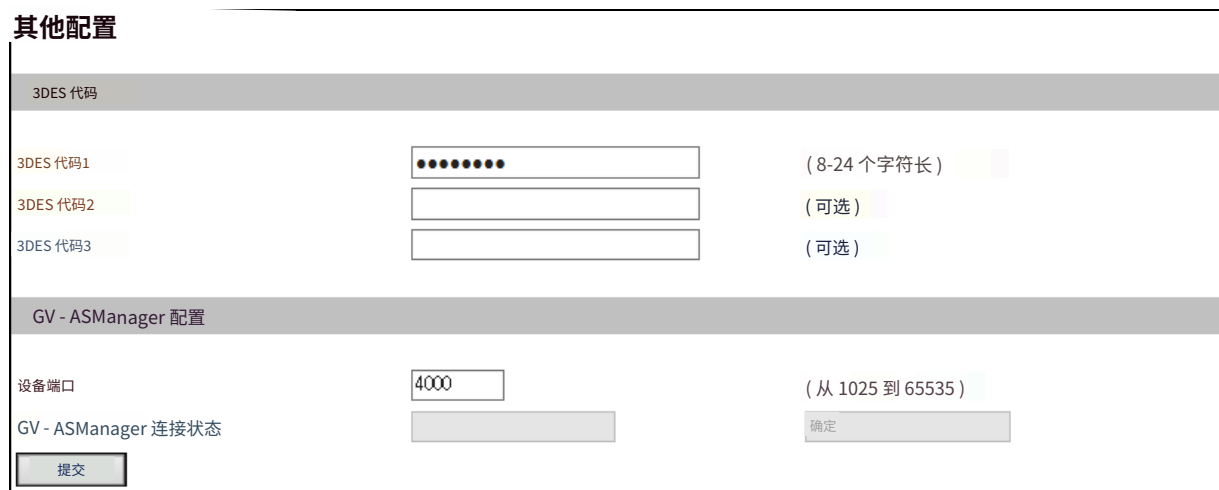


图 4-11

- **3DES 代码 1-3:**代表三重 DES（数据加密标准）。输入最多三个不同的密钥用于数据加密。默认的 3DES 代码1 是 **12345678**。
- **设备端口:**保持默认值 **4000**或修改为与 GV-ASManager 的匹配。

## 4.2.2 Extended Device

You can define GeoVision readers and GV-I/O Box 4 ports connected to GV-CS1320.


### 4.2.2.1 Extended Reader

Define the readers connected to the controller, and then use the Function dropdown list to select the door option associated with the reader.

### CS1320 Extended Reader Configuration

GV-Reader/CR420/GF1921/GF1922/OSDP Function

RS485 Protocol  GV  OSDP  Two-Factor-Authentication

RS485	ID	Serial Number	Functions	Connection Status
<input type="checkbox"/>	0	<input type="text"/>	No Function ▼	
<input type="checkbox"/>	1	<input type="text"/>	Door/Gate A Exit ▼	

OSDP Speed/Baudrate  ▼

GeoFinger Server IP Address   (from 1025 to 65535)

Figure 4-12

#### [Protocol]

- **GV:** For the following GeoVision readers, select this protocol.
  - ⊙ **GV-RK1352 / R1352 / DFR1352:** Select the **RS-485** checkbox and type the **Serial Number** of the reader. The ID number located next to the serial number field will be assigned to the reader.
  - ⊙ **Reader 1352 V2:** Select the **RS-485** checkbox and leave the serial number field blank. Note that the ID number located next to the serial number field need to match the reader's ID number defined by the dip switches on the reader.
  - ⊙ **GV-GF1921 / GF1922:** Type the **MAC address** of the fingerprint reader and *do not* select the RS-485 checkbox.
  - ⊙ **GV-CR420:** Select the **RS-485** checkbox only if GV-CR420 is connected to the controller through RS-485 connection. If the reader is connected via network, do not check the RS-485 checkbox. Type the **MAC address** of GV-CR420 if using the latest GV-CR420 firmware.
  - ⊙ **GV-FR2020:** Type the **MAC address** of the face recognition reader and *do not* select the RS-485 checkbox.

## 4.2.2 扩展设备

您可以定义连接到 GV-CS1320 的 GeoVision 读卡器和 GV-I/O Box 4 端口。

### 4.2.2.1 扩展读卡器

定义连接到控制器的读卡器，然后使用功能下拉列表选择与读卡器关联的门选项。

图 4-12

#### [ 协议]

- **GV:** 对于以下 GeoVision 读卡器，请选择此协议。
  - ⊙ **GV-RK1352 / R1352 / DFR1352:**选择 **RS-485**复选框并输入读卡器的序列号。位于序列号字段旁边的 ID 号将分配给读卡器。
  - ⊙ **读卡器 1352 V2:**选择 **RS-485**复选框并将序列号字段留空。请注意，位于序列号字段旁边的 ID 号需要匹配读卡器上由拨码开关定义的 ID 号。
  - ⊙ **GV-GF1921 / GF1922:**输入指纹读卡器的**MAC** 地址，并且不要选择 RS-485 复选框。
  - ⊙ **GV-CR420:**仅在 GV-CR420 通过 RS-485 连接到控制器时选择 **RS-485**复选框。如果读卡器通过网络连接，请不要勾选 RS-485 复选框。如果使用最新的 GV-CR420 固件，请输入 GV-CR420 的**MAC** 地址。
  - ⊙ **GV-FR2020:**输入人脸识别读卡器的**MAC** 地址，并且不要选择 RS-485 复选框。



- **OSDP:** For OSDP compliant readers, e.g. GV-RKD1352, select this protocol and select the paired ID No. of the reader (ID #1 ~#2).
- **Two-Factor Authentication:** Only for *networked* readers supporting finger recognition, the access is granted only when registered fingers are detected and corresponding cards are presented too. Once registered fingers are detected, GV-CS1320 will beep once and flash green lights for 10 seconds, during which users must present corresponding cards for access granted.

#### **[GeoFinger Server IP Address]**

To allow GV-ASManager to receive data from GV-GF1921 / 1922 defined on this page during remote fingerprint enrollment, type the IP address and port of GV-ASManager server. By default the port number is 2167.

Click **Apply**. The green Connection Status indicates the successful connection between GV-CS1320 and the reader whereas a red status indicates otherwise.

---

#### **Note:**

1. To allow network connection, you must also enable network connection to the controller on the Web interface of GV-CR420 or GV-GF1921 / 1922.
  2. The extended reader connected is limited to use UID (unique identification) card type. For details on card authentication, see [Card Identify] in *4.2.1.3 Card Setting*.
- 

#### **4.2.2.2 Extended IOBOX 4 Ports**

For **Extended IOBOX Configuration**, see *Chapter 8 Connecting to GV-I/O Box 4 Ports*.

- **OSDP:**对于符合 OSDP 标准的读卡器，例如 GV-RKD1352，选择此协议并选择读卡器的配对 ID 号（ID #1 ~#2）。
- **双因素认证:**仅适用于支持指纹识别的网络读卡器，只有在检测到注册指纹并同时呈现相应卡片时，才能授予访问权限。一旦检测到注册指纹，GV-CS1320 将发出一次蜂鸣声并闪烁绿色灯光 10 秒，在此期间用户必须呈现相应卡片以获得访问权限。

### [GeoFinger 服务器 IP 地址]

要允许 GV-ASManager 在远程指纹注册期间接收来自本页定义的 GV-GF1921 / 1922 的数据，请输入 GV-ASManager 服务器的 IP 地址和端口。  
默认端口号为 2167。

点击应用。绿色连接状态表示 GV-CS1320 与读卡器之间的成功连接，而红色状态则表示相反。

---

#### 注意：

- 1.要允许网络连接，您还必须在 GV-CR420 或 GV-GF1921 / 1922 的网页界面上启用与控制器的网络连接。
  - 2.连接的扩展读卡器仅限使用 UID（唯一识别）卡类型。  
有关卡片认证的详细信息，请参见4.2.1.3 卡片设置中的 [卡片识别]。
- 

### 4.2.2.2 扩展 IOBOX 4 端口

有关扩展 IOBOX 配置，请参见第 8 章 连接到 GV-I/O Box 4 端口。

## 4.3 Events and Alerts

### 4.3.1 RTSP/ONVIF

The RTSP enables video and audio streaming to your mobile phone. And, you can configure the ONVIF settings for a third-party DVR and access controllers to connect to GV-CS1320.

The screenshot shows a configuration window titled 'RTSP' and 'ONVIF'. Under 'RTSP Server', there are several settings: 'Activate Link' is checked; 'RTSP/TCP port' is 8554; 'RTP/UDP port' is a range from 17300 to 17315; 'Max connection' is 8; 'Enable Audio' is unchecked; and 'Disable Authentication' is checked. An 'Apply' button is below these settings. Under 'ONVIF', there are two settings: 'Enable Authentication' and 'Enable Discovery Mode', both of which are checked. An 'Apply' button is also present at the bottom of the ONVIF section.

Figure 4-13

#### [RTSP]

- **Activate Link:** Enable the RTSP protocol.
- **RTSP/TCP Port:** Keep the default value 8554, or modify it if necessary.
- **RTP/UDP Port:** Keep the default range from 17300 to 17315, or modify it if necessary. The number of ports for use is limited to 20.
- **Max Connection:** Set the maximum number of connections to GV-CS1320. The maximum value is 8.
- **Enable Audio:** Turns the audio streaming on or off.
- **Disable Authentication:** By default, when accessing live view through the RTSP command, the ID and password of GV-CS1320 are required. Select this option to disable the authentication prompt.

#### [ONVIF]

- **Enable Authentication:** The ID and password of GV-CS1320 are required to access GV-CS1320 by a third-party DVR through ONVIF. This function is enabled by default.
- **Enable Discovery Mode:** Allows the third-party DVR to browse GV-CS1320. This function is enabled by default.

For details on the RTSP command, see *RTSP Protocol Support* in *Appendix B*.

## 4.3 事件和警报

### 4.3.1 RTSP/ONVIF

RTSP 使视频和音频流传输到您的手机。此外，您可以配置第三方 DVR 的 ONVIF 设置和访问控制器，以连接到 GV-CS1320。



图 4-13

#### [RTSP]

- **激活链接:**启用 RTSP 协议。
- **RTSP/TCP 端口:**保持默认值 8554，或在必要时进行修改。
- **RTP/UDP 端口:**保持默认范围从 17300 到 17315，或在必要时进行修改。  
可用端口数量限制为 20 个。
- **最大连接数:**设置与 GV-CS1320 的最大连接数。最大值为 8。
- **启用音频:**打开或关闭音频流。
- **禁用身份验证:**默认情况下，通过 RTSP 命令访问实时查看时，需要 GV-CS1320 的 ID 和密码。选择此选项以禁用身份验证提示。

#### [ONVIF]

- **启用身份验证:**通过 ONVIF 访问 GV-CS1320 时，需要 GV-CS1320 的 ID 和密码。此功能默认启用。
- **启用发现模式:**允许第三方 DVR 浏览 GV-CS1320。此功能默认启用。

有关 RTSP 命令的详细信息，请参见 RTSP 协议支持在附录 B 中。

## 4.4 Network

The Network section includes some basic but important network configurations that enable GV-CS1320 to be connected to a network.

### 4.4.1 Status

You can access an overview of GV-CS1320's network status.

Network Status Information	
In this section you can see an overview of GV-IPCAM status.	
Current Status Information	
interface:	Wired
IP Acquirement:	Fixed
MAC Address:	0013E2FF1DC1
IP Address:	192.168.6.4
Subnet Mask:	255.255.248.0
Gateway:	192.168.0.1

Figure 4-14

### 4.4.2 LAN

According to your network environment, select among DHCP, static IP and PPPoE.

LAN Configuration	
In this section you can configure GV-IPCAM to work inside of LAN.	
LAN Configuration	
<input checked="" type="radio"/> Dynamic IP address Select this option to obtain IP address from a DHCP server <input type="button" value="Test DHCP"/>	
<input type="radio"/> Static IP address Select this option to enter a Static IP address manually	
IP Address:	<input type="text" value="192.168.3.13"/>
Subnet Mask:	<input type="text" value="255.255.248.0"/>
Router/Gateway:	<input type="text" value="192.168.0.1"/>
Primary DNS:	<input type="text" value="192.168.0.1"/>
Secondary DNS:	<input type="text" value="0.0.0.0"/> (Optional)
<input type="radio"/> PPPoE Select this option to establish a DSL connection	
Username:	<input type="text"/>
Password:	<input type="text"/>
<input type="button" value="Apply"/>	

Figure 4-15

## 4.4 网络

网络部分包括一些基本但重要的网络配置，使 GV-CS1320 能够连接到网络。

### 4.4.1 状态

您可以访问 GV-CS1320 的网络状态概览。

#### 网络状态信息

在本节中，您可以查看 GV - IPCAM 状态的概览。

当前状态信息	
接口:	有线
IP 获取:	固定
MAC 地址:	0013E2FF1DC1
IP 地址:	192.168.6.4
子网掩码:	255.255.248.0
网关:	192.168.0.1

图 4-14

### 4.4.2 局域网

根据您的网络环境，在 DHCP、静态 IP 和 PPPoE 之间进行选择。

#### 局域网配置

在本节中，您可以配置 GV - IPCAM 在局域网内工作。

局域网配置

动态 IP 地址 选择此选项以从 DHCP 服务器获取 IP 地址 测试 DHCP

静态 IP 地址 选择此选项以手动输入静态 IP 地址

IP 地址:

子网掩码:

路由器 / 网关:

主 DNS:

次 DNS: 00.00  (可选)

PPPoE 选择此选项以建立 DSL 连接

用户名:

密码:

图 4-15

**[LAN Configuration]**

- **Dynamic IP address:** The network environment has a DHCP server which will automatically assign a dynamic IP address to GV-CS1320. Click the **Test DHCP** to see the currently assigned IP address or look up the address using GV-IP Device Utility.
- **Static IP address:** Assign a static IP or fixed IP to GV-CS1320. Type GV-CS1320's IP address, Subnet Mask, Router/Gateway, Primary DNS server and Secondary DNS server.

Parameters	Default
IP address	192.168.0.10
Subnet Mask	255.255.255.0
Router/Gateway	192.168.0.1
Primary DNS server	192.168.0.1
Secondary DNS server	192.168.0.2

- **PPPoE:** The network environment is xDSL connection. Type the Username and Password provided by ISP to establish the connection. If you use the xDSL connection with dynamic IP addresses, first use the DDNS function to obtain a domain name linking to GV-CS1320's changing IP address.

**[局域网配置]**

- **动态 IP 地址:**网络环境中有一个 DHCP 服务器，它将自动为 GV-CS1320 分配动态 IP 地址。点击测试 **DHCP**查看当前分配的 IP 地址，或使用 GV-IP 设备工具查找地址。
- **静态 IP 地址:**为 GV-CS1320 分配一个静态 IP 或固定 IP。输入 GV-CS1320的 IP 地址、子网掩码、路由器/网关、主 DNS 服务器和次 DNS 服务器。

参数	默认
IP 地址	192.168.0.10
子网掩码	255.255.255.0
路由器/网关	192.168.0.1
主DNS服务器	192.168.0.1
次DNS服务器	192.168.0.2

- **PPPoE:**网络环境为xDSL连接。输入ISP提供的用户名和密码以建立连接。如果您使用动态IP地址的xDSL连接，请首先使用DDNS功能获取链接到GV-CS1320的动态IP地址的域名。



### 4.4.3 Advanced TCP/IP

This section introduces the advanced TCP/IP settings, including the DDNS Server, HTTPS port, streaming port, UPnP and QoS.

#### Advanced TCP/IP

In this section you can set the advanced TCP/IP configuration

**Dynamic DNS Server Settings**

In this section you can configure your GV-IPCAM to obtain a domain name by using a dynamic IP.

