

# Quick Start Guide

## *GV-IP Decoder Box and GV-Pad*

### *V1.07*



**Note: no SD/SDHC card slot or local storage function in Argentina**

Thank you for purchasing GV-IP Decoder Box and GV-Pad. This guide is designed to assist the new user in getting immediate results from the GV-IP Decoder Box and GV-Pad. For advanced information on how to use the GV-IP Decoder Box and GV-Pad, please refer to *GV-IP Decoder Box and GV-Pad User's Manual* on software DVD.



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# 1. Introduction

Welcome to the *GV-IP Decoder Box / GV-Pad Quick Start Guide*. In the following sections, you will learn about the basic installations and configurations of the GV-IP Decoder Box / GV-Pad. For the details, see *GV-IP Decoder Box and GV-Pad User's Manual*.

## 1.1 Packing List

### **GV-IP Decoder Box**

1. GV-IP Decoder Box
2. IR remote control
3. AC/DC adapter (12 V, 3 A, 36 W)
4. Power cord
5. Software DVD
6. SD card

### **GV-Pad**

1. GV-Pad
2. IR remote control
3. Magnetic hinge
4. Screw x 4
5. AC/DC adapter (12 V, 3 A, 36 W)
6. Power cord
7. Software DVD
8. SD Card

## 1.2 Optional Accessories

Optional devices can expand your GV-IP Decoder Box / GV-Pad's capabilities and versatility. Contact your dealer for more information.

Options	Description
<b>Wall Mount Kit</b>	The kit is used to mount the GV-IP Decoder Box to the wall.
<b>VESA Monitor-Mount Kit</b>	The kit is used to mount the GV-IP Decoder Box to the back of a VESA monitor.
<b>GV-Joystick</b>	The GV-Joystick facilitates focusing, zooming, panning, tilting of GeoVision and third-party PT, PTZ and Speed Dome cameras on GV-IP Decoder Box / GV-Pad.
<b>GV-WiFi USB Adapter</b>	The WiFi adapter is a plug-and-play device that provides wireless connectivity to GV-IP Devices. It complies with IEEE802.11 b/g/n (Draft 3.0) standards for wireless networking.

## 1.3 Compatible Devices

The GV-IP Decoder Box / GV-Pad is compatible with:

1. GV-IP Camera, GV-Video Server and GV-Compact DVR using H.264 codec
2. Third-party IP devices that support H.264 and adhere to RTSP, ONVIF or PSIA
3. GV-Mobile Server

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**Note:** Upgrade your GV-IP Devices to the latest firmware version if you encounter any connection problems.

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To decode and display **non-H.264** IP channels or **analog** channels, connect the devices to GV-System and access them through GV-Mobile Server.

## 2. Overview

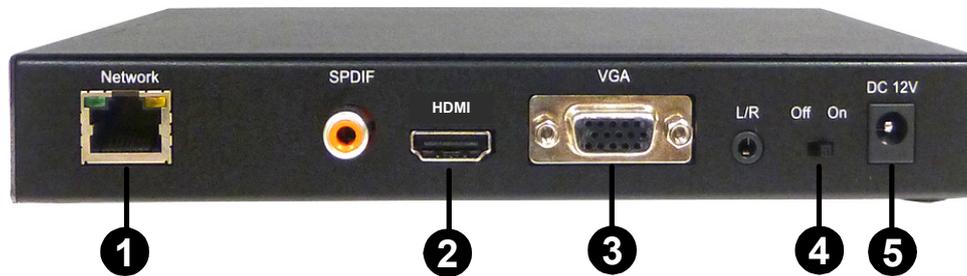
### 2.1 GV-IP Decoder Box

#### Front View



No.	Name	Function
1	LED Indicators	The green LED indicates the system is ready for use. The red LED indicates the power is supplied.
2	USB	Connect to a GV-Joystick, a USB storage device or a GV-WiFi USB adapter.
3	IR	Built-in IR receiver to receive the IR signals from the IR Remote Control.
4	Default	Reset the GV-IP Decoder Box to the default factory settings. Use a pin to press the default button until the green LED fades. This will take about 10 seconds. The system will then reset and reboot itself shortly.
5	SD Card Slot	Connect to an SD card for local storage of snapshot and firmware upgrade.

## Rear View



No.	Name	Function
1	Network	Connect to the network.
2	HDMI	Connect to an HDMI supported display device.
3	VGA	Connect to a VGA monitor.
4	Power OFF/ON	Switch the power on or off.
5	DC 12V	Connect to power by using the supplied power adapter.

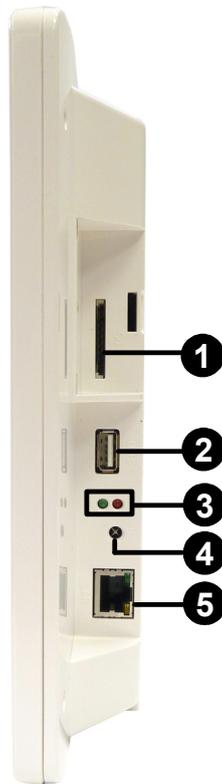
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**Note:** The SPDIF and L/R ports are not functional.

