

# Quick Start Guide

## *GV-IP Speed Dome*



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

ISD220200-QG-D



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# 1. Introduction

Welcome to the *GV-IP Speed Dome Quick Start Guide*. In the following sections, you will be guided through the basic installations and configurations of the **GV-SD220/GV-SD220-S/GV-SD200/GV-SD200-S**. For detailed information, see *GV-IP Speed Dome User's Manual* on the Software CD.

Model	Application	Description
GV-SD220	Indoor	2 MP H.264, 20x optical zoom, 12x digital zoom, WDR pro
GV-SD220-S	Outdoor	2 MP H.264, 20x / 30x optical zoom, 12x digital zoom, WDR pro
GV-SD200	Indoor	2 MP H.264, 18x optical zoom, 8x digital zoom, WDR pro
GV-SD200-S	Outdoor	

## 2. GV-SD220 / SD220-S

### 2.1 Packing List

#### 2.1.1 Indoor GV-IP Speed Dome

- Indoor GV-IP Speed Dome



- Hard-Ceiling Cover



- Mounting Plate



- GV-IP Speed Dome Software CD

- GV-NVR Software DVD

## 2.1.2 Outdoor GV-IP Speed Dome

- Outdoor GV-IP Speed Dome
- Pendant Tube



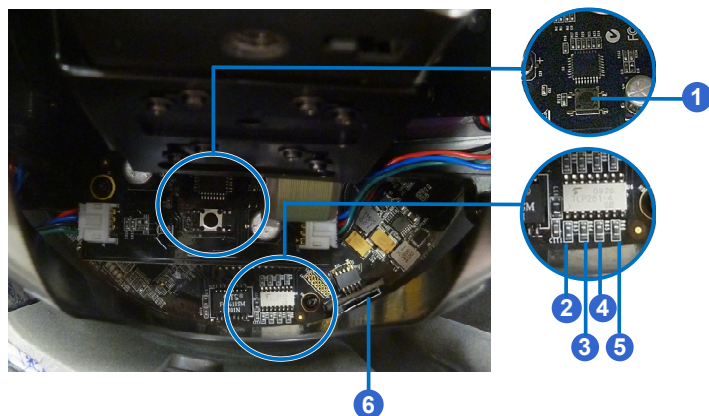
- Hex Keys x 2
- M6 Screws x 3



- Desiccant pack x 4
- GV-IP Speed Dome Software CD
- GV-NVR Software DVD



## 2.2 Overview



No.	Name	Description
1.	Default	Restores all the settings to the factory default values. For details, see <i>2.13 Restoring to Default Settings</i> .
2.	Status	The status LED turns green when the power is on and fades when the camera is ready for use.
3.	Power	The power LED turns green when the power is on.
4.	ACT	The ACT LED flashes orange light upon data transmission.
5.	Link	The Link LED turns green with Internet connectivity.
6.	Memory Card Slot	Insert a micro SD/SDHC card to store recording data.

## 2.3 Installation

There are multiple ways to install the GV-IP Speed Dome. Only the standard installation methods are introduced in the *Quick Start Guide*. For details on optional installations, see *Installing the GV-SD220/220-S IP Speed Dome*, Chapter 5, *GV-Mount Installation Guide* on the Software CD.

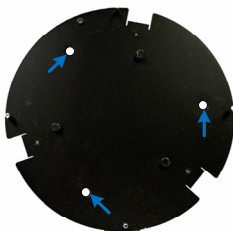
### 2.3.1 Indoor GV-IP Speed Dome: Hard-Ceiling Mount



#### Required Items

- Indoor packing (supplied)
- ceiling screws x 3 (user-prepared)

1. Secure the mounting plate to the ceiling with self-prepared screws.



2. Secure the indoor GV-IP Speed Dome to the mounting plate.
  - A. Loosen the screw on the mounting plate



- B. Align the camera to the mounting plate and rotate the camera body to the right.



- C. Tighten the screw.
3. Put on the hard-ceiling cover.

**Note:** Cut away a side of the cover if you want to run the cable through.

### 2.3.2 Outdoor GV-IP Speed Dome: Wall Pendant Mount



#### Required Items

- Outdoor packing (supplied)
- Ceiling screws x 4 (user-prepared)

1. Insert the desiccants to the camera.

**IMPORTANT:** Be sure to conceal the desiccants in the GV-IP Speed Dome within 2 minutes of opening the desiccant pack.

- A. Remove the camera cover using the supplied hex key.



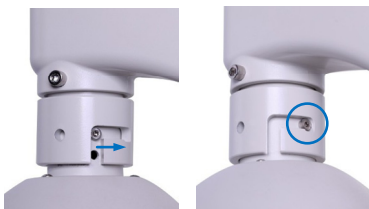
- B. Insert two desiccant packs to the indicated places.



- C. Follow step 1A to secure the camera cover with the supplied hex key.

2. Assemble the camera with the pendant tube.

- A. Thread the camera cable through the pendant tube.  
B. Rotate the camera and lock it to the pendant tube.

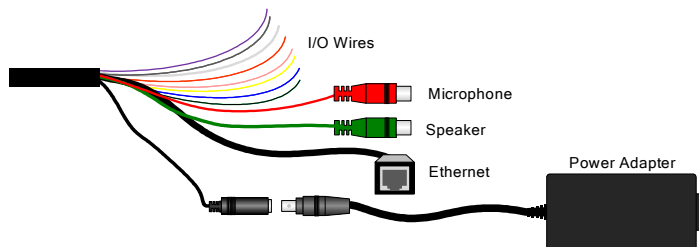


- C. Secure the camera to the pendant tube with the supplied M6 screws.



## 2.4 Connecting the Cables

With the Data Cable, you can connect the power, microphone, speaker, and I/O devices to the GV-IP Speed Dome. The Data Cable is illustrated as below.



No.	Wire	Definition
1	Orange	Alarm In 1
2	Yellow	Alarm In 2
3	Green	Alarm In 3
4	Blue	Alarm In 4
5	Pink	Ground
6	Purple	Alarm Out
7	White	Alarm Out Open
8	Gray	Alarm Out Close

## 2.5 Accessing the Camera

### 2.5.1 System Requirements

To access GV-IP Speed Dome functions through Web browser, ensure your PC is in good network connection and use one of the following web browsers:

- Microsoft Internet Explorer 7.x or later
- Google Chrome
- Mozilla Firefox
- Safari

**Note:**

1. For users of **Internet Explorer 8**, additional settings are required. For details, see *Appendix C*. For more details, see *1.2 System Requirements, GV-IP Speed Dome GV-SD220 User's Manual* on the Software CD.
2. With non-IE browsers,
  - A. Motion Detection, Text Overlay, two-way audio and GPS map settings are not supported.
  - B. The **Play** function is only available on the live view window.
  - C. RTSP streaming must be kept as enabled.