Enable

Service Provider:  ex: [Register Geovision DDNS Server](#)

Host Name:

User Name:

Password:

Update Time:  [Refresh](#)

**HTTPS Settings**

Use customized certification and private key. External storage is necessary.

Certificate File:

Certificate Key File:

Password:

**GV-IPCAM Streaming Port Settings**

In this section you can configure Streaming connection from a determine port. The default setting is 10000.

VSS Port:

**UPnP Settings**

In this section you can enable or disable UPnP function.

UPnP:  Enable  Disable

**QoS Settings**

QoS DSCP Settings. The DSCP value can be in decimal or hexadecimal format between 0~63

DSCP Value:

Figure 4-16

### 4.4.3 高级TCP/IP

本节介绍高级TCP/IP设置，包括DDNS服务器、HTTPS端口、流媒体端口、UPnP和QoS

。

#### 高级TCP/IP

在本节中，您可以设置高级TCP/IP配置

##### 动态DNS服务器设置

在本节中，您可以配置您的GV-IPCAM通过动态IP获取域名。

启用

服务提供商: Geovision GVDIP [ex: 注册Geovision DDNS服务器](#)

主机名:

用户名:

密码:

更新时间:

##### HTTPS 设置

使用自定义证书和私钥。外部存储是必要的。

证书文件:

证书密钥文件:

密码:

##### GV - IPCAM 流媒体端口设置

在此部分，您可以配置从指定端口的流媒体连接。默认设置为 10000。

VSS 端口:

##### UPnP 设置

在此部分，您可以启用或禁用 UPnP 功能。

UPnP:  启用  禁用

##### 服务质量 (QoS) 设置

QoS DSCP 设置。DSCP 值可以是 0-63 之间的十进制或十六进制格式

DSCP 值:

图4-16

**[Dynamic DNS Server Settings]**

DDNS (Dynamic Domain Name System) provides a convenient way of accessing GV-CS1320 when using a dynamic IP. DDNS assigns a domain name to GV-CS1320, so that the Administrator does not need to go through the trouble of checking if the IP address assigned by DHCP Server or ISP (in xDSL connection) has changed.

Before enabling the following DDNS function, the Administrator should have applied for a Host Name from the DDNS service provider's website. There are 3 providers listed in GV-CS1320: GeoVision GVDIP, GeoVision DDNS Server and DynDNS.org.

**To enable the DDNS function:**

1. **Enable:** Enable the DDNS function.
2. **Service Provider:** Select the DDNS service provider you have registered with.
3. **Host Name:** Type the host name used to link to GV-CS1320. For users of GeoVision DDNS Server, it is unnecessary to fill the field because the system will detect the host name automatically.
4. **User Name:** Type the user name used to enable the service from the DDNS.
5. **Password:** Type the password used to enable the service from the DDNS.
6. Click **Apply**.

**[HTTPS Settings]**

By enabling the Hypertext Transfer Protocol Secure (HTTPS) settings, you can access GV-CS1320 through a secure protocol. You can use self-generated Certificate File and Certificate Key File or the ones verified by the SSL authority. Click **Browse** to locate the Certificate File and Certificate Key File and type the password if the .pem files are protected by password. Click **Apply**. The Web interface will be restarted and you will need to log in again.

---

**Note:** The .pem file format is supported by the Certificate File and Certificate Key File.

---

**[GV-IPCAM Streaming Port Settings]**

The VSS port enables your GV-CS1320 to be connected to GV-DVR / NVR / GV-VMS and to send images to GV-ASManager. The default setting is **10000**.

### [动态 DNS 服务器设置]

DDNS（动态域名系统）提供了一种方便的方式来访问 GV-CS1320，当使用动态 IP 时。DDNS 为 GV-CS1320 分配一个域名，因此管理员无需费心检查 DHCP 服务器或 ISP（在 xDSL 连接中）分配的 IP 地址是否已更改。

在启用以下 DDNS 功能之前，管理员应已在 DDNS 服务提供商的网站上申请了主机名。在 GV-CS1320 中列出了 3 个提供商：GeoVision GVDIP、GeoVision DDNS 服务器和 DynDNS.org。

#### 要启用 DDNS 功能：

1. 启用：启用 DDNS 功能。
2. **服务提供商**：选择您已注册的 DDNS 服务提供商。
3. **主机名**：输入用于链接到 GV-CS1320 的主机名。对于 GeoVision DDNS 服务器的用户，填写此字段是没有必要的，因为系统会自动检测主机名。
4. **用户名**：输入用于启用 DDNS 服务的用户名。
5. **密码**：输入用于启用 DDNS 服务的密码。
6. 点击应用。

### [HTTPS 设置]

通过启用超文本传输安全协议 (HTTPS) 设置，您可以通过安全协议访问 GV-CS1320。您可以使用自生成的证书文件和证书密钥文件，或使用 SSL 机构验证的文件。点击浏览以定位证书文件和证书密钥文件，如果 .pem 文件受到密码保护，请输入密码。点击应用。网页界面将重新启动，您需要重新登录。

---

注意:证书文件和证书密钥文件支持 .pem 文件格式。

---

### [GV-IPCAM 流媒体端口设置]

VSS 端口使您的 GV-CS1320 能够连接到 GV-DVR / NVR / GV-VMS，并将图像发送到 GV-ASManager。默认设置为 **10000**。

### [UPnP Settings]

UPnP (Universal Plug & Play) is a networking architecture that provides compatibility among networking equipment, software and peripherals of the 400+ vendors that are part of the Universal Plug and Play Forum. It means that they are listed in the network devices table for the operating system (such as Windows XP) supported by this function. Enabling this function, you can connect to GV-CS1320 directly by clicking on the camera listed in the network devices table.

### [QoS Settings]

The Quality of Service (QoS) is a bandwidth control mechanism that guarantees delay-sensitive data flows such as voice and video streams and obtains a certain amount of bandwidth to keep the streaming smooth.

To apply QoS to the camera reader, all network routers must support QoS and QoS must be enabled on these devices. To enable the QoS on the camera, enter a Differentiated Services Code Point (DSCP) value. This value is a field in an IP packet that enables different levels of services for the network traffic. When the video stream from the camera reaches a router, the DSCP value will tell the router what service level to be applied, e.g. the bandwidth amount. This value ranges from 0 to 63 in decimal format. The default value is 0, meaning QoS is disabled.

---

**Note:** If you do not intend to connect GV-CS1320 to the network, disable this function to prevent automatic reboot.

---

## [UPnP 设置]

UPnP（通用即插即用）是一种网络架构，提供了400多家供应商的网络设备、软件和外设之间的兼容性，这些供应商都是通用即插即用论坛的一部分。这意味着它们在操作系统（如Windows XP）支持的网络设备表中列出。启用此功能后，您可以通过单击网络设备表中列出的摄像头直接连接到GV-CS1320。

## [QoS 设置]

服务质量（QoS）是一种带宽控制机制，保证延迟敏感的数据流，如语音和视频流，并获得一定量的带宽以保持流畅的播放。

要将QoS应用于摄像头读取器，所有网络路由器必须支持QoS，并且这些设备上必须启用QoS。要在摄像头上启用QoS，请输入区分服务代码点（DSCP）值。该值是IP数据包中的一个字段，用于为网络流量启用不同级别的服务。当来自摄像头的视频流到达路由器时，DSCP值将告诉路由器应应用什么服务级别，例如带宽量。

该值在十进制格式中范围为0到63。默认值为0，表示QoS被禁用。

---

注意:如果您不打算将GV-CS1320连接到网络，请禁用此功能以防止自动重启。

---

#### 4.4.4 IP Filtering

The Administrator can set IP filtering to restrict access to GV-CS1320.

### IP Filter Setting

In this section you can allow or deny network connection listed in the table. ( Only 4 filter entries are supported.)

IP Filtering

Enable IP Filtering

No.	IP Address Range in CIDR format	Action	Customize
The IP Filter has not been configured yet			

Filtered IP:  ex: 192.168.1.2 or 192.168.1.0/24

Action to take:  ▼

Figure 4-17

To enable the IP Filter function:

1. **Enable IP Filtering:** Enable the IP Filtering function.
2. **Filtered IP:** Type the IP address from which you want to restrict the access.
3. **Action to take:** Select the action of **Allow** or **Deny** to be taken by the IP address(es) you have specified.
4. Click **Apply**.

#### 4.4.4 IP过滤

管理员可以设置IP过滤以限制对GV-CS1320的访问。

IP过滤设置

在本节中，您可以允许或拒绝表中列出的网络连接。(仅支持4个过滤条目。)

IP过滤

启用IP过滤

否	CIDR格式的IP地址范围	操作	自定义
IP过滤尚未配置			

过滤的IP:  例如：192.168.1.2或192.168.1.0/24

采取的操作:

图4-17

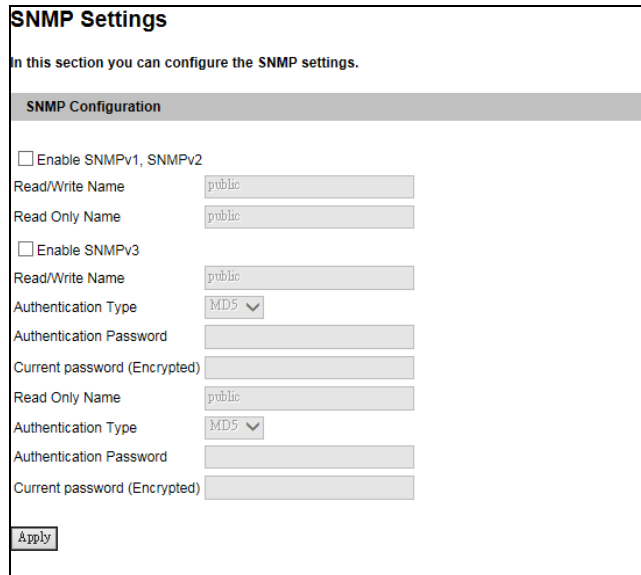
要启用IP过滤功能：

1. **启用IP过滤:**启用IP过滤功能。
2. **过滤的IP:**输入您希望限制访问的IP地址。
3. **采取的行动:**选择您指定的IP地址应采取的允许或拒绝的行动。
4. 点击 **应用** 。



## 4.4.5 SNMP Setting

The Simple Network Management Protocol (SNMP) allows you to monitor the status of GV-CS1320 through SNMP network management software.



**SNMP Settings**

In this section you can configure the SNMP settings.

**SNMP Configuration**

Enable SNMPv1, SNMPv2

Read/Write Name: public

Read Only Name: public

Enable SNMPv3

Read/Write Name: public

Authentication Type: MD5

Authentication Password: [text input]

Current password (Encrypted): [text input]

Read Only Name: public

Authentication Type: MD5

Authentication Password: [text input]

Current password (Encrypted): [text input]

Apply

Figure 4-18

To set up the SNMP settings:

1. Select **Enable SNMPv1 SNMPv2c** to enable the function.
2. To enable access to **Read/Write Name**, type a community string. This will serve as a password to allow read and write access to GV-CS1320 from the SNMP software.
3. To enable **Read Only Name**, type a community string to allow read-only access to the camera from the SNMP software.
4. For a more secured connection, select **Enable SNMPv3** to enable SNMP version 3.
5. To enable access to **Read/Write Name**, type a community string.
6. Select an **Authentication Type** to be used for SNMP requests.
7. Type the **Authentication Password** and **Current Password (Encrypted)**. You will need to type these passwords in the SNMP software to be able to access GV-CS1320.
8. To enable access to **Read Only Name**, type a community string to allows read-only access to GV-CS1320, and set up the **Authentication Type**, **Authentication Password** and the **Current Password (Encrypted)**.
9. Click **Apply** to save the settings.

## 4.4.5 SNMP设置

简单网络管理协议（SNMP）允许您通过SNMP网络管理软件监控GV-CS1320的状态。



SNMP设置

在本节中，您可以配置SNMP设置。

SNMP配置

启用 SNMPv1, SNMPv2

读/写名称: 公共

只读名称: 公共

启用 SNMPv3

读/写名称: 公共

认证类型: MD5

认证密码: [输入框]

当前密码 (加密): [输入框]

只读名称: 公共

认证类型: MD5

认证密码: [输入框]

当前密码 (加密): [输入框]

应用

图4-18

要设置SNMP设置：

1. 选择**启用SNMPv1 SNMPv2c**以启用该功能。
2. 要启用对**读/写名称**的访问，请输入一个社区字符串。此密码将用于允许从SNMP软件对GV-CS1320进行读写访问。
3. 要启用**只读名称**，请输入一个社区字符串以允许从SNMP软件对摄像头进行只读访问。
4. 为了实现更安全的连接，请选择**启用SNMPv3**以启用SNMP版本3。
5. 要启用对**读/写名称**的访问，请输入一个社区字符串。
6. 选择一个**认证类型**以用于SNMP请求。
7. 输入**认证密码**和**当前密码（加密）**。您需要在SNMP软件中输入这些密码才能访问GV-CS 1320。
8. 要启用对只读名称的访问，请输入一个社区字符串以允许对GV-CS1320进行只读访问，并设置认证类型、认证密码和当前密码（加密）。
9. 点击应用以保存设置。

## 4.5 Management

The Management section includes the settings of data and time and user account. You can also view the firmware version and execute certain system operations.

### 4.5.1 Date and Time

The date and time settings are used for date and time stamps on the image.

#### Date and Time Settings

In this section you can configure time and date or just synchronize with a NTP server.

**Date and Time on GV-IPCAM**

Mon Dec 28 10:00:27 GMT8:00 2015

**Time Zone**

(GMT+08:00) China,Hong Kong,Australia Western,Singapore,Taiwan,Russia ▼

Enable Daylight Saving Time

Start  (MM/dd/hh/mm)

End  (MM/dd/hh/mm)

	Month	The day of the week	Hour
Start Time	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value="0"/>
Stop Time	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value="0"/>

**Synchronized with a Network Time Server**

Synchronized with Network Time Server (NTP)

Host name or IP Address:

Update period: 24 hours; Update Time:  :

**Synchronized with your computer or modify manually**

Modify manually

Date  (yyyy/mm/dd)

Time  (hh:mm:ss)

Synchronized with your computer

**Date and time overlay setting**

Show date as  ▼

(This is a format of date where yyyy stands for year in 4 digits or yy in 2 digits, mm stands for month, and dd stands for day)

Display order

Date prior to time (Ex.2007/05/21 17:00:00)

Time prior to date(Ex.17:00:00 2007/05/21)

Figure 4-19

## 4.5 管理

管理部分包括日期和时间设置以及用户账户。您还可以查看固件版本并执行某些系统操作。

### 4.5.1 日期和时间

日期和时间设置用于图像上的日期和时间戳。

#### 日期和时间设置

在此部分，您可以配置时间和日期或仅与 NTP 服务器同步。

GV - IPCAM上的日期和时间

2015年12月28日 星期一 10:00:27 GMT+8:00

时区

( GMT + 08 : 00 ) 中国香港, 澳大利亚西部, 新加坡, 台湾, 俄罗斯

启用夏令时

开始  (MM/dd/hh/mm)

结束  (MM/dd/hh/mm)

月份 星期几 小时

开始时间

停止时间

与网络时间服务器同步

与网络时间服务器 (NTP) 同步

主机名或IP地址:

更新时间: 24小时; 更新时间: 05  :

与您的计算机同步或手动修改

手动修改

日期  (yyyy/mm/dd)

时间  (hh:mm:ss)

与您的计算机同步

日期和时间叠加设置

显示日期 为

(这是日期格式, 其中 yyyy 代表 4 位数的年份或 yy 代表 2 位数的年份, mm 代表月份, dd 代表日期)

显示

顺序:  日期在时间之前 (例如 2007 / 05 / 21 17:00:00)

时间在日期之前 (例如 17:00:00 2007/05/21)

图 4-19

**[Date & Time on GV-IPCAM]** Displays the current date and time on GV-CS1320

**[Time Zone]** Sets the time zone for local settings. Select Enable Daylight Saving Tim to automatically adjust GV-CS1320 for daylight saving time. Select the Start and Stop time to enable the daylight saving function.

