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Quick Start Guide

GV-Control Center V4

Thank you for purchasing GV-Control Center. This guide is designed to assist the new user in getting immediate results from the GV-Control Center. For advanced information on how to use the GV-Control Center, please refer to *GV-Control Center User's Manual*.

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[Warranty]

[Technical Support Policy]

Contents

1.   Introduction

Welcome to the GV-Control Center Quick Start Guide. In the following sections, you will learn the basic requirements and configurations of using GV-Control Center. For the detailed instructions, see the *GV-Control Center User's Manual V4* from GeoVision website.

Note: To upgrade GV-Control Center, run the **Installer** (setup.exe) included in the latest software downloads from our website, and select **Reinstall / Upgrade** to start. For details, see *Note for Upgrading GV-Control Center* in User's Manual.

2. System Requirements

2.1 Minimum System Requirements

OS 64-bit	Windows 10 / 11 / Server 2016 / Server 2019 / Server 2022
CPU	Core i7 2600K, 3.4 GHz
RAM	16 GB Dual Channels
Hard Disk	500 GB
Graphic Card	Please see GPU Decoding Specifications on the datasheet.
DirectX	9.0c
LAN Card	Gigabit Ethernet x 2
Hardware	Internal or External GV-USB Dongle

Note:

1. It is not recommended to install GV-Control Center and GV-Center V2 Pro on the same PC. Running the two software together on the same PC may result in CPU overload error or system failure.

2. To display a megapixel IP channel across monitors, make sure the external graphic cards on a server are of the same brand, model and driver version, and the capacity of graphic cards are of NVIDIA GTS 450 or higher to ensure maximum efficiency.

3. When you find CPU usage is high or live view is unsmooth (dropping frames), you may need to increase CPU threads and memory or decrease the number of connected cameras to improve the system performance.

4. For GV-Control Center to support up to 9 Live Views, with 100 camera channels for each Live View, higher PC specifications are required than the minimum requirements.

2.2 Software License

Free License	N/A
Maximum License	Unlimited number of hosts
Increment for each license	N/A
Optional Combination	1. Control Center 2. Control Center + Video Wall (1 to 200 license) 3. Control Center + Vital Sign Monitor 4. Control Center + Vital Sign Monitor + Video Wall (1 to 200 licenses) *No. 3 ~No. 4 are **not** supported by *software licensing*
Dongle Type	GV-USB dongle or software license

Note: For using Video Wall functions, you need two licenses, Control Center and Video Wall, activated on GV-Control Center.

IMPORTANT:

1. To upgrade to V4.0.0 or later, a purchased initial license is required to start GV-Control Center software.

2. The license comes in two forms: *GV-USB dongle* and *software license.* The two are incompatible. Before using software licensing, make sure to remove GV-USB dongle if inserted on the PC.

3. GV-USB dongle has two types: Internal and External. Internal dongle is recommended for the Hardware Watchdog function, which restarts the PC when Windows crashes or freezes.

4. Software licensing:

   - Not support the following software currently: GV-AI Guard, GV-DVR / NVR.

   - Support the following products: GV-AI FR V1.2 or later, GV-ASManager V6.0.1 or later, GV-Recording Server V2.0 or later, GV-SNVR series, GV-VMS V17.4.2 / V18.3.0 or later, UA-HD DVR series, UA-SNVR series, IP devices.
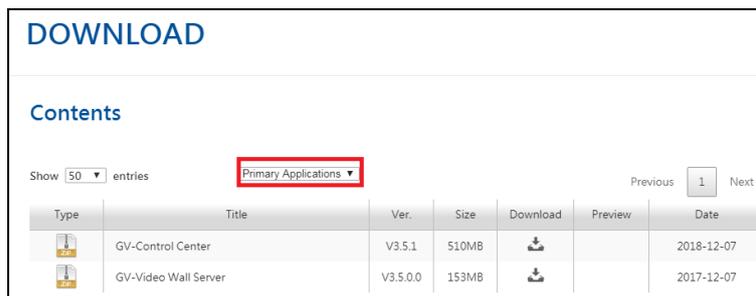
2.3 Compatible Products

For compatible GeoVision and USAVision products, please refer to the datasheet.

