GV-Eye Mobile App.

Contents

GV-Eye

Use GV-Eye to monitor remote sites from your iOS or Android devices. With GV-Eye, you can watch multiple live views, play back recordings, trigger a remote output and take snapshots from your mobile device.

1.1　Specifications

Supported OS	iOS 8 ~ 11.0.2 ; Android 4.1.2 ~ 7.0
Default Port Settings	• GV-IP devices (VSS Port): 10000 (connection); 5552 (Playback) • GV-Recording Server/Video Gateway Server: 11000 (connection); 5552 (playback) • GV-Mobile Server: 55000 (connection) • GV-VMS: 56000 (connection); 5552 (playback) • GV-DVR/NVR: 56000 (connection); 5552 (playback) • GV-SNVR: 10000 (connection); 80 (playback)
Codec	MPEG4, MJPEG, H.264 and H.265
Resolutions	Up to 12 MP (4000 x 3000)
Functions	Live View, PIP (Picture-in-picture), Fisheye Dewarping (optional), PTZ Control & Preset, Remote Playback, I/O Output trigger, Snapshot, 2-Way Audio, Stream Switching, Device Search, Hardware Decoding

Note:

1. Hardware decoding is only supported by devices using Android 4.1 or later and that contain a GPU (graphic processing unit).

2. Access is only allowed for **Admin** users when connecting to GV-IP devices.

3. By default, GV-Eye connects to stream 2 of any GV-IP device, which is in H.264 codec and CIF resolution.

4. Fisheye Dewarping is an optional and a paid function. For details, see *1.10 Fisheye Dewarping*.

5. The GV-Eye is compatible with GV-DVR/NVR of version 8.6 and GV-VMS of version 16.10.3.0 or later.

1.2   Supported GV-IP Devices and Software

GV-Eye is compatible with the following GV-IP devices and video management software.

Note: To upgrade your GV-IP devices to the latest firmware, please visit http://www.geovision.com.tw/download/product/.

1.2.1   Supported Products

GV-IP Camera

- **GV-BL110D, GV-BX110D, GV-MFD110, GV-FE110/111 and GV-PT110D** (firmware V1.01 or later)
- **GV-PTZ010D** (firmware V1.09 or later)
- **GV-SD220/220S and GV-SD010/010S** (firmware V1.02 or later)
- **GV-SD3732-IR, GV-SD2322-IR, and GV-EBD4700** (firmware V1.0 or later)
- **GV-Target IP Cameras** (firmware V1.01 or later)
- **Other GV-IP Cameras** (firmware V2.11 or later)
- **UVS-ABD1300, UVS-ABL1300, UVS-ADR1300, EVS-ABD1300, EVS-ABL1300, and EVS-ADR1300** (firmware V1.0 or later)

Note: GV-SD200 and GV-SD200S are not supported.

GV-Compact DVR

- **GV-Compact DVR V2** (firmware V1.10 or later)
- **GV-LX4C3 Series 4-Ch Compact DVR V3** (firmware V1.04 or later)
- **GV-LX8C Series 8-Ch Compact DVR V3** (firmware V1.02 or later)

GV-Video Server

- **GV-VS04A** (firmware V1.06 or later)
- **GV-VS11** (firmware V1.03 or later)
- **GV-VS12** (firmware V1.07 or later)
- **GV-VS14** (firmware V1.01 or later)
- **GV-VS2400 / 2420** (firmware V1.00 or later)
- **GV-VS2800 / 2820** (firmware V1.00 or later)

Surveillance System

- **GV-SNVR0400F** (firmware V1.00 or later)
- **GV-SNVR0411** (firmware V2.00 or later)

- **GV-SNVR1600** (firmware V1.00 or later)
- **GV-SNVR0811** (firmware V1.00 or later)

Note: For GV-SNVR0400F, the playback is not supported using GV-Eye. For GV-SNVR1600, the playback is only supported by firmware V1.2 or later.

Video Management Software
- **GV-Mobile Server** (V1.3 or later)
- **GV-Recording Server** (V1.22 or later)
- **GV-Video Gateway** (V1.22 or later)
- **GV-VMS** (V14.10 or later)
- **GV-DVR/NVR** (V8.6 or later)

1.2.2   Supported Products for Monitoring Activation

GV-IP Camera
- **GV-BL110D, GV-BX110D, GV-MFD110, GV-FE110/111 and GV-PT110D** (firmware V1.01 or later)
- **GV-PTZ010D** (firmware V1.09 or later)
- **GV-SD220/220S and GV-SD010/010S** (firmware V1.02 or later)
- **GV-SD3732-IR, GV-SD2322-IR, and GV-EBD4700** (firmware V1.0 or later)
- **GV-Target IP Cameras** (firmware V1.01 or later)
- **Other GV-IP Cameras** (firmware V2.11 or later)
- **UVS-ABD1300, UVS-ABL1300, UVS-ADR1300, EVS-ABD1300, EVS-ABL1300, and EVS-ADR1300** (firmware V1.0 or later)

Note: GV-SD200 and GV-SD200S are not supported.

GV-Video Server
- **GV-VS11** (firmware V1.03 or later)
- **GV-VS12** (firmware V1.07 or later)
- **GV-VS14** (firmware V1.01 or later)

Video Management Software
- **GV-VMS** (V15.10 or later)
- **GV-NVR** (V8.7.1.0 or later)

## 1.2.3 Supported Products for Assigning NAS Storage Path

GV-IP Camera

- **GV-Target IP Cameras** (firmware V1.02 or later)
- **Other GV-IP Cameras** (firmware V3.0 or later)

1.3   Installing GV-Eye

You can download GV-Eye from the **App Store** or **Android Market** and install the application. The GV-Eye icon appears on the desktop of your mobile device.

Tap to open the app. Upon the first launch, you will be directed to a dialogue box to enable or disable **Demo Mode** (see *1.9 System Settings*). Select **Yes** to enable **Demo Mode** for trial experience of GV-Eye features. Select **No** to disable **Demo Mode** and connect your GV-IP devices and software with the app.
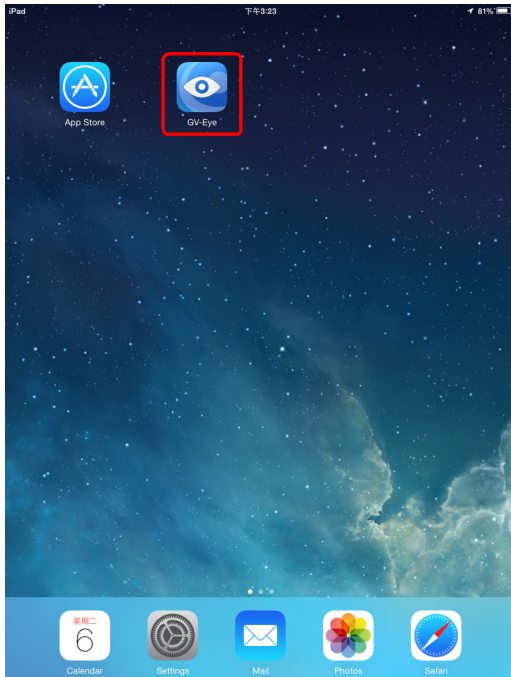
GV-Eye icon on iPad
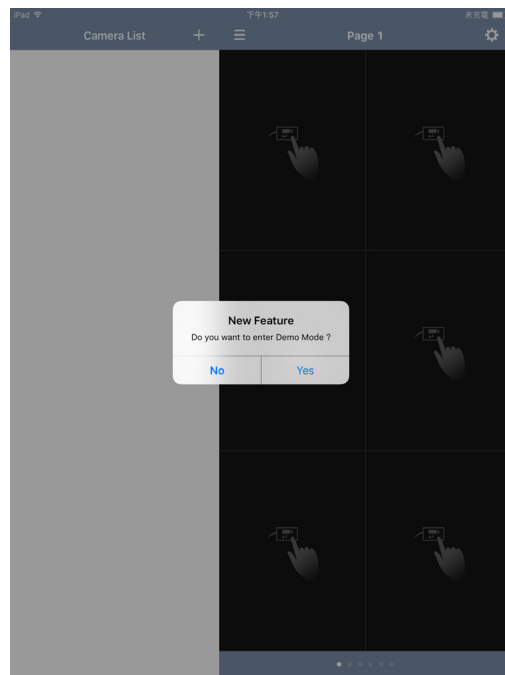
Dialogue Box of Demo Mode on iPad