**[Synchronized with a Network Time Server]** By default, GV-CS1320 uses the timeserver to automatically update its internal clock every 24 hours at the Update Time you specified. You can also change the host name or IP setting to the timeserver of interest.

**[Synchronized with your computer or modify manually]** Manually changes GV-CS1320's date and time or synchronize the camera access controller's date and time with those of the local computer.

**[Date and time overlay setting]** Select the display format of date and time stamps on the image. For this function to work, you must also enable the **Overlaid with date stamps** and **Overlaid with time stamps** options in Figure 4-2b.

## 4.5.2 Storage Setting

Note that only the formatting function is available in the setting page. Other settings are nonfunctional. The SD card is used for storing log data of the device.

Disk Information						
Disk No.	Total Size	Used Size	Free space	Utilization	Remove	Format
Disk0	1862.852	2.841	1860.010	0%	<a href="#">Remove</a>	<a href="#">Format</a>

Figure 4-20

- **Disk information:** Indicates the capacity of the SD card inserted and allows you to format the SD card. To safely remove the inserted SD card, click **Remove**.

**[GV-IPCAM上的日期和时间]**显示 GV-CS1320的当前日期和时间

**[时区]**设置本地设置的时区。选择启用夏令时以自动调整GV-CS1320的夏令时。选择开始和结束时间以启用夏令时功能。

**[与网络时间服务器同步]**默认情况下，GV-CS1320使用时间服务器每24小时在您指定的更新时间自动更新其内部时钟。您还可以更改主机名或IP设置，以便连接到感兴趣的时间服务器。

**[与您的计算机同步或手动修改]**手动更改 GV-CS1320的 date和time或将摄像头访问控制器的日期和时间与本地计算机的日期和时间同步。

**[日期和时间叠加设置]**选择图像上日期和时间戳的显示格式。要使此功能正常工作，您还必须在图4-2b中启用**叠加日期戳**和**叠加时间戳**选项。

## 4.5.2 存储设置

请注意，设置页面中仅提供格式化功能。其他设置无效。SD卡用于存储设备的日志数据。

磁盘信息						
磁盘编号	总大小	已用大小	可用空间	利用率	移除	格式化
磁盘	1862.852	2.841	1860.010	0%	移除	格式化

图4-20

- **磁盘信息:**指示插入的SD卡的容量，并允许您格式化SD卡。要安全地移除插入的SD卡，请点击移除。

### 4.5.3 User Account

You can change the Administrator's login name and password. To remain logged in after reboot, select **Disable auto logout after reboot**.

**User Account**

In this section you can change the administrator account and password

**Administrator Account**

Username:

Old Password:

New Password:

Confirm Password:

**Advanced Setting**

Disable auto logout after reboot

Figure 4-21

### 4.5.4 Log Information

The log information contains dump data that is used by service personnel for analyzing problems.

### 4.5.3 用户账户

您可以更改管理员的登录名和密码。要在重启后保持登录，请选择**禁用重启后自动注销**

。

用户账户

在此部分，您可以更改管理员账户和密码

管理员账户

用户名: 管理员

旧密码:

新密码:

确认密码:

应用

高级设置

在重启后禁用自动注销

应用

图 4-21

### 4.5.4 日志信息

日志信息包含服务人员用于分析问题的转储数据。



## 4.5.5 Tools

You can use additional tools to execute certain system operations and view the firmware version.

### Additional Tools

In this section you can set the additional tools

#### Host Settings

In this section you can determine a hostname and camera name for identification.

Host Name

#### Auto Reboot Setup

In this section you can set the system's auto reboot time.

Enable

Day Interval  days

RebootTime  :

#### Firmware Update

In this section you can see firmware version.

#### System Settings

Restore to factory default settings

Restore to factory default settings(Except network)

#### Internal Temperature

Internal Temperature Normal Range: 0°C ~ 95°C "(32°F ~ 203°F)"

#### Reboot

Do you wish to reboot now?

Figure 4-22

**[Host Settings]** Enter a descriptive name for GV-CS1320.

**[Auto Reboot Setup]** Select **Enable** to activate automatic reboot and specify the time for reboot in the sub fields.

- **Day Interval:** Type the day interval between each automatic reboot.
- **Reboot Time:** Use the dropdown lists to specify the time for automatic reboot.

**[Firmware Update]** Displays the firmware version of GV-CS1320.

## 4.5.5 工具

您可以使用附加工具执行某些系统操作并查看固件版本。

**附加工具**

在本节中，您可以设置附加工具

---

**主机设置**

在本节中，您可以确定用于识别的主机名和摄像头名称。

主机名 GV-CS1320

应用

---

**自动重启设置**

在本节中，您可以设置系统的自动重启时间。

启用

天间隔 1 天

重启时间 00 : 00

应用

---

**固件更新**

在本节中，您可以查看固件版本。

v1.00 2015-12-03 (128 MB)

---

**系统设置**

恢复出厂默认设置加载默认

恢复出厂默认设置（除网络外）加载默认

---

**内部温度**

内部温度正常范围：0 °C - 95 °C " (32 °F - 203 °F) "

---

**重启**

您是否希望立即重启？ 重启

图 4-22

**[主机设置]**输入 GV-CS1320 的描述性名称。

**[自动重启设置]**选择启用以激活自动重启，并在子字段中指定重启时间。

- **天间隔：**输入每次自动重启之间的天数间隔。
- **重启时间：**使用下拉列表指定自动重启的时间。

**[固件更新]**显示 GV-CS1320 的固件版本。

**[System Settings]**

Clicking the first **Load Default** button will restore GV-CS1320 to factory default settings.

Clicking the second **Load Default** button will restore GV-CS1320 to factory default settings (Except network).

---

**Note:** After clicking the first default function, you will need to configure the camera access controller's network setting again.

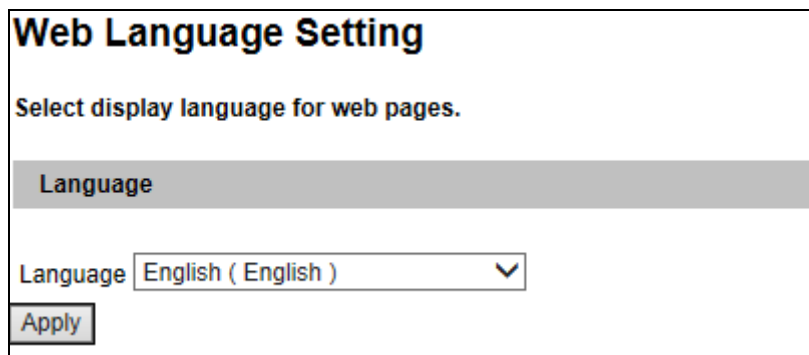
---

**[Internal Temperature]** Displays the chipset temperature inside GV-CS1320.

**[Reboot]** Click the **Reboot** button will make GV-CS1320 perform the software reset.

## 4.5.6 Language

You can select the language for the Web interface. By default, the language on the Web interface will be the same with the one used for the operating system.



**Web Language Setting**

Select display language for web pages.

**Language**

Language

Figure 4-23

### [系统设置]

点击第一个**加载默认**按钮将恢复 GV-CS1320到出厂默认设置。

点击第二个**加载默认**按钮将恢复 GV-CS1320到出厂默认设置  
(除网络外)。

---

注意：点击第一个默认功能后，您需要重新配置摄像头访问控制器的网络设置。

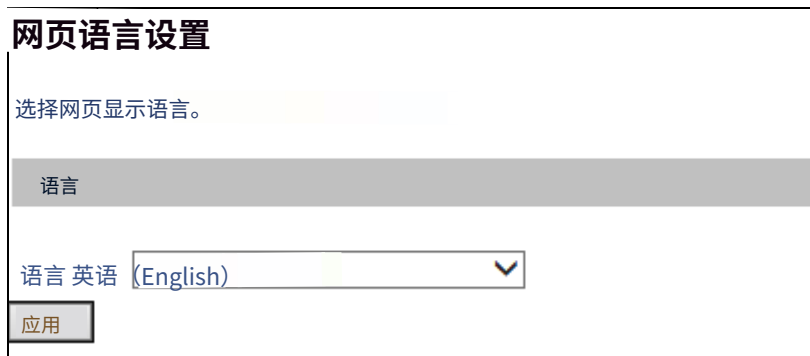
---

[内部温度]显示 GV-CS1320内部的芯片温度。

[重启]点击重启按钮将使 GV-CS1320 执行软件重置。

## 4.5.6 语言

您可以选择网页界面的语言。默认情况下，网页界面的语言将与操作系统使用的语言相同。



网页语言设置

选择网页显示语言。

语言

语言 英语 (English) ▼

应用

图 4-23

## 4.6 SIP

SIP (Session Initiation Protocol) is an IP telephony signaling protocol for Voice over Internet Protocol (VoIP) calls. On the setting page, you can connect to a SIP server and configure VoIP services. GV-CS1320 can then place a call to the security staff with an IP phone or a computer with VoIP software. Through VoIP, the security staff can communicate with visitors and enter an access code to open the door.

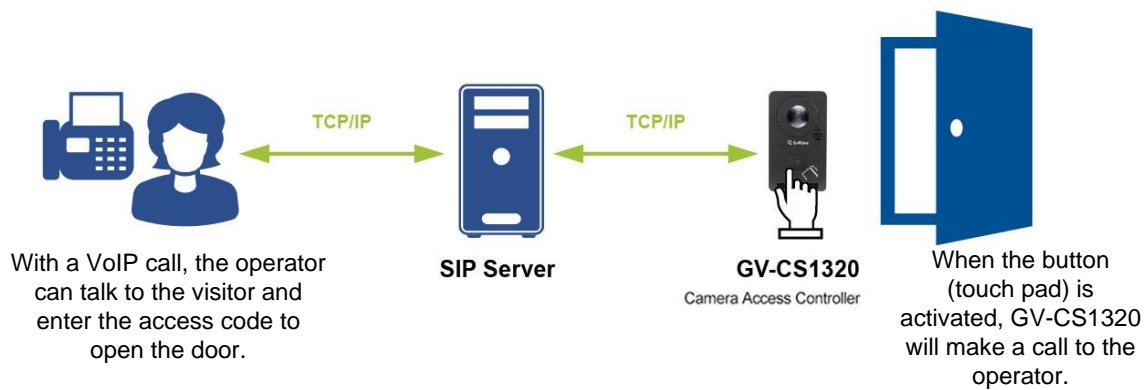


Figure 4-24

**Note:** SIP is supported by GV-CS1320 V1.11 or later.

SIP	
<b>SIP Setting.</b>	
<input checked="" type="checkbox"/> Enable	
<b>SIP Server Setting</b>	
User Name	<input type="text" value="100"/>
Password	<input type="text" value="***"/>
SIP Server Address	<input type="text" value="192.168.5.120"/>
SIP Server Port	<input type="text" value="5060"/>
<input checked="" type="radio"/> UDP <input type="radio"/> TCP <input type="radio"/> TLS	
<b>SIP Outgoing Call Setting</b>	
<input checked="" type="checkbox"/> Enable Alternate	
Primary Outgoing Call SIP Name	<input type="text" value="103"/> (Extension)
Alternate Outgoing Call SIP Name	<input type="text" value="101"/>
Alternate Outgoing Call SIP Name	<input type="text" value="102"/>
<b>SIP Incoming Call Setting</b>	
<input type="checkbox"/> Decline	
<b>SIP Video Setting</b>	
<input checked="" type="checkbox"/> Enable Video	
<b>SIP Access Code</b>	
<input type="checkbox"/> Enable Access Code	
Access Code	<input type="text" value="1234"/> (Maximum 4 digits)
<input type="button" value="Apply"/>	

Figure 4-25

## 4.6 SIP

SIP（会话发起协议）是一种用于互联网协议（VoIP）电话呼叫的IP电话信令协议。在设置页面，您可以连接到SIP服务器并配置VoIP服务。GV-CS1320可以通过IP电话或带有VoIP软件的计算机拨打安全人员的电话。通过VoIP，安全人员可以与访客进行沟通，并输入访问代码以打开门。

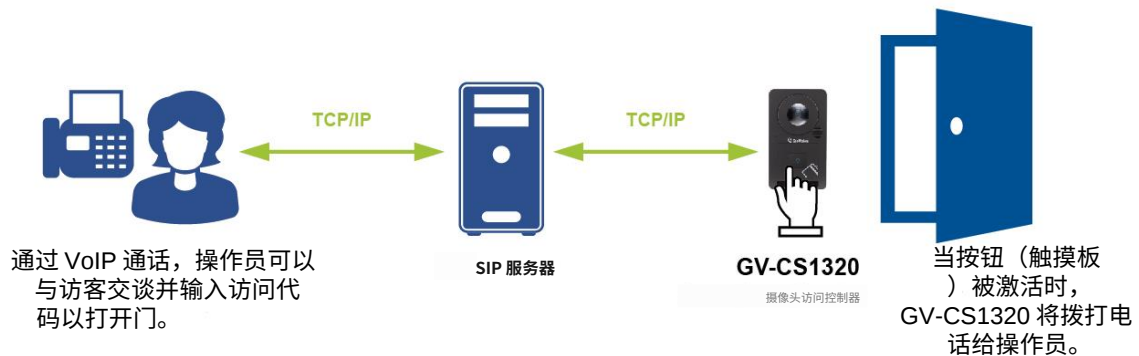


图 4-24

注意:GV-CS1320 V1.11 或更高版本支持 SIP。

### SIP

SIP 设置。

启用

---

**SIP 服务器设置**

用户名

密码

SIP 服务器地址

SIP 服务器端口

UDP  顶部  TLS

---

**SIP 外拨设置**

启用备用

主外拨 SIP 名称 103  (扩展)

备用外拨 SIP 名称 101

备用外拨 SIP 名称 102

---

**SIP 来电设置**

拒绝

---

**SIP 视频设置**

启用视频

---

**SIP 访问码**

启用访问码

访问码 1234  (最多 4 位数字)

图 4-25

**[SIP Server Setting]**

Select **Enable** to apply the following setting:

- **User Name:** Type the phone number of GV-CS1320 registered on SIP Server.
- **Password:** Type the password of GV-CS1320 registered on SIP Server.
- **SIP Server Address:** Type the IP Address of SIP Server.
- **SIP Server Port:** Type the SIP Server's port number or keep the default value 5060. The default port type is UDP. Change the port type if necessary.

**[SIP Outgoing Call Setting]**

Select **Enable Alternate** to allow GV-CS1320 to make phone calls to at most three phone numbers registered on SIP server. If unanswered, GV-CS1320 will automatically forward the call to the next two phone numbers.

- **Primary Outgoing Call SIP Name:** Type the first phone number for GV-CS1320 to call.
- **Alternate Outgoing Call SIP Name:** Type the second phone number for GV-CS1320 to call.
- **Alternate Outgoing Call SIP Name:** Type the third phone number for GV-CS1320 to call.

**[SIP Incoming Call Setting]**

Select **Decline** to reject phone calls from SIP server to GV-CS1320.

**[SIP Video Setting]**

Click **Enable Video** to receive video calls so the security staff can watch video streaming of GV-CS1320.

**[SIP Access Code]**

Click **Enable Access Code** so that the security staff can take the phone call and enter an access code to open the door.

- **Access Code:** Type at most 4 digits to be the access code of the door.