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## 2.2 GV-Pad

### Right Panel View



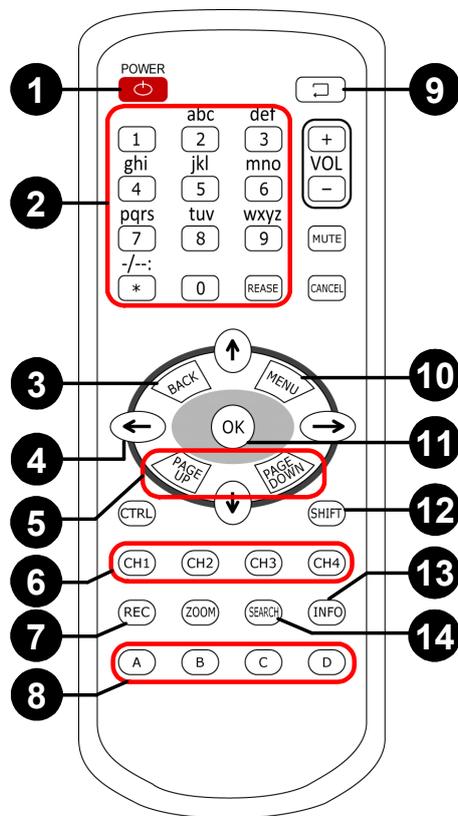
No.	Name	Function
1	SD Card Slot	Connect to an SD card for local storage of snapshot and firmware upgrade.
2	USB	Connect to a GV-Joystick, or to a USB storage device or a GV-WiFi USB Adapter.
3	LED Indicators	The <b>green</b> LED indicates the system is ready for use. The <b>red</b> LED indicates the power is supplied.
4	IR	Built-in IR receiver to receive the IR signals from the IR Remote Control.
5	Network	Connect to the network.

## Left Panel View



No.	Name	Function
1.	MENU	<ul style="list-style-type: none"> <li>● Switch to the setup menu.</li> <li>● Load default: Press for 10 seconds to load default settings.</li> </ul>
2	ENTER	<ul style="list-style-type: none"> <li>● Save settings in the Setup Menu.</li> <li>● Display selected channels.</li> </ul>
3	UP	Move the cursor up.
4	DOWN	Move the cursor down.
5	LEFT	<ul style="list-style-type: none"> <li>● Move the cursor left.</li> <li>● Unselect a channel on the Device List.</li> </ul>
6	RIGHT	<ul style="list-style-type: none"> <li>● Move the cursor right.</li> <li>● Select a channel on the Device List.</li> </ul>
7	STAND BY	Press to enter the Standby mode. In the standby mode, the screen turns off to minimize power consumption. Press the key again to enter the ON mode.
8	Power OFF/ON	Switch the power on or off.
9	DC 12V	Connect to power using the supplied power adapter.

## 2.3 The IR Remote Control



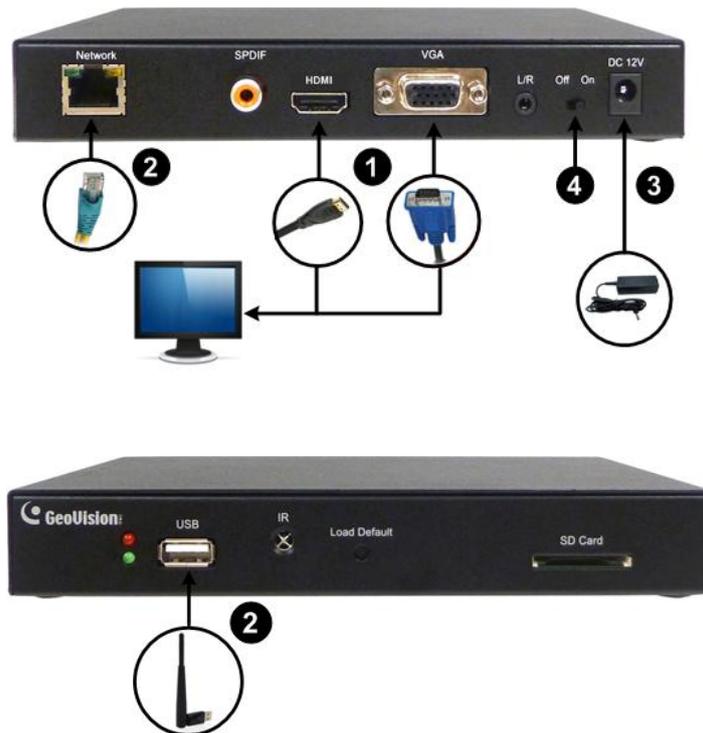
No.	Name	Function
1	POWER	Turn on or off the GV-IP Decoder Box / GV-Pad.
2	Numeric / Alphabetical / Punctuation Marks / ERASE keys	Enter numbers, alphabets or punctuation marks and erase the entered characters.
3	BACK	Back to the previous page in the Setup Menu.
4	Arrow	<ul style="list-style-type: none"> <li>Move up, down, right and left in the Setup Menu.</li> <li>Right arrow key: select a channel on the Device List.</li> <li>Left arrow key: unselect a channel on the Device List.</li> </ul>
5	PAGE UP / PAGE DOWN	<ul style="list-style-type: none"> <li>Go to the previous / next page on the main screen.</li> <li>Switch between the cameras on the looped view: press the Loop Start / Stop key to stop the looped view, and then press <b>Page Up</b> / <b>Page Down</b> to switch to the previous / next camera.</li> </ul>

