Geovision GV-Cloud Bridge Endcoder User Manual

GV-Cloud Bridge

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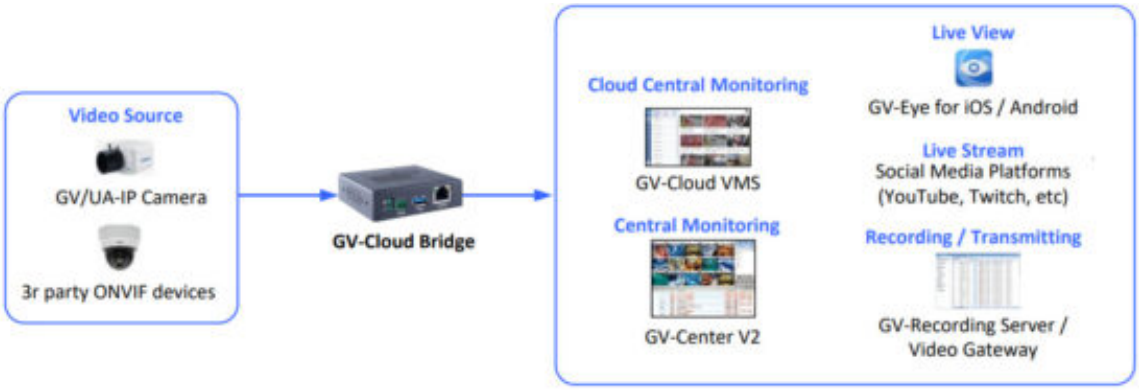
GV-Cloud Bridge Endcoder

GV-Cloud Bridge

GV-Cloud Bridge is an encoder that connects any ONVIF or GV-IP camera to the GeoVision software and mobile app for integrated monitoring and administration. Using GV-Cloud Bridge, you can link the cameras to GV-Cloud VMS / GV-Center V2 for central monitoring and to GV-Recording Server / Video Gateway for recording and streaming management. With a simple QR code scan, you can also link GV-Cloud Bridge to the mobile app, GV-Eye, for live monitoring anytime, anywhere. Additionally, you can use GV-Cloud Bridge to stream the cameras to social media platforms like YouTube, Twitch, and others to meet your live broadcasting demands.



Compatible Products

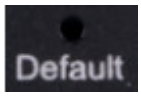
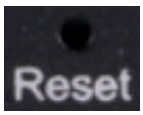
- Camera: GV-IP cameras and ONVIF cameras
- Cloud Controller: GV-AS Bridge
- Software: GV-Center V2 V18.2 or later, GV-Recording Server / Video Gateway V2.1.0 or later, GV-Dispatch Server V18.2.0A or later, GV-Cloud VMS, GV-VPN V1.1.0 or later
- Mobile App: GV-Eye

Note: For GV-IP Cameras not having GV-Center V2 settings, you can use GV-Cloud Cloud Bridge to connect these cameras to GV-Center V2.

Packing List

- GV-Cloud Bridge
- Terminal Block
- Download Guide

Overview

1		This LED indicates the power is supplied.
2		This LED indicates the GV-Cloud Bridge is ready for connection.
3		Not functional.
4		Connects the USB flash drive (FAT32 / exFAT) for storing event videos.
5		Connects to the network or a PoE adapter.
6		Connects to power using the supplied terminal block.
7		This resets all configurations to factory settings. See 1.8.4 Loading Default for detail s.
8		This reboots the GV-Cloud Bridge, and keeps all current configurations. See 1.8.4 L oading Default for details.

Note:

1. Industrial-grade USB flash drives are suggested to avoid event recording writing failure.
2. For optimal performance, it is suggested to use USB flash drive (FAT32).
3. Once the USB flash drive (exFAT) is formatted, it will be automatically converted into FAT32.

4. External hard disk drives are not supported.

Selecting a Suitable GV-Cloud VMS Premium License by Camera Resolution

As you integrate GV-Cloud Bridge and GV-Cloud VMS, several GV-Cloud VMS premium license plans are available based on the resolution of recordings to be uploaded onto GV-Cloud VMS (SD, 720p, 2 MP, 4 MP) and each license specifies the frame rate and bitrate limit. The maximum number of channels supported differs by the applied license plans and the camera resolution. See the table below for the specifications:

Camera Resolution	GV-Cloud VMS Premium LicenseNote1					
	SD (640*480)	720p	2M	2M / 30F	4M	4M / 30F
	30 FPS +512 Kbps	30 FPS +1 Mbps	15 FPS +1 Mbps	30 FPS +2 Mbps	15 FPS +2 Mbps	30 FPS +3 Mbps
	Maximum Channels Supported					
8 MP	1 CH	1 CH	1 CH	1 CH		
4 MP	2 CH	2 CH			2 CH	1 CH
2 MP	2 CH	2 CH	3 CH	1 CH		
1 MP	2 CH	2 CH				

For example, with an 8 MP camera, the SD, 720p, 2M, and 2M / 30F license options are available, with each plan supporting a maximum of 1 channel. Choose the suitable license plan for the recordings to be uploaded onto GV-Cloud VMS in resolutions of 640 x 480 / 1280 x 720 / 1920 x 1080, depending on your needs.

Frame Rate and Bitrate

Once connected to GV-Cloud VMS, the system constantly monitors the camera's frame rate and bitrate and automatically makes adjustments when they exceed the limits of the applied license plans.

Resolution

When the camera's main stream / sub stream resolution does not match the applied GV-Cloud VMS license plan, the following conditions will occur:

1. When the main stream or sub stream resolution is lower than the applied license plan: (1) The recordings will be uploaded onto GV-Cloud VMS using the closest resolution; (2) The Resolution does not match event will be included in GV-Cloud VMS event log; (3) An alert message will be sent via e-mail.
2. When both main stream and sub stream resolution exceeds the applied license plan: (1) The recordings will only be saved in the USB flash drive inserted in GV-Cloud Bridge based on the main stream resolution; (2) The License does not match event will be included in GV-Cloud VMS event log; (3) An alert message will be sent via e-mail.

GV-Cloud VMS event logs of License not matched and Resolution not matched

Note:

1. The premium license plans are only available for GV-Cloud VMS V1.10 or later.
2. To prevent system overload while ensuring the maximum channels are supported, note the followings: (a) Do not enable other services such as GV-Center V2, GV-Recording Server, GV-Eye, or live streaming. (b) Do not connect to additional IP cameras when reaching the maximum number of cameras.

Connecting to PC

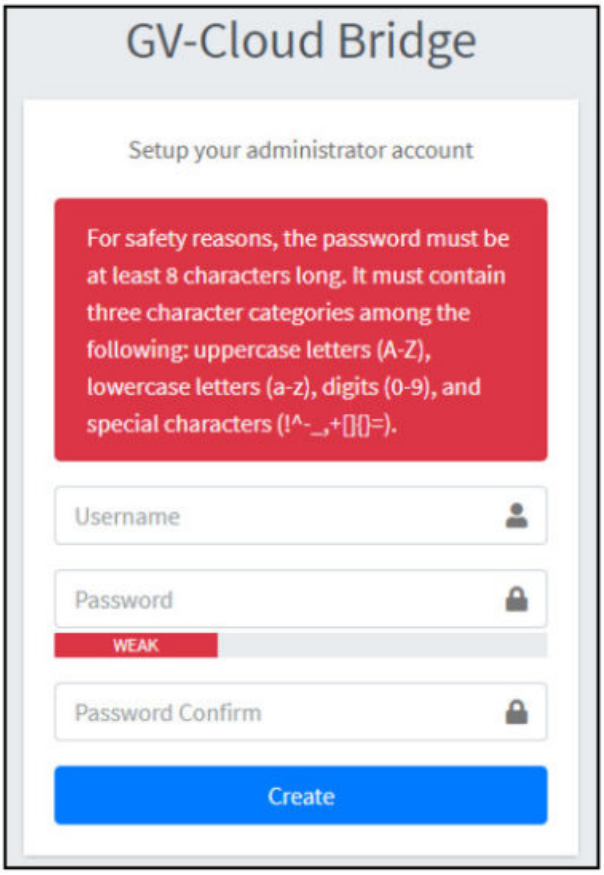
There are two ways to power and connect GV-Cloud Bridge to the PC. Only one of the two methods can be used at a time.

1. GV-PA191 PoE Adapter (optional purchase required): Through the LAN port (No. 7, 1.3 Overview), connect to a GV-PA191 PoE Adapter, and connect to the PC.
2. Power Adapter: Through the DC 12V port (No. 3, 1.3 Overview), use the supplied terminal block to connect to a power adapter. Connect to your PC through the LAN port (No. 7, 1.3 Overview).

Accessing GV-Cloud Bridge

When GV-Cloud Bridge is connected to a network with DHCP server, it will be automatically assigned with a dynamic IP address. Follow the steps below to access your GV-Cloud Bridge.
Note:

1. The PC used to access the Web interface must be under the same LAN as the GV-Cloud Bridge.
2. If the network connected doesn't have DHCP server or is disabled, GV-Cloud Bridge can be accessed by its default IP address 192.168.0.10, see 1.6.1 Assigning a Static IP Address.
    1. Download and install the **GV-IP Device Utility** program.
    2. Find your GV-Cloud Bridge on GV-IP Device Utility window, click its IP address, and select Web Page. This page appears.

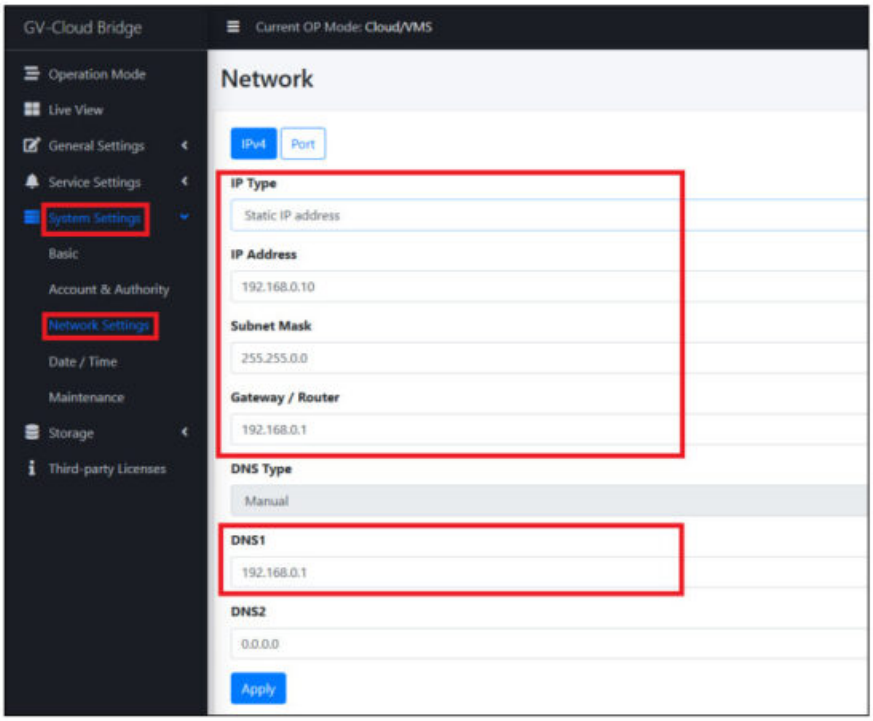


3. Type the necessary information and click Create.

1.6.1 Assigning a Static IP Address

By default, when GV-Cloud Bridge is connected to LAN without a DHCP server, it is assigned with a static IP address of 192.168.0.10. Follow the steps below to assign a new IP address to avoid IP conflict with other GeoVision devices.