### [SIP 服务器设置]

选择启用以应用以下设置：

- **用户名：**输入在 SIP 服务器上注册的 GV-CS1320 的电话号码。
- **密码：**输入在 SIP 服务器上注册的 GV-CS1320 的密码。
- **SIP 服务器地址：**输入 SIP 服务器的 IP 地址。
- **SIP 服务器端口：**输入 SIP 服务器的端口号或保持默认值 5060。  
默认端口类型为 UDP。如有必要，请更改端口类型。

### [SIP 外拨设置]

选择**启用备用**以允许 GV-CS1320 拨打最多三个在 SIP 服务器上注册的电话号码。如果无人接听，GV-CS1320 将自动将电话转接到接下来的两个电话号码。

- **主要外拨 SIP 名称：**输入 GV-CS1320 要拨打的第一个电话号码。
- **备用外拨 SIP 名称：**输入 GV-CS1320 要拨打的第二个电话号码。
- **备用外拨电话 SIP 名称：**输入 GV-CS1320 要拨打的第三个电话号码。

### [SIP 来电设置]

选择**拒绝**以拒绝从 SIP 服务器到 GV-CS1320 的电话。

### [SIP 视频设置]

点击**启用视频**以接收视频通话，以便安全人员可以观看 GV-CS1320 的视频流。

### [SIP 访问代码]

点击**启用访问代码**以便安保人员可以接听电话并输入访问代码以打开门。

- **访问代码：**输入最多 4 位数字作为门的访问代码。



## Chapter 5 Advanced Applications

This chapter introduces more advanced applications.

### 5.1 Upgrading System Firmware

GeoVision periodically releases the updated firmware on the website. The new firmware can be simply loaded into GV-CS1320 using its Web interface or GV-IP Device Utility download from GeoVision's [website](#).

#### Important Notes before You Start

Before you start updating the firmware, please read these important notes:

1. Stop the connection to GV-DVR / NVR / VMS.
2. Stop all the remote connections, including RTSP.
3. While the firmware is being updated, the power supply and network connection must not be interrupted.

---

**WARNING:** The interruption of power supply during updating causes not only update failures but also damages to your camera access controller. In this case, please contact your sales representative and send your device back to GeoVision for repair.

---

4. If firmware upgrade fails, you will need to restore GV-CS1320 to the default settings. For details, see *5.3 Restoring to Factory Default Settings* in the User's Manual.

## 第 5 章 高级应用

本章介绍更多高级应用。

### 5.1 升级系统固件

GeoVision 定期在网站上发布更新的固件。新固件可以通过其网页界面或从 GeoVision 的[网站](#)下载的 GV-IP 设备工具简单加载到 GV-CS1320 中。

---

#### 开始之前的重要说明

在开始更新固件之前，请阅读以下重要说明：

1. 停止与 GV-DVR / NVR / VMS 的连接。
2. 停止所有远程连接，包括 RTSP。
3. 在固件更新期间，电源和网络连接必须保持不间断。

---

**警告:**在更新期间中断电源不仅会导致更新失败，还会损坏您的摄像头访问控制器。在这种情况下，请联系您的销售代表并将设备寄回 GeoVision 进行维修。

---

4. 如果固件升级失败，您需要将 GV-CS1320 恢复到默认设置。有关详细信息，请参见 5.3 恢复出厂默认设置在用户's 手册中。

### 5.1.1 Using the Web Interface

1. In the Live View window, click the **Show System Menu** button (No. 8, Figure 3-4) and select **Remote Config**. This dialog box appears.

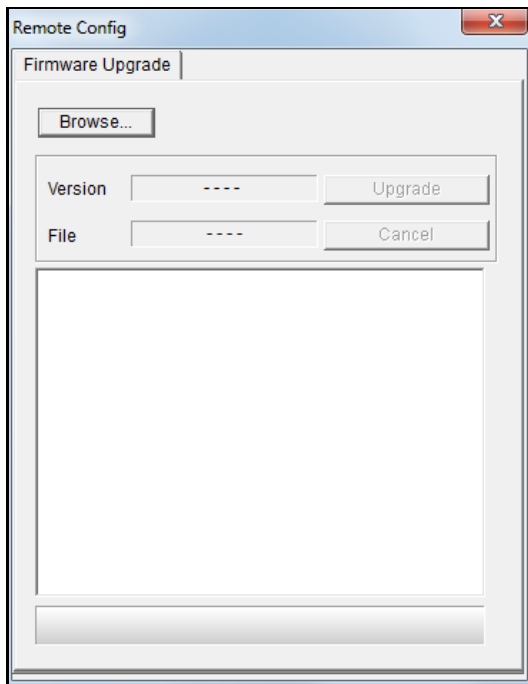


Figure 5-1

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.

### 5.1.1 使用网页界面

- 1.在实时查看窗口中，点击**显示系统菜单**按钮（第 8 项，图 3-4）并选择**远程配置**。此对话框将出现。

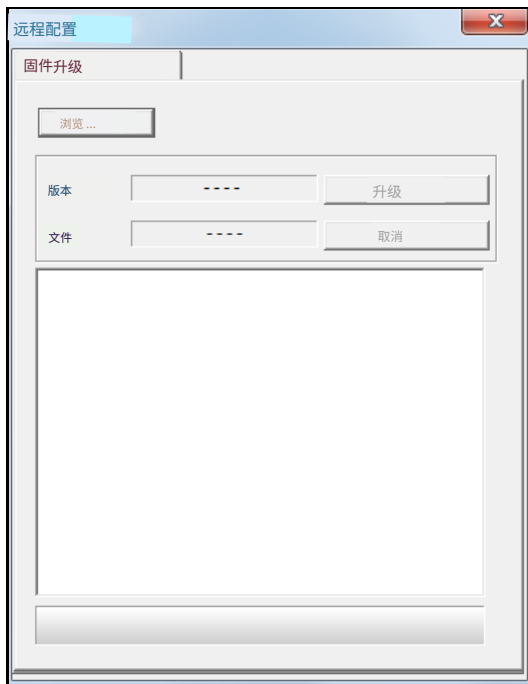



图 5-1

- 2.点击浏览按钮以定位保存在本地计算机上的固件文件 (.img)。
- 3.点击升级按钮以进行升级处理。

## 5.1.2 Using the IP Device Utility

GV-IP Device Utility provides a direct way to upgrade the firmware for multiple IP devices. Note the computer used to upgrade firmware must be under the same network as the IP devices.

1. Download and install GV-IP Device Utility from our [website](#).
2. On the GV-IP Utility window, click the  button to search for the IP devices connected under the same LAN. Click the **Name** or **Mac Address** column to sort.
3. Double-click a GV-CS1320 in the list to bring up a dialog box, and click the **Firmware Upgrade** tab. This dialog box appears.

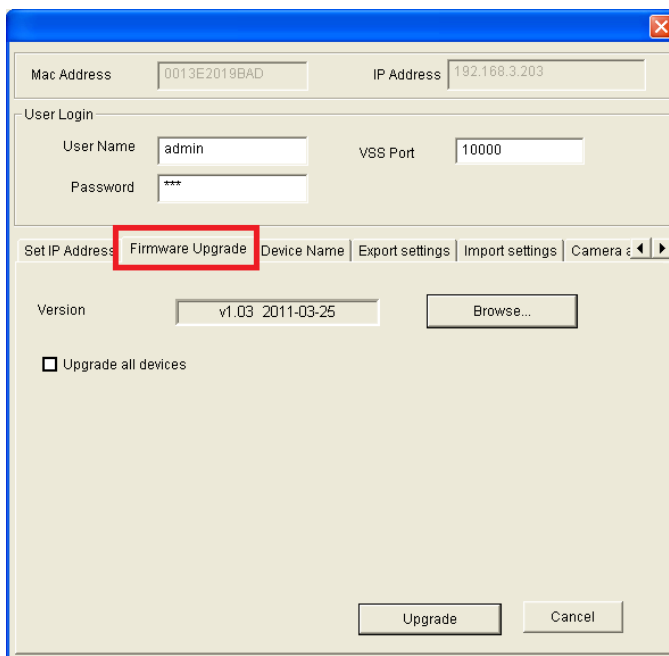


Figure 5-2

4. Click the **Browse** button to locate the firmware file (.img) saved at your local computer.
5. If you would like to upgrade all cameras / camera access controllers of the same model in the list, check **Upgrade all devices**.
6. Type **Password**, and click **Upgrade** to process the upgrade.

## 5.1.2 使用 IP 设备工具

GV-IP 设备工具提供了一种直接方式来升级多个 IP 设备的固件。  
请注意，用于升级固件的计算机必须与 IP 设备在同一网络下。

1. 从我们的网站下载并安装 GV-IP 设备工具。
2. 在 GV-IP 工具窗口中，点击按钮以搜索连接在同一局域网下的 IP 设备。点击名称或 MAC 地址列进行排序。
3. 双击列表中的 GV-CS1320 以弹出对话框，然后点击**固件升级**tab。该对话框将出现。

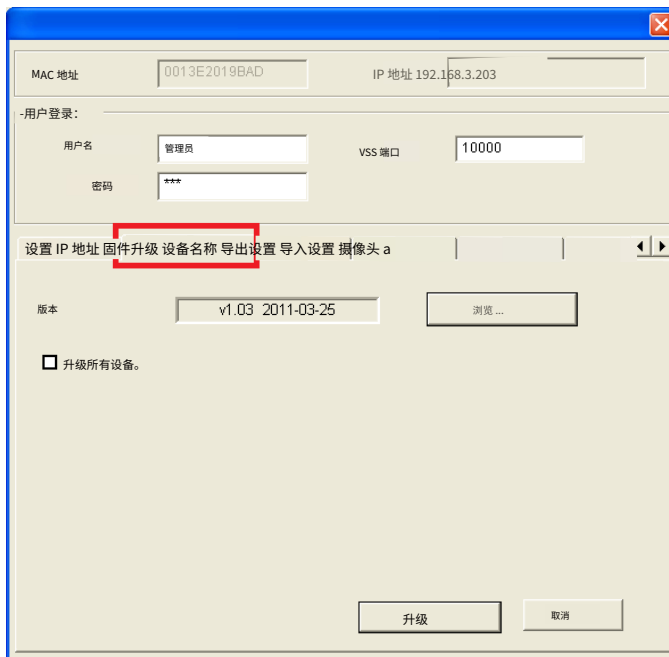


图 5-2

4. 点击浏览按钮以定位保存在本地计算机上的固件文件 (.img)。
5. 如果您想升级列表中同一型号的所有摄像头/摄像头访问控制器，请勾选**升级所有设备**。
6. 输入密码，然后点击升级以进行升级处理。

## 5.2 Backing Up and Restoring Settings

With GV-IP Device Utility, you can back up the configurations in GV-CS1320, and restore the backup data to the current unit or import it to another unit.

### 5.2.1 Backing Up the Settings

1. Run GV-IP Device Utility and locate a GV-CS1320. See Steps 1-2 in *5.1.2 Using the IP Device Utility*.
2. Double-click a GV-CS1320 in the list to bring up a dialog box, and click the **Export Settings** tab. This dialog box appears.

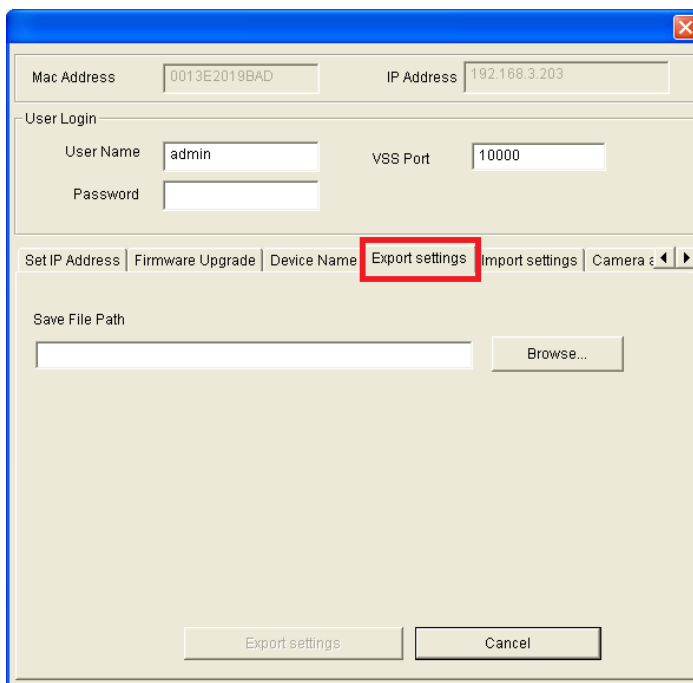


Figure 5-3

3. Click the **Browse** button to assign a file path.
4. Type the **Password**, and click **Export Settings** to save the backup file.

## 5.2 备份和恢复设置

使用 GV-IP 设备工具，您可以备份 GV-CS1320 的配置，并将备份数据恢复到当前设备或导入到另一台设备。

### 5.2.1 备份设置

1. 运行 GV-IP 设备工具并找到 GV-CS1320。请参见 5.1.2 使用 IP 设备工具中的步骤 1-2。

2. 双击列表中的 GV-CS1320 以弹出对话框，然后单击**导出设置** tab。该对话框将出现

。

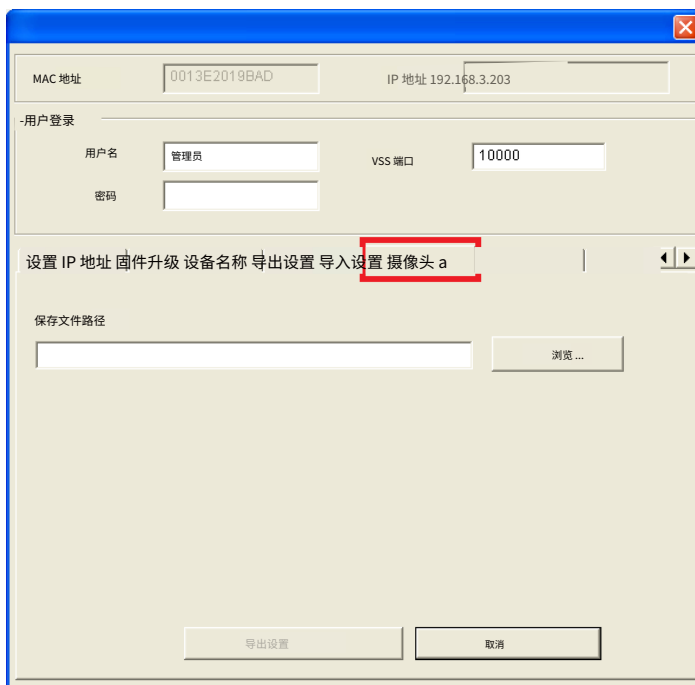


图 5-3

3. 点击浏览按钮以指定文件路径。

4. 输入密码，然后单击**导出设置**以保存备份文件。



## 5.2.2 Restoring the Settings

1. In Figure 5-3, click the **Import Settings** tab. This dialog box appears.

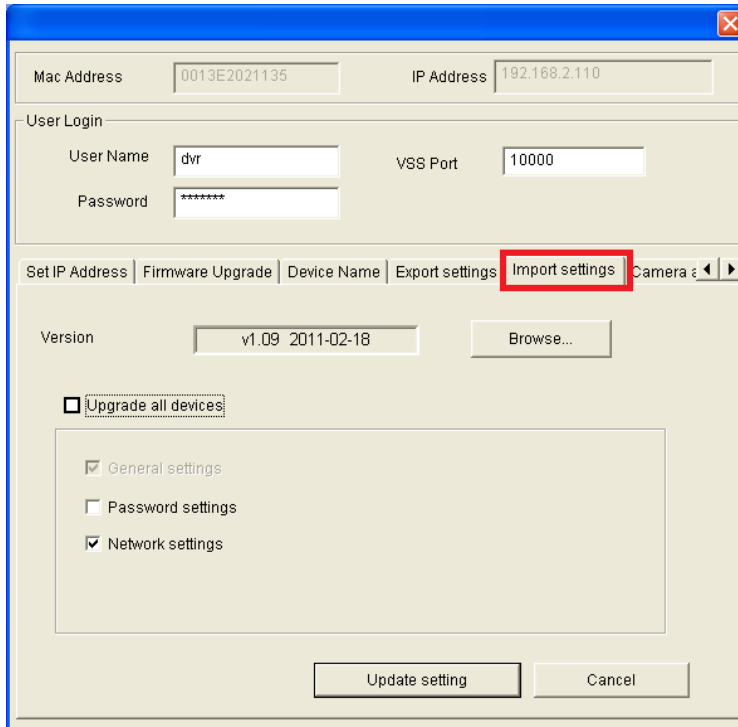


Figure 5-4

2. Click the **Browse** button to locate the exported file (.dat).
3. Select **Upgrade all devices** to apply the settings to all devices of the same model in the same LAN. To import password settings and/or network settings, select **Password Settings** and/or **Network settings**.
4. Click the **Update Settings** button to start restoring.