No.	Name	Function								
6	Division Extension Keys (CH1 ~ CH4)	Extend the selected division (in Quad View mode) to full-monitor display. Press the same key again to resume.								
7	REC	Capture a snapshot.								
8	Capitalized alphabetical keys (A / B / C / D)	Specify a GV-IP Decoder Box / GV-Pad for IR remote control.								
9	Loop Start / Stop	<ul style="list-style-type: none"> <li>Start or stop the looped view.</li> <li>Display and fix at a channel: press the Loop Start / Stop key to stop the looped view, a numeric key and <b>OK</b> to display and fix at the selected channel. Press <b>0</b> and <b>OK</b> to return to the last displayed channel.</li> </ul>								
10	MENU	Switch to the setup menu.								
11	OK	<ul style="list-style-type: none"> <li>Save settings in the Setup Menu.</li> <li>Display selected channels.</li> </ul>								
12	SHIFT	<p>Switch among 8 resolution options.</p> <ol style="list-style-type: none"> <li>Press <b>Shift</b>. The Green LED on the front panel flashes.</li> <li>Press No. 0 ~ 7 for the desired resolution within 30 seconds.</li> </ol> <table style="margin-left: 40px;"> <tr> <td>0 : VGA_640 x 480</td> <td>4 : HDMI_480p</td> </tr> <tr> <td>1 : VGA_1024 x 768</td> <td>5 : HDMI_720p</td> </tr> <tr> <td>2 : VGA_1280 x 768</td> <td>6 : HDMI_1080i</td> </tr> <tr> <td></td> <td>7 : HDMI_1080p</td> </tr> </table> <p>Note after the resolution is configured, the green LED will fade and GV-IP Decoder Box / GV-Pad will reboot automatically.</p>	0 : VGA_640 x 480	4 : HDMI_480p	1 : VGA_1024 x 768	5 : HDMI_720p	2 : VGA_1280 x 768	6 : HDMI_1080i		7 : HDMI_1080p
0 : VGA_640 x 480	4 : HDMI_480p									
1 : VGA_1024 x 768	5 : HDMI_720p									
2 : VGA_1280 x 768	6 : HDMI_1080i									
	7 : HDMI_1080p									
13	INFO	Shows the camera name and total number of cameras under display.								
14	SEARCH	Scan for available Access Points or wireless stations when wireless network is selected.								

## 3. Connection

### 3.1 GV-IP Decoder Box

Follow the steps below to connect the GV-IP Decoder Box:



1. Connect a display device to VGA or HDMI connector for video output.
2. Connect the device to LAN.
  - A. For wired network, connect to a standard network cable.
  - B. For wireless network, insert a Wi-Fi USB adapter.
3. Connect to power using the supplied power adapter.
4. Turn the Power switch to ON.

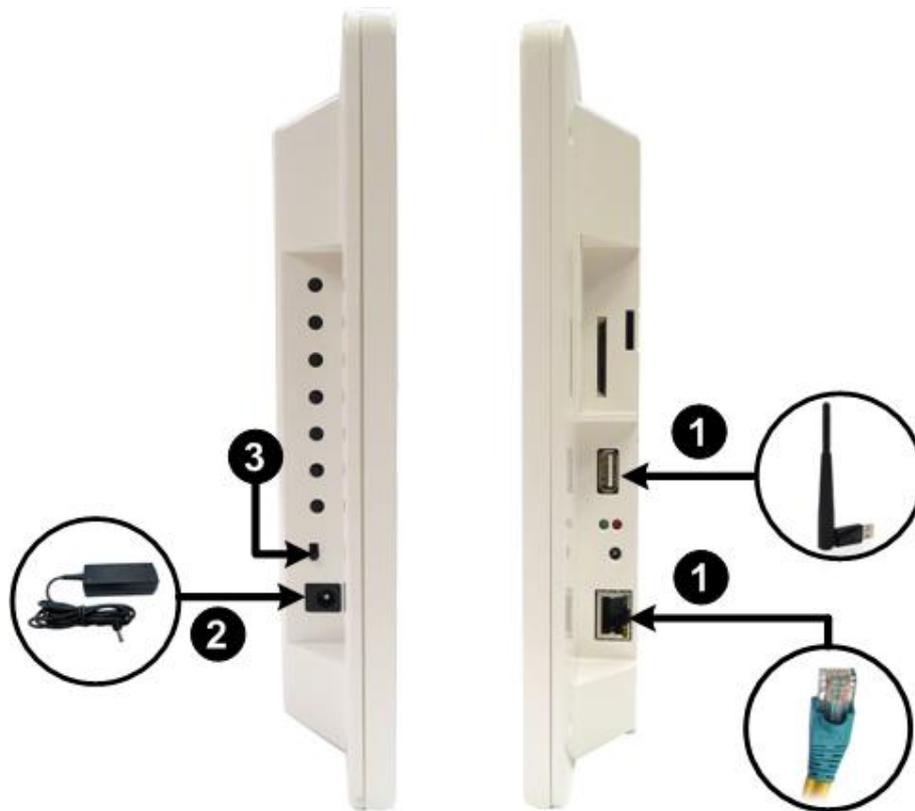
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**Note:**