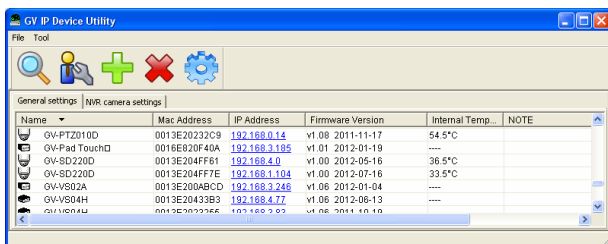
## 2.5.2 Looking Up the IP Address and Logging In

By default, the IP address of your GV-IP Speed Dome is assigned by the DHCP server unless your router does not support DHCP. In this case, the default IP address will be **192.168.0.10**. Follow the steps below to look up the dynamic IP address.

1. Install the GV-IP Device Utility program from the Software CD.

**Note:** The PC installed with GV-IP Device Utility must be under the same LAN with the camera you wish to configure.

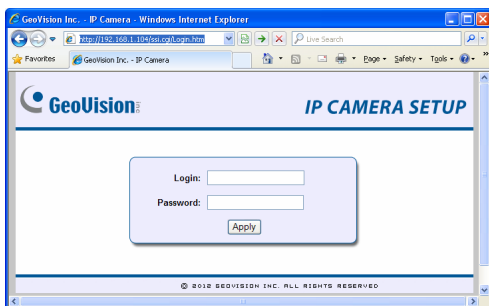
2. On the PC desktop, select **Start**, select **Programs** and select **GV IP Device Utility** to execute the program. The GV IP Device Utility window appears and automatically searches for the GV IP devices on the same LAN.
3. Click the **Name** or **Mac Address** column to sort.



4. Find the Mac Address of the camera to see its IP address.



- To login, type the IP address in the browser. The login page appears.



- Type the default ID and password **admin** and click **Apply** to log in.
- When accessing the GV-IP Speed Dome for the first time, you must set your browser to allow a one-time installation of GeoVision ActiveX component onto your computer.

**Note:** If your router does not support DHCP, the default IP address will be **192.168.0.10**. In this case, it is strongly suggested to modify the IP address to avoid IP address conflict with other GeoVision IP device on the same LAN. For details, see *Changing the IP Address* in *2.1 Looking Up the IP Address, GV-IP Speed Dome GV-SD220 User's Manual* on the Software CD.

## 2.6 The Web Interface

### Live View

In this section you can see and configure the default camera view.



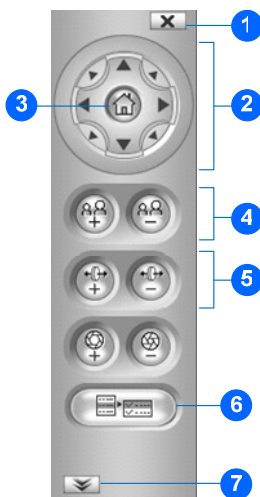
No.	Name	Description
1	Play	Plays live video.
2	Stop	Stops playing video.
3	Microphone	Talks to the surveillance area from the local computer.
4	Speaker	Listens to the audio around the camera.

No.	Name	Description
5	Snapshot	Takes a snapshot of live video.
6	File Save	Records live video to the local computer.
7	Full Screen	Switches to full screen view. Right-click the image to have these options: <b>Snapshot, Full Screen, Resolution, Wide Angle Lens Dewarping, PIP, PAP, GPS and Google Maps.</b>
8	Visual PTZ	Clicks to switch to one of the three visual PTZ control modes: <b>Fixed Direction Move, Random Move or Center Move.</b>
9	PTZ Home	Click to return the dome view to the home position.
10	I/O Control	Starts the I/O Control Panel.
11	PTZ Control	Starts the PTZ Control Panel and the Visual PTZ.
12	Show System Menu	Brings up these functions: <b>Alarm Notify, Video and Audio Configuration, Remote Config, Show Camera Name and Image Enhance.</b>

For detail, see *3.1 The Live View Window, GV-IP Speed Dome GV-SD220 User's Manual* on the Software CD.

## 2.7 The PTZ Control Panel

Click the **PTZ Control** button on the Live View window and select **PTZ Control Panel**. The PTZ Control Panel appears.



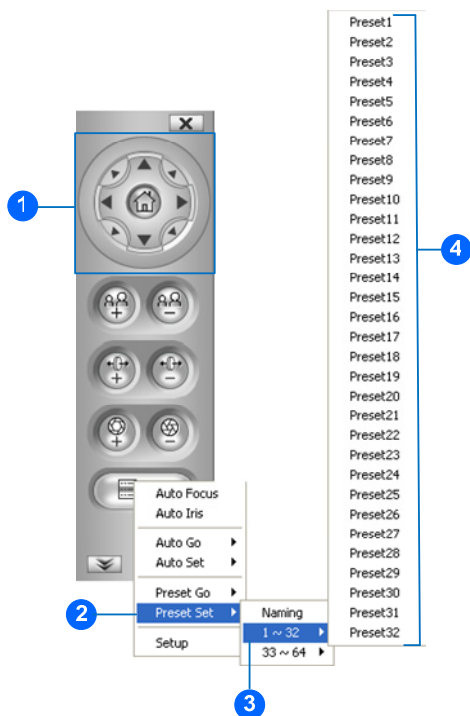
No.	Name	Description
1	Exit	Closes the PTZ control panel.
2	Pan / Tilt Control	Moves the PTZ Camera to 8 directions: up, down, left, right, left up, left down, right up and right down.
3	Home	Brings the camera view back to the home point.
4	Zoom In / Out	Shortens (zoom in) or lengthens (zoom out) the apparent distance between the camera and the view.
5	Focus In / Out	Adjusts the sharpness of the camera view.
6	Option	<p>Brings up these functions:</p> <ul style="list-style-type: none"> <li>• Dome movement settings (Preset, Sequence, Auto Pan, Cruise and Tour)</li> <li>• Image settings</li> <li>• PTZ settings</li> <li>• System settings</li> </ul> <p>For detail, see <i>PTZ Control Panel</i>, Chapter 4, <i>GV-IP Speed Dome GV-SD220 User's Manual</i> on the Software CD.</p>
7	Show Preset	Opens and closes the number pad.

## 2.8 Configuring a Preset Position

You can set up a preset position toward which the dome view moves. Up to **255** preset points can be configured and saved.

### Setting Up a Preset

1. Use the direction keys on the PTZ Control Panel to move the dome to a desired position in Live View.
2. Click **Option** on the PTZ Control Panel, click **Preset Set**, and select the desired preset number to save the preset.
3. To create another preset position, repeat Steps 1 and 2, and select a different preset number to save.



## Using a Preset

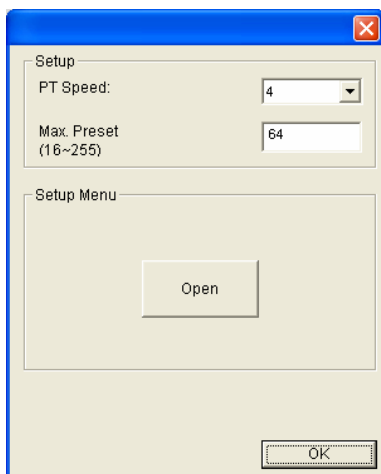
To move the dome view to a previously defined preset position, click **Option** on the PTZ Control Panel, click **Preset Go**, and select a **Preset** number which has been set up.