## 5.2.2 恢复设置

1. 在图 5-3 中，点击**导入设置**tab。此对话框出现。

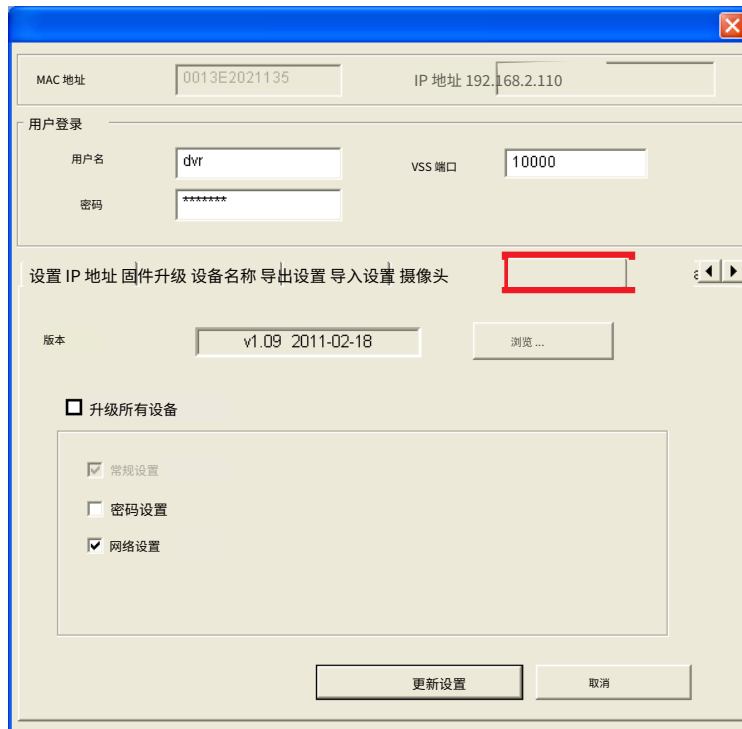


图 5-4

2. 点击**浏览**按钮以定位导出的文件 (.dat)。

3. 选择**升级所有设备**以将设置应用于同一局域网中同一型号的所有设备。要导入密码设置和/或网络设置，请选择**密码设置**和/或**网络设置**。

4. 点击**更新设置**按钮以开始恢复。

## 5.3 Restoring to Factory Default Settings

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

To restore to default settings 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.

To restore to default settings directly on the camera access controller:

1. Unplug the power cable.
2. Use a pointy object such as the tip of a pen to hold down the **Load default** button (No. 7, Figure 1-5) 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.

## 5.3 恢复出厂默认设置

您可以通过网页界面或直接在摄像头上恢复 GV-CS1320 到出厂默认设置。

要通过网页界面恢复到默认设置：

1. 在左侧菜单中，选择管理并选择工具。
2. 在**系统设置**部分，点击**加载默认按钮**。

要直接在摄像头访问控制器上恢复到默认设置：

1. 拔掉电源线。
2. 使用尖锐物体（如笔尖）按住**加载默认按钮**（图1-5中的第7号）同时插入电源线。
3. 等待状态LED闪烁两次后释放**加载默认按钮**。该过程  
takes about 5 seconds.

## 5.4 Verifying Watermark

The watermark is an encrypted and digital signature embedded in the video stream during the compression stage, protecting the video from the moment of its creation. Watermarking ensures that an image is not edited or damaged after it is recorded. To enable the watermark function, see [Watermark], 4.1.1 *Video Settings*.

The **Watermark Proof** is a watermark-checking program. It can verify the authenticity of the recording before you present it in court.

### 5.4.1 Accessing AVI Files

To verify watermark, first you have to access the recorded AVI files by one of these methods:

1. Use the **File Save** function on the Live View window (No. 6, Figure 3-4) to start recording on the local computer.

### 5.4.2 Running Watermark Proof

1. Install **Watermark Proof** from the Software DVD. After installation, a **WMPProof** icon is created on your desktop.
2. Double-click the created icon. The Water Mark Proof window appears.
3. Click **File** from the menu bar and select **Open** and locate the recording (.avi). The selected recording is then listed on the window. Alternatively, you can drag the recording directly from the storage folder to the window.
4. If the recording is unmodified, a check will appear in the **Pass** column. On the contrary, if the recording is modified or does not contain watermark during recording, a check mark will appear in the **Failed** column. To review the recording, double-click the listed file on the window.

## 5.4 验证水印

水印是嵌入在视频流中的加密数字签名，在压缩阶段保护视频，从创建之时起。水印确保图像在录制后未被编辑或损坏。要启用水印功能，请参见[水印]， 4.1.1 视频设置。

水印证明是一个水印检查程序。它可以在您在法庭上出示录音之前验证录音的真实性。

### 5.4.1 访问AVI文件

要验证水印，首先您必须通过以下方法之一访问录制的AVI文件：

1. 在实时查看窗口（第6项，图3-4）上使用文件保存功能以开始在本地计算机上录制。

### 5.4.2 运行水印证明

1. 从软件DVD安装**水印证明**。安装后，桌面上会创建一个 **WMPProof**图标。
2. 双击创建的图标。水印证明窗口将出现。
3. 从菜单栏中点击文件，选择打开并找到录制文件（.avi）。所选录制文件将列在窗口中。或者，您可以直接将录制文件从存储文件夹拖到窗口中。
4. 如果录制文件未被修改，则在通过列中会出现一个勾选。相反，如果录制文件被修改或在录制过程中不包含水印，则在失败列中会出现一个勾选。要查看录制内容，请双击窗口中列出的文件。

### 5.4.3 The Watermark Proof Window

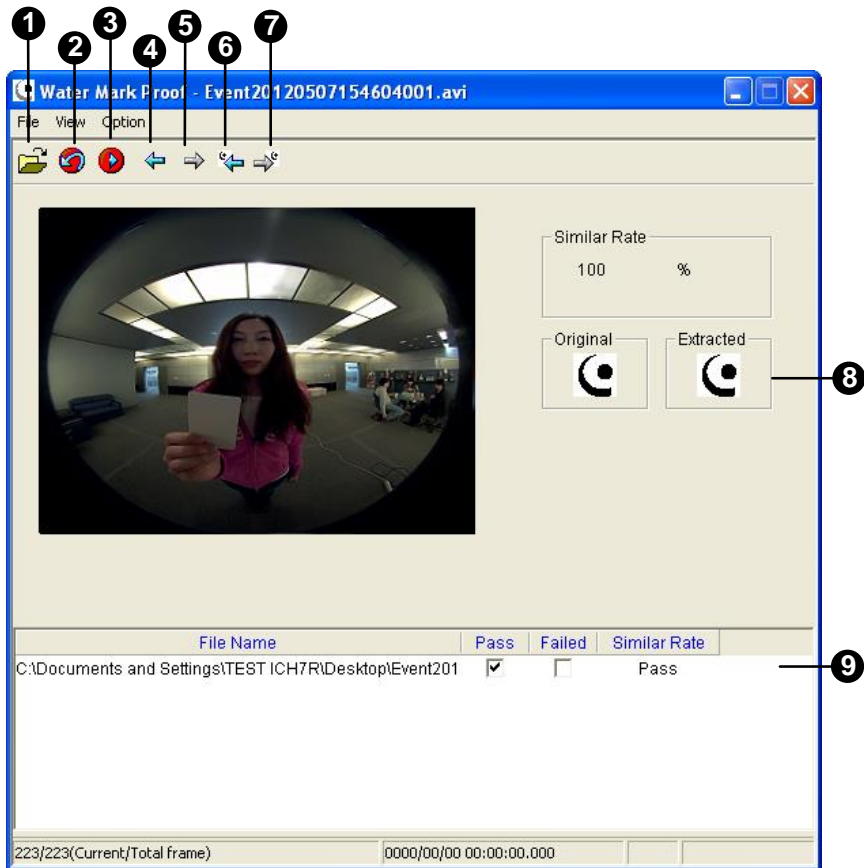


Figure 5-5

The controls in the window:

No.	Name	Description
1	Open File	Opens the recorded file.
2	First Frame	Goes to the first frame of the file.
3	Play	Plays the file.
4	Previous Frame	Goes to the previous frame of the file.
5	Next Frame	Goes to the next frame of the file.
6	Previous Watermarked Frame	Goes to the previous frame that contains watermark.
7	Next Watermarked Frame	Goes to the next frame that contains watermark.
8	Original vs. Extracted	The Extracted icon should be identical to the Original icon. If not, it indicates the recording has been tampered with.
9	File List	Displays the proof results.

## 5 .4.3 水印证明窗口

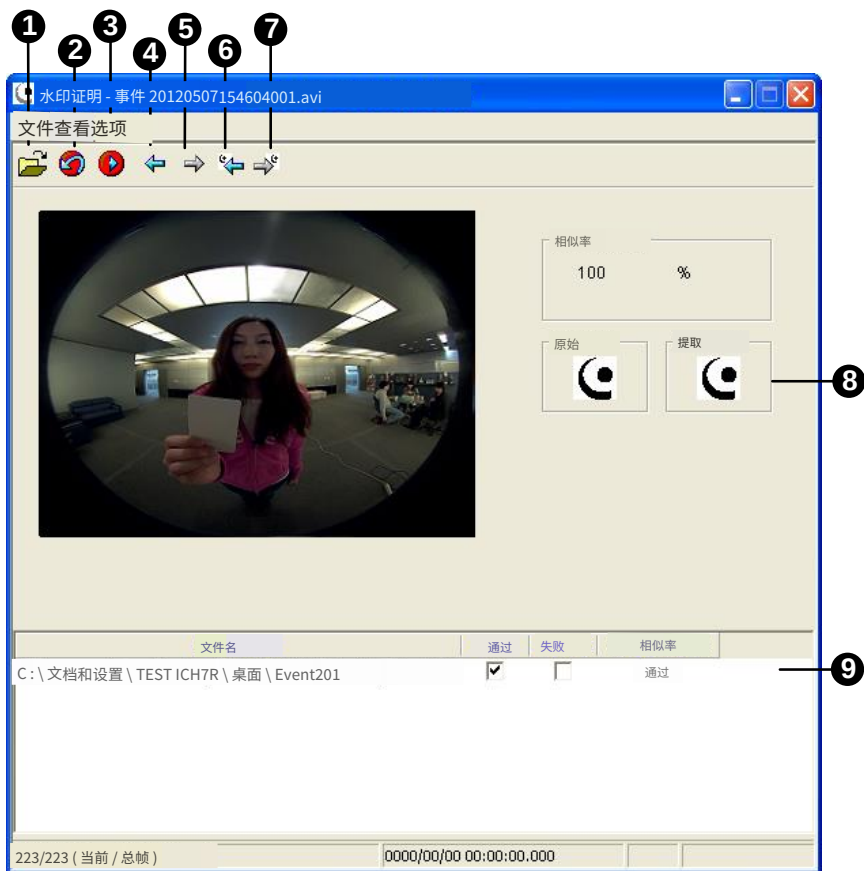


图 5-5

窗口中的控件：

否	名称	描述
1	打开文件	打开录制的文件。
2	第一帧	转到文件的第一帧。
3	播放	播放文件。
4	上一帧	转到文件的上一帧。
5	下一帧	转到文件的下一帧。
6	上一水印帧	转到包含水印的上一帧。
7	下一水印帧	转到包含水印的下一帧。
8	原始与提取	提取的图标应与原始图标完全相同。如果不是，这表明录音已被篡改。
9	文件列表	显示证据结果。



## Chapter 6 GV-DVR / NVR / VMS Configurations

GV-DVR / NVR / VMS provide a complete video management, such as video viewing, recording, playback, alert settings and more. The integration specifications are listed below:

1. GV-CS1320 is compatible with GV-DVR / NVR V8.6.2.0 with patch or later.
2. GV-CS1320 is compatible with GV-VMS V15.10.
3. The maximum number of streams supported by GV-CS1320 is **8 (for firmware V3.00 or later)**. When GV-CS1320 is connected to IE browser or any other applications, it takes up **1** stream. When GV-CS1320 is connected to GV-DVR / NVR / GV-VMS, it takes up **2** streams.

<b>Maximum number of connection streams</b>	8
<b>Connection from GV-DVR / NVR / VMS</b>	Takes up 2 streams
<b>Connection to GV-ASManager</b>	Takes up 3 streams
<b>Connection to GV-ASRemote</b>	Takes up 1 stream
<b>Connection to GV-ASNotify</b>	Takes up 1 stream
<b>Connection to GV-CS1320 Web interface</b>	Takes up 1 stream
<b>Connection to GV-Access mobile app</b>	Takes up 1 stream

**Note:**

1. The above maximum number of streams are based on the maximum resolution for the camera access controller and the codec H.264.
2. By default, GV-CS1320 is in dual streams and will take up 2 streams when connected to GV-DVR / NVR / GV-VMS.

## 第 6 章 GV-DVR / NVR / VMS 配置

GV-DVR / NVR / VMS 提供完整的视频管理，如视频查看、录制、回放、警报设置等。集成规格如下所示：

1. GV-CS1320 兼容 GV-DVR / NVR V8.6.2.0 及补丁或更高版本。
2. GV-CS1320 与 GV-VMS V15.10 兼容。
3. GV-CS1320 支持的最大流数量为 **8**（适用于固件 V3.00 或更高版本）。当 GV-CS1320 连接到 IE 浏览器或其他应用程序时，它占用 **1**个流。当 GV-CS1320 连接到 GV-DVR / NVR / GV-VMS 时，它占用 **2**个流。

<b>最大连接流数量</b>	8
<b>来自 GV-DVR / NVR / VMS 的连接</b>	占用 2 个流
<b>连接到 GV-ASManager</b>	占用 3 个流
<b>连接到 GV-ASRemote</b>	占用 1 个流
<b>连接到 GV-ASNotify</b>	占用 1 个流
<b>连接到 GV-CS1320 网页界面</b>	占用 1 个流
<b>连接到 GV-Access 移动应用</b>	占用 1 个流

### 注意：

1. 上述最大流数量基于摄像头访问控制器的最大分辨率和 H.264 编解码器。
2. 默认情况下，GV-CS1320 处于双流模式，连接到 GV-DVR / NVR / GV-VMS 时将占用 2 个流。

## 6.1 Setting up GV-CS1320 on GV-DVR / NVR

To set up GV-CS1320 and receive live view on GV-DVR / NVR, follow these steps:

1. On the main screen, click the **Configure** button, select **System Configure**, select **Camera Install** and click **IP Camera Install**. This dialog box appears.

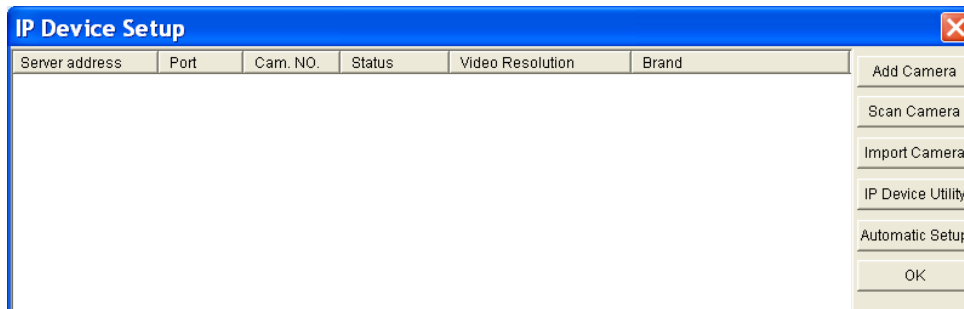


Figure 6-1

- To automatically set up GV-CS1320, click **Scan Camera** to detect any GV-IP devices on the LAN.
  - To manually set up GV-CS1320, click **Add Camera**. Follow steps 2 to 7.
2. Click **Add Camera**. This dialog box appears.