1.4 Main Page

Tap the GV-Eye icon on the desktop of your device. The GV-Eye main page appears. **iPad** screenshot is used as an example.
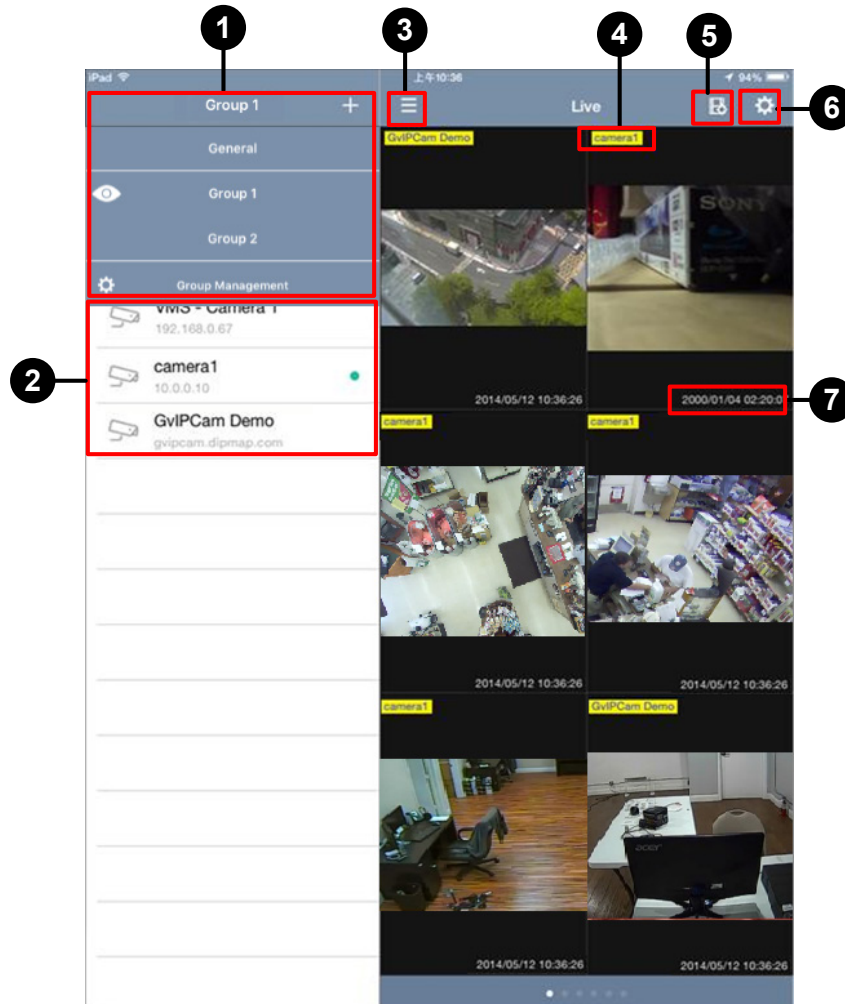
No.	Name	Function
1.	Group List	Manages groups for GV-IP devices. For details, see *Group Management* in this installation guide.
2.	Camera List	Adds and removes connections to GV-IP devices and software. For details on adding a camera, see *Connecting to GV-IP Devices and Software* in this installation guide.
3.	Full Screen	iPads and Android Tablets: Opens and closes the Camera List. iPhones, iPod Touch and Android Phones: Opens the Camera List.

4.	Device Name	Shows the device name. The icon shows red when the recording is enabled.
5.	Edge Setting	Configures IP address and recording storage path of the device.
6.	Settings	Tap this button to access the GV-Eye settings. For details, see the *Settings* section later in this installation guide.
7.	Device Time	Shows the device time.

1.5 Connecting to GV-IP Devices and Software

Follow the steps below to connect your mobile device to GV-IP devices and software. **iPad** screenshots are mainly used as examples.

1.5.1 Automatic Connection

1. Click the **GV-Eye** icon [icon] on the desktop of your mobile device. This page appears.
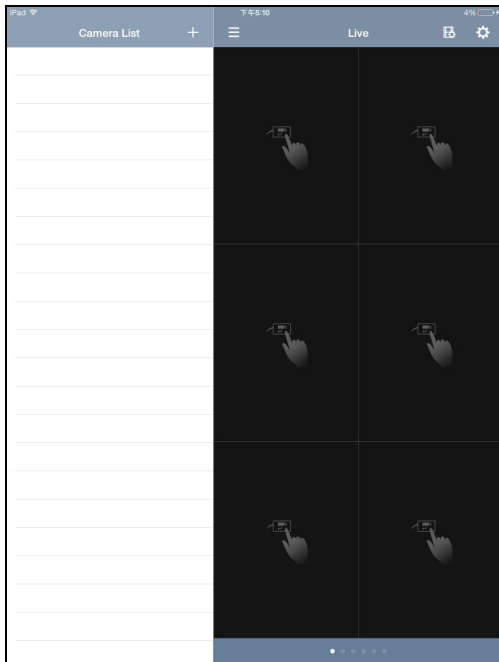
2. Tap the **Add** button [icon]. This page appears.
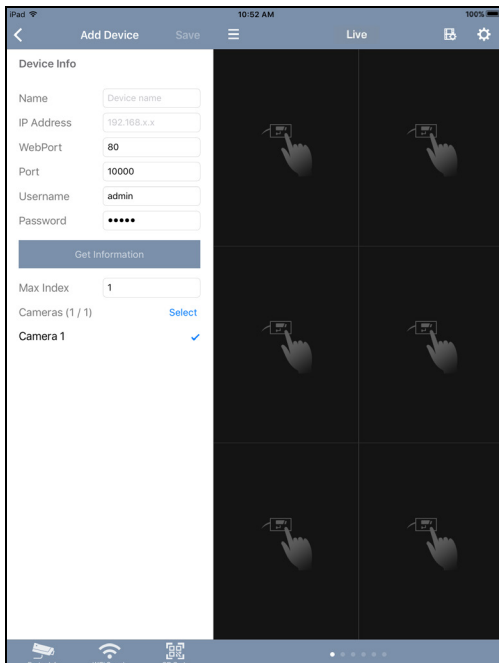
3. Enable **WiFi Search** to detect any GeoVision IP devices and software under the same LAN.
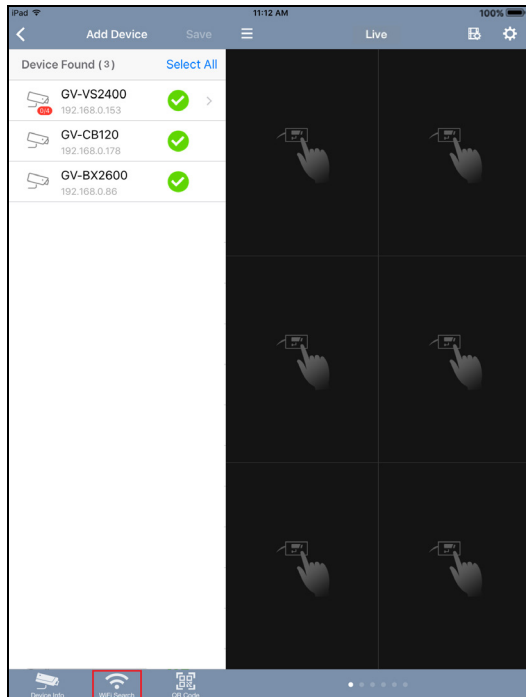
4. Select desired devices and software and tap **Save**.
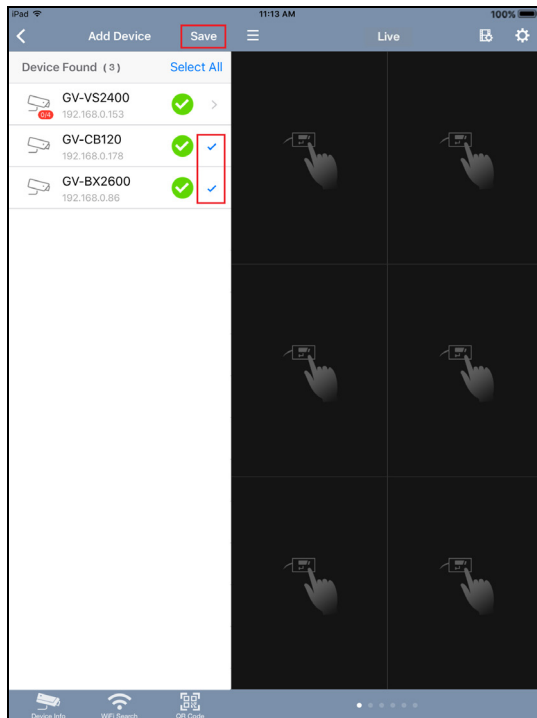
5. To display a camera live view, follow the steps below.

- On iPads and Android tablets, tap and drag the camera from the Camera List to the live view grid you want.
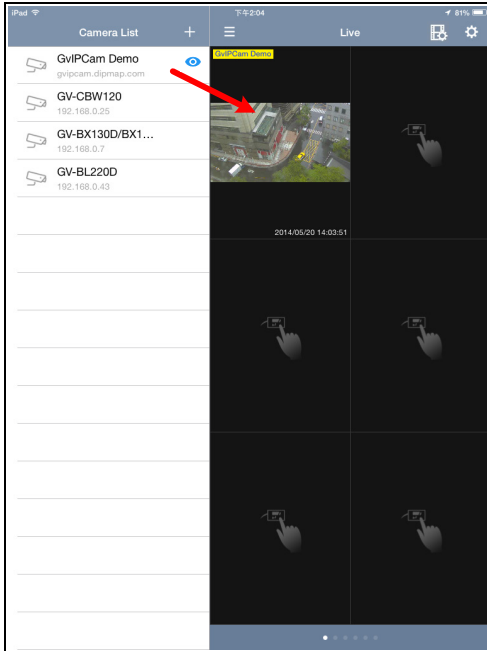
- On iPhones and Android phones, tap the + sign on the live view grid you want and select a camera from the popped-up Camera List.
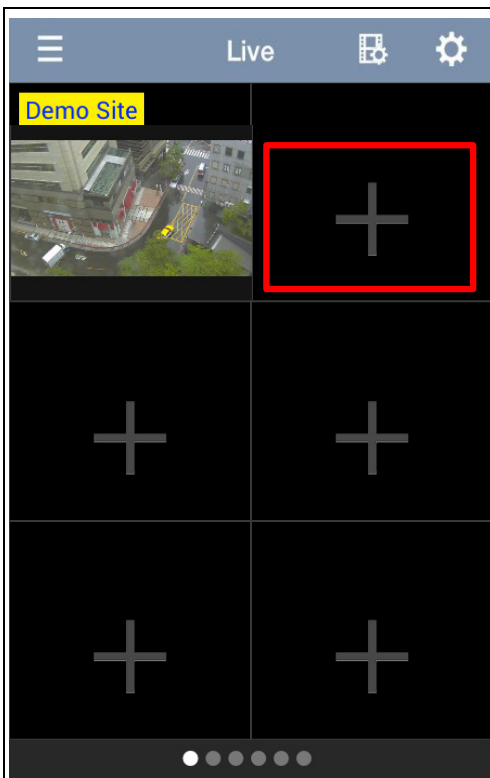
6. To remove a live view, tap and hold the live view and drag the live view into the trash can icon.
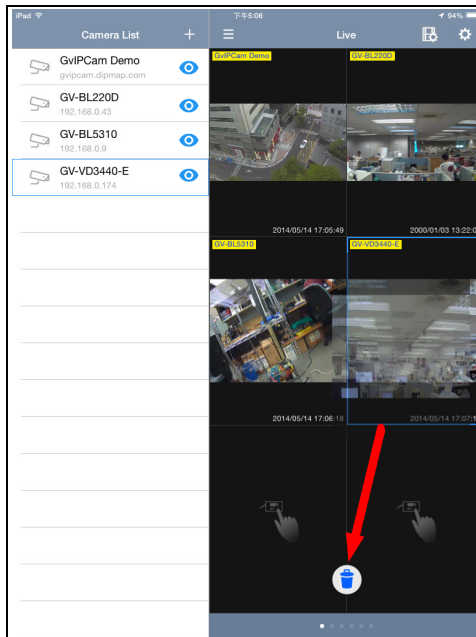
7. To delete an entry from the Camera List, glide the entry to the left and tap **Delete**.
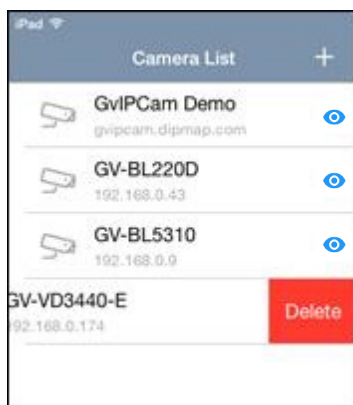
Tip: To delete all the entries on the Camera List, tap **Delete All Entries on Camera List** from the Settings page. For details, see *1.9 System Settings*.