3. Getting Started

3.1 Installation

1. Go to the Download page of GeoVision Website

2. To install GV-Control Center, select **Primary Applications** from the dropdown list to download the software.

3. If you are using a GV-USB Dongle for licensing, insert the dongle to your computer.

   ● To install the USB device driver, select **Driver, F/W, Patch** from the dropdown list and download **GV-Series Card Driver / USB Devices Driver**.

   ● To verify the driver is installed correctly, go to Windows Device Manager and expand **DVR-Devices**. You should see **GV-Series USB Protector**.

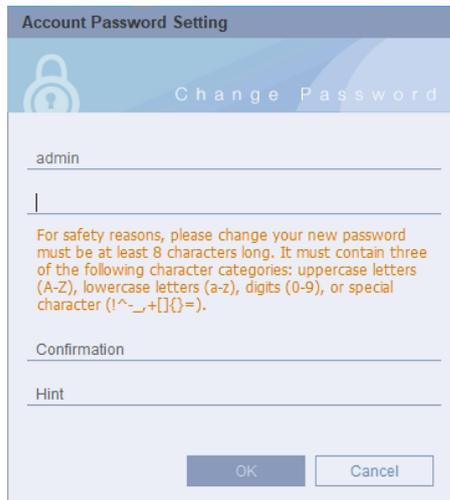4. If you are using software license, click **Windows Start** > **Control Center** > **Register GV-Control Center Platform** to register the serial number purchased from GeoVision. For details, see *First-Time Licensing* in *GV-Software Licensing*.

3.2 Login

Follow the steps below to launch GV-Control Center for the first time.

1. Run GV-Control Center. You are prompted for an Administrator's ID and Password.

Account Password Setting

Change Password

admin

For safety reasons, please change your new password must be at least 8 characters long. It must contain three of the following character categories: uppercase letters (A-Z), lowercase letters (a-z), digits (0-9), or special character (!^-_,+[]{}=).

Confirmation

Hint

OK   Cancel

2. Type the default ID **admin**.

3. Type your desired password. The password must be at least 8 characters long and contain at least 3 of the following types of characters: uppercase letters, lowercase letters, numbers and special characters. Click **OK**.

4. Optionally activate or skip the SQL settings at this step. You are logged in GV-Control Center now.
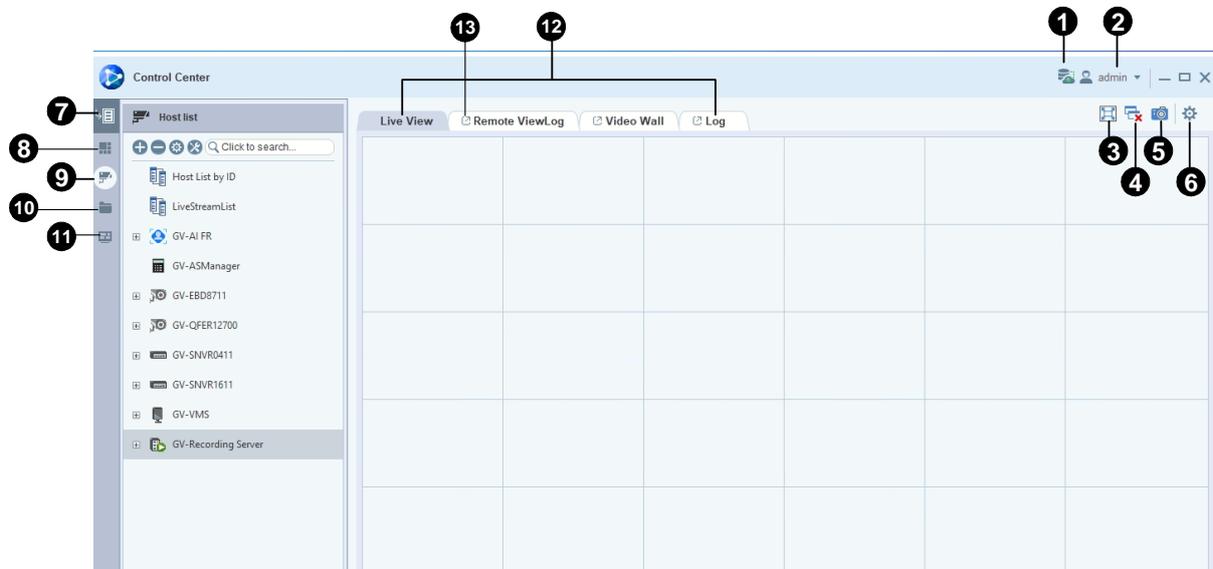