1. You can only connect the GV-IP Decoder Box to one display device through the HDMI or VGA connector.
  2. The default video output is set to VGA with 1024 x 768 resolutions. If you use an HDMI monitor, be sure to change the output type. See *3.5 Configuring the Account, Storage and Output Type* in *GV-IP Decoder Box / GV-Pad User's Manual*.
  3. Optionally configure the device date and time. For details, see *3.5 Configuring the Account, Storage and Output Type* in *GV-IP Decoder Box / GV-Pad User's Manual*.
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## 3.2 GV-Pad

Follow the steps below to connect the GV-Pad:



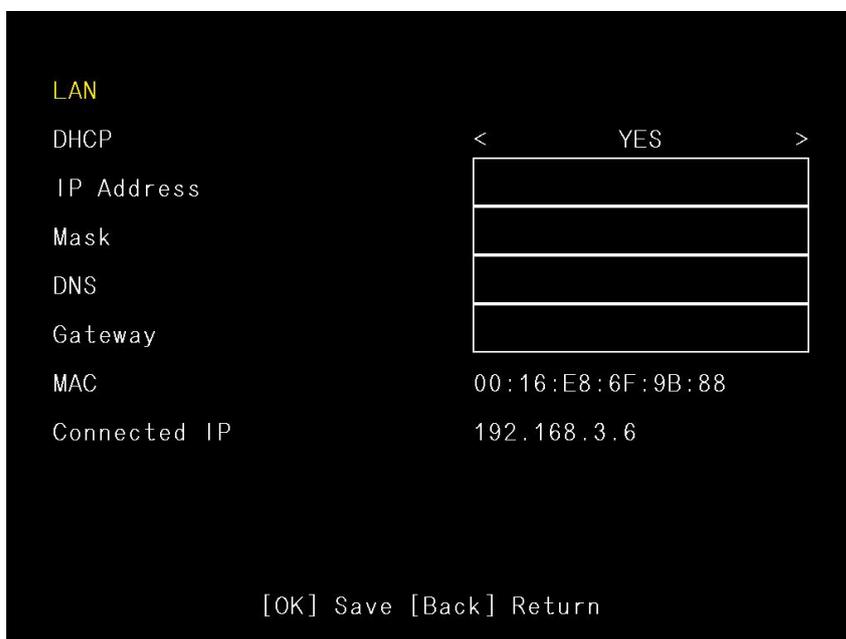
1. Connect the device to LAN.
  - A. For wired network, connect to a standard network cable.
  - B. For wireless network, insert a Wi-Fi USB adapter.
2. Connect to power using the supplied power adapter.
3. Turn the Power switch to **ON**.

## 4. Setting up the Network

### 4.1 Wired Network Connection

Using wired network, the GV-IP Decoder Box / GV-Pad will be **automatically assigned an IP address** by the DHCP server by default. To change the IP address to a fixed one, follow the steps below.

1. Select the  icon, select **LAN Setting** and press **OK**. This window appears.



The screenshot shows a menu titled "LAN" with the following options and values:

Option	Value / Action
DHCP	< YES >
IP Address	[Empty input field]
Mask	[Empty input field]
DNS	[Empty input field]
Gateway	[Empty input field]
MAC	00:16:E8:6F:9B:88
Connected IP	192.168.3.6

At the bottom of the menu, there are navigation options: [OK] Save [Back] Return.

2. Select **NO** in the DHCP section and enter a fixed IP address, subnet mask and DNS and gateway.
3. Press **OK**. When the device is connected to the network, the IP address will be shown in the **Connected IP** field.

## 4.2 Wireless Network Connection

A GV-WiFi USB Dongle is required to connect the device to wireless network. To establish a wireless network connection, follow the steps below.

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**Note:** The GV-IP Decoder Box / GV-Pad only supports dynamic IP address assignment (DHCP) in a wireless network.

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1. Select the  icon, select **WLAN Setting** and press **OK**. This window appears.



2. Press the **Search** button to scan for available Access Points / wireless stations.
3. Select an Access Point / wireless station in the **ESSID** field and complete the settings below.
  - **ESSID:** Shows the name of the Access Point. Press the left and right button to select an Access Point.
  - **Quality:** Shows the connection quality on a scale of 1 to 100, with 100 being the highest quality.
  - **AuthMode:** Select **WEP Auto** or **WPAPSK** according to the encryption setting of the Access Point.
  - **EncryMode:** Select the Encryption Mode according to the encryption setting of the Access Point.
  - **Password:** Type a password to match the Access Point. You can type up to 26 characters.
4. Press **OK** to connect to wireless LAN. When the device is connected to the network, the IP address will be shown in the **Connected IP** field.