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8. To change the device information, tap the entry from the Camera List to modify. The modified camera will be reconnected after you save the settings.

Note: You can assign up to 96 channels on the live-view pages, but access only 16 channels of live views on a single page at the same time.

1.5.2   Manual Connection

1. Follow Step 1 to 2 in *1.5.1 Automatic Connection* to access the Add Device page.

2. On the Add Device page, enter the IP address, port number, username and password of the GV-IP device or software and enter a name.

Note:

1. For different GV-IP devices and software, you need to modify the **Port Number** when setting up the above connection. For example, to connect GV-DVR/NVR/VMS, type port 56000. For a list of default port numbers for GV-IP devices and software, see *System Requirements* earlier in this Installation Guide.

   If a router or firewall is installed with these remote servers and IP devices, ensure the corresponding port is open too. Refer to http://portforward.com/english/routers/port_forwarding/

2. To allow mobile access to GV-DVR/NVR/VMS, enable the ViewLog and mobile function in advance. From the main screen on GV-VMS, select **Toolbar** 🔧, select **Network** 🖧 and then select **WebCam Server**. From the main screen on GV-DVR/NVR, select **Network** 🖧 and then select **WebCam Server.**
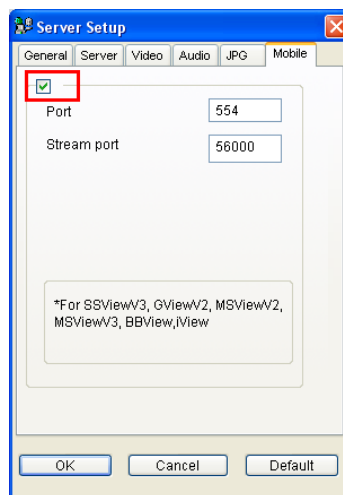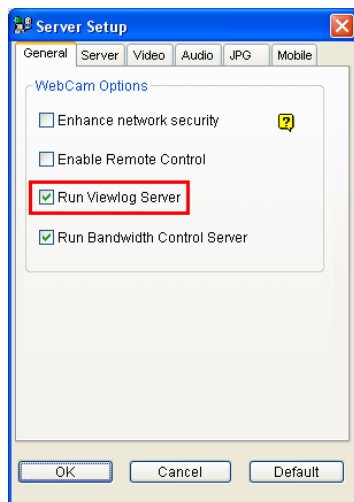
3. Click **Get Information**. The total number of cameras and each installed GV-IP Cameras are displayed.

4. By default, all the installed cameras are selected. To change this setting, deselect the cameras by tapping the check marks next to the cameras, or tap **Select** to set the range of cameras to add.

5. Tap **Save** on the top-right corner. The selected cameras are added to Camera List.
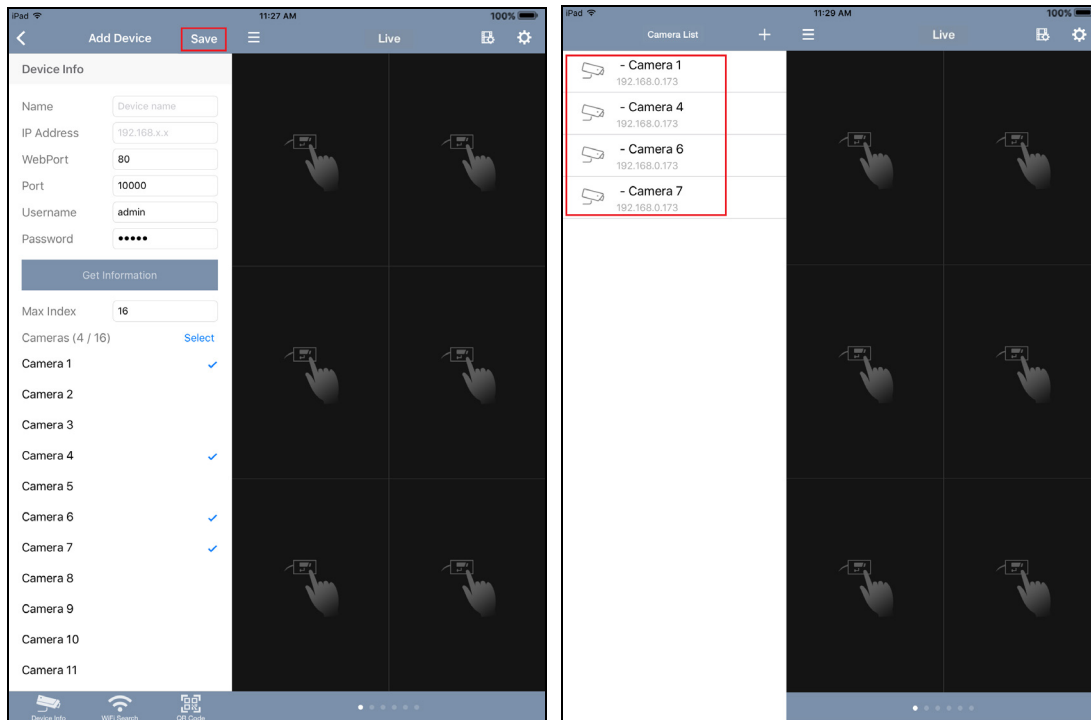
6. To display, disconnect live view and remove a camera from the list, refer to Step 5 to 8 in *1.5.1 Automatic Connection*.

1.5.3   Group Management

Follow the steps below to create different groups for your GV-IP devices. You can create up to 8 groups.

1. In the Settings page (*No. 6, 1.4 Main Page*), click **Group Management**.
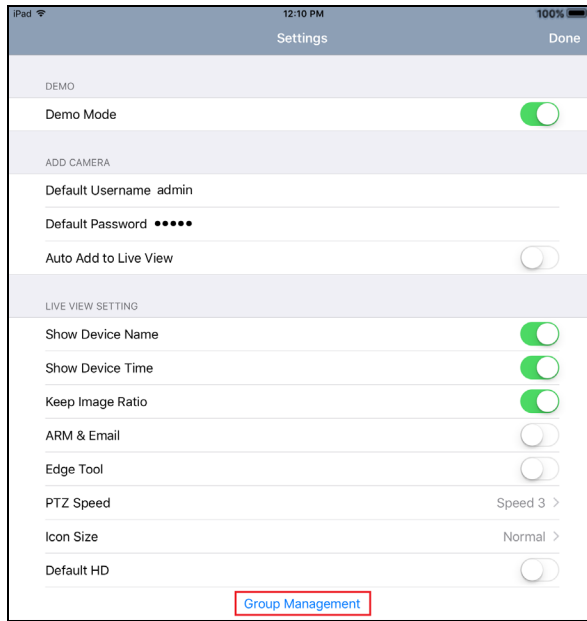
2. On the Group Management page, name the group, for example, Group 1, Group 2, and etc.
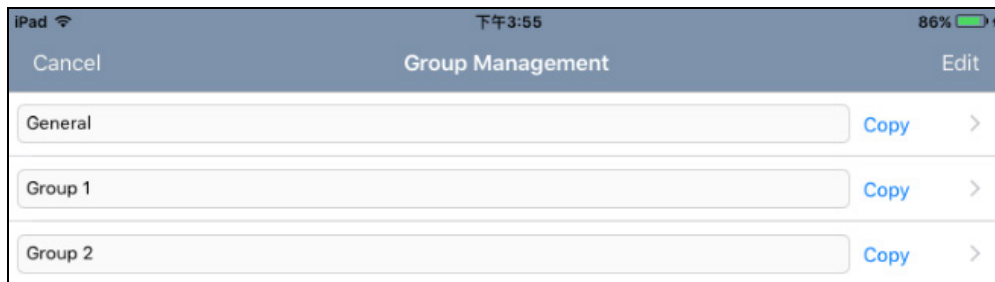
3. To edit the name of a group or to delete a group, click **Edit**.

4. To choose layouts for each group, click the > sign. There are 6 pages in total with each displaying up to 16 channels of live view.