1. Open your Web browser, and type the default IP address 192.168.0.10.
2. Type your username and password. Click Login.
3. Click System Settings in the left menu, and select Network Settings.



4. Select Static IP address for IP Type. Type the static IP address information, including IP Address, Subnet Mask,

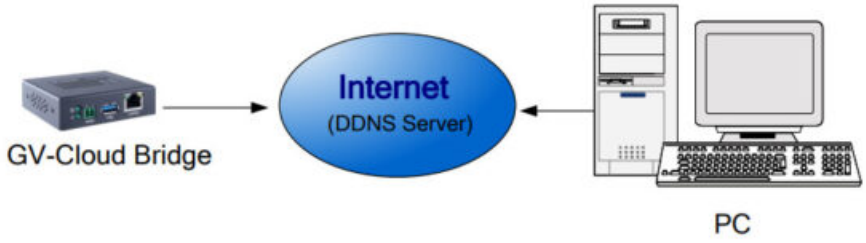
Default Gateway and Domain Name Server.

5. Click Apply. The GV-Cloud Bridge can now be accessed through the static IP address configured.

Note: This page is unavailable under the VPN Box Mode. For details on different operation modes, see 1.7 The Web Interface.

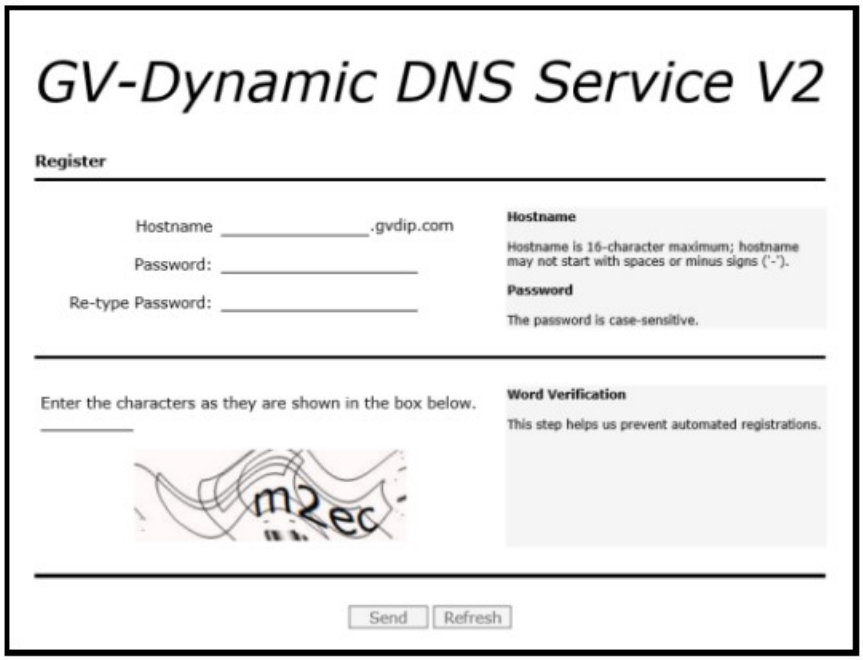
1.6.2 Configuring the DDNS Domain Name

DDNS (Dynamic Domain Name System) provides another way of accessing GV-Cloud Bridge when using a dynamic IP from a DHCP server. DDNS assigns a domain name to GV-Cloud Bridge so that it can always be accessed using the domain name.
Follow the steps below to apply for a domain name from GeoVision DDNS Server and enable the DDNS function.



1. Select Service Settings in the left menu, and select DDNS. This page appears.

2. Enable the Connection, and click Register. This page appears.



3. In the Hostname field, type a desired name, which can be up to 16 characters containing “a ~ z”, “0 ~9”, and “-”. Note that a space or “-” cannot be used as the first character.
4. In the Password field, type a desired password, which is case-sensitive and must be at least 6 characters in length. Type the password again in the Re-type Password field for confirmation.

5. In the Word Verification section, type the characters or numbers shown in the box. For example, type m2ec in the required field. Word Verification is not case-sensitive.
6. Click Send. When the registration is complete, this page appears. The Hostname shown is the domain name, consisting of the registered username and "**gvdip.com**", **e.g.somerset01.gvdip.com.**

Note: The registered username becomes invalid after not being used for three months.

7. Type the Hostname and Password that are registered on the DDNS Server.
8. Click Apply. The GV-Cloud Bridge can now be accessed with this domain name.

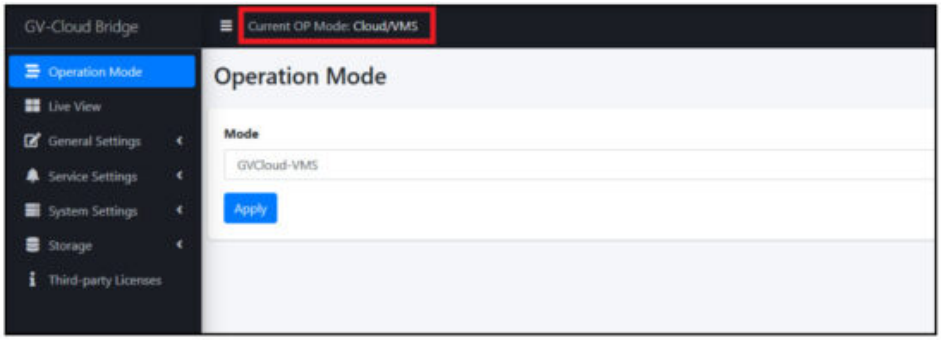
Note: The function is not supported when VPN Box Operation Mode is applied.

Operation Mode

Once logged in, select Operation Mode in the left menu, and you can select the following operation modes to connect to GeoVision software or service:

- GV-Cloud VMS: To connect to GV-Cloud VMS.
- CV2 / Video Gateway / RTMP: To connect to GV-Center V2, GV-Dispatch Server,GV-Recording Server, GV-Eye, or live streaming on YouTube and Twitch.
- VPN Box: To integrate with GV-VPN and GV-Cloud to connect devices under the same LAN.

After switching to the desired mode, GV-Cloud Bridge will reboot for the change to take effect.
Note that only one mode is applicable at a time.
Note: The applied operation mode will be displayed on top of the Web interface.



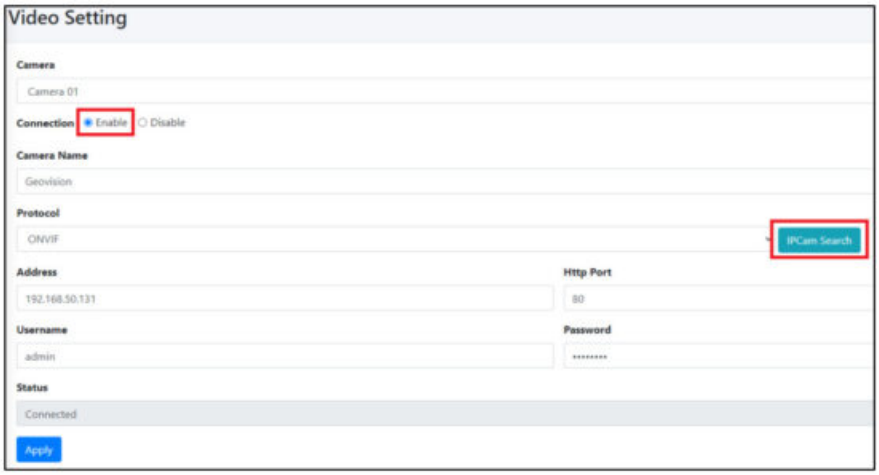
1.7.1 For GV-Cloud VMS and CV2 / Video Gateway / RTMP Operation Mode

Once the GV-Cloud VMS or CV2 / Video Gateway / RTMP Operation Mode is applied, users can connect to GeoVision software and services, set up camera connection, and configure I/O devices and I/O Box.

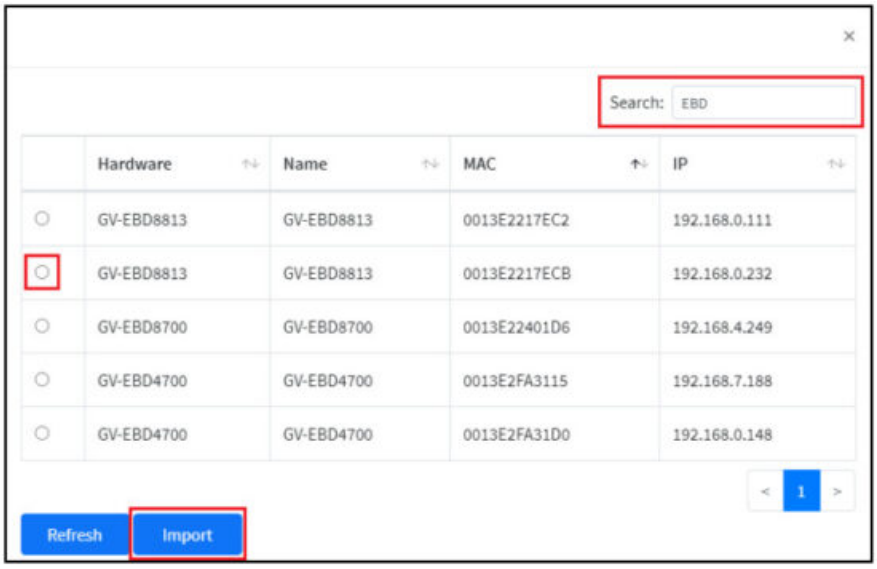
1.7.1.1 Connecting to IP Camera

To set up connections to cameras and the supported GeoVision software or mobile app, follow the steps below.

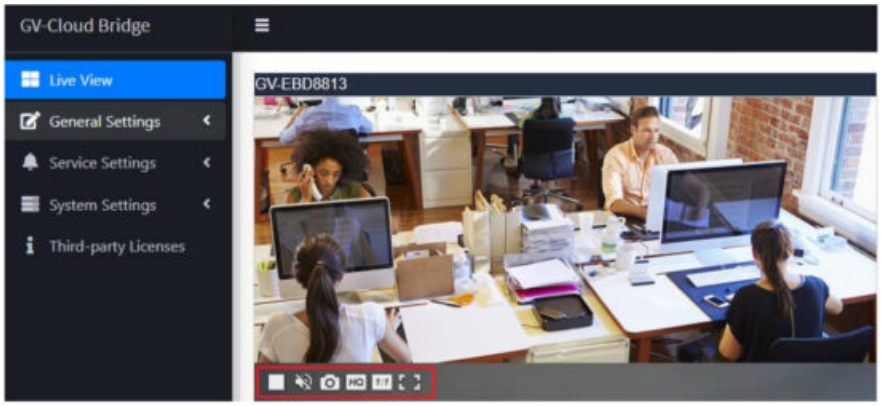
1. Select General Settings in the left menu, and click Video Setting.