## 2.9 Configuring a Sequence Route

You can have the dome view move in a series of predefined movements. Create a Sequence by linking a number of presets points. Up to 8 Sequences can be created and a minimum of 2 preset points must be selected for a Sequence route to work.

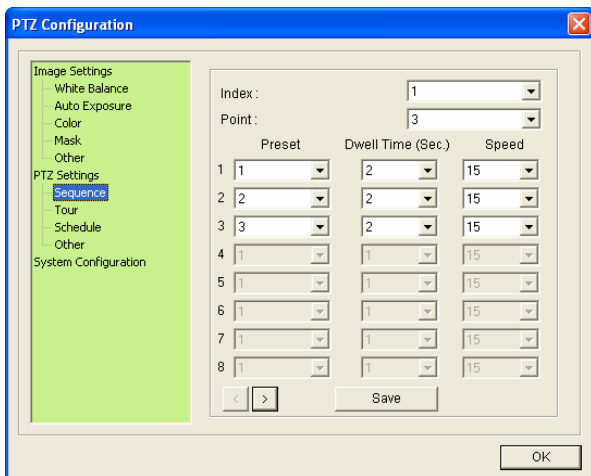
### Setting Up a Sequence

1. From the PTZ control panel, click **Option** and select **Setup**. This dialog box appears.





- Click **Open** and click **Sequence** located under **PTZ Setting** on the left menu.



- Use the **Index** drop-down list to select the Sequence group number to be configured. Up to 8 Indexes (Sequence groups) can be created.
- One Sequence group can include up to 16 Preset Points. Use the **Point** drop-down list to select the number of Preset Points in this Sequence group.
- Use the **Preset** drop-down list to select the Presets for this Sequence group.
- Use the **Dwell Time** drop-down list to set the duration for the dome to stay at this Preset. The duration time ranges from 1 to 255 seconds.
- Use the **Speed** drop-down list to set the speed at which the dome travels from one Preset to another.
- To create another Sequence group, repeat Steps 1 to 6, and select a different Index number.
- Click **Save** to complete the settings.

## Starting and Stopping a Sequence

To start the dome view on a Sequence route, click **Option** on the PTZ Control Panel, click **Auto Go** and select a **Go Sequence** number which has been previously set. The dome view will continue moving once a Sequence is started. To stop the movements, click any button on the PTZ Control Panel.

## 2.10 Configuring a Cruise

You can set up a route consisting of different directions, angles, and zooms for the GV-IP Speed Dome to follow. Up to **4** Cruises can be created.

### Setting Up a Cruise

1. Click **Option** on the PTZ Control Panel, click **Auto Set** and select **Set Cruise 1**.
2. Use Pan/Tilt Control keys and zoom in / out keys to set the desired route path and zoom.
3. When you are finished with setting up a Cruise 1 route, click **Option**, click **Auto** and select **Set Cruise Stop**.
4. To set up another Cruise route, repeat Steps 1 to 3, and select a different Cruise number.

### Starting and Stopping a Cruise

To start the GV-IP Speed Dome on a defined Cruise route, click **Option** on the PTZ Control Panel, click **Auto Go** and select a **Go Cruise** number which has been previously set. To stop a Cruise route in action, click any button on the PTZ Control Panel.

## 2.11 Configuring an Auto Pan

The GV-IP Speed Dome can pan up to 360° endlessly to survey the horizontal view between 2 pre-defined positions. You can configure up to 8 sets of Auto Pan routes.

### Setting Up an Auto Pan

1. Set up the vertical position of your GV-IP Speed Dome first. The vertical direction set during or after the horizontal movement settings will not be effective.
2. Set up the start position of the Auto Pan.
  - A. Use the control buttons on the PTZ control panel to move to a desired start position.
  - B. Click **Option** on the PTZ Control Panel, click **Auto Set** and select **Set Auto Pan 1 Start Position**.
3. Set up the end position of the Auto Pan.
  - A. Use the control buttons on the PTZ control panel to move to a desired end position.
  - B. Click **Option**, click **Auto Set** and select **Set Auto Pan 1 Stop Position**.
4. To create another Auto Pan route, repeat Steps 1 to 4, and select a different Auto Pan number.

For details on pan speed and the duration of dome view at the start/stop positions, see *4.11 PTZ Settings-Other, GV-IP Speed Dome GV-SD220 User's Manual* on the Software CD.

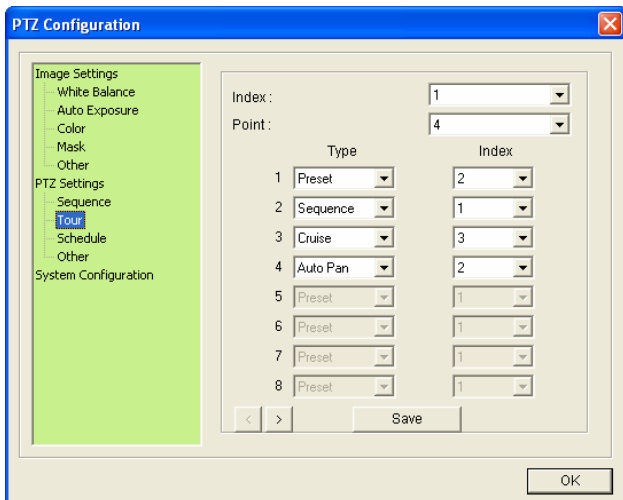
**Note:** The zoom ratio of an Auto Pan's Start Point will persist throughout the whole path.

### Starting and Stopping an Auto Pan

To start the GV-IP Speed Dome on an Auto Pan mode, click **Option** on the PTZ Control Panel, click **Auto** and select an **Auto Pan** number which has been previously set. To stop an Auto Pan, click any button on the PTZ Control Panel.

## 2.12 Configuring a Tour

You can set up your GV-IP Speed Dome to move in a combination of preset positions, Sequence, Cruise and Auto Pan. You can configure up to 8 Tour routes.



### Setting Up a Tour

1. Follow the steps in Accessing the PTZ Configuration Dialog Box above and click **Open** to display the **PTZ Configuration** dialog box, click **Tour** located under **PTZ Setting** on the left menu.
2. Use the **Index** drop-down list to select the Tour group number to be configured. Up to 8 Indexes (Tour groups) can be created.
3. One Tour group can include up to 16 sets of Preset Points, Sequence, Cruise and Auto Pan. Use the **Type** drop-down list to select the movement type.

4. Use the **Index** drop-down list to select the movement number for each movement type.
5. To create another Tour group, repeat Steps 1 to 6, and select a different Index number.
6. Click **Save** to complete the settings.