Tap to save your settings

Tap to edit the name of the layout

Tap and scroll to select a layout template

Tap and hold to change the order of the pages
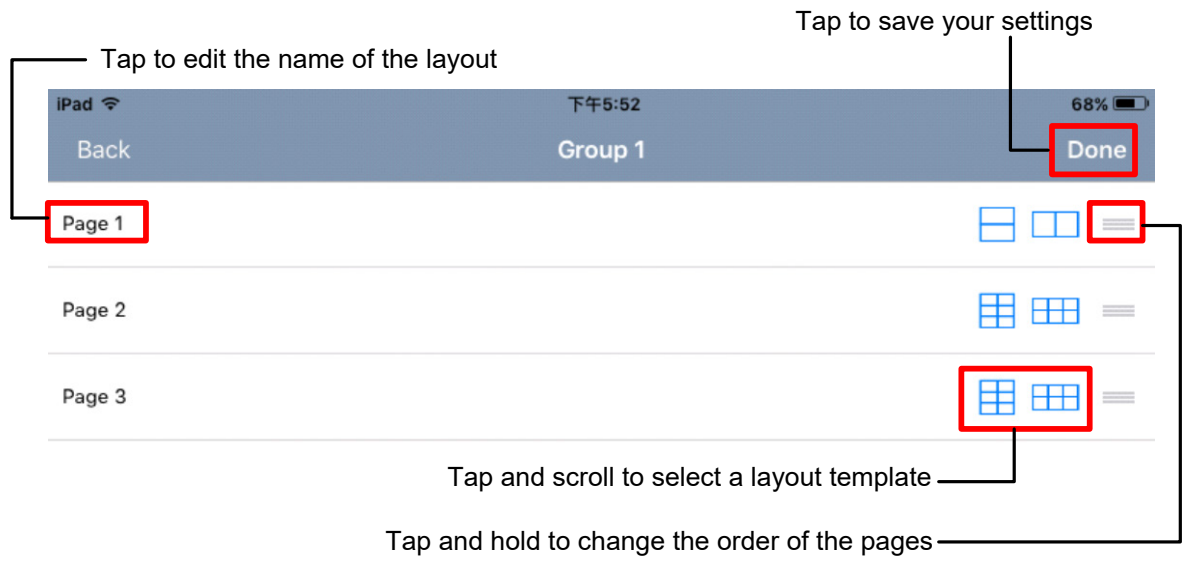
5. Return to the main page and select a desired group for adding IP devices.

Click to display the drop-down list of the group menu
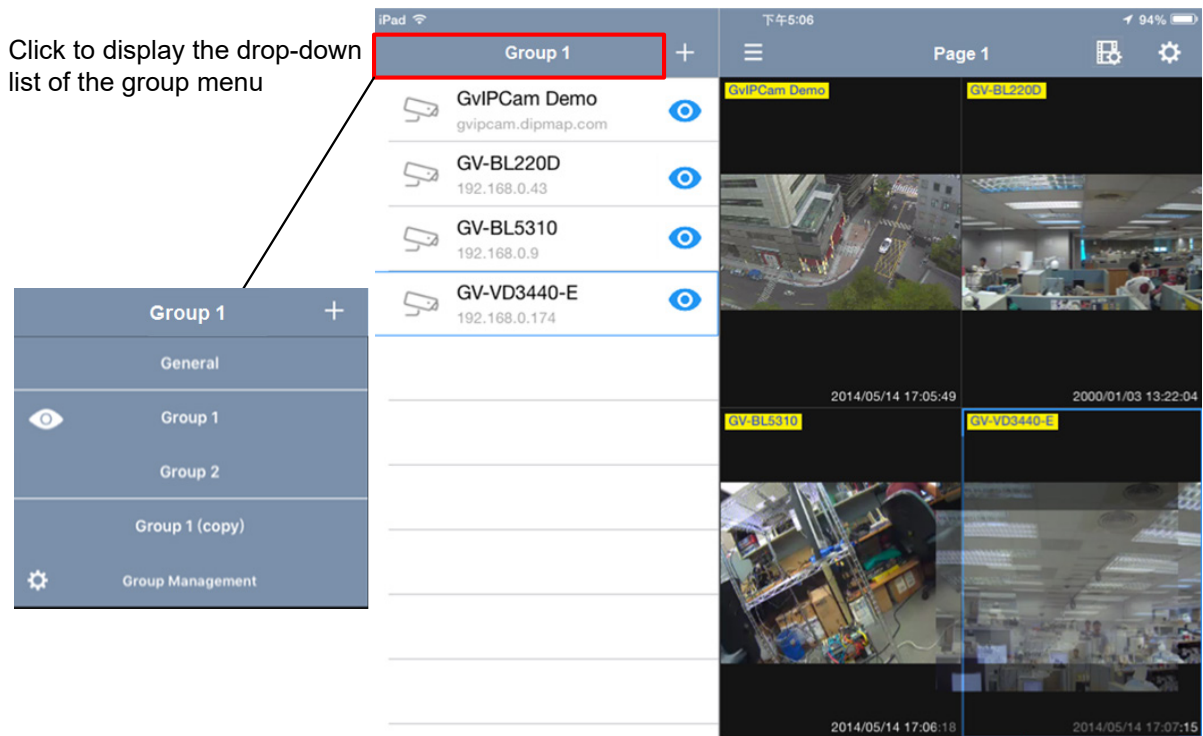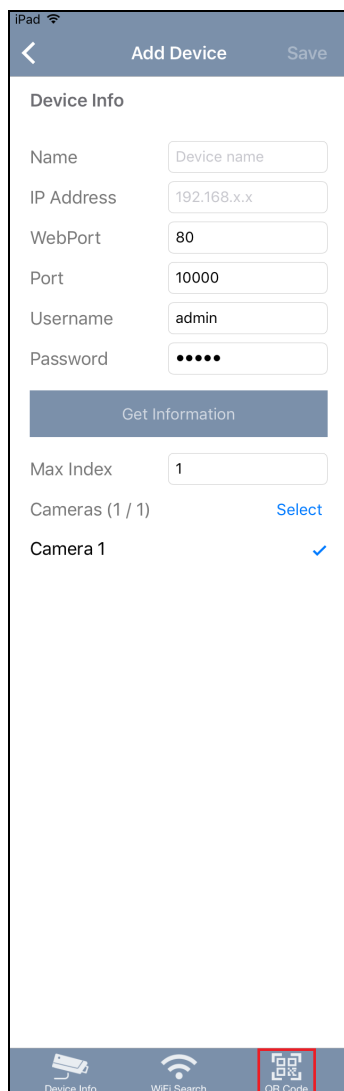
1.5.4 Adding IP Devices from GV-SNVR through QR Code

You can add the IP devices from GV-SNVR using the QR Code scan. Follow the steps below to scan the QR Code.

Note:

1. Currently GV-SNVR1600 (firmware V1.20 or later), GV-SNVR0411 (firmware V2.00 or later), and GV-SNVR0811 (firmware V2.40 or later) are supported for this function.
2. To use this function, the computer installed with GV-SNVR must be connected to the Internet.

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1. Follow Step 1 to 2 in *1.5.1 Automatic Connection* to access the Add Device page.
2. Click **QR Code** to enable the QR Code scan. The QR Code reader appears.
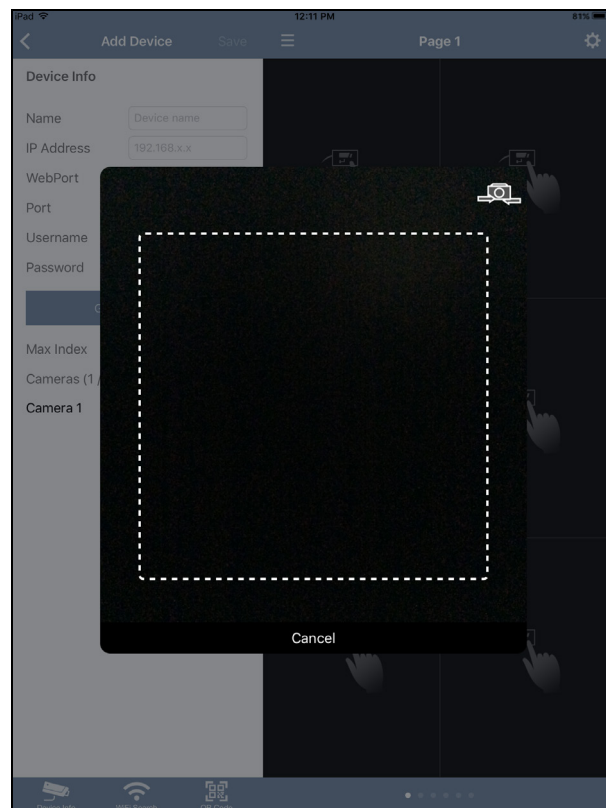
3. On GV-SNVR, go to the Service page and click **Mobile App**. This interface appears. For details, see *3.6 Service, GV-SNVR User Manual*.
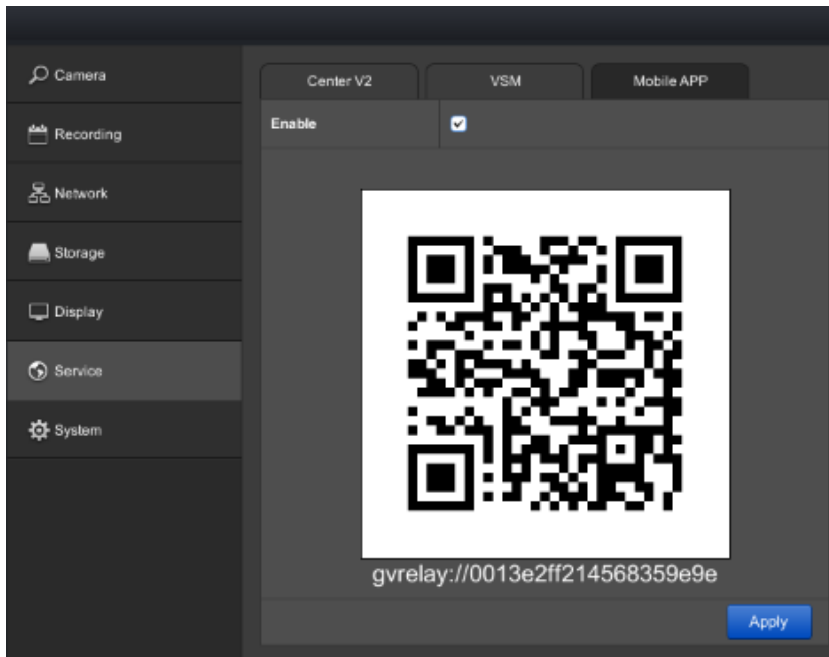
4. Hold your device over the QR Code on GV-SNVR to the point where the QR Code is clearly visible. When the scanning is successful, tap **Update Indexes**, and tap **Save**. The IP devices from GV-SNVR are imported onto the camera list of your device.
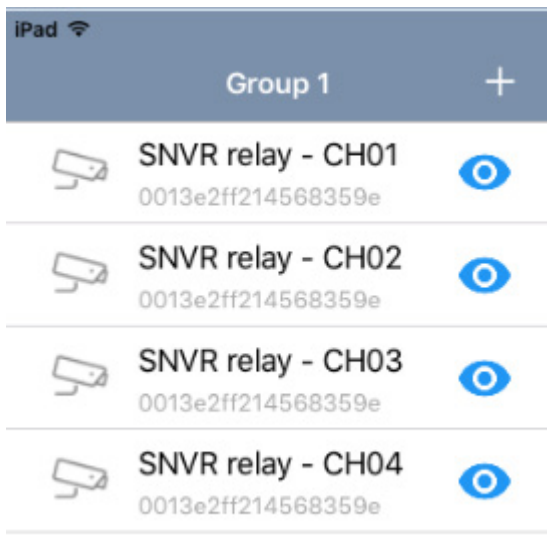
1.6 Live View