## 5. Displaying Channels on the Monitor

Use the search feature  on GV-IP Decoder Box / GV-Pad to display channels from GV-IP Devices, GV-Mobile Server and the third-party devices that adhere to ONVIF under the same LAN.

Before you start, make sure the following:

- All IP devices and GV-Mobile Server must be under the same LAN with GV-IP Decoder Box / GV-Pad.
- The NVR port (of GV-IP Decoder Box / GV-Pad) and VSS port (of GV-IP Devices) or Command Port (of GV-Mobile Server) must be the same. The default NVR and VSS port is **10000**.
- The ID and password for all IP devices and GV-Mobile Server must be the same. By default, the ID and password of GV-IP Devices are **admin**.

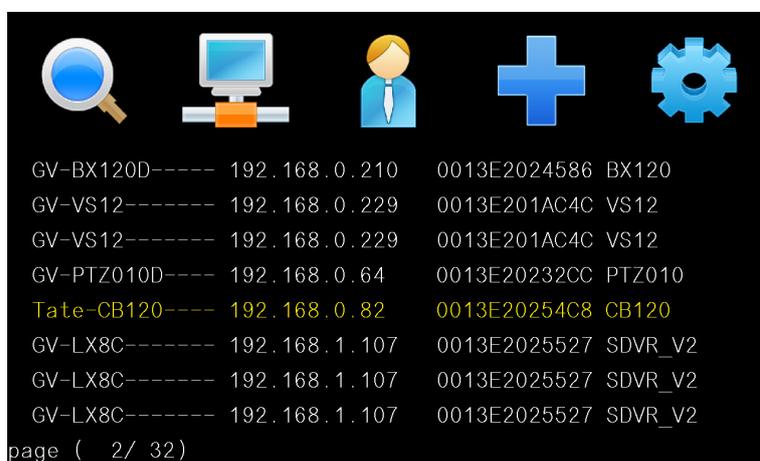
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**Note:** The Command Port of GV-Mobile Server is **55000** by default. To change the port value, see [2.6 Displaying Channels from GV-Mobile Server in GV-IP Decoder Box / GV-Pad User's Manual](#).

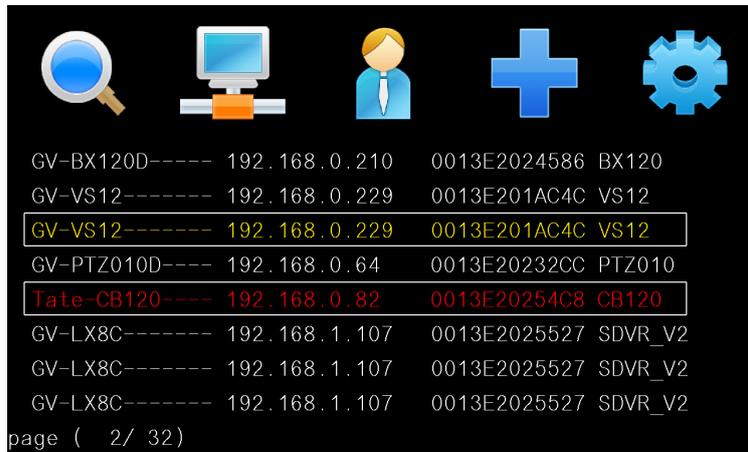
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### 5.1 Displaying Channels in Single View

1. Select the  icon and press **OK**. The devices under the same LAN with the GV-IP Decoder Box / GV-Pad appears on the Device List.



- To select channels, press the up and down arrow keys and press the right arrow key. The selected channels will be in red. To cancel the selection, press the left arrow key.



- Press **OK**.

The selected channels will be displayed on the monitor and be looped at an interval of 30 seconds by default.

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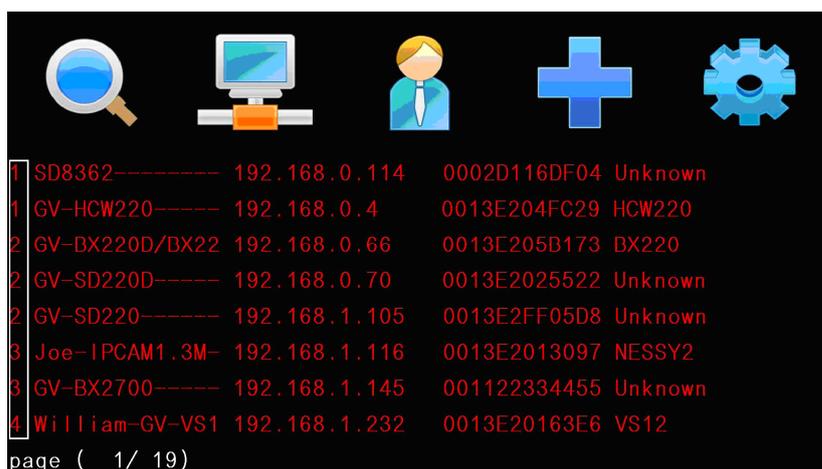
**Note:**