Note:

1. By default, GV-Control Center contains an Administrator account with the login ID **admin.** First-time users need to set up a password for the admin account in order to log in.

2. Users can choose to run GV-Control Center with the **Microsoft SQL Server Database,** which is suggested to be installed on a separate server. The log data, however, is only available when the SQL Server is properly configured and connected to GV-Control Center. For details on installing and configuring the SQL Server, see the technical notice.

Tip: To access the SQL settings after logging in GV-Control Center, click **Configure** ⚙ (top right of the main screen) > **Setup** > **System Configure** > the **System Log** tab.

4. Overview

4.1 The Main Screen

No.	Name	Description
1	Log Database Status	Display whether the log database is connected or not.
2	Login Account	Log out the current account, switch to another account, create accounts and manage account privileges.
3	Full Screen	Diminish all application windows, toolbars and display only the main screen.
4	Close All Videos	Close all channels on the main screen.
5	Snapshot	Take a snapshot of all the channels on the Live View.
6	Configure	Access the general settings of the Control Center and tools. See No. 6, *7. Live View* in the quick guide*.
7	List Mode	**List Mode-Tile** hides the 4 buttons of Layout, Host List, Group List and Video Wall while **List Model-Cascade** displays the 4 buttons under the List Mode.
8	Layout	Open / hide the Layout list. See *4.4 The Layout*.
9	Host List	Open / hide the Host List. See *4.2 The Host List*.
10	Group List	Open / hide the Group List. See *4.3 The Group List*.

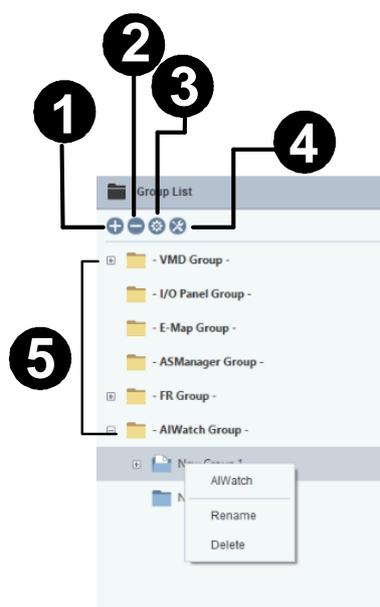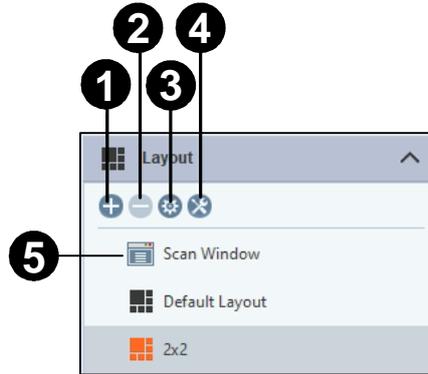| No.	Name	Description
11	Video Wall	Open / hide the Video Wall layout list. See *8.4 Video Wall* in the user's manual*.*
12	Live View, Remote ViewLog, Video Wall, Log	Display the live view, play back recordings, access Video Wall settings and log data.
13	Move Tab to New Window	Move a tab to another window.