Tap the live view for a full-screen display as below.
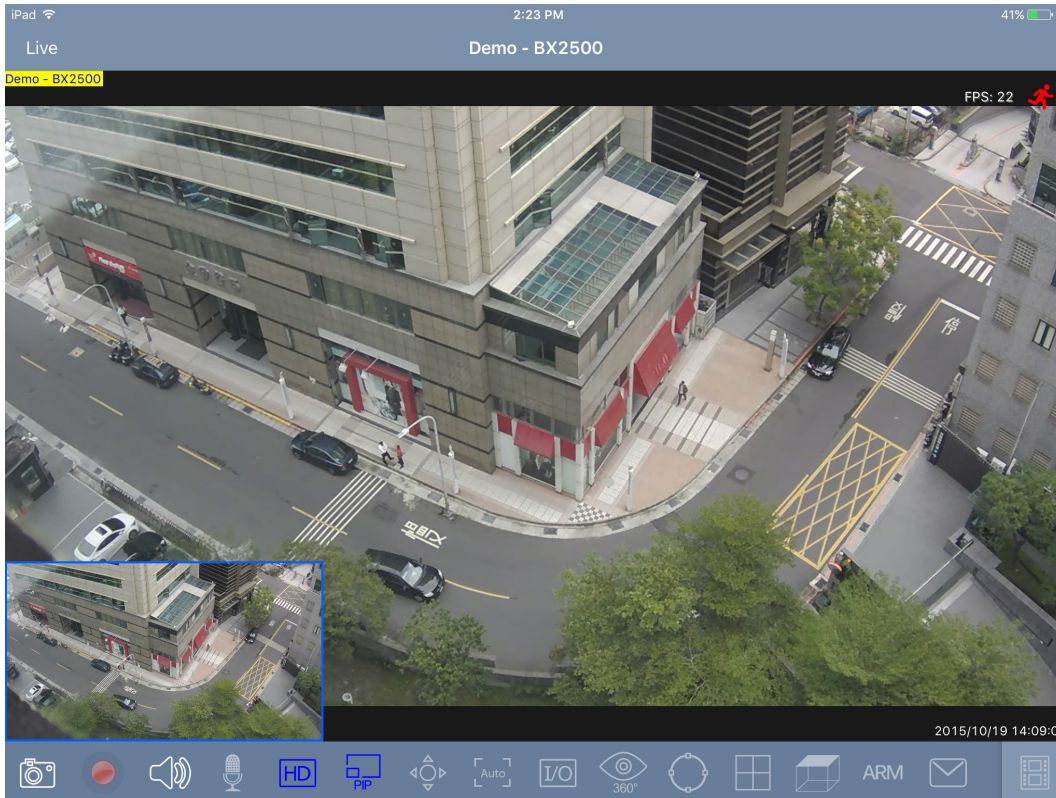
You can access the following functions by tapping the corresponding icon. With the functions enabled, the record icon glows red while the others glow blue.

Icon	Name	Function
	Snapshot	Snapshots the current live view and saves it to the photos or gallery folder of your mobile device.
	Record	Starts the recording. A colored camera name at the upper-left corner of the live view indicates the status of the camera. • Yellow: successful connection between GV-IP devices and software • Green: starts monitoring • Red: starts recording Only for connecting GV-Eye with GV-VMS, the camera name shows red when monitoring or recording is enabled. The recording function is disabled by default. Tap the button again to disable the recording.

| Icon	Name	Function
	Speaker	Broadcasts sounds from the surveillance site. This function is enabled by default.
	Microphone	Speaks to the surveillance site. This function is enabled by default.
	Stream Switch	Switches the connected stream. By default, stream 2 (with lower resolution) is connected.
	PIP	Displays a picture-in-picture view which is a close-up view with its original view displayed in an inserted window. This function is enabled by default. On your mobile device, pitch to zoom the part of the live view you wish to examine. You can then glide on the screen to see the different parts of the close-up view.
	PTZ Panel	Enables the PTZ control panel. You can control the camera view using the following: • : tap the arrow and drag toward the direction you wish to move the camera view • : zooms in and out • : focuses in and out • : Moves the camera view to the home position • : Moves the camera view to a predefined position by selecting a preset number
	Auto Focus	Automatically focus the live view. This function is only accessible when the PTZ panel is enabled.
	I/O Trigger	Manually trigger the output and edit the output naming displayed on your mobile device.
	Fisheye Dewarp	Dewarps the fisheye live view and allows users to align the live view, select display mode and define the installation type. For details, see **Image Alignment**, **Display Mode** and **Installation Type** in this table. **Note:** This is a paid function. The function will be enabled after purchase. This is free for trial when the Demo Mode is enabled in the Settings page (see *1.9 System Settings*).

Icon	Name	Function
	Image Alignment	Defines the size and center of the Fisheye view. Tap to enable this function and then enlarge, minimize and move the red circle. Tap this icon again to apply the setting.
	Display Mode	Defines the display mode of a GV-Fisheye Camera. • Quad View: shows the live view in 4 PTZ views • 360-Degree View: shows 2 PTZ views and a 360° view • Single 180° view: shows one 180° view • Single View: shows one PTZ view
	Installation Type	Defines the installation type of a GV-Fisheye Camera. Tap the icon and select among: • ceiling mount • wall mount • ground mount
ARM	Alarm Notification	Enable the alarm notification to GV-Center V2 when events occur. This function is disabled by default. Enable it in the Settings page (see *1.9 System Settings*), and the icon will be added on the live view. **Note:** The notification settings should be configured in advance on GV-IP Cameras.
	Email Notification	Enable the function of receiving alert notification through e-mails when events occur. This function is disabled by default. Enable it in the Settings page (see *1.9 System Settings*), and the icon will be added on live view. **Note:** The notification settings should be configured in advance on GV-IP Cameras.
	Playback	Plays back recordings. For details, see *Playing Back Recordings* later in this installation guide.
	Motion Detection	Indicates detected motions. The icon becomes red when a motion is detected.
	Hardware Decode	Enables GPU decoding which lowers the CPU loading and increases the smoothness of live view. **Note:** This function is only supported by Android mobile devices.

	FPS	Indicates the number of frames per second, ranging from 0 to 30. The more frames per second, the smoother the motion appears.
FPS: 25		

Note:

1. The control of enabling or disabling recording is only available for supported GV-IP Cameras and GV-VS11 / 12 / 14. For details, see *1.2 Supported GV-IP Devices and Software*.

2. PTZ Panel functions are fully or partially supported by the following GV-IP device:

   - GV-IP Speed Dome and GV-PTZ Camera: all functions supported

   - GV-PT Camera: all functions supported except zoom in/out

   - GV-IP Cameras that support remote focus/zoom adjustment: only support auto focus, focus in/out and zoom in/out.

3. Fisheye Dewarping is available at the App Store or Android Market and is only applicable to GV-Fisheye Cameras. Alternatively, tap **Upgrade** from the Settings page to purchase this tool. For details, see *1.10 Fisheye Dewarping*.

4. The microphone function is only supported by GV-IP Cameras and GV-Recording Server V1.3 or later.

1.7   Playing Back Recordings

1.7.1   Accessing the Recorded Files

Make sure the following functions are enabled ahead to allow remote access from the GV-Eye:

- GV-DVR / NVR / GV-VMS: enable **Remote ViewLog Service**

- GV-IP Camera / GV-Video Server / GV-Compact DVR: enable **ViewLog Server**


Note:

1. If a router or firewall is installed with the remote servers and IP devices, ensure the corresponding playback port is open. For example, to play back the files from GV-DVR/NVR/VMS, open port 5552 on the router. For a list of default port numbers for GV-IP devices and software, see *System Requirements* earlier in this Installation Guide. For how to open an port on the router, refer to http://portforward.com/english/routers/port_forwarding/.