2. Enable the Connection. Select from Camera 01 – Camera 04 for Camera.
3. Type the necessary information of the camera to be added. Click Apply.
4. Alternatively, you can click the IPCam Search button to add a camera under the same LAN as the GV-Cloud Bridge. In the search window, type the name of the desired camera in the search box, select the desired camera, and click Import. The camera information is automatically entered on the Video Setting page.

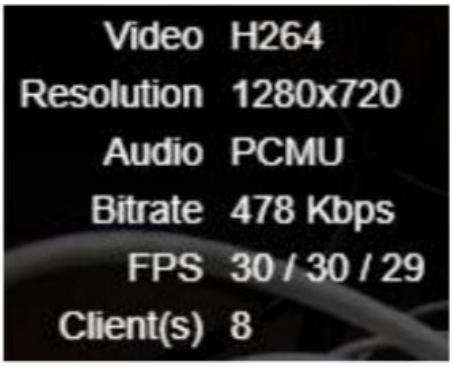


5. Once the live view is displayed, you can use the following functions for monitoring.



1.		The live view is enabled by default. Click to disable the live view.
2.		The audio is disabled by default. Click to enable the audio.
3.		Click to take a snapshot. The snapshot will be saved immediately to your PC's Downloads folder in .png format.
4.		The video resolution is set to sub stream by default. Click to set the video resolution to main stream of high quality.
5.		Picture-in-Picture (PIP) is disabled by default. Click to enable.
6.		Full Screen is disabled by default. Click to view in full screen.

6. Additionally, you can right-click the live view image, and select Stats to see the current Video (codec), Resolution, Audio (codec), Bitrate, FPS, and Client (total number of connections to the camera) in use.



1.7.1.2 Configuring Input / Output Settings

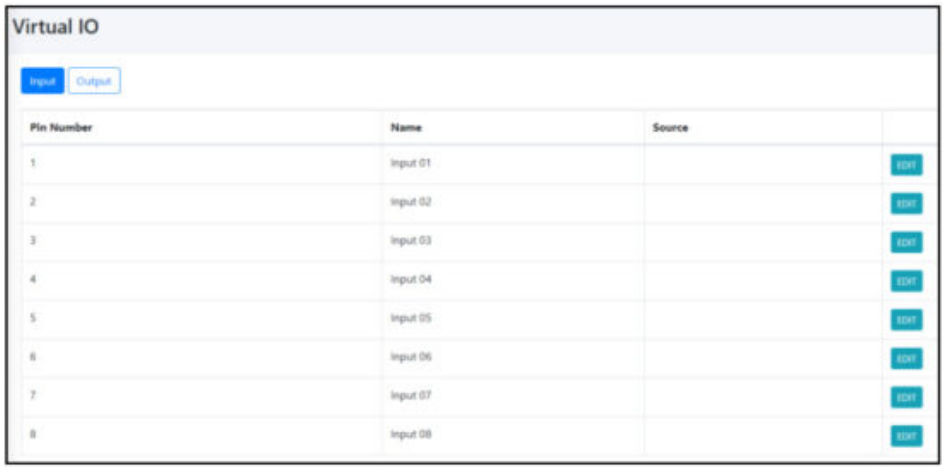
GV-Cloud Bridge can configure and manage up to 8 input and 8 output devices connected from the cameras and GV-IO Box. To configure I/O devices from GV-IO Box, see 1.7.1.3

Connecting to I/O Box to set up GV-IO Box in advance.

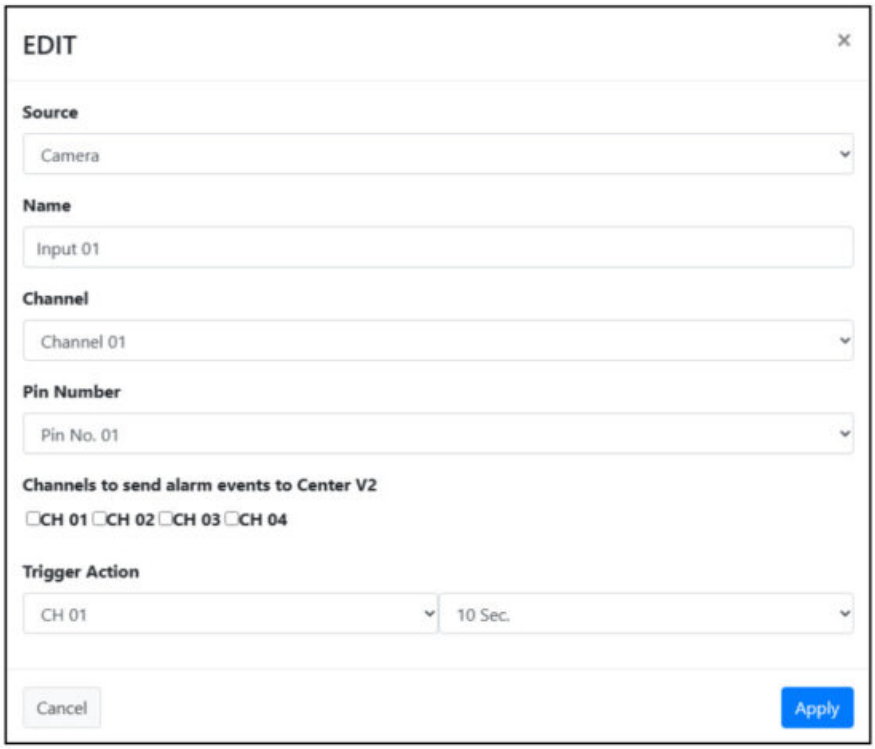
1.7.1.2.1 Input Settings

To configure an input, follow the steps below.

1. Select General Settings in the left menu, and click IO Settings. This page appears.



2. Click Edit for the desired input and select Camera or IO Box for Source. The edit page appears based on the selected **source.**



Name: Type a desired name for the input pin.

Channel / **IO Box:** Based on the selected source, specify the camera channel or IO Box number.

Pin Number / **IO Box Pin Number:** Select the desired pin number for the camera /IO Box.

Channels to send alarm events to Center V2: To send video events to central monitoring software GV-Center V2 upon the input trigger, select the corresponding camera(s).

Trigger Action: To send event videos to GV-Cloud VMS / GV-Center V2 upon input triggers, specify the recording channel and duration from the dropdown lists respectively.

3. Click Apply.

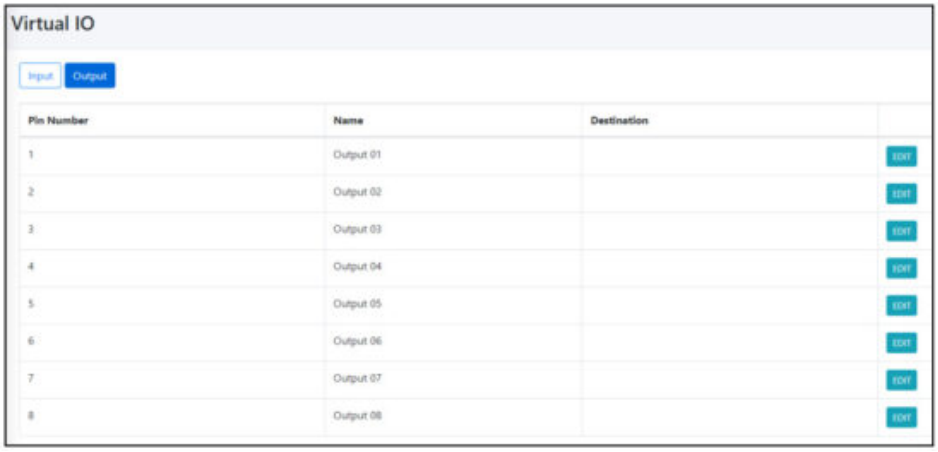
Note:

1. To send event alerts and event recordings to GV-Cloud VMS upon input triggers, make sure to connect to GV-Cloud VMS. See 1.7.4. Connecting to GV-Cloud VMS for details.
2. Once Trigger Action is enabled, make sure to enable Attachment Mode under Subscriber Settings on GV-Center V2 to allow the event videos to be sent. See 1.4.2 Subscriber Settings of **GV-Center V2 User's Manual** for details.
3. The input trigger event video recordings will be stored on GV-Cloud Bridge only and Cloud Playback for the event recordings is not supported on GV-Cloud VMS.

1.7.1.2.2 Output Settings

To configure an output, follow the steps below.

1. Select Output on the IO Settings page. This page appears.



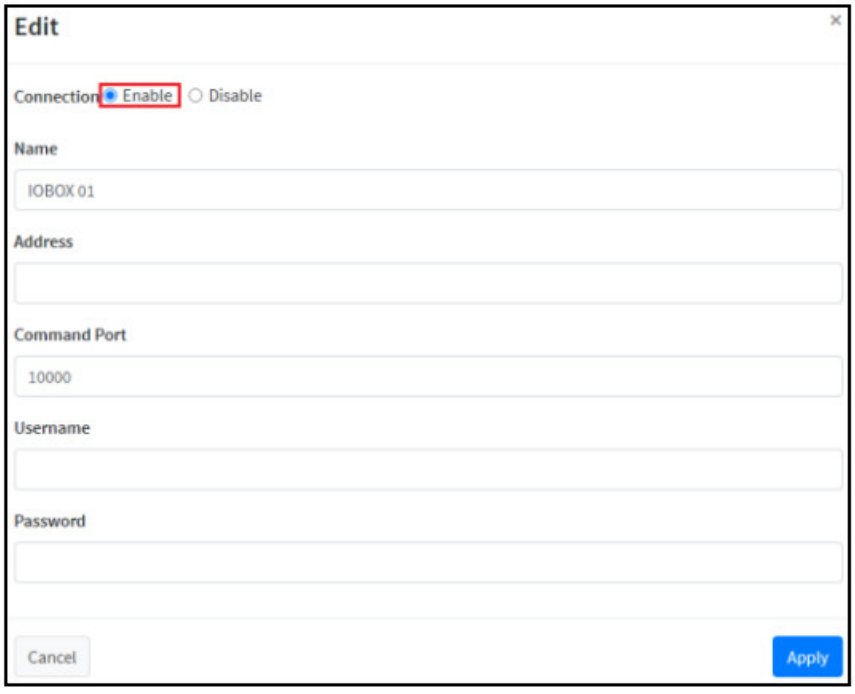
2. Follow Step 2 – 4 in 1.7.1.2.1 Input Settings.
3. To send event alerts to GV-Cloud VMS upon the output trigger, connect to GV-Cloud VMS first. See 1.7.4 Connecting to GV-Cloud VMS for details.
4. Optionally, you can manually trigger the camera output on GV-Eye. See 8. Live View in **GV-Eye Installation Guide**.