4.2   The Host List

No.	Name	Description
1	Add	Add hosts and groups.
2	Delete	Delete hosts and groups.
3	Configure	Modify host connection settings.
4	Tools	Access the following options: ■ **Auto Set IP Address:** See *3.1 Configuring the IP Address* in the user's manual. ■ **Upgrade Device Name**: See *3.2 Renaming Devices* in the user's manual. ■ **NAS Setup:** See *3.5 Configuring NAS* in the user's manual. ■ **Storage Information:** See 3.*5.4 Viewing Storage Information* in the user's manual. ■ **Change Host ID and Password**: See *3.3 Connecting to Hosts with Identical Credentials* in the user's manual. ■ **Face Manager:** See *GV-Face Manager User Guide*. ■ **Broadcast Service:** See *4.9 Audio Broadcast* in the user's manual. .
	Search	Search for cameras in the list.

4.3 The Group List

No.	Name	Description
1	Add	Add groups.
2	Delete	Delete groups.
3	Configure	Access the following option: ■ **Display Host Name in the Group List** ■ **Sort the Group List by Names**
4	Tools	Access the following option: ■ **Broadcast Service**: See *4.9 Audio Broadcast* in the user's manual.
5	Default Group	■ **VMD Group:** See *4.7 VMD Monitoring* in the user's manual. ■ **I/O Panel Group:** See *Chapter 7 I/O Central Panel* in the user's manual. ■ **E-Map Group:** See *9.1 Remote E-Map* in the user's manual. ■ **ASManager Group:** See *4.10 ASManager View* in the user's manual. ■ **FR Group:** See *4.9 Face Recognition Watch* in the user's manual. ■ **AI Guard Group:** You can access AI Watch under AI Guard Group. See *4.10 AI Watch* in the user's manual.

4.4   The Layout List

No.	Name	Description
1	Add	Add layouts or groups.
2	Delete	Delete layouts or groups.
3	Configure	Configure the text overlay and image ratio of live view.
4	Tools	Access the following option: ■ **Live View Quick Zoom:** Display a camera view on the primary monitor when multiple monitors are used. See *8.3 Quick Zoom* in the user's manual.
5	Scan Window	Drag the Scan Window to a live view grid and then cameras to the grid to display the cameras in sequence. See *4.2.3 Setting up Scan Window* in the user's manual.

5.   Creating Hosts and Groups

You need to create hosts or groups before starting GV-Control Center services. To create hosts, you can use the **Search Host** function (**Add** button on the Host List > **Add Host**) to detect GV / UA devices and compatible third-party IP devices on the same LAN and add them to the Host List, or you can follow the steps in the following section.

Note:

1. To use the **Search Host** function to locate GV devices, it is required to open TCP port 5201 on the client DVR / NVR / VMS, TCP port 5202 on the Video Server and Compact DVR, and UDP port 5200 on GV-Control Center.
2. If antivirus software is installed, the **Search Host** function may be interfered and unable to detect any hosts. In this case, turn off the antivirus software and try again.
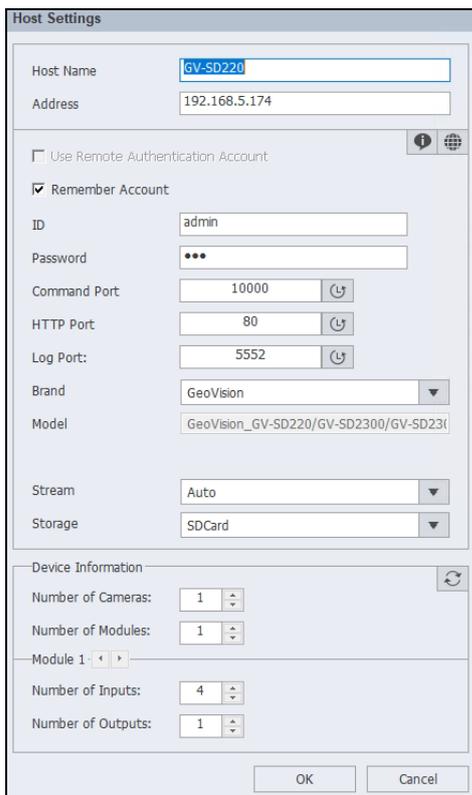

IMPORTANT:

If you are using software licensing, every time when you add a new host, you need to update the licensing by clicking the **Configure** button ⚙ (top right of the main screen) > **License Request Generator** > **Adjust registered license** > **OK** > **Agree License Agreement**.