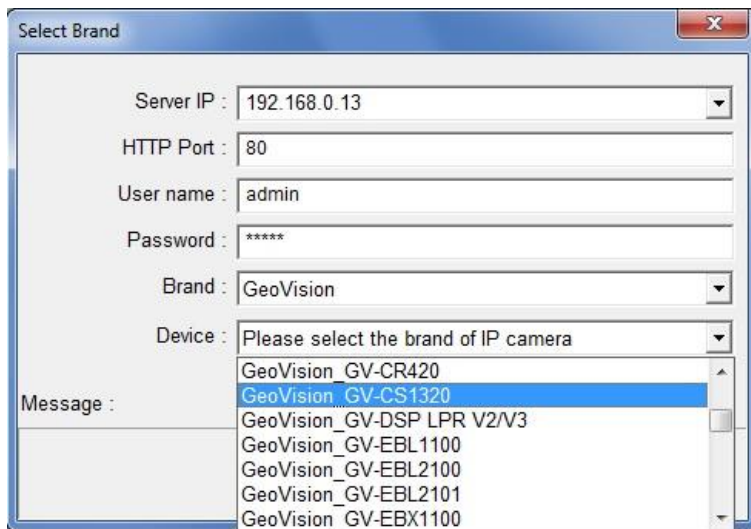


Figure 6-2

3. Type the IP address, username and password of GV-CS1320. Modify the default HTTP port if necessary. Select **GeoVision** from the **Brand** dropdown list and select the model from the **Device** dropdown list. This dialog box appears.

## 6.1 在 GV-DVR / NVR 上设置 GV-CS1320

要设置 GV-CS1320 并在 GV-DVR / NVR 上接收实时查看，请按照以下步骤操作：

1. 在主屏幕上，点击配置按钮，选择**系统配置**，选择**摄像头安装**并点击**IP 摄像头安装**。将出现此对话框。



图 6-1

- 要自动设置 GV-CS1320，请点击**扫描摄像头**以检测局域网中的任何 GV-IP 设备。
- 要手动设置 GV-CS1320，请点击**添加摄像头**。请按照步骤 2 到 7。

2. 点击**添加摄像头**。将出现此对话框。

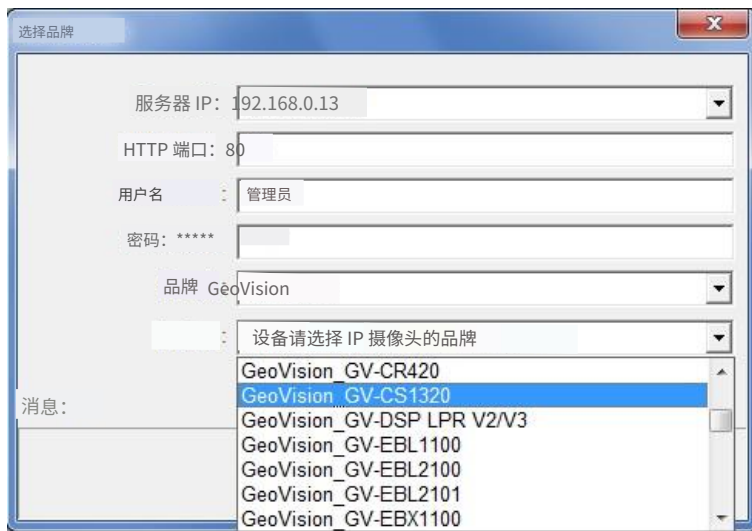


图 6-2

3. 输入 GV-CS1320 的 IP 地址、用户名和密码。如有必要，修改默认的 HTTP 端口。从品牌下拉列表中选择 **GeoVision**，并从设备下拉列表中选择型号。此对话框将出现。

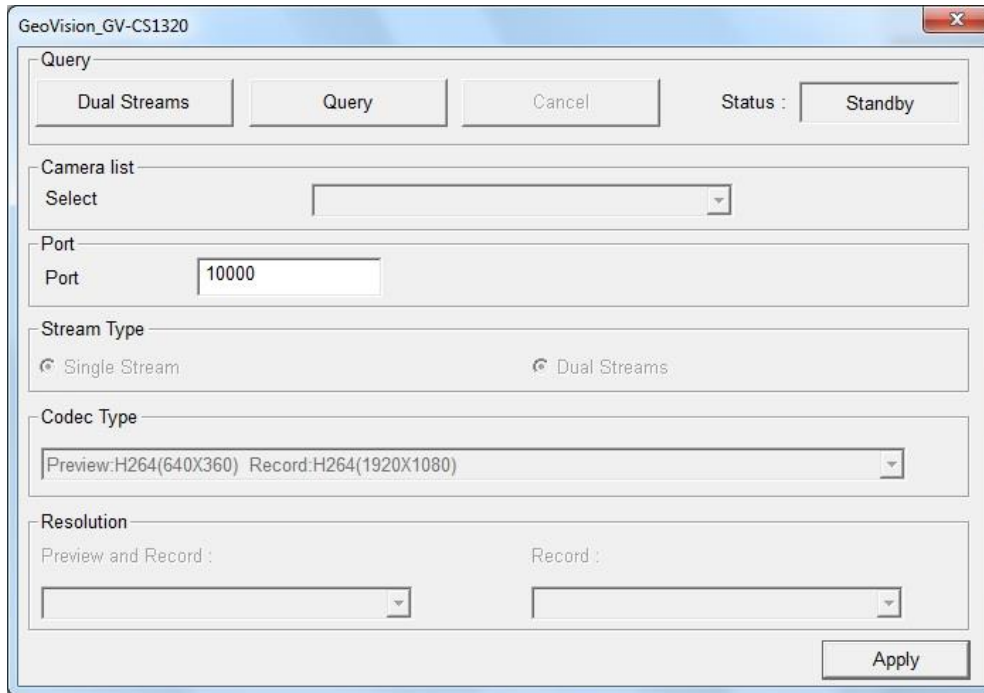


Figure 6-3

4. Click **Query** to acquire the information from GV-CS1320. The video streaming port should match the VSS port on GV-CS1320. The default port number is 10000.
5. Click **Apply**. GV-CS1320 is added to the connection list.
6. Click the listed camera access controller and select **Display position** to map the IP camera access controller to a channel on GV-DVR / NVR.

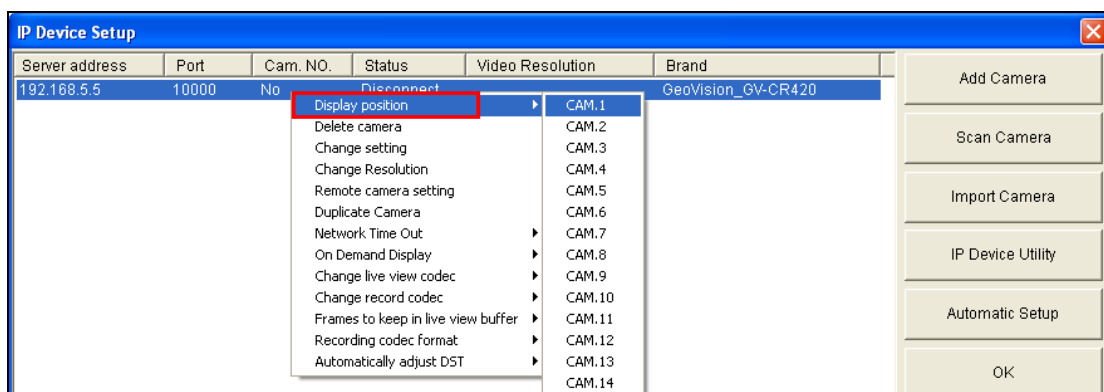


Figure 6-4

7. The Statue column should display “Connected”. Click **OK**.

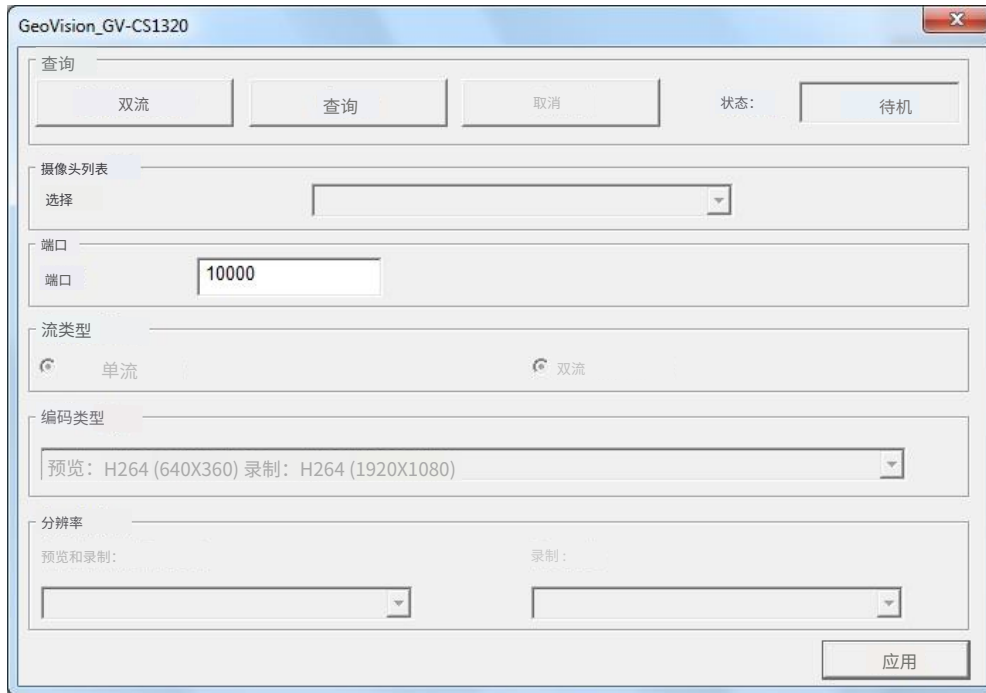


图 6-3

4. 点击查询以从 GV-CS1320 获取信息。视频流端口应与 GV-CS1320 上的 VSS 端口匹配。默认端口号为 10000。
5. 点击应用。GV-CS1320 已添加到连接列表。
6. 点击列出的摄像头访问控制器并选择**显示位置**以将 IP 摄像头访问控制器映射到 GV-DVR / NVR 的一个通道。



图 6-4

7. 状态列应显示“连接”。点击确定。

### 6.1.1 Customizing the Basic Settings

After GV-CS1320 is connected and assigned with a display position, you can configure GV-CS1320's settings such as frame rate, codec type and resolution. Right-click the desired camera access controller to see the following list of options:

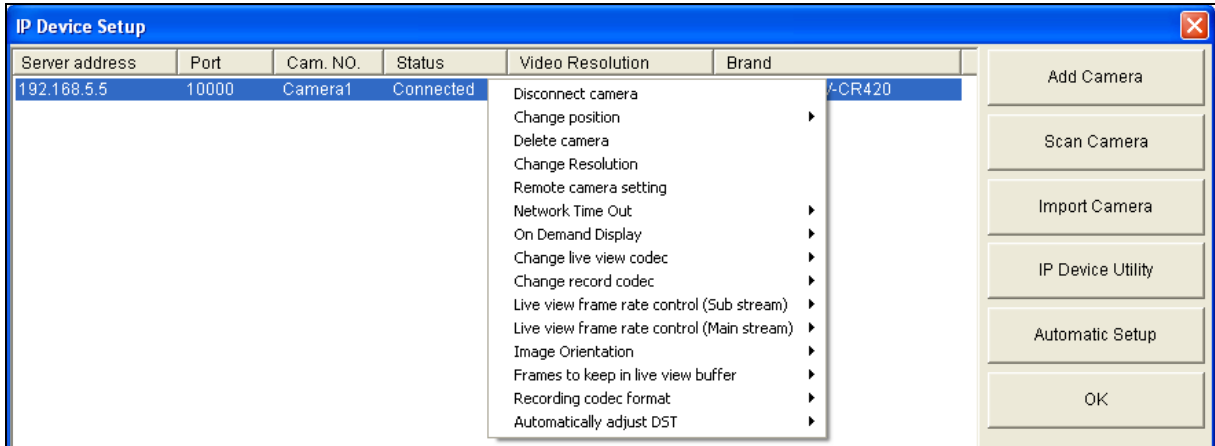


Figure 6-5

- **Remote Camera Setting:** Accesses the configuration interface of the connected device.
- **Network Time Out:** When network disconnection exceeds the specified time period, the camera status will be displayed as Connection Lost.
- **On Demand Display:** Enable automatic adjustment of live view resolution. Refer to the *On Demand Display* section in *DVR User's Manual* for more details.
- **Change live view codec:** Changes the code type of the live view.
- **Change record codec:** Change the codec type to record in.
- **Live view frame rate control (Sub stream):** Sets the live view of the sub stream to help reduce the CPU usage. If you have set the live view codec to be MJPEG, select the number of frames to allow in a second. If the live view codec selected is H.264, select one of the following options:
  - ⊙ **Maximum Live-view Frame Rate:** View the video at the maximum frame rate possible.
  - ⊙ **Live-view Key Frame only:** You can choose to view the key frames of the videos only instead of all frames on the live view. This option is related to the GOP setting of the IP camera. For example, if the GOP value is set to 30, there is only one key frame among 30 frames.

### 6.1.1 自定义基本设置

在连接并分配显示位置后，您可以配置 GV-CS1320的设置，例如帧率、编解码器类型和分辨率。右键单击所需的摄像头访问控制器以查看以下选项列表：

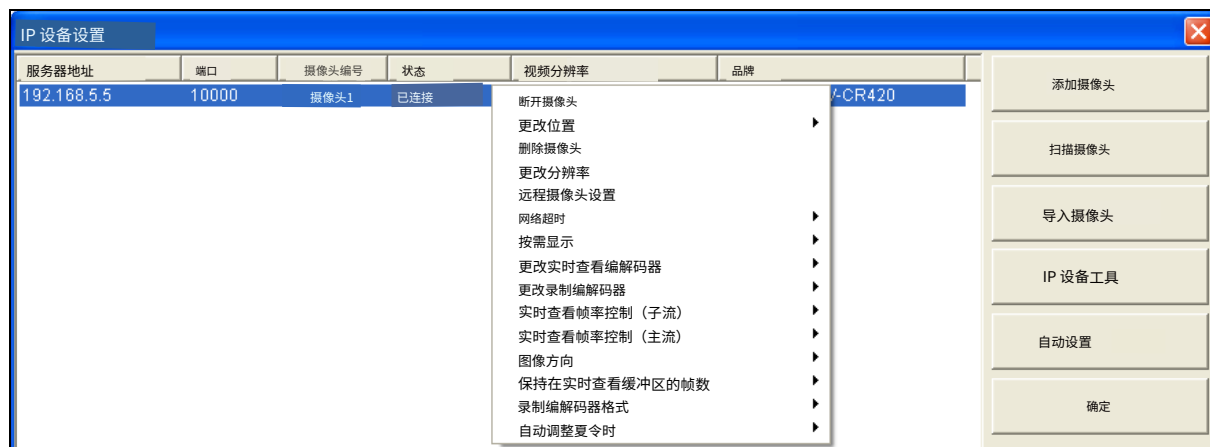


图 6-5

- **远程摄像头设置：**访问连接设备的配置界面。
- **网络超时：**当网络断开连接超过指定时间段时，摄像头状态将显示为连接丢失。
- **按需显示：**启用实时查看分辨率的自动调整。有关更多详细信息，请参阅DVR用户手册中的按需显示部分。
- **更改实时查看编解码器：**更改实时查看的编码类型。
- **更改录制编解码器：**更改录制时的编解码器类型。
- **实时查看帧率控制（子流）：**设置子流的实时查看以帮助减少CPU使用率。如果您已将实时查看编解码器设置为MJPEG，请选择每秒允许的帧数。如果选择的实时查看编解码器为H.264，请选择以下选项之一：
  - **最大实时查看帧率：**以尽可能高的帧率查看视频。
  - **仅查看实时查看关键帧：**您可以选择仅查看视频的关键帧，而不是实时查看中的所有帧。此选项与IP摄像头的GOP设置相关。例如，如果GOP值设置为30，则在30帧中仅有一个关键帧。



- **Live view frame rate control (Main stream):** Sets the live view frame rate of the main stream with higher resolution when On Demand function is enabled. Refer to the sub stream setting above to see the options available.
- **Image Orientation:** You can adjust the image orientation by selecting **Normal**, **Horizontal Mirror**, **Vertical Flip** or **Rotate 180°**.
- **Frames to keep in live view buffer:** Specifies the number of frames to keep in the live view buffer.
- **Recording Codec Format:** Specifies whether to record in standard or GeoVision type of MJPEG H.264 codec.
- **Automatically Adjust DST:** If enabled, the time on the GV-IP device Web interface will be synchronized with the time of GV-DVR / NVR when DST period starts or ends on the GV-DVR / NVR.