### Starting and Stopping a Tour

To start the GV-IP Speed Dome on a Tour route, click **Option** on the PTZ Control Panel, click **Auto Go** and select a **Go Tour** number which has been previously set. An enabled Tour will repeat until it is stopped by clicking any button on the PTZ Control Panel.

## 2.13 Upgrading System Firmware

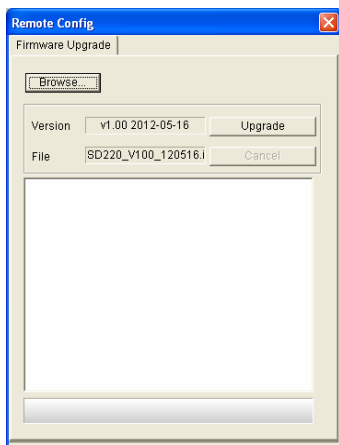
GeoVision periodically updates the latest firmware to the company website. You can update your GV-IP Speed Dome firmware through the Web interface or GV IP Device Utility included in the Software CD. For details on firmware upgrade using GV IP Device Utility, see *7.1.2 Using the GV IP Device Utility*, *GV-IP Speed Dome GV-SD220 User's Manual* on the Software CD.

### **IMPORTANT:**

1. While the firmware is being updated,
  - A. the power supply must not be interrupted, and
  - B. do not unplug the Ethernet cable if the cable is the source of power supply.
2. Interruption of power supply during the upgrade causes not only upgrade failure but also damages to the camera. In this case, contact your sales representative and send your device back to GeoVision for repair.
3. Do not turn the power off 10 minutes after the firmware is updated.
4. If firmware upgrade fails, you will need to restore the camera to the factory default settings.



1. In the Live View window, click the **Show System Menu** button and select **Remote Config**. This dialog box appears.



2. Click the **Browser** button to locate the firmware file (.img) saved at your local computer.
3. Click the **Upgrade** button to start upgrading.

## 2.14 Restoring to Default Settings

There are two parts to the GV-IP Speed Dome settings:

- System settings: this refers to all the settings except the PTZ settings
- PTZ configuration settings: this refers to settings in the PTZ configuration dialog box

### 2.14.1 Restoring All the Settings

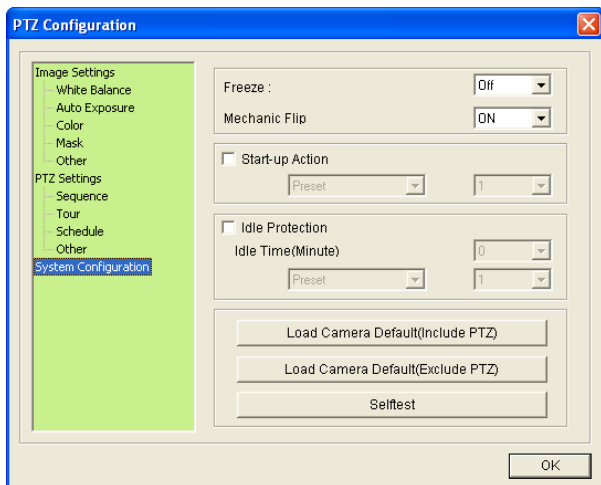
1. Press and hold the **Default** button.
2. When the **status LED** flashes twice, release the **Default** button. This shall take about 6 seconds.
3. The status LED fades when the default loading is completed.

### 2.14.2 Restoring System Settings Only

On the Web interface, select **Tools** and click the **Load Default** button. The default loading will start shortly.

### 2.14.3 Restoring PTZ Configuration Settings Only

1. Access the PTZ Configuration dialog box. For details, see *Calling Up the PTZ Control Panel* and *Accessing the PTZ settings*, Chapter 4, *GV-IP Speed Dome GV-SD220 User's Manual* on the Software CD.
2. On the PTZ Configuration dialog box, select **System Configuration**. This dialog box appears.



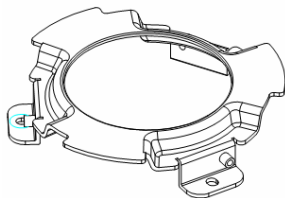
3. To restore default settings to all the settings in PTZ Configuration, click **Load Camera Default (Include PTZ)**. To restore default settings to Image Settings and System Configuration settings only, click **Load Camera Default (Exclude PTZ)**.

## 3. GV-SD200 / SD200-S

### 3.1 Packing List

#### 3.1.1 Indoor GV-IP Speed Dome

- Indoor GV-IP Speed Dome
- Hard Ceiling Mount (GV-MountD603)



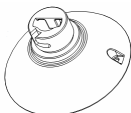
- Terminal Block
- GV-IP Speed Dome Software CD
- GV-NVR Software DVD
- M3 Standard Screw (x1)
- M4 Screw (x5)
- Plastic Anchor (x5)

### 3.1.2 Outdoor GV-IP Speed Dome

- Outdoor GV-IP Speed Dome
- M3 Standard Screw (x1)
- M3 Security Screw (x1)
- M5 Standard Screw (x1)
- M5 Security Screw (x1)



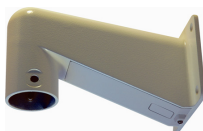
- Outdoor Mounting Kit (GV-MountD902)



- Waterproof Rubber



- Mini Pendant Mount (GV-MountD202)



- Lubricant

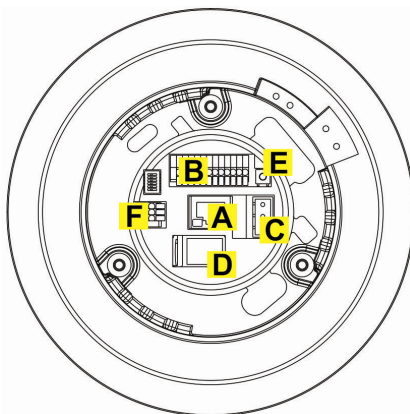


- Security Torx



- GV-IP Speed Dome Software CD
- GV-NVR Software DVD

## 3.2 Overview



No.	Name	Description
A	LAN / High Power PoE	Connects to a 10/100 Ethernet or High Power PoE (for GV-SD200 only).
B	I/O Terminal Block	Connects to I/O devices. For details, see <i>3.4 Connecting the Cables</i> in the <i>Quick Start Guide</i> .
C	Power Port	Connects to power of AC 24V.
D	Memory Card Slot	Inserts a micro SD / SDHC card to store recording data.
E	Reset Button	Resets to factory default. For details, see <i>3.13 Restoring to Default Settings</i> in the <i>Quick Start Guide</i> .
F	Two Way Audio	Connects audio input and output. For details, see <i>3.4 Connect the Cables</i> in the <i>Quick Start Guide</i> .

## 3.3 Installation

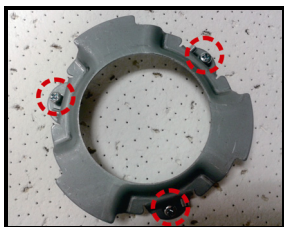
There are several mounting methods for GV-IP Speed Dome. In this *Quick Start Guide*, we only show you the standard mounting methods with the standard packing. For other mounting methods, refer to *GV-IP Speed Dome GV-SD200 User's Manual*.