2. To enable the Audio function for video playback in GV-Eye, you must activate related Audio Settings in advance.

   - **GV-VMS**: Setup > Audio Setting > enable **Rec Audio** and **Round-the-Clock Audio** options.
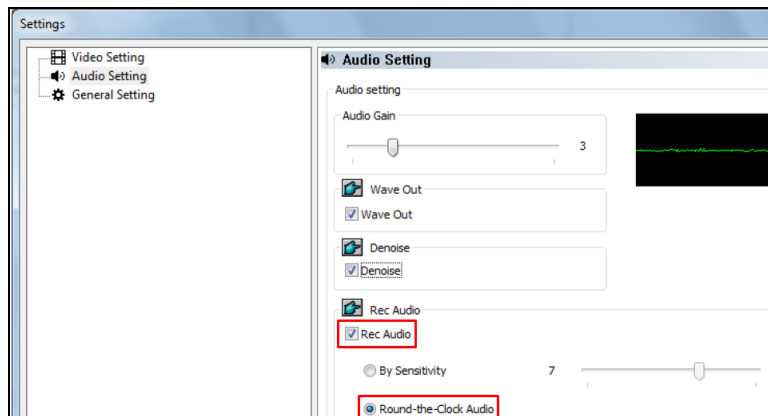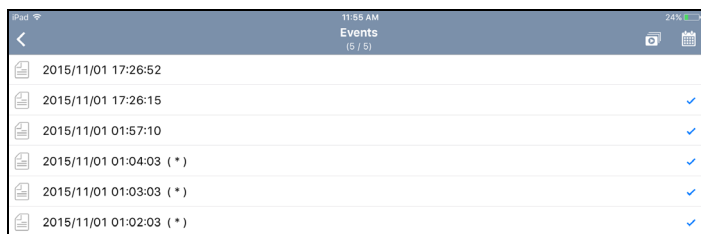

- **GV-DVR**: Configure > A/V Settings > Audio Settings > enable **Rec Audio** and **Round-the-Clock Audio** options.
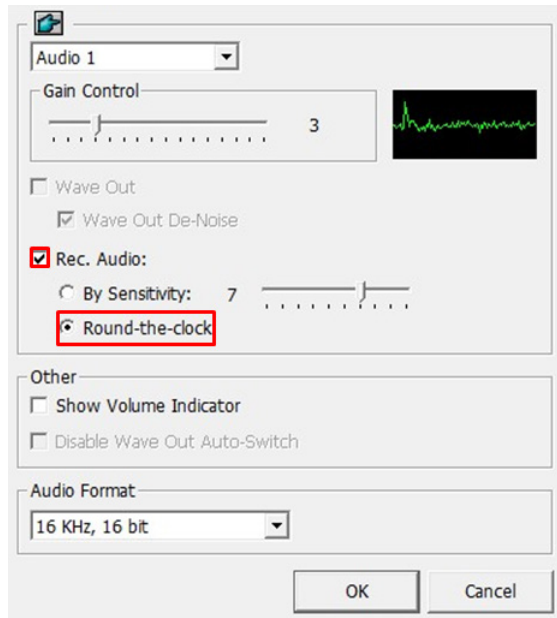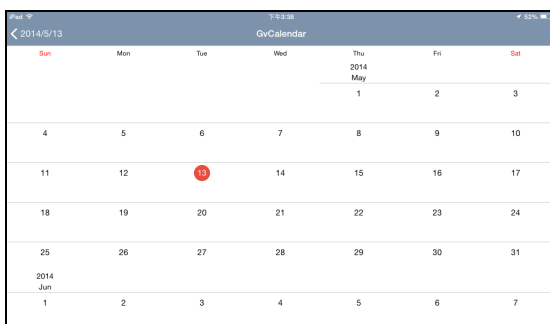

- **GV-SNVR**: Camera Settings > enable **Audio** option.

1. From the live view page, tap [icon]. This page appears.

2. The recording files of the day are listed. Tap to select up to five videos of your choice. Click [icon] to start playing.

3. You can also tap the calendar icon [icon] to view the recording status. The current date is indicated in red.

1.7.2 Playback Display

The full-screen display is as below.

You can access the following functions by tapping the corresponding icon. With the functions enabled, the icons glow blue.

Icon	Name	Function
	Snapshot	Snapshots the current playback and saves it to the photos or gallery folder of your mobile device.
	PIP	Displays a picture-in-picture view which is a close-up view with its original view displayed in an inserted window. This function is enabled by default. On your mobile device, pitch to zoom the part of the playback you wish to examine. You can then glide on the screen to see the different parts of the close-up view.

|		
	Hide Control Bar	Hides the control bar on the playback window so that the users can get a full view of the playback display.
	Rotate	Rotates the playback display by 90° for each tap.
	Fisheye Dewarp	Dewarps the fisheye live view and allows users to align the playback scenes, select display mode and define the installation type. For details, see **Image Alignment**, **Display Mode** and **Installation Type** in this table. **Note:** This is a paid function. The function will be enabled after purchase. This is free for trial when the Demo Mode is enabled in the Settings page (see *1.9 System Settings*).
	Image Alignment	Defines the size and center of the Fisheye view. Tap to enable this function and then enlarge, minimize and move the red circle. Tap this icon again to apply the setting.
	Display Mode	Defines the display mode of a GV-Fisheye Camera. • Quad View: shows the live view in 4 PTZ views • 360-Degree View: shows 2 PTZ views and a 360° view • Single 180° view: shows one 180° view Single View: shows one PTZ view
	Installation Type	Defines the installation type of a GV-Fisheye Camera. Tap the icon and select among: • ceiling mount • wall mount • ground mount

1.8   Edge Settings

The Edge settings section allows you to configure the IP address, device name and storage path for GV-IP devices.

To access the settings, enable **Edge Tool** in the Settings page (see *1.9 System Settings*), and the **Edge settings** button [icon] will be added on the main page. Tap [icon] and the Edge settings page appears.

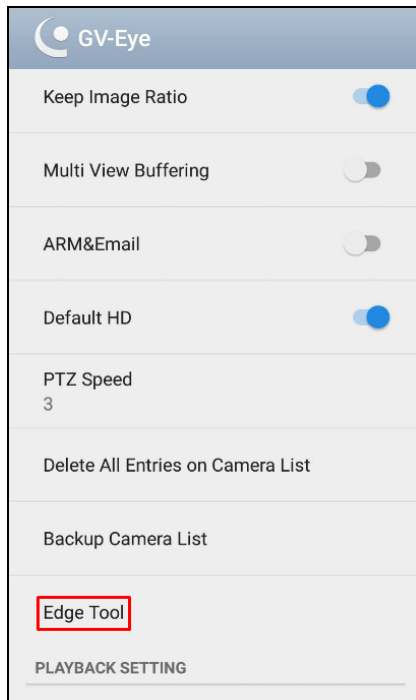IP   Name   HDD   Storage
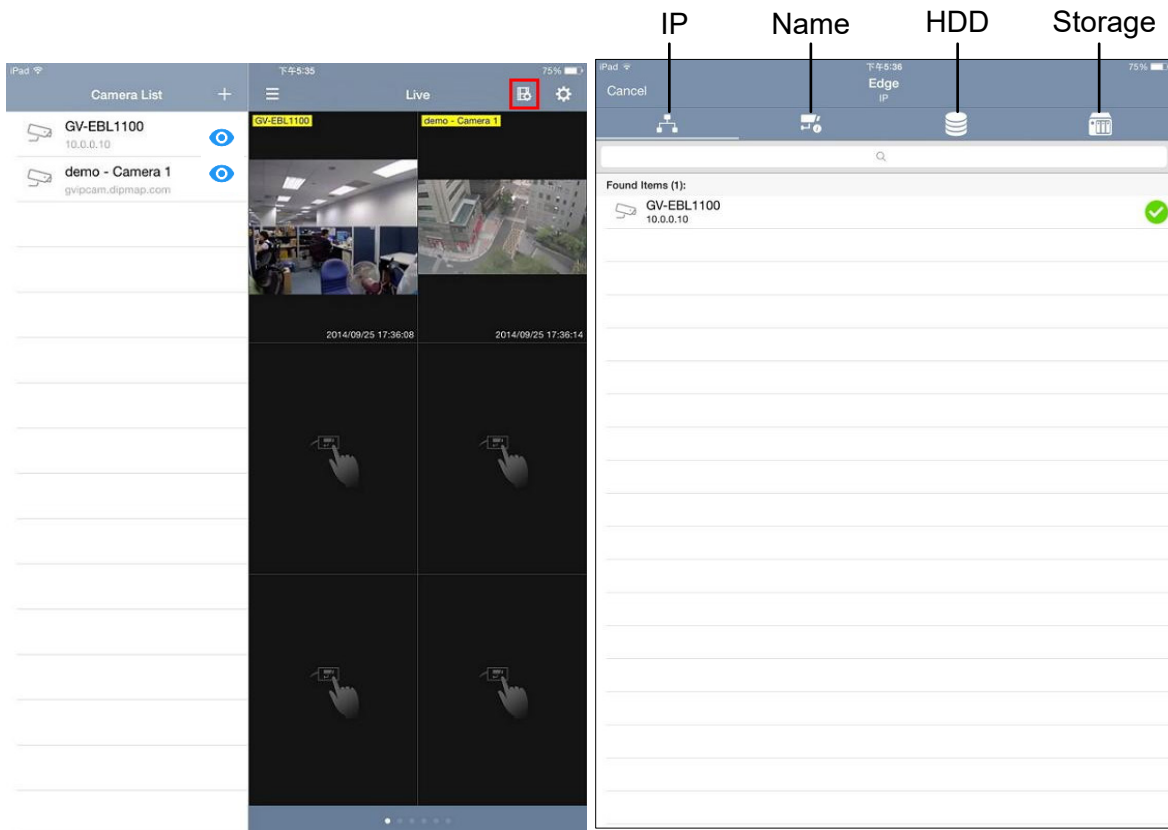
Main Page   **Edge Settings Page**

Note: For Android devices, click on the main page and tap **Edge Tool** to access the Edge settings.
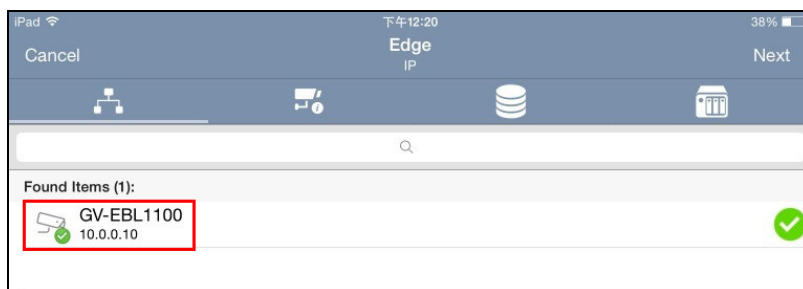
1.8.1 Changing IP Address

To change the IP address of a GV-IP Device, follow the steps below.