5.1 Creating a Host

Create hosts for GV devices and software you like to monitor in GV-Control Center. The Host Settings dialog box may differ depending on devices and software. The following steps demonstrate how to add an IP camera host.

1. On the Host List, click the **Add** button > **Add Host** > **Search Host**.

2. On the Host Settings dialog box, type the name, IP address, login ID and password of the host. Keep the communication port as default, unless otherwise necessary.

3. Click the **Update Information** button to request the number of cameras, I/O devices of the host.

4. Optionally select **Stream 1** or **Stream 2** for live view display. By default, the Stream is set to **Auto** and the received streaming is based on the streaming setting of the host. Select **Single Auto** for the received streaming to adapt when the live view sizes vary.

5. Click **OK**.

6. If you are using software licensing, every time when you add a new host, you need to update the licensing by clicking the **Configure** button ⚙ (top right of the main screen) > **License Request Generator** > **Adjust registered license** > **OK** > **Agree License Agreement**.

Tip:

1. To access the Web interface of the camera, click [globe icon] on the Host Settings dialog box.
2. To access the live view of the camera, drag and drop the camera from the Host List to any live view grids.

For detail, see *2.2.1 Creating a Host* in the user's manual.

5.2   Creating a Group

You can group different hosts or cameras, by location or purpose, under the Host List or the Group List.

On the Group List, default group folders have already been created for specific functions such as **VMD** (Video Motion Detection), **I/O Panel**, **E-Map**, **ASManager** and **FR**. You can also create additional groups to apply Remote ViewLog, Panorama Setting and Privilege Setting to the cameras within the group collectively.

To create a group:

1. On the Host List / Group List, click the **Add** button > **Add Group**.
2. Name the created group.
3. On the Host List, drag the desired hosts to the group.

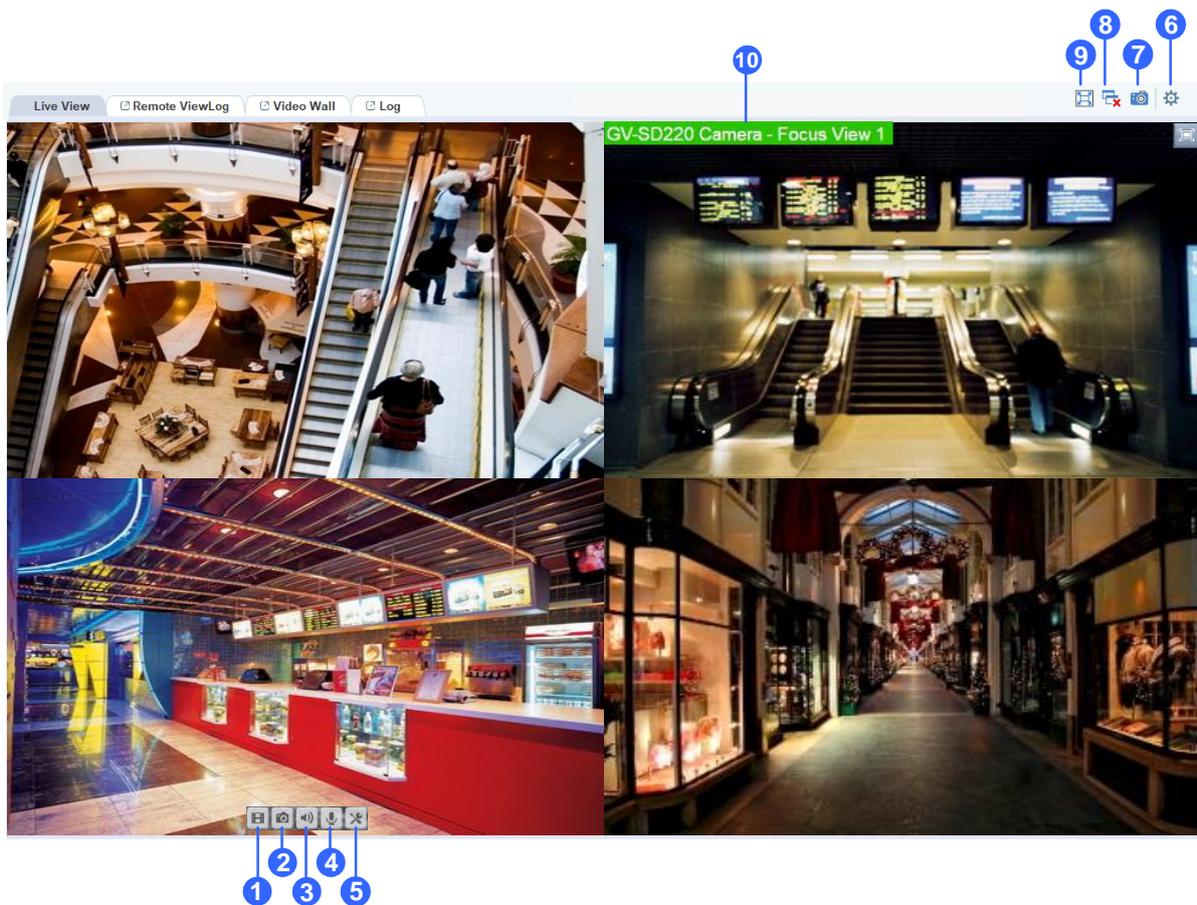For details, see *2.2.2 Creating a Group* in the user's manual.