### 3.3.1 Indoor Speed Dome Mount: Surface Mount

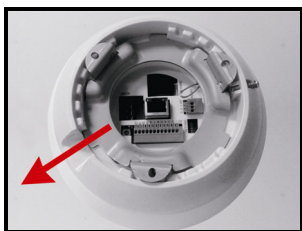


GV-MountD603  
(Supplied)

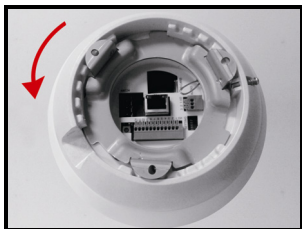
1. Mark the positions of the three screw holes on the Hard Ceiling Mount at the chosen installation location.
2. In the marked locations, drill each hole slightly smaller than the supplied Screw Anchors, and put supplied Anchors into these drilled holes.



3. Fasten the Hard Ceiling Mount with the three supplied M4 Self-tapping Screws.
4. Thread the connected cables and wires through the center hole of the Mount and connect the cable to the camera body.
5. Users can choose to hide the cables and wires inside the ceiling, and put the rubber from the accessory package to fill the gap at the side of the Fixing Plate. Or let the cables out from the gap on the side of the Fixing Plate (as shown in the diagram).

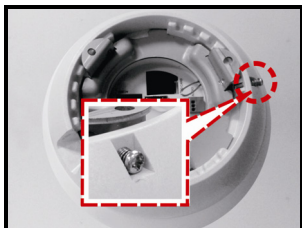


6. Install the Camera on the fixed Hard Ceiling Mount by turning the Camera clockwise.

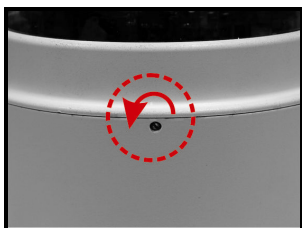




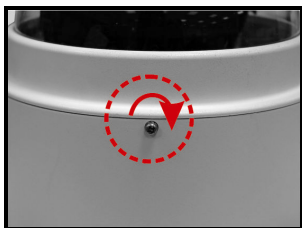
7. Fasten the screw at the side of the Fixing Plate.



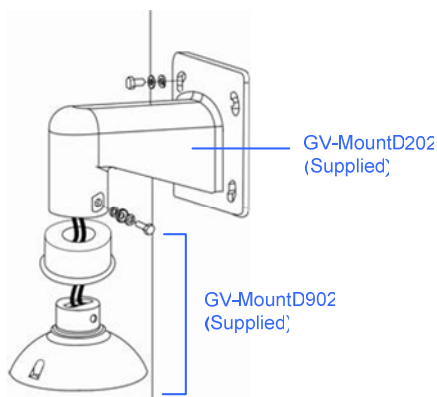
8. After installing the Camera on the Hard Ceiling Mount, put the Dome Cover back, and use a flat screw drive to fasten two supplied Flat Screws on the Dome Cover.



9. Fasten the supplied Standard Screw on the Dome Cover.



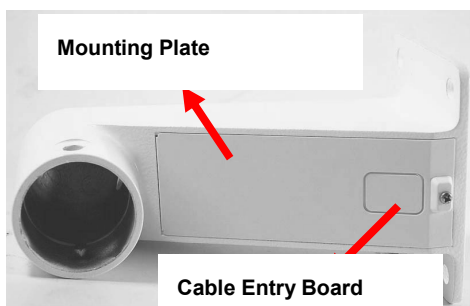
### 3.3.2 Outdoor Speed Dome Mount: Mini Pendant Mount



#### Required items:

- Outdoor packing (supplied)
- Wall screws x 4 (user-prepared)

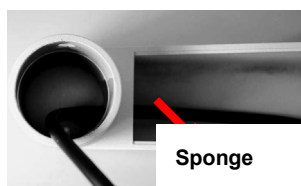
1. Make a cable entry hole on the wall to recess the cables. You can also push up the Cable Entry Board on the Mini Pendant Mount's Mounting Plate to place the cables, as shown in the photo below.



2. Fix the Mini Pendant Mount on the wall with suitable screws and screw anchors of your choice.

3. Attach the Waterproof Rubber to the Mini Pendent Mount.
4. Run the cable(s) through the Mini Pendent Mount.

**Note:** Block the cable entry hole with the supplied sponge to avoid insects entering the Pendent Mount. The sponge can be placed in two ways as shown in the illustrations below.

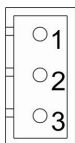


5. Thread the cable(s) through the Mounting Kit and join the Mounting Kit to the Mini Pendent Mount with the supplied screws and washers. Then adjust the Waterproof Rubber to the joint.
6. Connect the cable(s) to the Dome Camera.
7. Join the Dome Camera to the Mounting Kit with the supplied screw and washers.

## 3.4 Connecting the Cables

Connect your IP Speed Dome to power, network and other cables.

### Connecting Power



Pin	Definition
1	AC 24_1
2	GND
3	AC 24_2

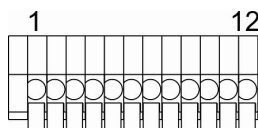
**Note:** If you are using GeoVision's optional power adaptors, connect the green or green/yellow wire to GND. The two remaining wires are interchangeable, and both wires can be connected to AC\_2 or AC\_1.

### Connecting Ethernet Cable



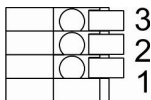
The High Power PoE function is only supported for **GV-SD200**.

## Connecting Alarm I/O



Pin	Definition	Pin	Definition
1	Alarm_Out_NC_1	7	Alarm_Out_COM_2
2	Alarm_Out_NO_1	8	GND
3	Alarm_Out_COM_1	9	Alarm_In_4
4	GND	10	Alarm_In_3
5	Alarm_Out_NC_2	11	Alarm_In_2
6	Alarm_Out_NO_2	12	Alarm_In_1

## Connecting Audio



Pin	Definition
1	Line_Out
2	GND
3	Line_In

## 3.5 Accessing the Camera

### 3.5.1 System Requirements

To perform the GV-IP Speed Dome via web browser, ensure your PC is in good network connection, and use one of the following web browsers.

- Internet Explorer 7.0 or later
- Firefox
- Google Chrome
- Safari


**Note:** With non-IE browsers, only the **Play** function is available on the live view window.

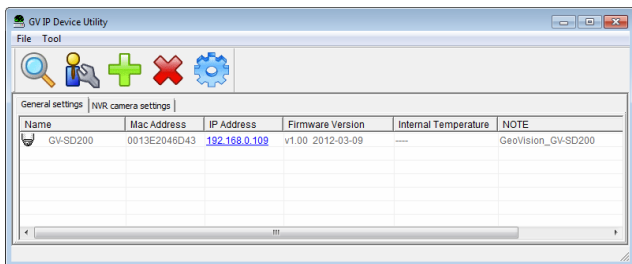
### 3.5.2 Looking up the IP Address and Logging in

By default, the IP address of your GV-IP Speed Dome is assigned by the DHCP server unless your router does not support DHCP. In this case, the default IP address will be **192.168.0.10**. Follow the steps below to look up the dynamic IP address.