Note: The function of changing IP address is only supported by compatible GV-IP Camera, GV-Video Server and GV-Compact DVR.

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1. On the IP settings page, select the desired GV-IP Device. A green tick appears under camera name.

2. Tap **Next** at the upper-right corner. This page appears.

3. Type a new IP address and optionally tap the **Advanced** button to configure the Mask, Gateway and DNS settings.

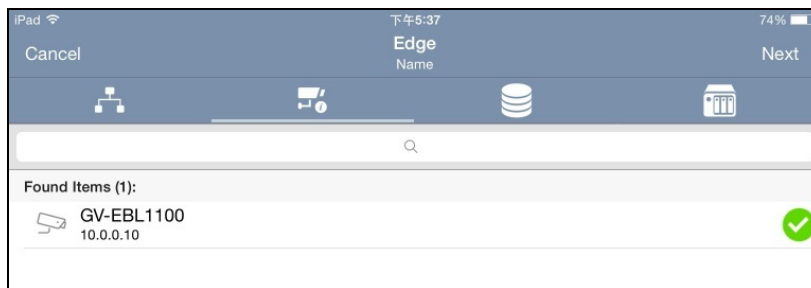4. Tap **Save** to enable the settings.

1.8.2 Changing Device Name

To change the device name of a GV-IP Device, follow the steps below.

Note: The function of changing device name is only supported by compatible GV-IP Camera, GV-Video Server and GV-Compact DVR.
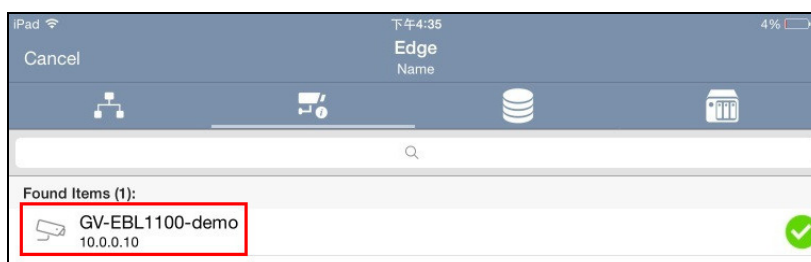
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1. On the Edge settings page, tap the **Name** button . The Name settings page appears.

2. Select the desired GV-IP Device and tap **Next**. This page appears.

3. Type a new name for the device and tap **Save**.

4. On the Name settings page, pull to refresh. The device name is updated.

1.8.3   Assigning Storage Path

To assign the recording storage path on GV-NAS System for a GV-IP Camera, follow the steps below.

Note:

1. Make sure the camera stops recording before assigning storage path.

2. This function is only supported by GV-IP Camera firmware V3.0 or later and GV-Target IP Camera firmware V1.02 or later.

3. The Edge recording is only supported by GV-NAS Systems.

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1. On the Edge settings page, tap the **HDD** button . The HDD settings page appears.
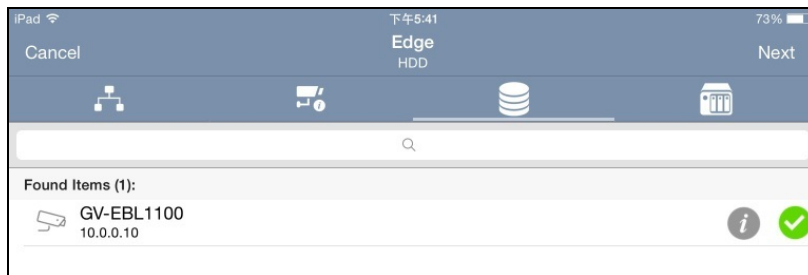
2. Select the desired camera and tap **Next**. This page appears.
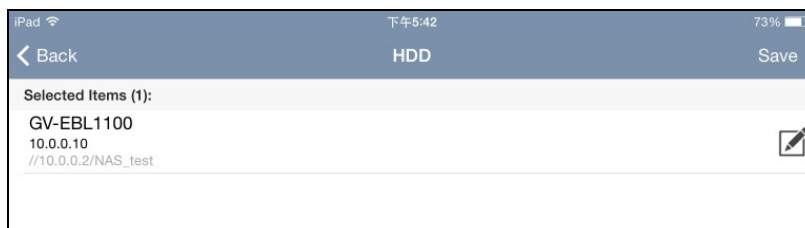
3. Tap the **Edit** button and select **Yes** in the pop-up dialog box to add a valid path.

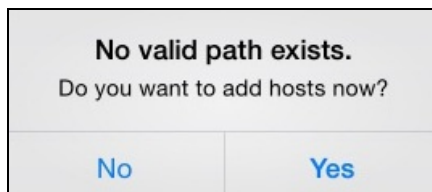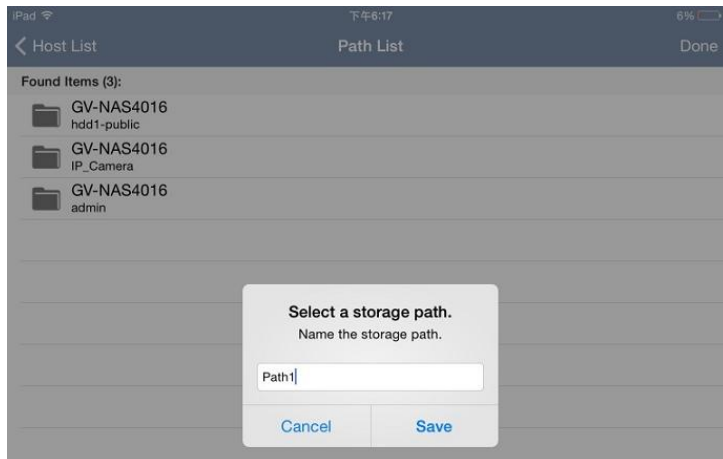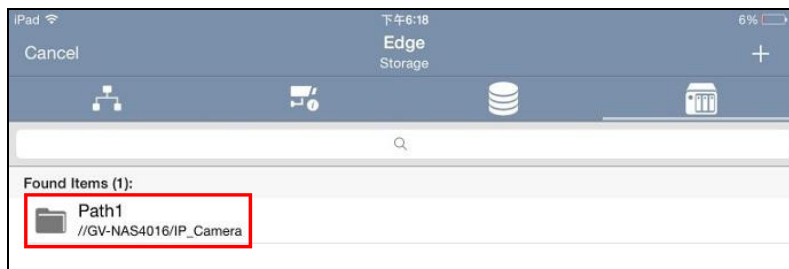4. In the pop-up Host List, select the desired host, type the username and password of the host and tap **Login**.
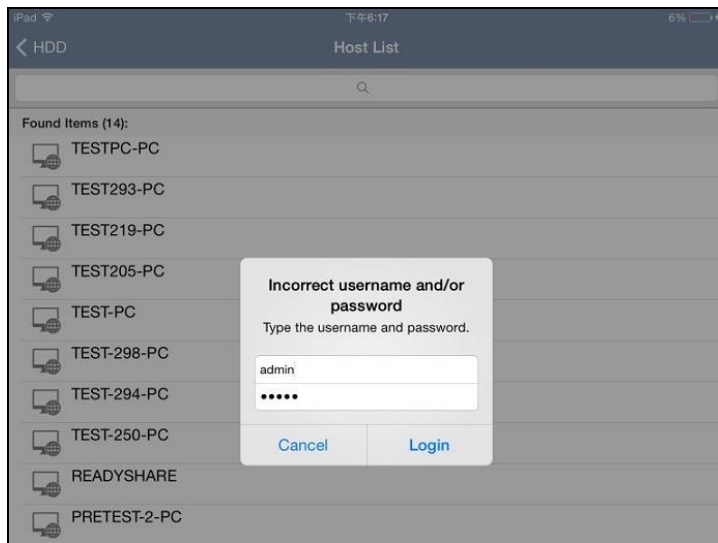
5. In the pop-up Storage Path List, select the desired storage path, type a name and tap **Save**.

6. To view the added storage path, on the Edge settings page, tap the **Storage** button [icon]. The added path is displayed.

1.8.4 Monitoring HDD Storage

To view the HDD storage status, tap the **Info** button on the HDD settings page. The HDD Info page appears and displays the capacity.

Note:

1. This function is only supported by GV-IP Camera firmware V3.0 or later and GV-Target IP Camera firmware V1.02 or later.

2. For the camera with its storage path being assigned on the GV-NAS System, the HDD Info page displays the NAS storage capacity; for the camera without storage path assigned, the HDD Info page displays the SD card storage capacity.