1.7.1.3 Connecting to I/O Box

Up to four pieces of GV-I/O Box can be added through the Web interface. To connect to a GV-I/O Box, follow the steps below.

1. Click General Settings in the left menu, and select IO BOX Settings. This page appears.

2. Click Edit for the desired GV-I/O Box. This page appears.



3. Enable the Connection, and type the necessary information for the GV-I/O Box. Click Apply.
4. To configure the corresponding virtual input / output settings, see 1.7.1.2 Configuring Input / Output Settings.

1.7.1.4 Connecting to GV-Cloud VMS

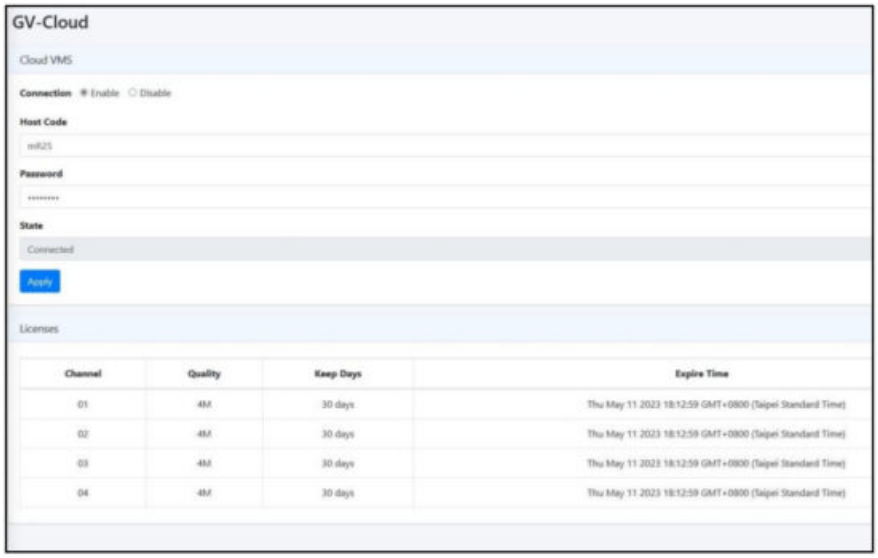
You can connect GV-Cloud Bridge to GV-Cloud VMS for cloud central monitoring. Follow the steps below to connect to GV-Cloud VMS.

On GV-Cloud VMS

1. Add your GV-Cloud Bridge to the host list on GV-Cloud VMS first. For details, see 2.3 Creating Hosts in **GV-Cloud VMS User's Manual**.

   On GV-Cloud Bridge

2. Select Operation Mode in the left menu, and select GV-Cloud VMS.
3. Click Apply. Once the device is rebooted, the mode will be successfully switched.
4. Click Service Settings in the left menu, and select GV-Cloud. This page appears.



5. Select Enable for Connection, and fill in the Host Code and the Password generated and created at Step 1.
6. Click Apply. Once it's successfully connected, the State field will display "Connected".

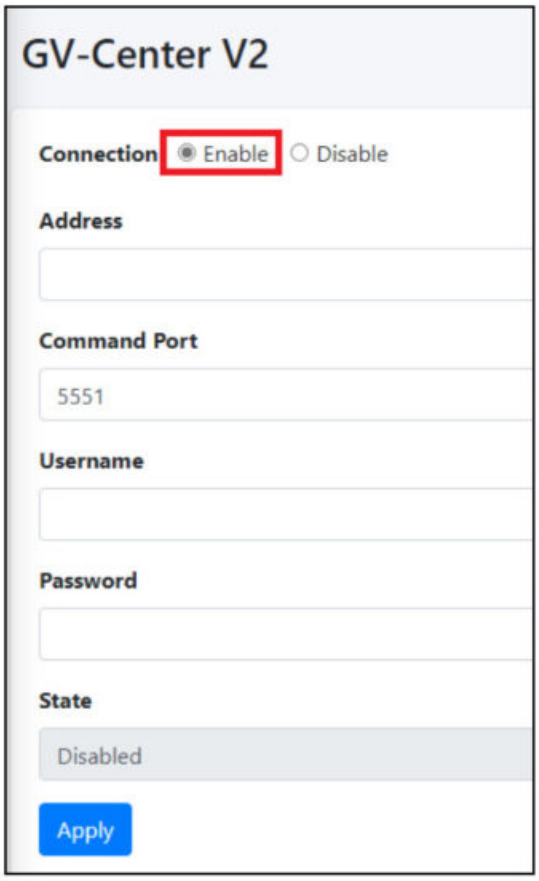
Note:

1. When motion occurs, GV-Cloud Bridge supports sending snapshots and video attachments (up to 30 seconds, set to sub stream by default) to GV-Cloud VMS, as well as the following AI events from AI-capable GV/UA-IP cameras: Intrusion / PVD Motion /
   Cross Line / Enter Area / Leave Area.
2. Make sure to insert a USB flash drive to your GV-Cloud Bridge for the video attachments to be sent to GV-Cloud VMS. To ensure the USB flash drive is smoothly working on GV-Cloud Bridge, select Storage > Disk in the left menu and check if the Status column displays OK.
3. When playback video laggings occur, a "System Overload" warning message will display on GV-Cloud VMS (Event Query). Adopt one of the measures below to solve the issue:
   i. Lower the camera bitrate
   ii. Disable the functions on part of the connected cameras: GV/UA-IP and ONVIF cameras (Motion detection); AI-capable GV/UA-IP cameras (AI functions:
   Intrusion/PVD Motion/Cross Line/Enter Area/Leave Area)

1.7.1.5 Connecting to GV-Center V2 / Dispatch Server

You can connect up to four cameras to GV-Center V2 / Dispatch Server using GV-Cloud Bridge. Follow the steps below to connect to GV-Center V2 / Dispatch Server.

1. Select Operation Mode in the left menu, and select CV2 / Video Gateway / RTMP.
2. Click Apply. Once the device is rebooted, the mode will be successfully switched.
3. Click Service Settings in the left menu, and select GV-Center V2. This page appears.



4. Select Enable for Connection, and type the necessary information for GV-Center V2 / Dispatch Server. Click Apply.

Note:

1. GV-Cloud Bridge allows alerts and video attachments to be sent to GV-Center V2 upon motion, input trigger, output trigger, video lost, video resumed, and tampering alarm events.
2. Make sure to insert a USB flash drive (FAT32 / exFAT) to GV-Cloud Bridge for sending playback recordings to GV-Center V2.
3. GV-Cloud Bridge supports sending alerts and video attachments to GV-Center V2 V18.3 or later upon Scene Change, Defocus, and AI events from AI-capable GV-IP cameras (Crossing Line / Intrusion / Entering Area / Leaving Area) and AI-capable UA-IP cameras (Cross Counting / Perimeter Intrusion Detection).
4. Enable Attachment Mode under Subscriber Settings on GV-Center V2 to activate video attachment function. See 1.4.2 Subscriber Settings of GV-Center V2 User's Manual for details.

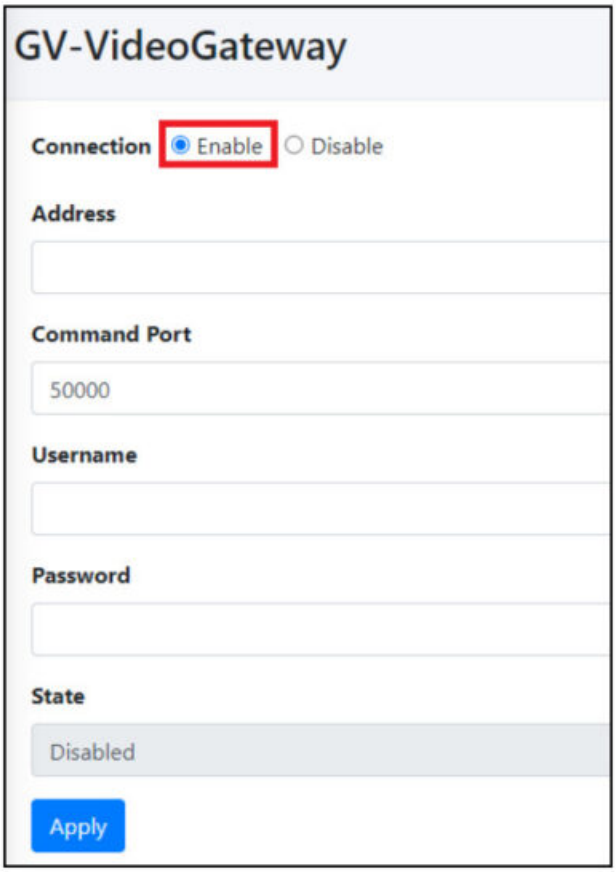
1.7.1.6 Connecting to GV-Recording Server / Video Gateway

You can connect up to four cameras to GV-Recording Server / Video Gateway using GV-Cloud Bridge through a passive connection. Follow the steps below to enable the connection to GV-Recording Server / Video Gateway.
Note: The connection function is only applicable to GV-Cloud Bridge V1.01 or later and GV-Recording Server / Video Gateway V2.1.0 or later.
On GV-Recording Server

1. To create passive connection, first follow the instructions in 4.2 Passive Connection of **GV-Recording Server User's Manual**.

On GV-Cloud Bridge

2. Select Operation Mode in the left menu, and select CV2 / Video Gateway / RTMP.
3. Click Apply. Once the device is rebooted, the mode will be successfully switched.
4. Click Service Settings in the left menu, and select GV-Video Gateway. This page appears.



5. Select Enable for Connection, and type the necessary information for GV-Recording Server / Video Gateway. Click Apply.

1.7.1.7 Connecting to GV-Eye

The cameras connected to the GV-Cloud Bridge can be conveniently monitored through GV-Eye installed on your mobile device. Follow the steps below to enable the connection to GV-Eye.

Note:

1. Connecting GV-Eye by GV-Relay QR-code is a paid service. For details, refer to Chapter 5. GV-Relay QR Code in **GV-Eye Installation Guide**.
2. All GV-Relay accounts are given 10.00 GB of free data every month and additional data can be purchased as desired through GV-Eye mobile app.

On GV-Cloud Bridge

1. Select Operation Mode in the left menu, and select CV2 / Video Gateway / RTMP.
2. Click Apply. Once the device is rebooted, the mode will be successfully switched.
3. Click Service Settings in the left menu, and select GV-Relay. This page appears.