1. Install the GV-IP Device Utility program from the Software CD.

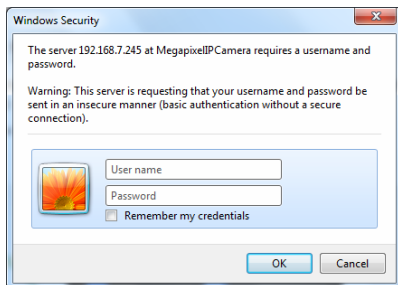
**Note:** The PC installed with GV-IP Device Utility must be under the same LAN with the camera you wish to configure.

2. On the GV-IP Utility window, click the  button to search for the GV-IP Speed Dome. Click the **Name** or **Mac Address** column to sort.



3. Find the camera with its Mac Address to see the IP address.

- To login, type the IP address in your web browser. A dialog box appears.



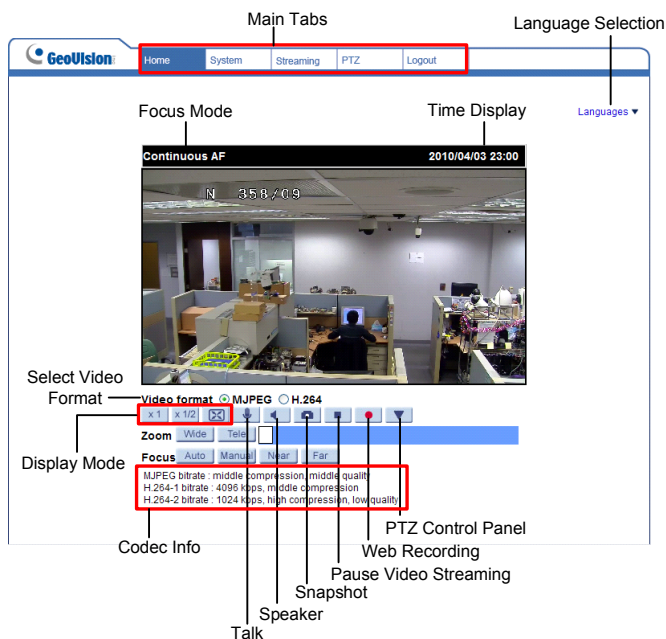
- Type the default username and password **admin**.
- Click **OK** to access the Web interface.
- When accessing the GV-IP Speed Dome for the first time, you must set your browser to allow a one-time installation of DC Viewer onto your computer.

**Note:** If your router does not support DHCP, the default IP address will be 192.168.0.10. In this case, it is strongly suggested to modify the IP address to avoid IP address conflict with other GeoVision IP device on the same LAN. For details, see 3.1.2 *Changing the IP Address, GV-IP Speed Dome GV-SD200 User's Manual* on the Software CD.




## 3.6 The Web Interface

After logging onto the GV-IP Speed Dome, users will see the Home page as shown below:
















**Note:** Refer to *Administrator Mode*, Chapter 4, *GV-IP Speed Dome GV-SD200 User's Manual* on the Software CD for details.

## 3.7 The PTZ Control Panel

Click the  button on the home page. The PTZ Control Panel appears.



Button	Description
	Moves the camera to 8 directions.
	Zooms in. Shortens the apparent distance between the camera and the view.
	Zooms out. Lengthens the apparent distance between the camera and the view.

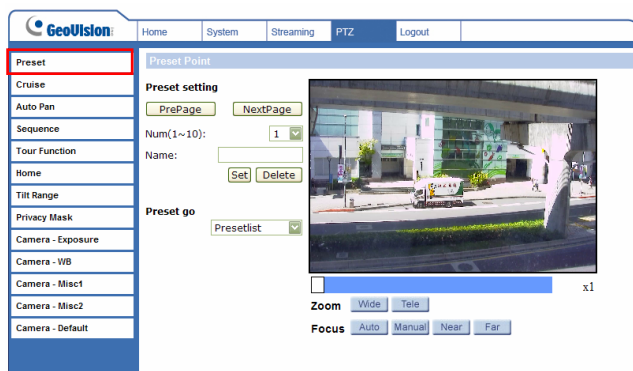
Button	Description
	Focuses in. Changes the sharpness of the view.
	Focuses out. Changes the sharpness of the view.
	Automatically adjusts the focus.
	Enlarges the aperture opening.
	Automatically adjusts the aperture opening.
	Reduces the aperture opening.
 Preset	Moves to a defined Preset point.
 Cruise	Starts a defined Cruise path.
 Sequence	Starts a defined Sequence route.
 PT Speed	Adjusts the pan/tilt speed.

## 3.8 Configuring a Preset Position

You can set up a preset position toward which the dome view moves. Up to **256** preset points can be configured and saved.



### Setting up a Preset

1. Click the **PTZ** tab and select **Preset** from the left menu of the Web interface.



2. Click the dome view and drag the cursor to a desired position.
3. Use the **Zoom** and **Focus** buttons to adjust the dome view.
4. Use the **Num** drop-down list to select a number to define a Preset point. Click **Pre page** or **Next Page** button to select numbers from 1 to 256.
5. Type a name to describe the selected number in the **Name** field.
6. To create another Preset point, repeat Steps 2 to 5 and select a different preset number.
7. Click **Set** to save the settings.
8. Use the **Preset Go** drop-down list to select a Preset point to test your settings.

### Using a Preset

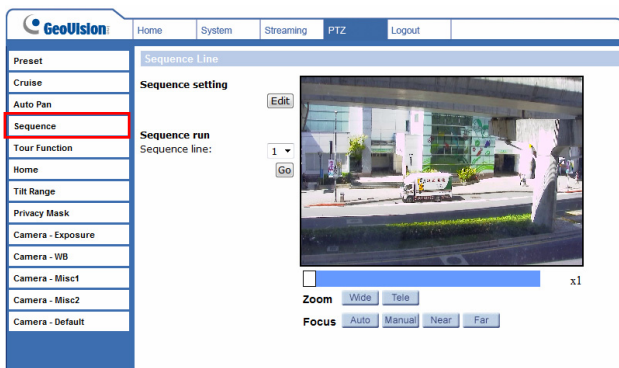
To move the dome view to a previously defined Preset point, click the **Home** tab and click on the **PTZ Control Panel** button . Select the defined number from the **Preset** drop-down list and click the  button.