- The camera view will display the message “Connection Lost” if the device does not have the same ID and password with GV-IP Decoder Box / GV-Pad. To add a single IP device with a different ID and password, see [2.4.3 Adding Channels Manually](#) in *GV-IP Decoder Box / GV-Pad User’s Manual*. To add multiple IP devices with different IDs and passwords, see [6 Displaying Channels Using GV-IP Device Utility](#) in the Quick Start Guide.
  - The GV-IP Decoder Box supports a maximum resolution of 5 MP for single view. The message “Resolution Error” appears on the monitor when the connected stream exceeds this specification limit.
  - To change the looping interval, see [CAM Loop Time Interval](#) in [3.3 Configuring the Play Mode](#) in *GV-IP Decoder Box / GV-Pad User’s Manual*.
  - Every time when the search function  is performed, any channels selected previously on the Device List will be unselected.
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## 5.2 Displaying Channels in Quad View

By default, the GV-IP Decoder Box / GV-Pad displays the camera channels in Single View. To change the view mode to Quad View and add channels, follow the steps below.

1. Select the  icon and press **OK**. In the **Play Mode** field, select **SPLIT PLAY 4** and press **OK**.
2. To search for IP devices, select the  icon and press **OK**. The devices under the same LAN with the GV-IP Decoder Box / GV-Pad appear on the Device List.
3. Select a channel and press a number from 1 to 4 to set the channel to one of the four divisions on the Quad View for display. The selected channel will be in red, with a number at the front. To reset the division, press the left arrow key on the channel and select another number.



*Corresponding position on Quad View to the number set for selected channel*

1	2
3	4

4. Press **OK**.

The selected channels will be displayed on the assigned divisions on the Quad View, and the channels in the same division will be looped at an interval of 30 seconds by default.

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**Tip:** Press the CH1 ~ CH4 keys to extend a division to full-monitor view (in its Quad View resolution) and press the key again to resume.

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**Note:**

1. The GV-IP Decoder Box supports a maximum resolution of 1280 x 720 for each division under quad view. The message “Resolution Error” appears on the monitor when the connected stream exceeds this specification limit.
  2. Refer to the note under *5.1 Displaying Channels in Single View* in the Quick Start Guide.
-

## 6. Displaying Channels Using GV-IP Device Utility

You may utilize the GV-IP Device Utility to add channels from GV-IP Devices, GV-System (with GV-Mobile Server) and third-party IP devices that adhere to RTSP, ONVIF or PSIA.

This approach is recommended for adding multiple IP devices that have different IDs and passwords with GV-IP Decoder Box / GV-Pad.

Before you start, make sure the following:

- All IP devices and GV-Mobile Server must be under same LAN with the GV-IP Decoder Box / GV-Pad.
- You have installed the GV-IP Device Utility on a computer under the same LAN.

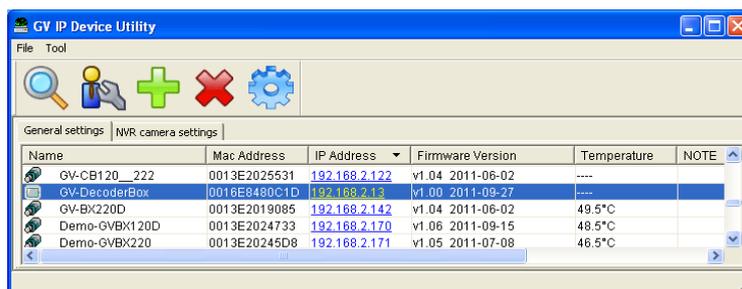
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**Note:** For GV-Mobile Server version 1.2 or earlier, you need to modify its Command Port to **39000** for being detected through GV-IP Device Utility.

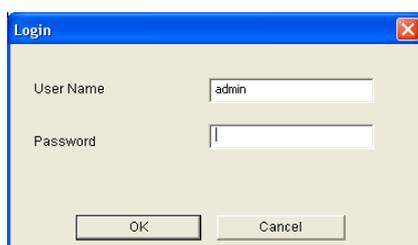
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### 6.1 Adding a GV-IP Device