4. Select On for Enable.

On GV-Eye

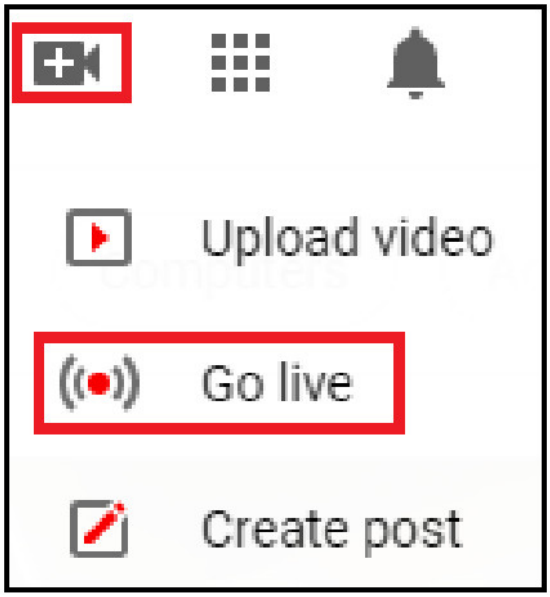
1. Tap Add on the Camera / Group List page of GV-Eye to access the Add Device page.
2. Tap QR-code scan , and hold your device over the QR code on the GV-Replay page.
3. When the scanning is successful, type the name and login credentials of your GV-Cloud Bridge. Click Get Information.
4. All cameras from your GV-Cloud Bridge are displayed. Select the cameras you want to view on GV-Eye and click Save. The selected cameras are added to GV-Eye under a Host Group.

1.7.1.8 Live Streaming

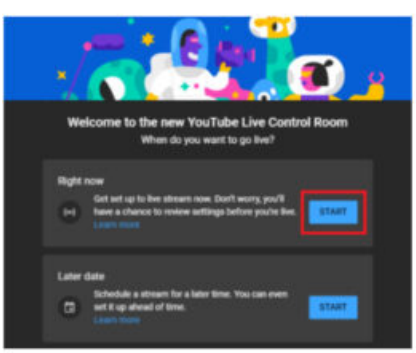
GV-Cloud Bridge supports live streaming from up to two cameras on YouTube, and Twitch.
The user interfaces are different by platforms. Find the relevant settings corresponding to your platform. Here we use YouTube as an example.

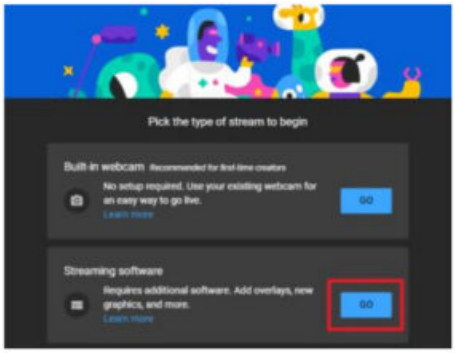
On YouTube

1. Log in to your YouTube account, click the Create icon and select Go live.

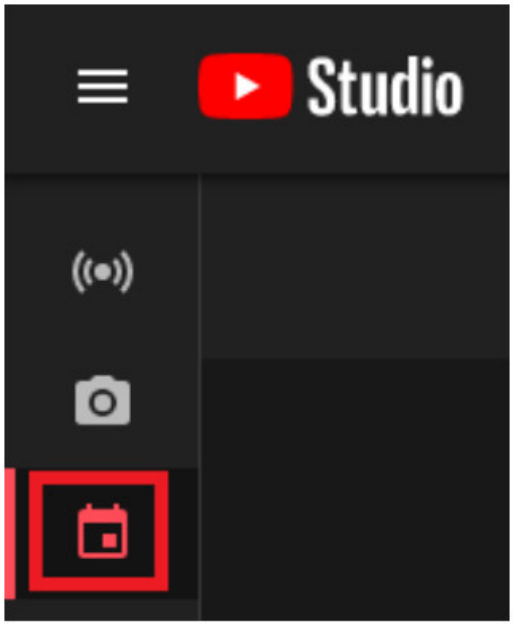


2. On the welcome page to Live control room, select Start for Right now, and then GO for Streaming software.

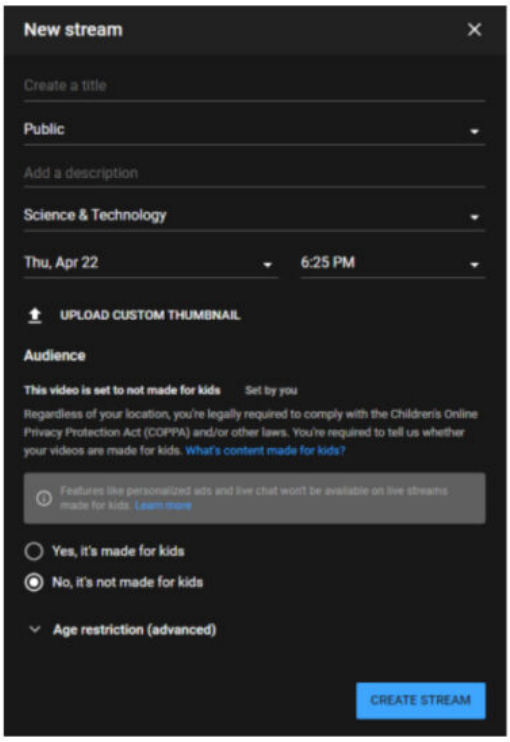




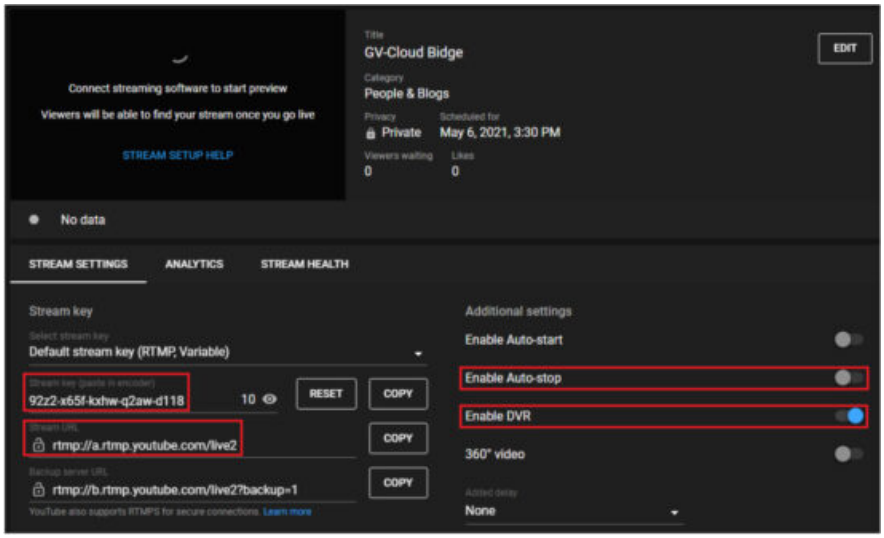
3. Select the Manage icon, and then SCHEDULE STREAM.



4. Specify the necessary information for your new stream. Click CREATE STREAM

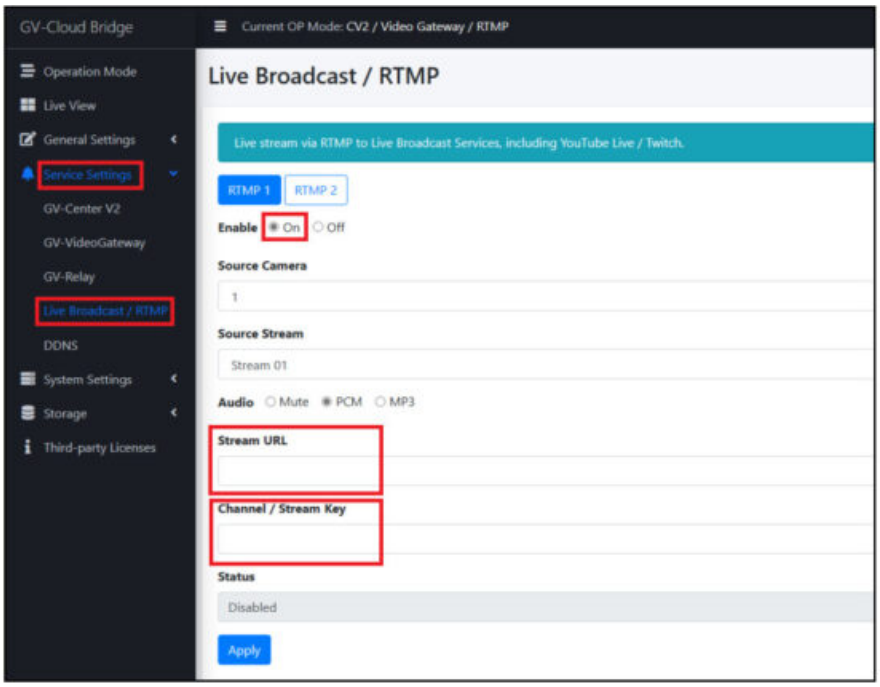


5. Make sure to disable the Enable Auto-stop setting, and enable the Enable DVR settings. The Stream key and Stream URL are now available.



On GV-Cloud Bridge

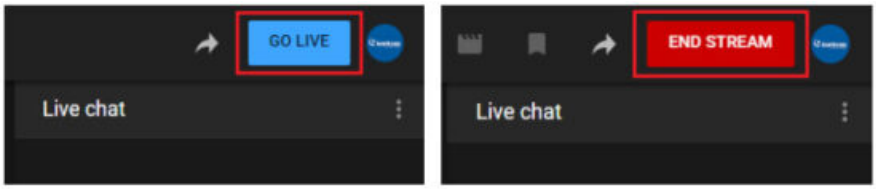
6. Select Operation Mode in the left menu, and select CV2 / Video Gateway / RTMP.
7. Click Apply. The device will reboot for and the mode to be successfully applied.
8. Click Service Settings, and select Live Broadcast / RTMP. This page appears.



9. Enable the Connection, and copy and paste the Stream key and Stream URL from YouTube to the RTMP Settings page. Click Apply. The live video stream from GV-Cloud Bridge is now viewable to you in the preview window on YouTube.
   ■ Stream URL: YouTube Server URL
   ■ Channel / Stream Key: YouTube Stream key
10. Select PCM or MP3 for Audio, or select Mute for no sound.