## 3.9 Configuring a Sequence Route

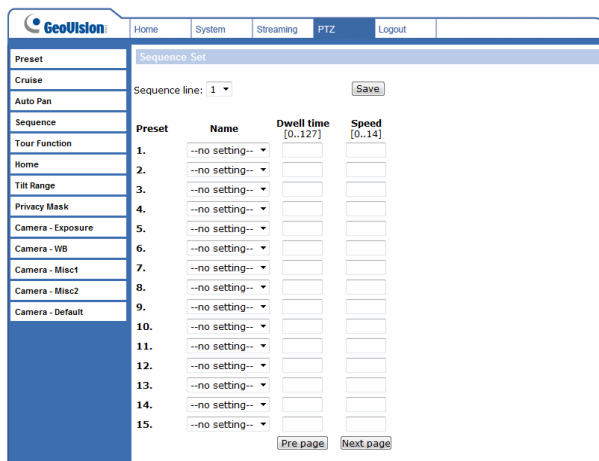
You can have the dome view move in a series of predefined movements. Create a Sequence by linking a number of presets points. Up to **8** Sequences can be created and a minimum of 2 Preset Points must be selected for a Sequence line to work.

### Setting up a Sequence

1. Click the **PTZ** tab and select **Sequence** from the left menu of the Web interface.



- Click the **Edit** button under **Sequence Setting**.




The screenshot shows the GeoVision PTZ configuration interface. The top navigation bar includes Home, System, Streaming, PTZ, and Logout. The left sidebar lists various settings: Preset, Cruise, Auto Pan, Sequence, Tour Function, Home, Tilt Range, Privacy Mask, Camera - Exposure, Camera - WB, Camera - Misc1, Camera - Misc2, and Camera - Default. The main content area is titled 'Sequence Set' and features a 'Sequence line: 1' dropdown menu and a 'Save' button. Below this is a table with 15 rows, each representing a Preset point. The columns are 'Preset', 'Name', 'Dwell time [0..127]', and 'Speed [0..14]'. Each row has a dropdown menu for the Name, and input fields for Dwell time and Speed. At the bottom of the table are 'Pre page' and 'Next page' buttons.

Preset	Name	Dwell time [0..127]	Speed [0..14]
1.	--no setting--		
2.	--no setting--		
3.	--no setting--		
4.	--no setting--		
5.	--no setting--		
6.	--no setting--		
7.	--no setting--		
8.	--no setting--		
9.	--no setting--		
10.	--no setting--		
11.	--no setting--		
12.	--no setting--		
13.	--no setting--		
14.	--no setting--		
15.	--no setting--		

- Use the **Sequence Line** drop-down list to select a Sequence route number to be configured.
- Use the **Name** drop-down list to select the desired Preset points for the Sequence route.
- One Sequence line include up to 64 Preset points. Use the **Pre Page** and **Next Page** buttons to reach numbers 1 to 64.
- Type a number in the **Dwell Time** field to set the duration for the dome to stay at this Preset. The duration time ranges from 0 to 127 seconds.
- Type a number in the **Speed** field to set the speed level at which the dome travels from one Preset to another. The speed level ranges from 0 to 14.
- Click **Save** to complete the settings.
- To create another Sequence, repeat Steps 3 to 8 and select a different Sequence line number.

10. Return to the Sequence page. Use the **Sequence Line** drop-down list to select a Sequence route number and click **Go** to test your settings.

### Starting and Stopping a Sequence

To start the dome view on a Sequence route, click the **Home** tab, click the **PTZ Control Panel** button  and select a **Sequence** number which has been previously set. The dome view will continue moving once a Sequence is started. To stop the movements, click any button on the PTZ Control Panel.

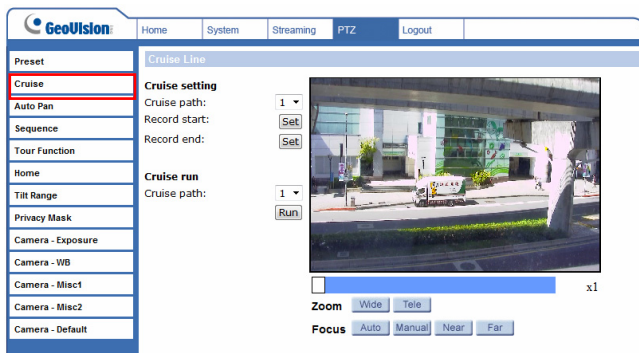


## 3.10 Configuring a Cruise

You can set up a path consisting of different directions, angles, and zooms for the GV-IP Speed Dome to follow. Up to **8** Cruises can be created.

### Setting up a Cruise


1. Click the **PTZ** tab and select **Cruise** from the left menu of the Web interface.



2. Use the **Cruise Path** drop-down list to select a Cruise path number to be configured.
3. Click the dome view and drag the cursor to a desired position as the Start Point of a Cruise path.
4. Click the **Set** button of **Record Start** and start programming the Cruise path by dragging the red cursor on the dome view.
5. Use the **Zoom** and **Focus** buttons to adjust the dome view.
6. Click the **Set** button of **Record End** to quit.
7. To create another Cruise, repeat Steps 2 to 6 and select a different Cruise path number.

8. Use the **Cruise Path** drop-down list to select a Cruise path number and click the **Run** button to test your settings.

### Starting and Stopping a Cruise

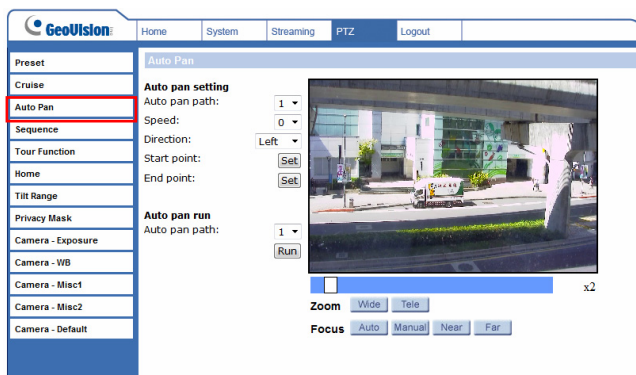
To start the dome view on a Cruise path, click the **Home** tab, click the **PTZ Control Panel** button  and select a **Cruise** number which has been previously set. The dome view will continue moving once a Cruise is started. To stop the movements, click any buttons on the PTZ Control Panel.

## 3.11 Configuring an Auto Pan

The GV-IP Speed Dome can pan up to 360° endlessly to survey the horizontal view between 2 pre-defined positions. You can configure up to 4 sets of Auto Pan paths.

### Setting up a Auto Pan

1. Click the **PTZ** tab and select **Auto Pan** from the left menu of the Web interface.



2. Use the **Auto Pan Path** drop-down list to select an Auto Pan path number to be configured.
3. Use the **Speed** drop-down list to set the speed level from 0 to 3 at which the dome travels from the Start Point to the End Point.
4. Click the dome view and drag the cursor to a desired position. Click the **Set** button of Start Point to save the setting.
5. Click the dome view and drag the cursor to a desired position. Click the **Set** button of End Point to complete the setting.
6. To create another Auto Pan path, repeat Steps 2 to 5 and select a different path number.