1.9 System Settings

To access GV-Eye settings, click [⚙] on the main page. The settings page appears.
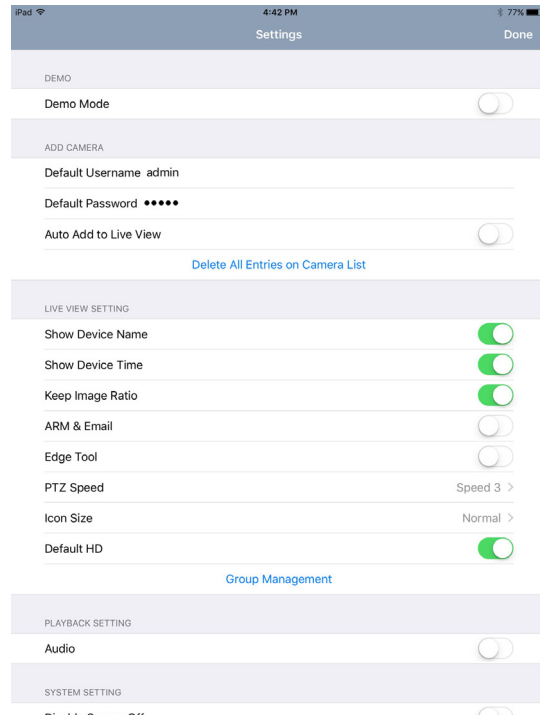
| **Main Page** | **Settings Page** |

[LAYOUT MANAGEMENT]

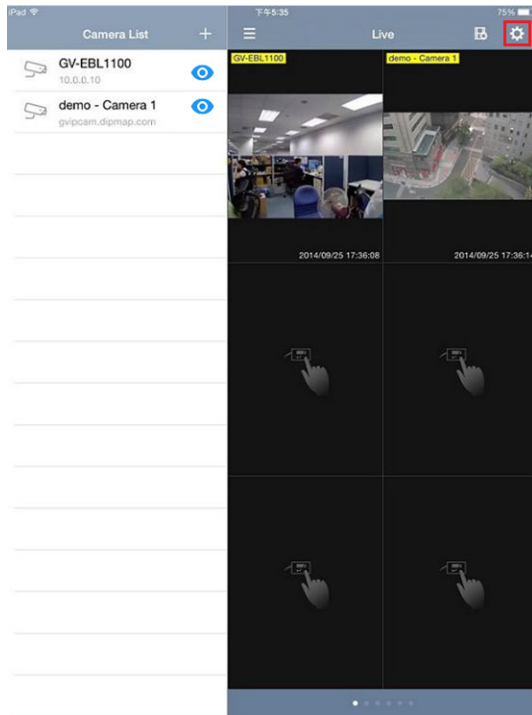- **Group Management:** Creates groups and arranges live view layouts. GV-Eye can receive up to 96 channels of live view from various GV-IP devices. Users can create up to 8 groups, and each group has 6 pages in total with each displaying up to 16 channels of live view. See *1.5.3 Group Management* for details.

- **Demo Mode:** Displays 3 channels of live view for you to experience the features of GV-Eye.

Note: If you enable **Demo Mode**, your current connection of IP-devices and layout settings of live view will be temporarily closed. Instead, 3 demo channels and default layout will be displayed. To resume your previous settings, disable **Demo Mode**.

[ADD CAMERA]

■ **Default Username:** Sets the default username when adding a new IP device to the Camera List. The default is **admin**.

■ **Default Password:** Sets the default password when adding a new IP device to the Camera List. The default is **admin**.

■ **Auto Add to Live View:** Automatically displays the added IP devices to live view. This function is disabled by default.

[LIVE VIEW]

■ **Show Device Name:** Displays device name on live view.

■ **Show Device Time:** Displays device time on live view.

■ **Keep Image Ratio:** Displays the live view in proportion to the device's resolution.

■ **Multi View Buffering:** Enhances the smoothness of live view with multiple divisions. This function is for Android devices only.

■ **ARM & EMAIL:** Displays the alarm invocation and e-mail notification icons on live view.

■ **Default HD:** Displays the single live view in HD quality. This function is enabled by default.

■ **PTZ Speed:** Changes the PTZ speed. Speed 1 is the slowest and speed 5 the fastest.

■ **Delete All Entries on Camera List:** Click to delete all the entries from the Camera List of all groups.

■ **Backup Camera List:** Export Camera List to the internal storage of smartphone. This function is only supported by Android mobile devices.

■ **Edge Tool:** Displays the edge settings icon on live view.

[PLAYBACK SETTING]

■ **Audio:** Enable Audio function for video playback.

[SYSTEM SETTING]

■ **Disable Screen Off:** Turns off sleep mode of the mobile device when the GV-Eye is running. This function is disabled by default.

■ **Upgrade:** Click to purchase the tool for fisheye dewarping and see *1.10 Fisheye Dewarping*.

1.10 Fisheye Dewarping

To purchase the Fisheye Dewarping functions, click ⚙ on the main page and tap **Upgrade** (see figure on page 15).

Note: Once you have purchased the function, you can also use it on another device set with the same Google account.
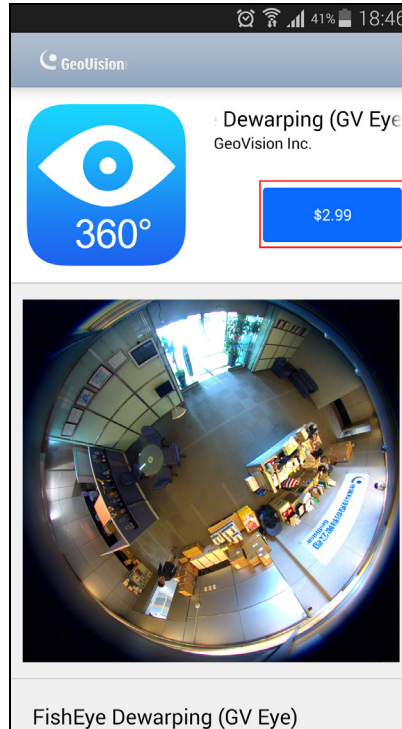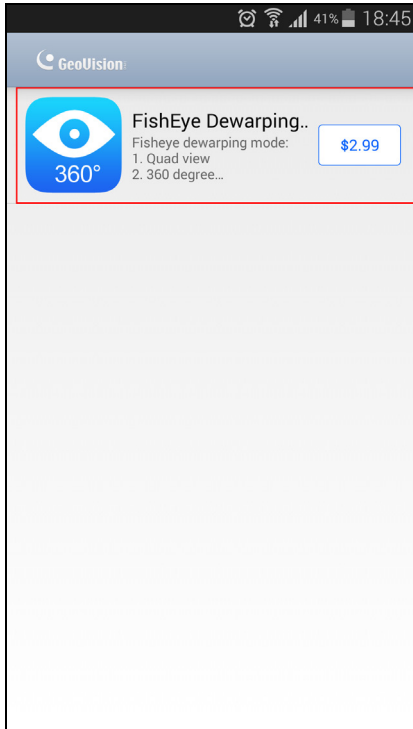

For iOS Devices

Tap **Purchase** to buy the function for the first time. Tap **Restore** when you've already purchased the function and would like install it on another device.
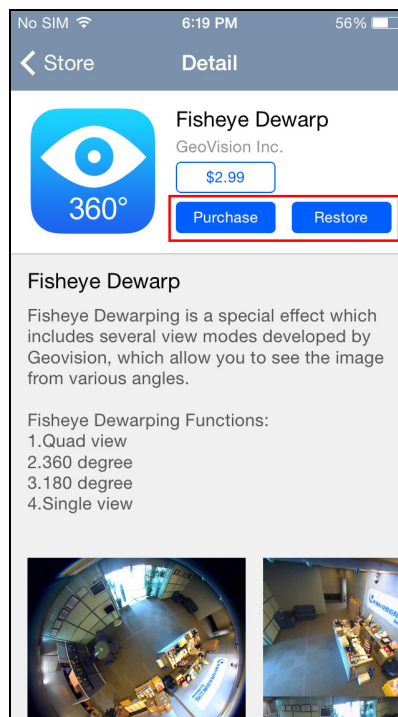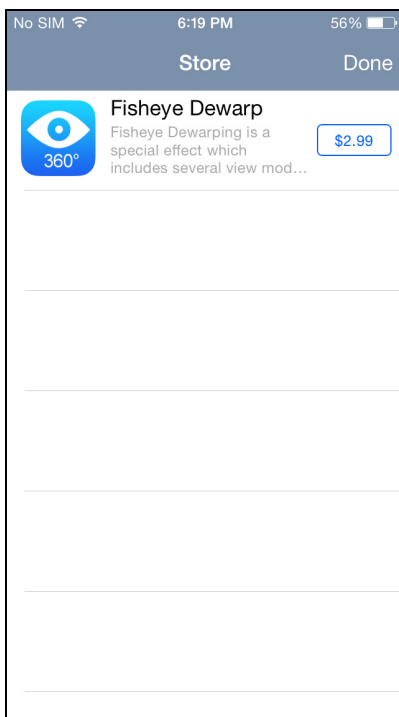
For Android Devices

Tap the cost button to purchase the function.

1.11 Defining the User Privilege of GV-VMS for GV-Eye

You can alter the setting of user privileges to determine which user account can access Video, Audio, PTZ, Monitor Start/Stop and I/O Output Control from mobile app GV-Eye.

Note: The function is supported by GV-VMS V16.10.3, GV-NVR V8.7.1.0, and GV-Mobile Server V1.5.0.0 or later.

To set up the user privilege:

1. Click **Home** 👁 , click the account ID, click **Password Setup**, and select **Local Account Edit** and select the **Web/Mobile tab**.

2. Select or deselect **Video**, **Audio**, **PTZ, Monitor Start/Stop** and **I/O Output Control** of specific cameras to allow or deny the user the function.

For instance, firstly, on the Local Account Edit dialog box of GV-VMS, you can deny User1 the access of PTZ. Then, when you log on GV-Eye with the ID and password of User1, you will see that User1 cannot access PTZ on GV-Eye.