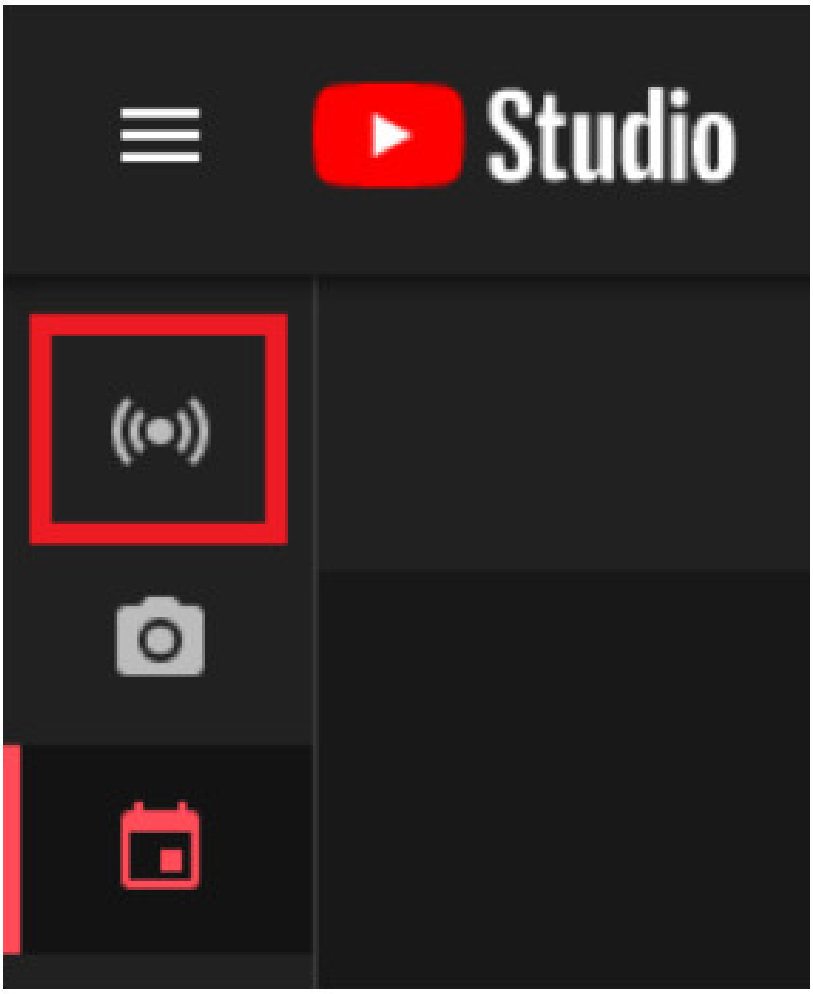
On YouTube

11. Click GO LIVE to begin streaming, and END STREAM to end streaming.



IMPORTANT:

1. At Step 3, do not select the Stream icon to set up the live stream. Doing so will enable the Enable Auto-stop setting by default, and disconnect from live stream upon unstable Internet connection.



2. Make sure to set your camera's video compression to H.264. If not, the live stream will appear as follow:

1.7.2 For VPN Box Operation Mode

With the VPN Box Operation Mode, GV-Cloud Bridge allows users to create a virtual private network environment enclosed for the devices running under the same LAN, saving the trouble of port forwarding.

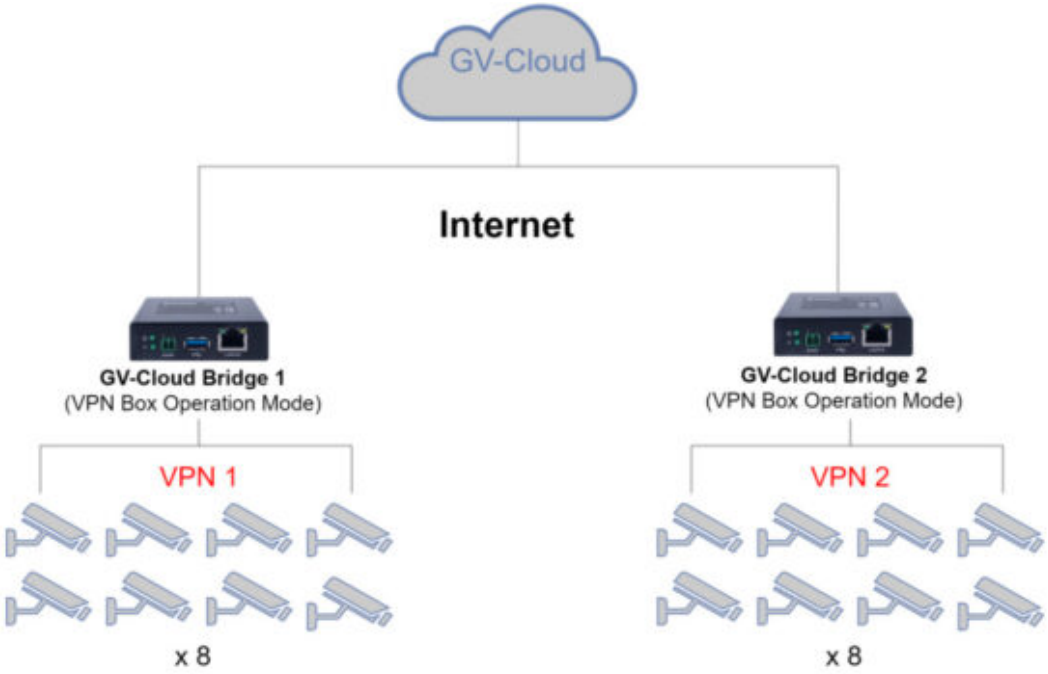
The following sections will introduce the VPN setup flow for enabling the VPN function built in GV-Cloud Bridge:

Step 1. Sign up on GV-Cloud

Step 2. Create a VPN account on GV-Cloud

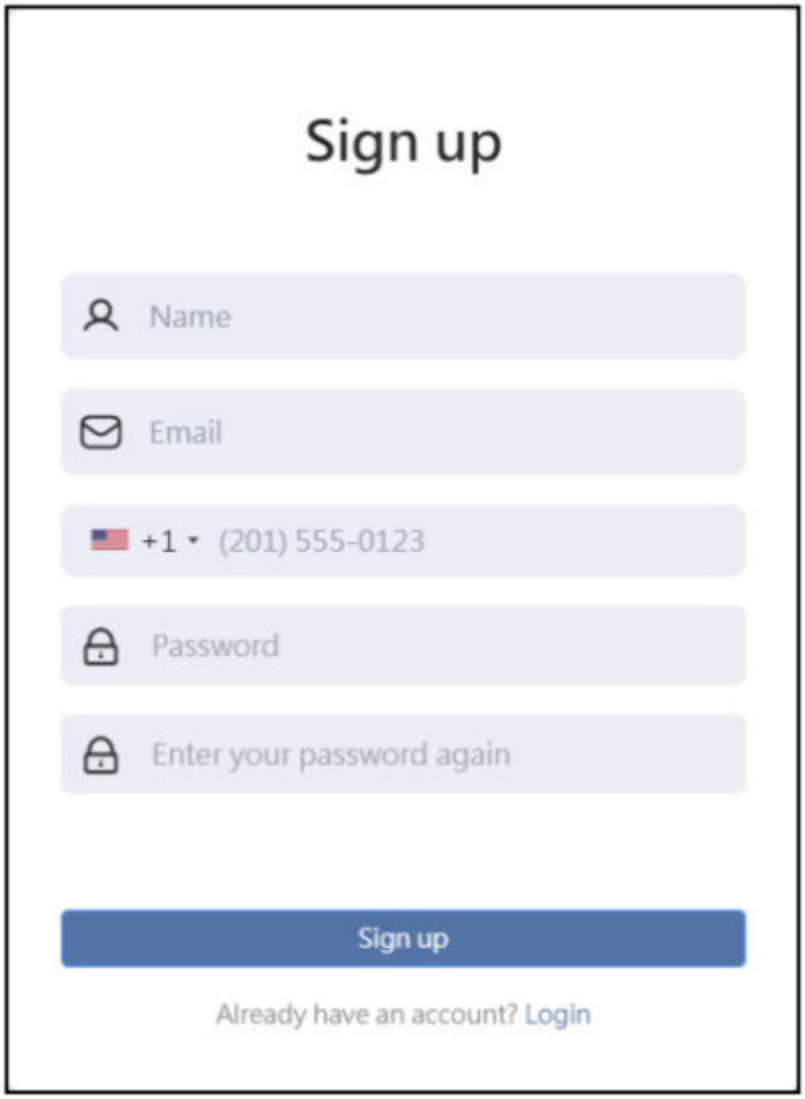
Step 3. Connect GV-Cloud Bridge to the VPN account on GV-Cloud

Step 4. Map the IP addresses of up to 8 devices, under the same LAN as GV-Cloud Bridge, to VPN IP addresses



Step 1. Sign up on GV-Cloud

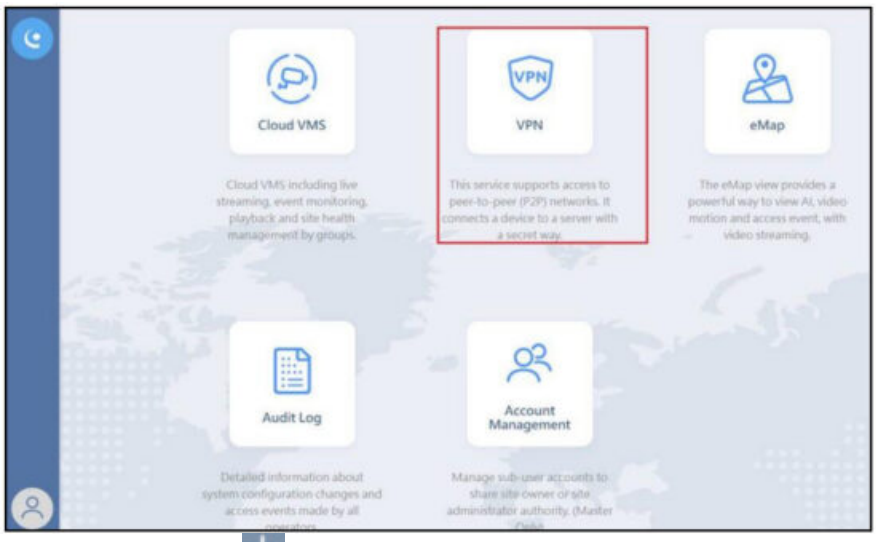
1. Visit GV-Cloud at **https://www.gvaicloud.com/** and click Sign up.
2. Type the necessary information and complete the sign-up procedure.



3. Confirm the account by clicking the activation link sent via e-mail. Keep the attached registration information for logging in GV-Cloud later. For details, see Chapter 1 in **GV-VPN Guide**.

Step 2. Create a VPN account on GV-Cloud

4. Log in GV-Cloud at https://www.gvaicloud.com/ using the information created at Step 3.
5. Select VPN.



6. On the VPN setup page, click the Add button and type the necessary information to create a VPN account.

Step 3. Connect GV-Cloud Bridge to the VPN account on GV-Cloud

7. On GV-Cloud Bridge, select Operation Mode in the left menu, and select VPN Box.
8. Click Apply. Once the device is rebooted, the mode will be successfully switched.
9. Click GV-VPN in the left menu, and select Basic.

10. Enable the Connection.
11. Type the ID and Password created at Step 6, specify a desired host name, and set the desired VPN IP for your

GV-Cloud Bridge. The VPN IP (198.18.0.1 ~ 198.18.255.254) is available.