- **实时查看帧率控制（主流）**：在启用按需功能时，设置主流的实时查看帧率，具有更高的分辨率。请参考上述子流设置以查看可用选项。
- **图像方向**：您可以通过选择正常、**水平镜像**、**垂直翻转**或**旋转180°**来调整图像方向。
- **实时查看缓冲区中保留的帧数**:指定在实时查看缓冲区中保留的帧数。
- **录制编码格式**:指定是以标准还是 GeoVision 类型的 MJPEG H.264 编码进行录制。
- **自动调整夏令时**:如果启用，GV-IP 设备网页界面上的时间将在夏令时开始或结束时与 GV-DVR / NVR 的时间同步。

## 6.2 Setting up GV-CS1320 on GV-VMS

Follow the steps below to manually connect your GV-CS1320 to GV-VMS.

1. To access the IP Device Setup page, click **Home** , select **Toolbar** , click **Configure**  and select **Camera Install**.

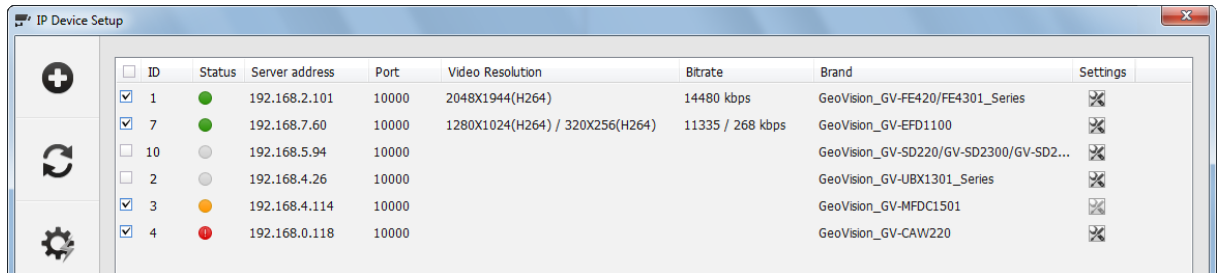


Figure 6-6

2. Click **Add Camera** . This dialog box appears.

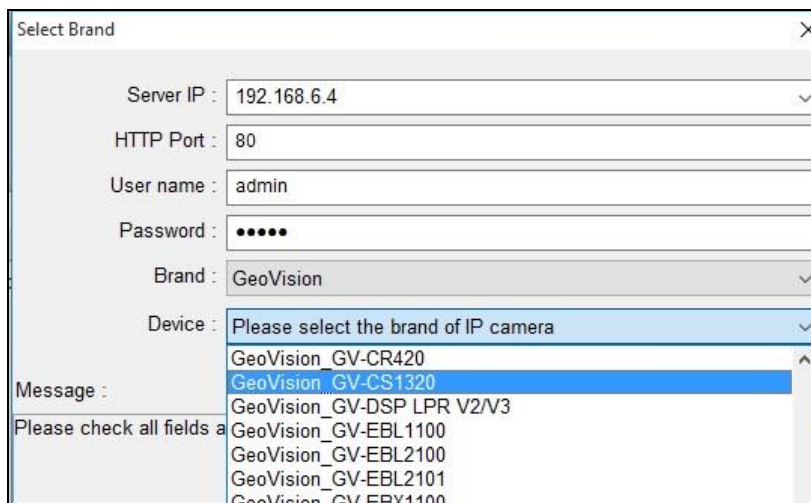


Figure 6-7

## 6.2 在 GV-VMS 上设置 GV-CS1320

按照以下步骤手动将您的 GV-CS1320 连接到 GV-VMS。



1. 要访问 IP 设备设置页面，请点击主页，选择工具栏， 点击配置  并选择摄像头安装。



图 6-6

2. 点击添加摄像头 ，此对话框出现。



图 6-7

3. Type the IP address, username and password of GV-CS1320. Modify the default HTTP port **80** if necessary.
4. Select GeoVision and model name from the **Brand** dropdown list and select GV-CS1320 from the **Device** dropdown lists. This dialog box appears.

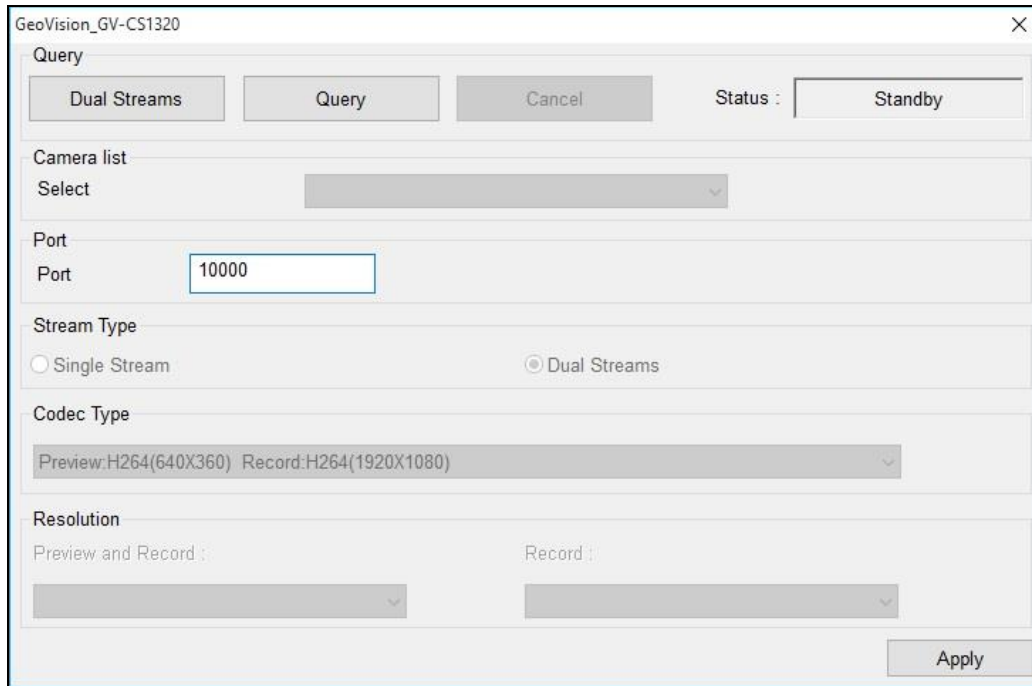


Figure 6-8

5. In the dialog box, configure the options.
  - **Dual Streams:** Select this option to apply the dual-streaming settings (lower resolution for live view and higher resolution for recording).
  - **Query:** Detect and apply the current codec and resolution setting on GV-CS1320.
  - **Port:** Modify the video streaming port number if necessary.
6. Click **Apply** to add GV-CS1320 to the list.
7. To connect the added GV-CS1320, click the box besides the **ID** column. Upon successful connection, the **Status** icon shows green, with the video resolution and bit rate being displayed in the correspondent columns.



<input checked="" type="checkbox"/>	ID	Status	Server address	Port	Video Resolution	Bitrate	Brand	Settings
<input checked="" type="checkbox"/>	1		192.168.6.4	10000	1920X1080(H264) / 640X360(H264)	1317 / 331 kbps	GeoVision_GV-CS1320	

Figure 6-10

3. 请输入 GV-CS1320 的 IP 地址、用户名和密码。如有必要，请修改默认 HTTP 端口 **80**。
4. 从品牌下拉列表中选择GeoVision和型号名称，并从设备下拉列表中选择GV-CS1320。此对话框将出现。

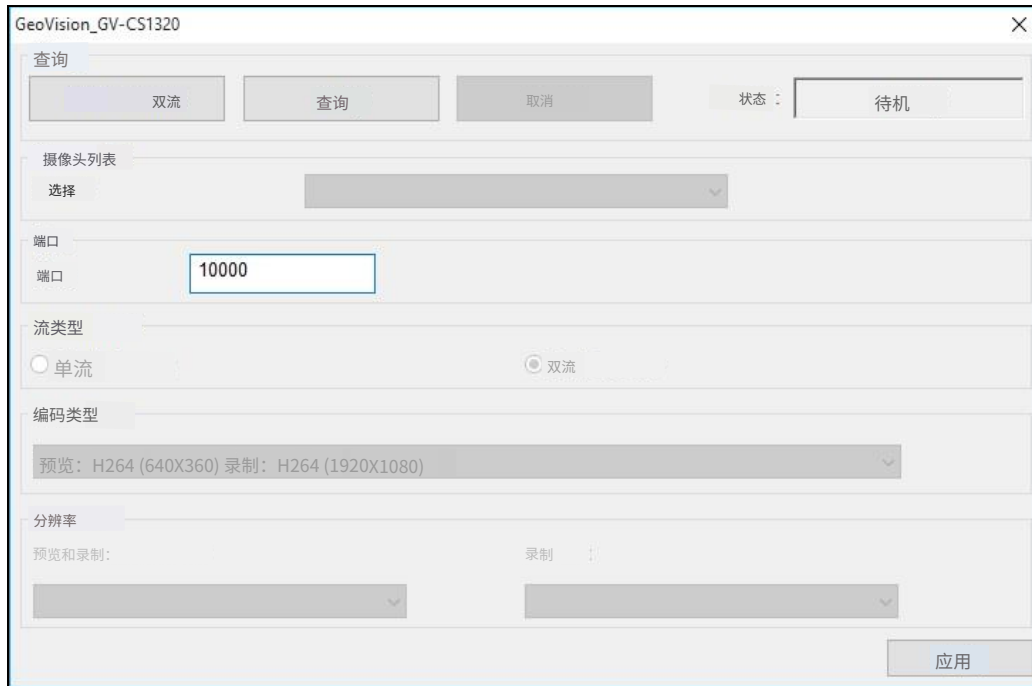


图6-8

5. 在对话框中，配置选项。
  - **双流:**选择此选项以应用双流设置（实时查看使用较低分辨率，录制使用较高分辨率）。
  - **查询:**检测并应用 GV-CS1320上的当前编解码器和分辨率设置。
  - **端口:**如有必要，修改视频流端口号。
6. 点击 **应用** 将 GV-CS1320 添加到列表中。
7. 要连接已添加的GV-CS1320，请点击 **ID**列旁边的框。连接成功后，状态图标显示为绿色，视频分辨率和比特率将在相应列中显示。


☑ ID	状态	状态服务器地址	端口	视频分辨率	比特率	品牌	设置
☑ 1		192.168.6.4	10000	1920X1080(H264) / 640X360(H264)	1317 / 331 kbps	GeoVision_GV-CS1320	

图6-10

## Chapter 7 Mobile Phone Connection

GV-Access app allows you to access up to 5 GV-ASManager systems and inspect the connection and alert status of each controller, door, LPR device and lane. With the app, you can receive the push notifications of access control, LPR, I/O box, system and user activity events from GV-ASManager and watch camera live view, as well as locking / unlocking a door, clearing an alert according to the actual situation. Additionally, GV-Access can also receive the push notifications from GV-CR1320 (reader) and GV-CS1320 (controller) and open a live view call with visitors at the front door. For details on the mobile app, visit our [website](#).

## 第七章 手机连接

GV-Access 应用程序允许您访问最多 5 个 GV-ASManager 系统，并检查每个控制器、门、LPR 设备和车道的连接和警报状态。通过该应用程序，您可以接收来自 GV-ASManager 的访问控制、LPR、I/O 盒、系统和用户活动事件的推送通知，并观看摄像头实时查看，以及根据实际情况锁定/解锁门、清除警报。此外，GV-Access 还可以接收来自 GV-CR1320（读卡器）和 GV-CS1320（控制器）的推送通知，并与前门的访客进行实时查看通话。有关移动应用程序的详细信息，请访问我们的网站。

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## Chapter 8 Connecting to GV-I/O Box 4 Ports

### Ports

GV-I/O Box 4 Ports provides extra protection for GV-CS1320. The wiring of a locking device to be secured inside the door can prevent outside intruders from shorting the wires together and opening the door.

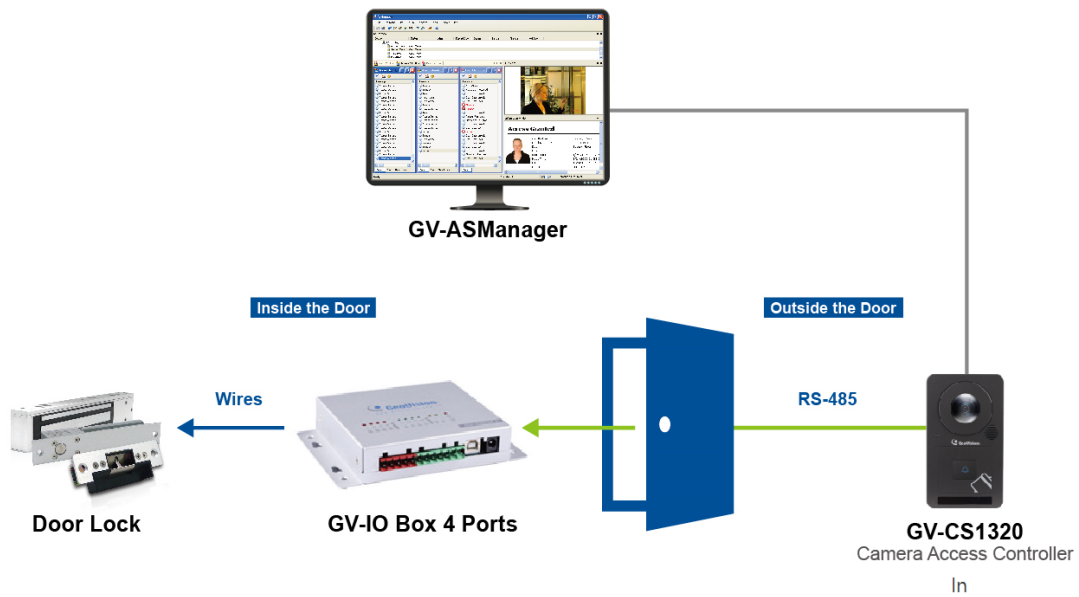


Figure 8-1

## 第 8 章 连接到 GV-I/O 盒 4 端口

### 端口

GV-I/O 盒 4 端口为 GV-CS1320 提供额外保护。将锁定装置的接线固定在门内，可以防止外部入侵者将电线短路并打开门。

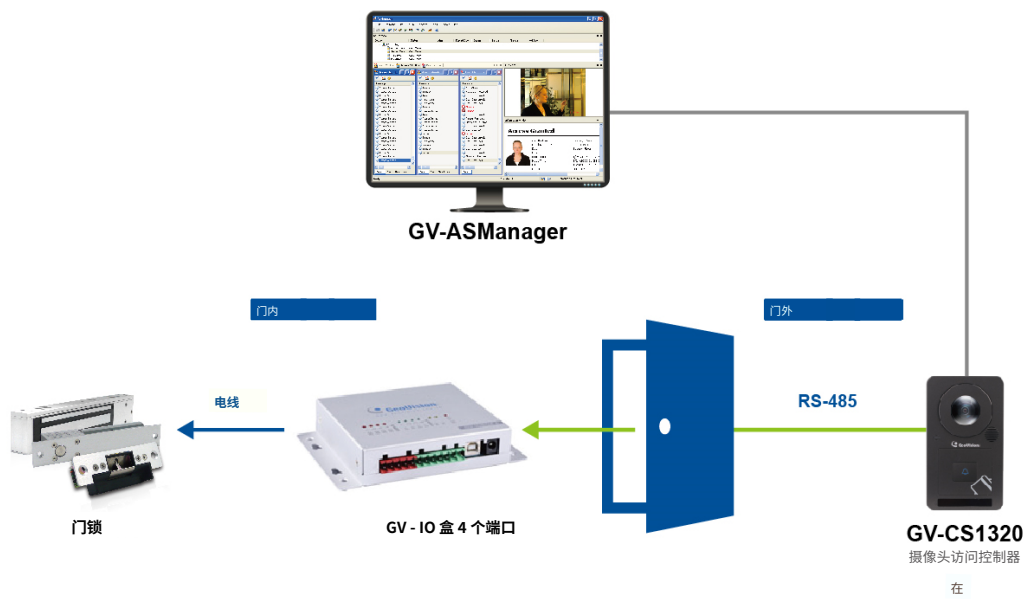


图 8-1

## 8.1 Physical Connection

Connect the RS-485 wires from GV-CS1320 to GV-I/O Box 4 Ports.