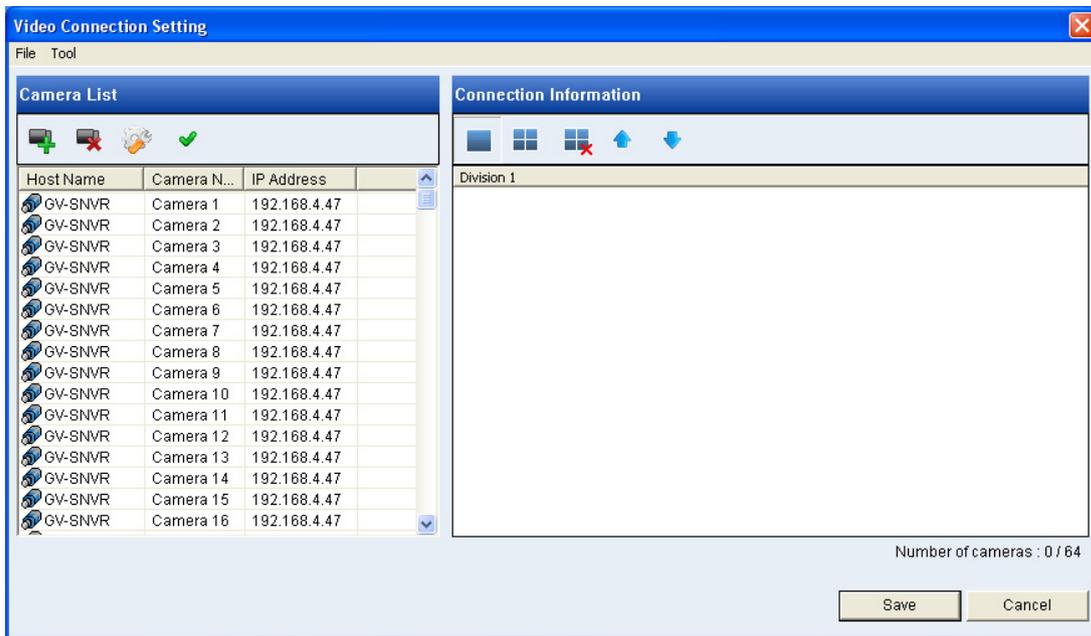
1. Run the GV-IP Device Utility from the Software DVD. The GV-IP Device Utility window appears. It automatically searches all the GV-IP Devices under the same LAN.



2. Double-click the IP address of your GV-IP Decoder Box / GV-Pad and select **Connect Setting**. This dialog box appears.

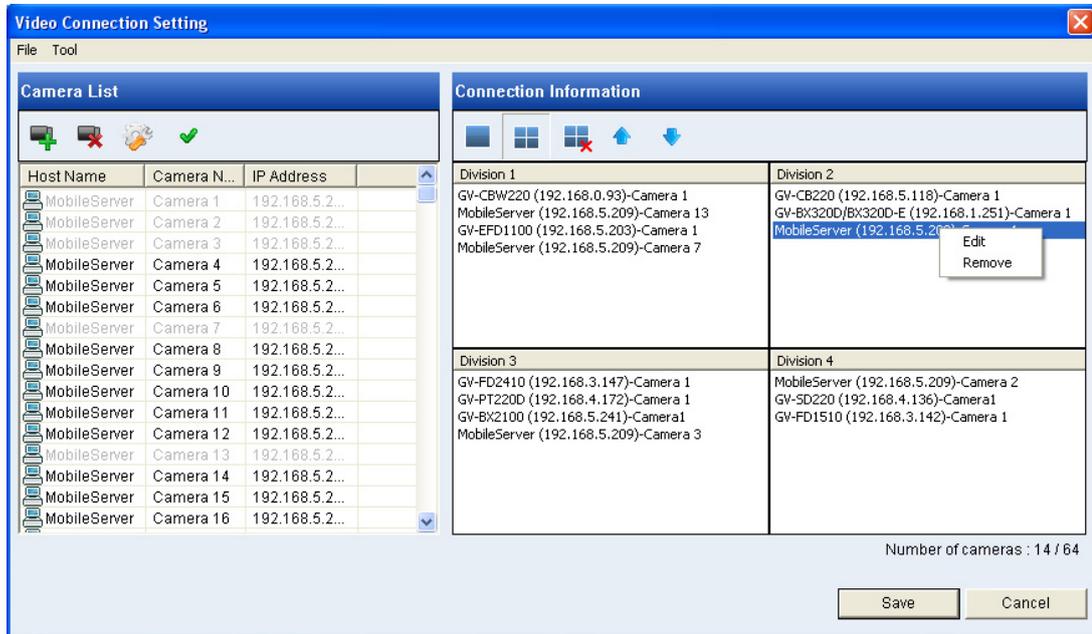


3. Type the ID and password of your GV-IP Decoder Box / GV-Pad and click **OK**. The default ID and password are **admin**. The Video Connection Setting window appears.



4. Use the Camera List toolbar to add, remove or configure a selected camera in the Camera List. Click the **Select All** button to select all the cameras on the list.
5. Select the play mode using the Connection Information toolbar. For single view, click the **1 Division** button . For quad view, click the **4 Division** button .
6. Add channels to the Connection Information column.
  - A. Drag and drop the camera from the Camera List to the Connection Information column.
  - B. Use the **Move Up**  and **Move Down**  buttons to change the display order of these channels.
  - C. To remove a selected camera, click the **Remove**  button.

- D. If you have changed the default ID and password of the added GV-IP Devices and GV-Mobile Server, right-click the channel, select **Edit** and type the username and password to log in for connection. By default, the login ID and password for all GV-IP Devices are **admin**.