12. Click Apply.
13. Once connected, the State will display Connected.

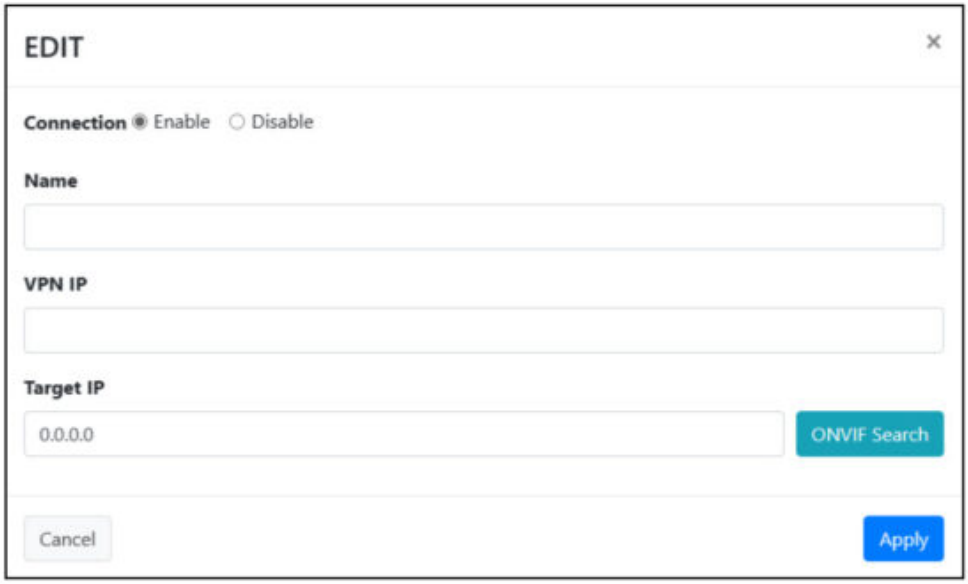
Note:

1. To ensure a stable connection, make sure the total bandwidth of the connected devices does not exceed 15 Mbps.
2. The following NAT types will be displayed depending on your network environment: Moderate / Restrict / Exceed limit / Unknown. For more details, see No.8, 3. Configuring GV-VPN on **GV-VPN Guide**.

Step 4. Map the IP addresses of up to 8 devices, under the same LAN as GV-Cloud Bridge, to VPN IP addresses

14. On GV-Cloud Bridge, select GV-VPN, and select IP Mapping in the left menu.

15. Click Edit to map an VPN IP. The Edit page appears.



16. Enable the Connection.
17. Type the desired name, set the desired VPN IP for the device, and type the device IP (Target IP). The VPN IP (198.18.0.1 ~ 198.18.255.254) is available.
18. For the device IP, you can optionally click ONVIF Search to search for the desired device, and click Import to automatically fill in the device's IP address on the Edit page.
19. Click Apply.

The Host Name, VPN IP, and Ta rget IP will be displayed on each device entry. Once connected, the State will display Connected.

Note: Make sure the VPN IP set for different devices do not repeat.

System Settings

1.8.1 Device Name

To change the device name of your GV-Cloud Bridge, follow the steps below.

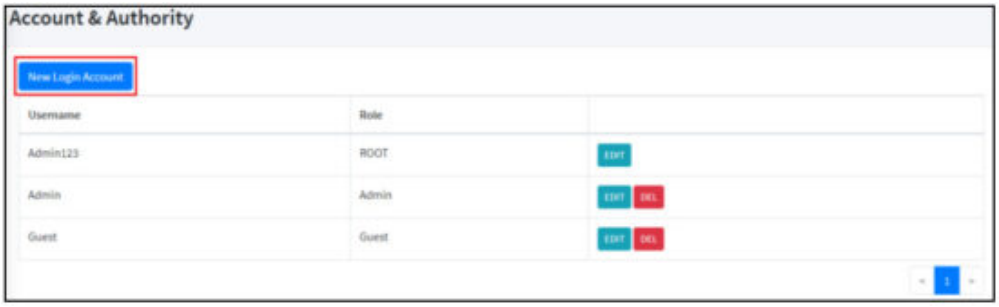
1. Click System Settings in the left menu, and select Basic. This page appears.

2. Type a desired Device Name. Click Apply.

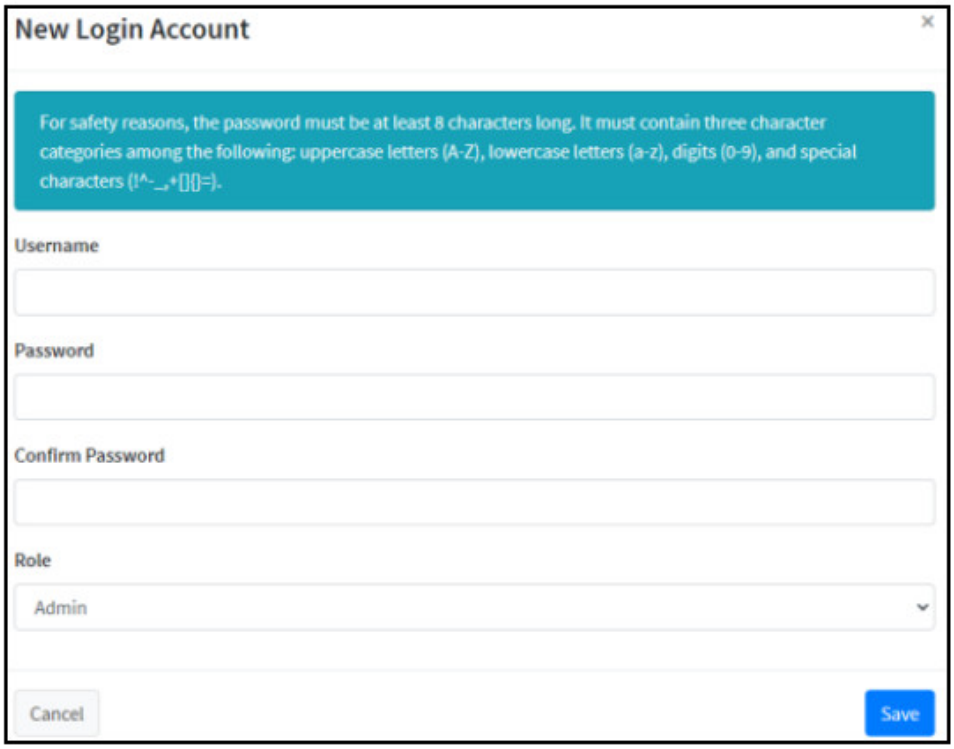
1.8.2 Account Management

GV-Cloud Bridge supports up to 32 accounts. To manage the accounts of your GV-Cloud Bridge, follow the steps below.

1. Click System Settings in the left menu, and select Account & Authority. This page appears.



2. To add a new account, click New Login Account. This page appears.

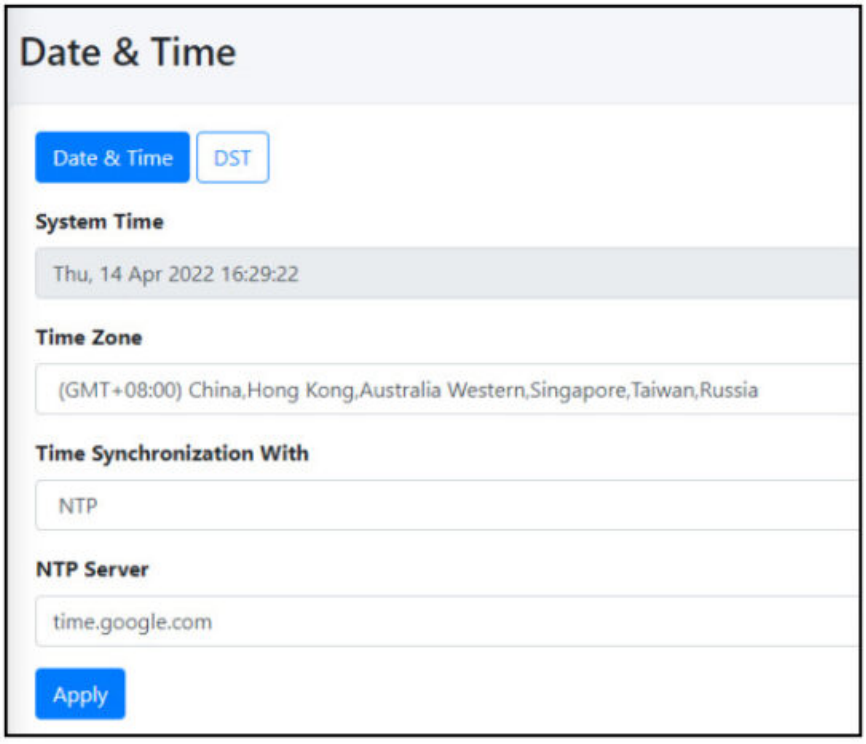


3. Type the necessary information and select a role as Admin or Guest. Click Save.
   - **ROOT:** This role is created by default and cannot be added or deleted. The ROOT account has full access to all functions.
   - **Admin:** This role can be added or deleted. The Admin account has full access to all functions.
   - **Guest:** This role can be added or deleted. The Guest account can only access the live view.
4. To modify the password or role of an account, click Edit for the desired account, and make your changes. Click Save.

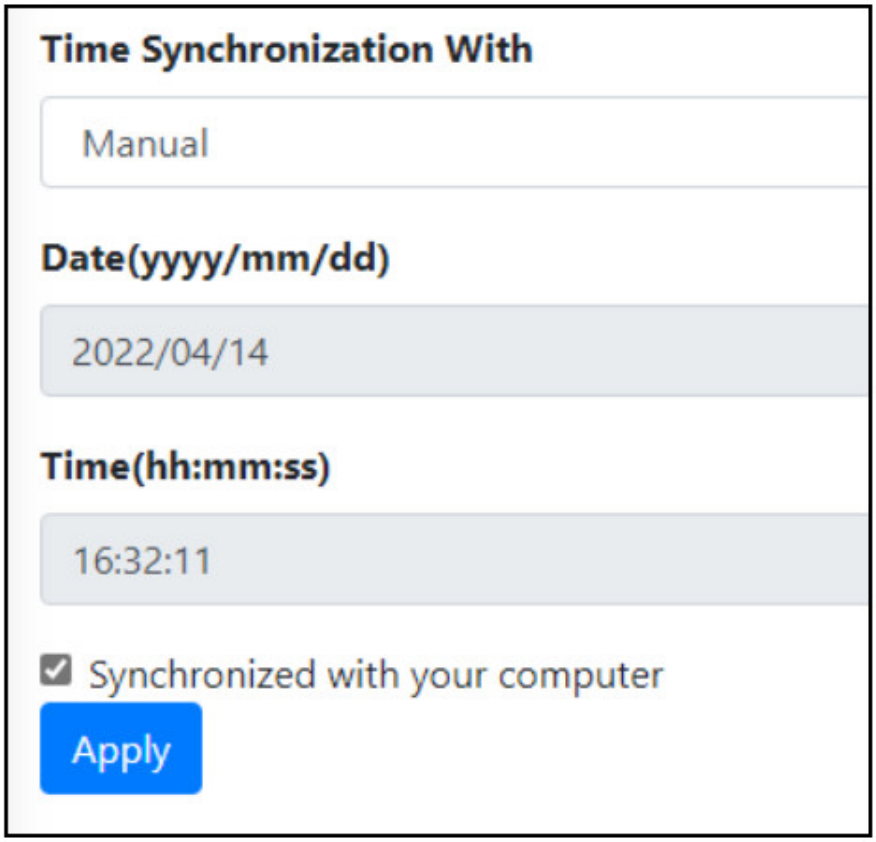
1.8.3 Configuring Date and Time

To configure the date and time of your GV-Cloud Bridge, follow the steps below.