**Note:** The zoom ratio of an Auto Pan's Start Point will persist throughout the whole path.

### Starting and Stopping a Auto Pan

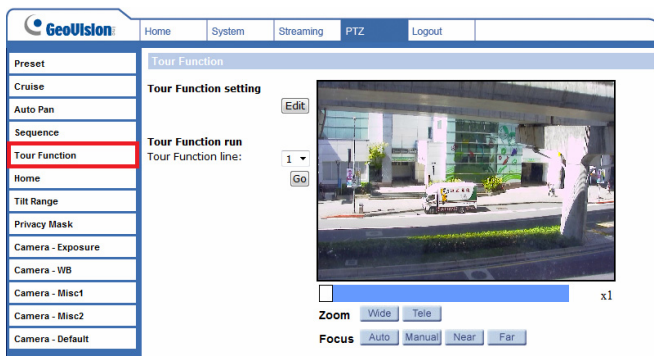
To start the dome view on an Auto Pan path, click the **Run** button on the Auto Pan page. The dome view will continue moving once an Auto Pan is started. To stop the movements, move the cursor on the dome view and drag it to any directions.

## 3.12 Configuring a Tour

You can set up your GV-IP Speed Dome to move in a combination of Preset, Sequence, Cruise and Auto Pan. You can configure up to **16** Tour routes.

### Setting up a Tour

1. Click the **PTZ** tab and select **Tour Function** from the left menu of the Web interface.



- Click the **Edit** button under **Tour Function Setting**.

The screenshot shows the GeoVision web interface. On the left is a navigation menu with options: Preset, Cruise, Auto Pan, Sequence, Tour Function (selected), Home, Tilt Range, Privacy Mask, Camera - Exposure, Camera - WB, Camera - Misc1, Camera - Misc2, and Camera - Default. The main content area is titled 'Tour Function Set'. It features a 'Tour Function:' dropdown menu currently set to '1' and a 'Save' button. Below this is a table with three columns: 'Tour', 'Function', and 'No.'. The 'Tour' column lists numbers 1 through 16. The 'Function' column contains a dropdown menu for each row, all currently displaying '-- no setting --'. The 'No.' column contains empty input boxes for each row.

Tour	Function	No.
1.	-- no setting --	
2.	-- no setting --	
3.	-- no setting --	
4.	-- no setting --	
5.	-- no setting --	
6.	-- no setting --	
7.	-- no setting --	
8.	-- no setting --	
9.	-- no setting --	
10.	-- no setting --	
11.	-- no setting --	
12.	-- no setting --	
13.	-- no setting --	
14.	-- no setting --	
15.	-- no setting --	
16.	-- no setting --	

- Use the **Tour Function** drop-down list to select a number to be configured.
- Use the **Function** drop-down list to select a Preset, Sequence, Cruise or Auto Pan.
- Type a number in the **No.** field to specify the Preset, Sequence, Cruise, and Auto Pan.
- Click the **Save** button to complete the setting.
- To create another Tour route, repeat Steps 3 to 6 and select a different Tour Function number.
- Return to the Tour Function page. Use the **Tour Function Line** drop-down list to select a Tour route number and click **Go** to test your settings.

### Starting and Stopping a Tour

To start the dome view on a Tour path, click the **Run** button on the Tour Function page. The dome view will continue moving once a Tour is started. To stop the movements, move the cursor on the dome view and drag it to any directions.

## 3.13 Upgrading System Firmware

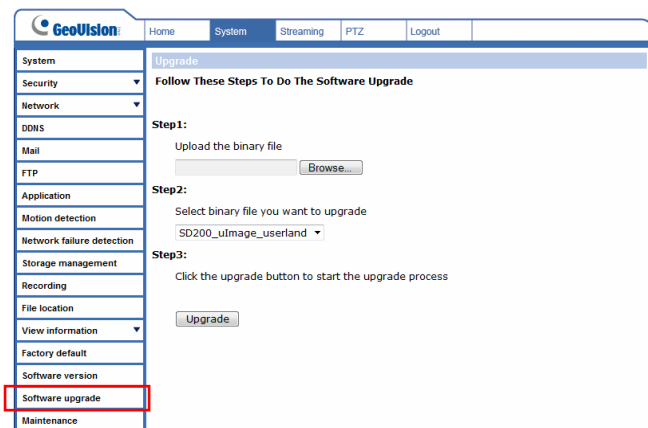
GeoVision periodically releases the updated firmware on the website. Update your camera to the latest firmware through its Web interface.

**IMPORTANT:**

1. Stop monitoring of the camera.
2. Stop the connection to GV-System.
3. While the firmware is being updated,
  - A. the power supply must not be interrupted, and
  - B. do not unplug the Ethernet cable if the cable is the source of power supply (Power over Ethernet or PoE supported).
4. The interruption of power supply during updating causes not only update failures but also damages to your camera. In this case, please contact your sales representative and send your device back to GeoVision for repair.
5. Do not turn the power off for 10 minutes after the firmware is updated.



1. Click the **System** tab and select **Software Upgrade** from the left menu.



2. Click the **Browse** button and select one firmware file to be uploaded.

**Note:** Do not change the upgrade file name, or the system will fail to find the file.

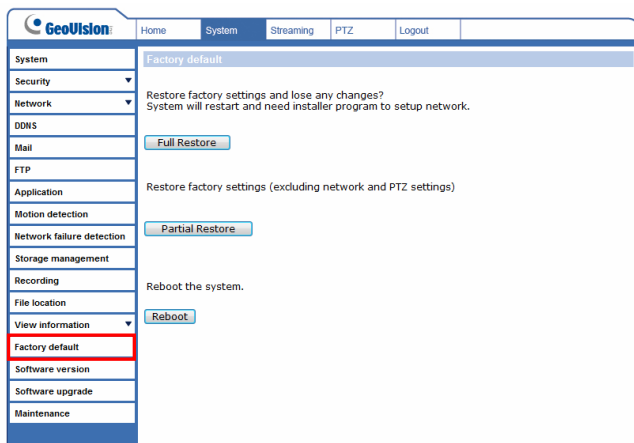
3. Use the drop-down list to select the corresponding type of file you want to upgrade. For example, if the file you uploaded is **GV-SD200\_switch\_V103\_130115**, select **SD200\_switch** from the drop-down list.
4. Click the **Upgrade** button.
5. Repeat the above steps for all remaining firmware files. All four firmware files must be upgraded for the camera to function properly.

## 3.14 Restoring to Default Settings

You can restore the camera to factory default settings using the Web interface or directly on the camera. On the Web interface, you can choose to do a full restoration or partial restoration of default settings.

### Using the Web Interface

1. Click the **System** tab and select **Factory Default** from the left menu.



2. To restore all settings to factory default, click the **Full Restore** button. The system will restart in 30 seconds. Note that the IP address will be restored to default.
3. To restore all settings to factory default except for the network and the PTZ settings, click the **Partial Restore** button. The system will restart in 30 seconds.

### Directly on the Camera

To restore to default settings directly on the camera, use a pointy object, such as the tip of a pen to hold down the **Load default** button (Button E below) for about 30 seconds while the power is on. The lens will rotate briefly when load default is completed.