7. Click **Save**.

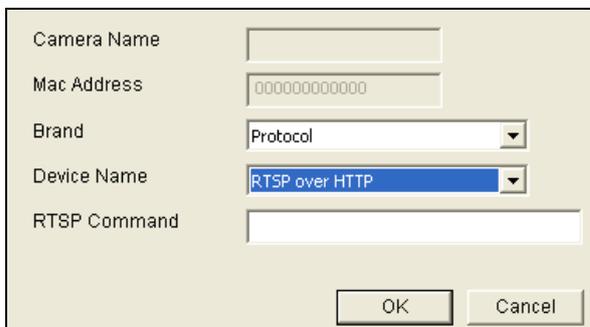
The cameras on the Connection Information column will be updated to the GV-IP Decoder Box / GV-Pad and looped at a 30-second interval by default.

## 6.2 Adding a Third-party Device

1. Click the **Add Camera** button  on the Video Connection Setting window. This dialog box appears.



2. Type the IP address, user name and password of the device.
3. Select **Protocol** for Brand and one of the following protocols for Device Name. Type the RTSP command if required. Refer to your third-party IP camera's manual for this command.



- **ONVIF:** Select this protocol if your camera adheres to ONVIF.
- **PSIA:** Select this protocol if your camera adheres to PSIA.
- **RTSP over HTTP:** The RTSP protocol uses an HTTP port for data streaming from the IP camera.
- **RTSP over TCP:** The RTSP protocol uses a TCP port for data streaming from the IP camera.
- **RTSP over UDP:** The RTSP protocol uses a UDP port for data streaming from the IP camera.

4. For ONVIF and PSIA, modify the Port to 80, else keep the port in default.

Port	<input type="text" value="80"/>
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5. Click **OK**. The camera is added to the list.
6. Follow steps 5 and 6 in *6.1 Adding a GV-IP Device* to set up the play mode and displaying order for channels.
7. Click **Save**.

The cameras on the Connection Information column will be updated to the GV-IP Decoder Box / GV-Pad and displayed on the monitor with the looping interval of 30 seconds by default.

## 7. Taking Snapshots

The security administrators can take snapshots as events occur. These snapshots are automatically saved to the selected storage device (USB drive or SD card) in JPEG format.

Before you start, be sure:

- You have inserted a USB drive or SD card for storage.
- You have at least 30 MB of space on your storage device.
- The storage type is configured as FAT32 format.

Otherwise, the error icon  will appear when attempting to capture an image.

1. On the main menu, select  and select the inserted storage device under **Storage**.
2. Press the  key to capture the image. A camera icon appears at the top right corner of the monitor and 3 consecutive snapshots will be taken and saved to the storage device.

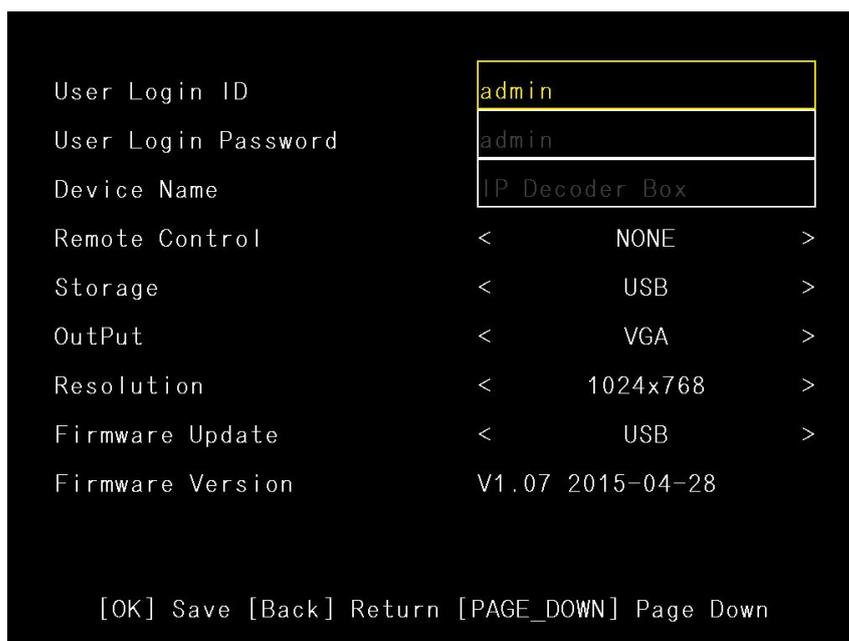


## 8. Upgrading the Firmware

We will periodically release the updated firmware on the website. You may choose to upgrade firmware locally using a USB drive or SD card.

Before you start, be sure:

- You have inserted a storage device (USB drive or SD card) which contains one firmware file only.
1. Copy the firmware file to the root folder of a USB drive or an SD card.
  2. Connect the USB drive or SD card to the GV-IP Decoder Box / GV-Pad.
  3. On the setup menu, select  and press **OK**. This window appears.



4. In the **Firmware Update** field, select **USB** or **SD** storage that stores the firmware file.
5. Press **OK**. The firmware upgrade runs automatically, and the GV-IP Decoder Box / GV-Pad will restart after the firmware upgrade is completed.

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**Note:** To upgrade the firmware remotely through GV-IP Device Utility, see [3.6.2 Upgrading Firmware through GV-IP Device Utility in GV-IP Decoder Box and GV-Pad User's Manual](#).

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