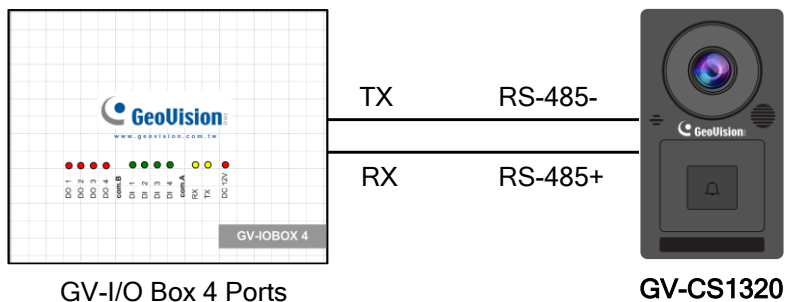


Figure 8-2

The table below shows the wire assignments of RS-485 connection on GV-CS1320.

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

For GV-I/O Box 4 Ports, four Door Entry / Exit Control related functions such as Door Sensor, Door / Gate Button, Fire Sensor, and Tamper Sensor are available for users. The table below specifies the corresponding input and output pins for each function.

### GV-I/O Box wiring

Sensor / Button	Input Pins on GV-I/O Box	Output Pins on GV-I/O Box
Door Sensor	Input 1	(to trigger) Output 2
Door / Gate Button	Input 2	(to trigger) Output 1
Fire Sensor	Input 3	(to trigger) Output 2
Tamper Sensor	Input 4	(to trigger) Output 2
Door Bell (Touchpad)	X	(to trigger) Output 3

#### Note:

1. The pin of Output 1 is for opening the door, Output 2 for sending the alarm and Output 3 for triggering the door bell. The pin of Output 4 on I/O Box is not functional in the application.
2. GV-I/O Box 8 Ports and GV-I/O Box 16 Ports are not supported.
3. When GV-I/O Box 4 Ports is properly installed in the application, the door sensor (yellow) and door button (light red) wires of GV-CS1320 will no longer be effective.

## 8.1 物理连接

将 RS-485 电线从 GV-CS1320 连接到 GV-I/O 盒 4 个端口。

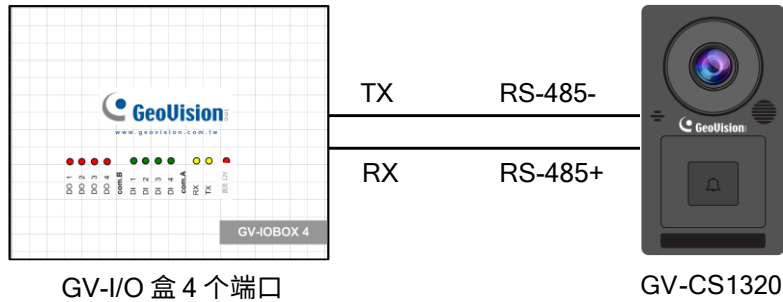


图 8-2

下表显示了 GV-CS1320 上 RS-485 连接的线缆分配。

线缆颜色	定义	线缆颜色	定义
红色	12V DC	蓝色	RS-485 +
黑色	接地	浅蓝色	RS-485 -

对于 GV-I/O Box 4 Ports，用户可以使用四个与门禁控制相关的功能，如门传感器、门/闸按钮、火灾传感器和防拆传感器。下表指定了每个功能对应的输入和输出引脚。

### GV-I/O Box 接线

传感器 / 按钮	GV-I/O Box 上的输入引脚	GV-I/O Box 上的输出引脚
门传感器	输入 1	(触发) 输出 2
门 / 闸按钮	输入 2	(触发) 输出 1
火灾传感器	输入 3	(触发) 输出 2
防篡改传感器	输入 4	(触发) 输出 2
门铃 (触摸板)	X	(触发) 输出 3

### 注意：

1. 输出 1 的引脚用于开门，输出 2 用于发送警报，输出 3 用于触发门铃。I/O 盒上的输出 4 引脚在该应用中无效。
2. GV-I/O 盒 8 端口和 GV-I/O 盒 16 端口不受支持。
3. 当 GV-I/O 盒 4 端口在应用中正确安装后，GV-CS1320 的门传感器（黄色）和门按钮（浅红色）线将不再有效。

## 8.2 Setting up GV-CS1320

After establishing connections among GV-CS1320, GV-I/O Box, door button and sensors, you need to set up GV-CS1320 to identify all these connected input devices.

1. Log on the Web interface of GV-CS1320.
2. Under **Access Control**, select **Extended IOBOX Configuration** to access the Input and Output settings of GV-I/O Box.

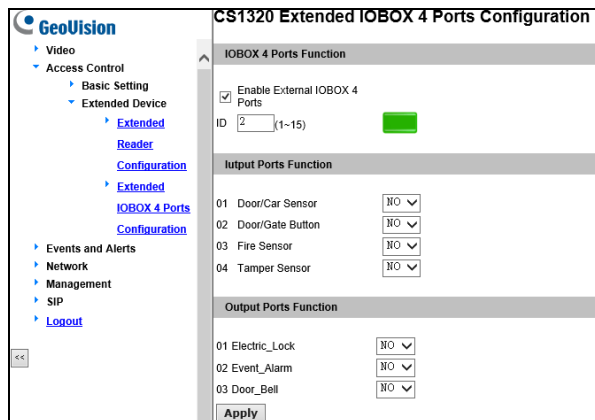


Figure 8-3

All input and output devices are **dry contact** and can be configured as normally open (NO) or normally closed (NC) on the configuration page.

### [IOBOX 4 Ports Function]

- **External IOBOX:** activate the external I/O box.
- **ID:** Type the ID set on GV-I/O Box.

### [Input Ports Function]

- **Door / Car Sensor:** When the door is forcibly opened, **Door Sensor** will trigger **Forced Open**. If **Forced Open** is selected on GV-ASManager, GV-CS1320 will send forth alarm sound.
- **Door / Gate Button:** When **Door / Gate Button** gets triggered, the door will be opened.
- **Fire Sensor:** When the flame detector senses fire, **Fire Sensor** will be triggered. If **Fire Alarm** is selected on GV-ASManager, GV-CS1320 will send forth alarm sound.
- **Tamper Sensor:** When GV-CS1320 is physically tampered with, the alarm event will be alerted on GV-ASManager. If **Tamper** is selected on GV-ASManager, GV-CS1320 will send forth alarm sound.

## 8.2 设置 GV-CS1320

在建立 GV-CS1320、GV-I/O 盒、门按钮和传感器之间的连接后，您需要设置 GV-CS1320 以识别所有这些连接的输入设备。

1. 登录 GV-CS1320 的网页界面。
2. 在访问控制下，选择**扩展 IOBOX 配置**以访问 GV-I/O Box 的输入和输出设置。



图 8-3

所有输入和输出设备均为**干接点**，并且可以在配置页面上配置为常开 (NO) 或常闭 (NC)。

### [IOBOX 4 端口功能]

- **外部 IOBOX:** 激活外部 I/O 盒。
- **ID:** 输入在 GV-I/O Box 上设置的 ID。

### [输入端口功能]

- **门 / 车传感器:** 当门被强行打开时，门传感器将触发强制打开。如果在 GV-ASManager 上选择了强制打开，GV-CS1320 将发出警报声。
- **门 / 大门按钮:** 当门 / 大门按钮被触发时，门将被打开。
- **火灾传感器:** 当火焰探测器探测到火灾时，火灾传感器将被触发。如果在 GV-ASManager 上选择了火警报警，GV-CS1320 将发出报警声。
- **防拆传感器:** 当 GV-CS1320 被物理拆卸时，GV-ASManager 将会收到报警事件。如果在 GV-ASManager 上选择了防拆，GV-CS1320 将发出报警声。

**Note:** For the alarm sound to be sent by GV-CS1320, the corresponding settings must be defined on GV-ASManager first.

**[Output Ports Function]**

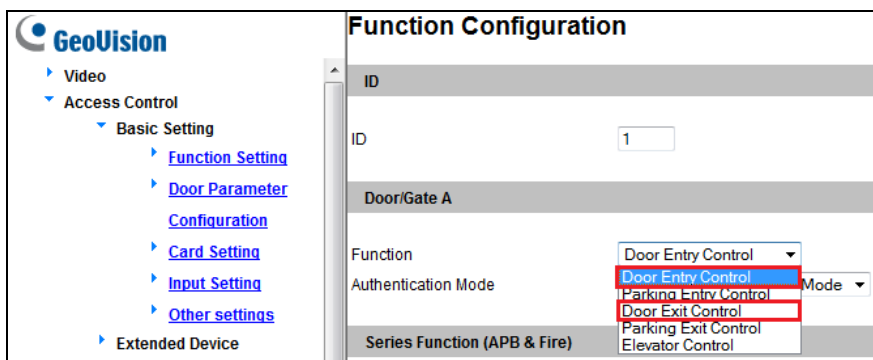
- **Electric Lock:** The lock output is triggered when the correct card is presented to open the locking device.
- **Event Alarm:** The alarm output is triggered when the defined alarm events occur.

Inputs	Alarm Events
Door Sensor	Forced Open
Fire Sensor	Fire Alarm
Tamper Sensor	Tamper

- **Door Bell:** The door bell is triggered upon activating the touchpad.
3. Click **Apply**. The green light represents the active connection between GV-CS1320 and GV-I/O Box whereas a red light indicates otherwise.

**Note:**

1. The GV-I/O Box application is only supported by the Authentication Mode of **Door Entry Control** and **Door Exit Control**. Parking and Elevator Control related functions are not supported.



2. GV-I/O Box 4 Ports is supported by GV-CS1320 firmware V1.11 or later.

注意:要使GV-CS1320发送报警声音, 必须先在GV-ASManager中定义相应的设置。

### [输出端口功能]

- **电锁:**当正确的卡片被呈现以打开锁定装置时, 锁输出被触发。
- **事件报警:**当定义的报警事件发生时, 报警输出被触发。

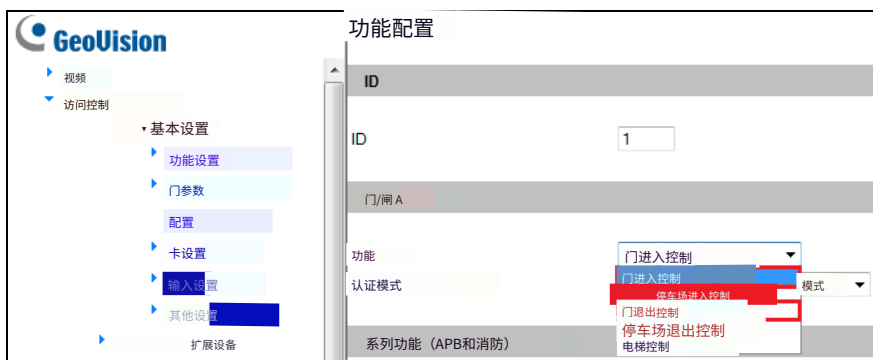
输入	报警事件
门传感器	强制开启
火灾传感器	火灾报警
防篡改传感器	防拆

- **门铃:**触摸板激活时, 门铃被触发。

3. 点击应用。绿色指示灯表示GV-CS1320与GV-I/O Box之间的连接处于活动状态, 而红色指示灯则表示相反。

### 注意:

1.GV-I/O Box应用仅支持**门禁控制**和**门退出控制**的认证模式。停车和电梯控制相关功能不受支持。



2.GV-I/O Box 4端口由GV-CS1320固件V1.11或更高版本支持。



# Appendix

## A. RTSP Protocol Support

The camera reader can support RTSP protocol for both video and audio streaming.

If you are using Quick Time player, use the following RTSP command:

```
rtsp://<IP of the camera reader>:8554/<CH No.>.sdp
```

For example, `rtsp://192.168.3.111:8554/CH001.sdp`

If you are using VLC player, use the following RTSP command:

```
rtsp://<ID>:<Password>@<IP of the camera reader>:8554/<CH No.>.sdp
```

For example, `rtsp://admin:admin@192.168.3.111:8554/CH001.sdp`

---

**Note:**

1. RTSP streaming is supported over HTTP, UDP and TCP.
  2. The RTSP protocol must be enabled on the Web interface. See [4.3.8 RTSP](#).
  3. Only VLC and QuickTime players are supported for streaming video via RTSP protocol.
- 

## B. The CGI Command

You can use the CGI command to obtain a snapshot of the live view without logging in the Web interface or to access the User Account Web interface. For a camera reader with the following details:

IP address: 192.168.2.11

Username: admin

Password: admin

Desired stream: 1

Type the following into your web browser to **obtain a snapshot**:

```
http://192.168.2.11/PictureCatch.cgi?username=admin&password=admin&channel=1
```

Type the following into your web browser to **access the User Account Web interface**:

```
http://192.168.2.11/ConfigPage.cgi?username=admin&password=admin&page=UserSetting
```

# 附录

## A. RTSP 协议支持

摄像头读取器支持RTSP协议进行视频和音频流传输。

如果您使用Quick Time播放器，请使用以下RTSP命令：

```
rtsp://<摄像头读取器的IP>:8554/<通道号>.sdp
```

例如，rtsp://192.168.3.111:8554/CH001.sdp

如果您使用VLC播放器，请使用以下RTSP命令：

```
rtsp://<ID>:<密码>@<摄像头读取器的IP>:8554/<通道号>.sdp
```

例如，rtsp://admin:admin@192.168.3.111:8554/CH001.sdp

---

### 注意：

1. RTSP流传输支持HTTP、UDP和TCP。
2. 必须在网页界面上启用 RTSP 协议。请参见4.3.8 RTSP。
3. 仅支持 VLC 和 QuickTime 播放器通过 RTSP 协议进行视频流播放。

---

## B. CGI 命令

您可以使用 CGI 命令在不登录网页界面的情况下获取实时查看的快照，或访问用户账户网页界面。对于具有以下详细信息的摄像头读取器：

IP 地址：192.168.2.11

用户名：admin

密码：admin

所需流：1

在您的网页浏览器中输入以下内容以**获取快照**：

```
http://192.168.2.11/PictureCatch.cgi?username=admin&password=admin&channel=1
```

在您的网页浏览器中输入以下内容以**访问用户账户网页界面**：

```
http://192.168.2.11/ConfigPage.cgi?username=admin&password=admin&page=UserSetting
```