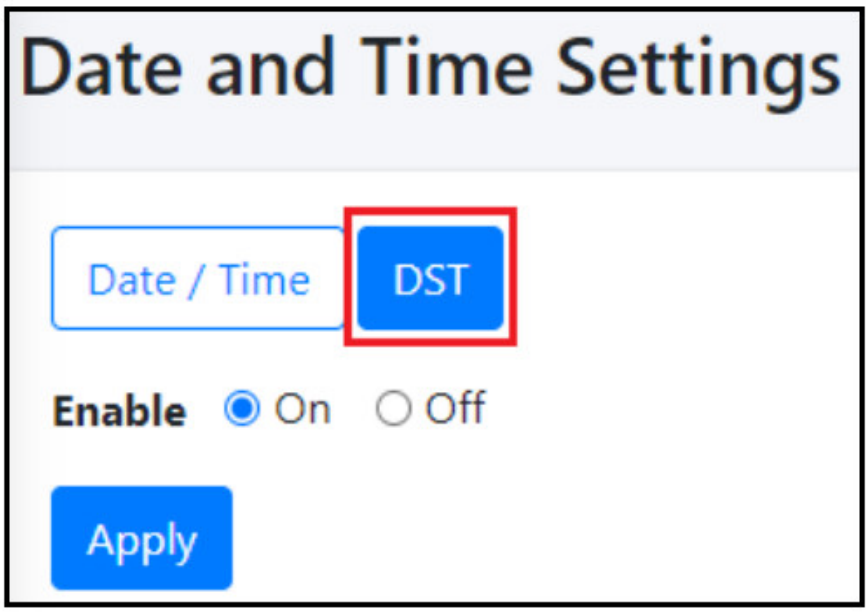
1. Click System Settings in the left menu, and select Date / Time. This page appears.



2. Select a desired Time Zone if necessary.
3. The Time Synchronization With is set to NTP by default. You can change the NTP server in use by typing another server under NTP Server.
4. To manually set the date and time for your device, select Manual under Time Synchronization With, and type the desired date and time. Or enable Synchronized with your computer to sync the device's date and time with those of the local computer.



5. If necessary, you can also enable or disable Daylight Saving Time in the DST setting.



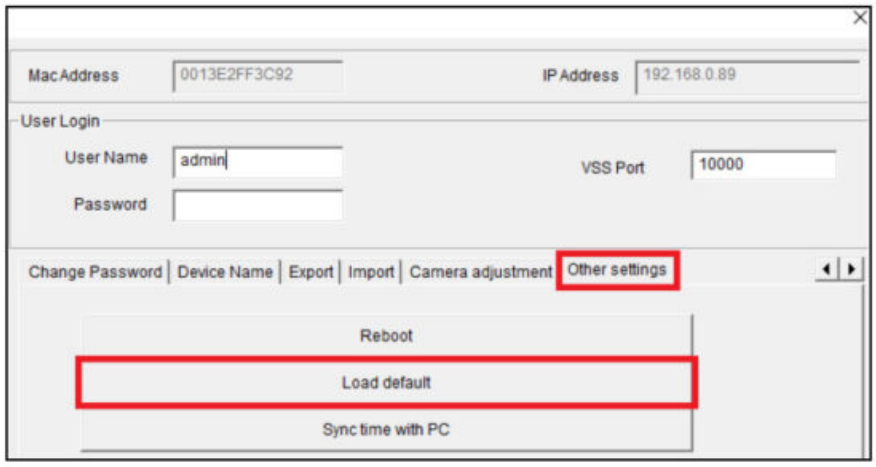
1.8.4 Loading Default

If for any reason the GV-Cloud Bridge is not responding correctly, you can reboot it or reset it to factory default settings by one of the methods below.

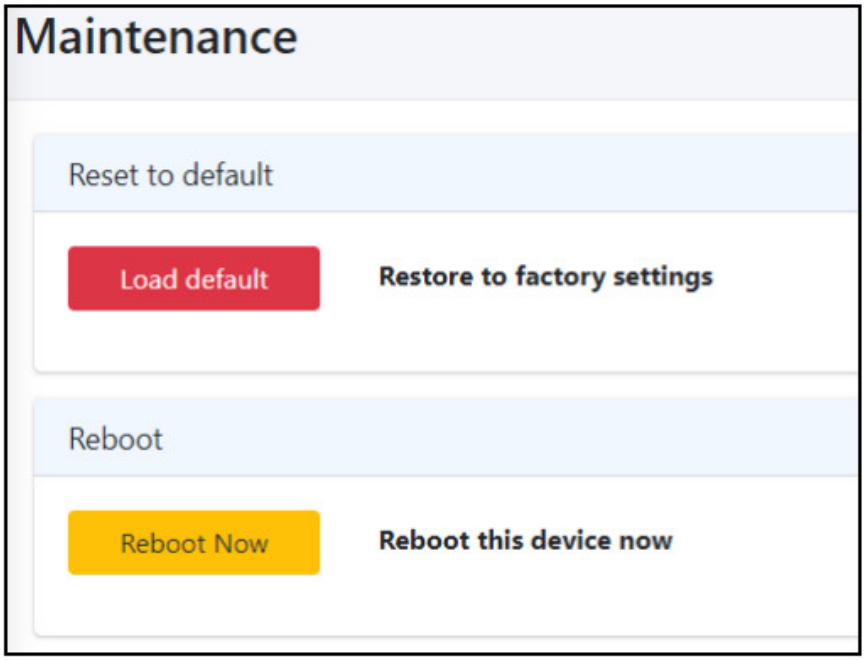
1. **Manual** button: Press and hold the Reset button (No. 8, 1.3 Overview) to reboot, or Default button (No. 7, 1.3

Overview) to load default.

2. **GV-IP Device Utility:** Find your GV-Cloud Bridge on GV-IP Device Utility window, click its IP address, and select Configure. Click the Other settings tab on the pop-up dialog box, type the User Name and Password, and then click Load default.



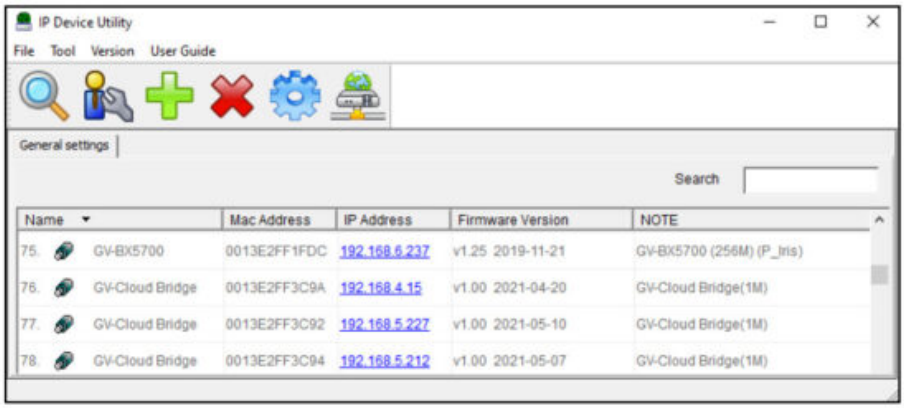
3. Web interface: Click System Settings in the left menu, and select Maintenance.
   For ROOT account only, click Load default to restore to factory settings or Reboot Now to restart.
   For Admin or Guest accounts, click Reboot Now to restart.



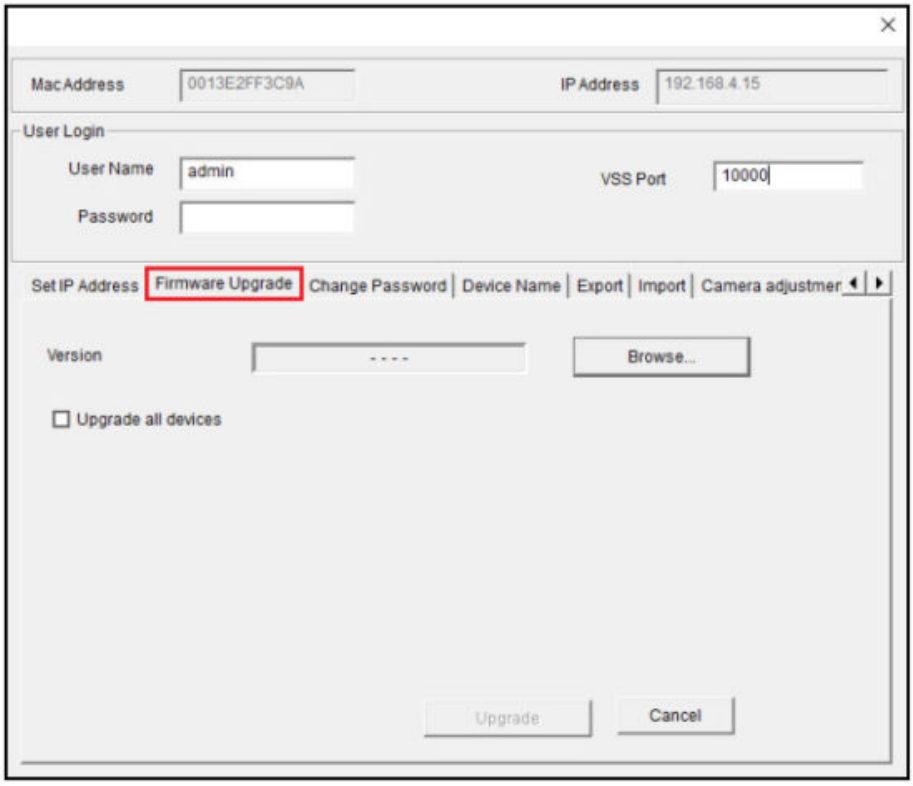
1.9 Updating Firmware

The firmware of GV-Cloud Bridge can only be updated through GV-IP Device Utility. To update your firmware, follow the steps below.

1. Download and install the **GV-IP Device Utility**.
2. Find your GV-Cloud Bridge on GV-IP Device Utility window, click its IP address, and select Configure.



3. Click the Firmware Upgrade tab on the pop-up dialog box, and click Browse to locate the firmware file (.img) saved at your local computer.



4. Type the User Name and Password of the ROOT or Admin account, and click Upgrade.

Scan the following QR codes for product warranty and technical support policy:

[Warranty]	[Technical Support Policy]
https://www.geovision.com.tw/warranty.php	https://www.geovision.com.tw/_upload/doc/Technical_Support_Policy.pdf

Documents / Resources

	Geovision GV-Cloud Bridge Endcoder [pdf] User Manual 84-CLBG000-0010, GV-Cloud Bridge Endcoder, GV-Cloud Bridge, Endcoder

References

- GV-Cloud
- User Manual