6. Connecting to GV-DVR / NVR / VMS

GV-Control Center supports several types of hosts. Only **GV-DVR / NVR / VMS** hosts need to be configured ahead to allow remote access from GV-Control Center. To configure GV-DVR / NVR / VMS, click the **Network** button on the main screen > **Control Center Server**, and select **Start Default Service** or **Start All Service** to connect.

For details, see 2.3.1 *Control Center Server Window* in the user's manual.
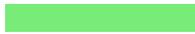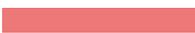
7.   Live View

The Live View window displays live streams and gives you access to the camera channels that are visible. You can monitor up to 100 channels at the same time. Drag and drop cameras from the Host List to any live view grids to display live view.

No.	Name	Description
1	Instant Play	Play back the recordings.
2	Snapshot	Capture a snapshot of the selected channel.
3	Wave Out	Receive live audio from the selected channel.
4	Microphone	Talk to the surveillance site.
5	Configure	■ **Monitor:** Enable / disable monitoring of the camera. ■ **Wide Angle Lens Dewarping:** Enable the dewarping setting. See *4.5 Adjusting the Distorted View* in the user's manual.

■ **Face Enroll:** Enroll faces to a GV face recognition camera from any live views. The settings are similar to those on GV-VMS. See *Enrolling Face Data from Live View / ViewLog*, Chapter 3, *GV-VMS User's Manual*.

■ **Storyline:** Record a sequence of different camera views of a specific incident. On a camera view, select **Storyline** to start recording; to add another camera view, drag the camera view to the recording channel. To view the storyline clip, access **Log** > the **Record** tab.

■ **PTZ:** Only available for PTZ cameras. Enable PTZ functions.

■ **Apply object detection rectangles:** Select to display the detection rectangles to highlight the detected objects.

■ **Add to Bookmark:** Bookmark an image to watch later in the Remote ViewLog player. The function only works when the channel is recording. To search for and **play** back bookmarked videos, select the **Configure** button ⚙ (top right of the main screen) > **Bookmark**.

■ **Advanced Video Attributes:** Adjust the brightness, contrast, saturation and hue of live images.

■ **Location on Host List:** Highlight the camera of the current live view on the Host List.

■ **IMV1 Panomorph:** Dewarp the fisheye view. Note this option is only available for GV-IP Cameras installed with ImmerVision lenses and when the camera resolution is set to 1280 x 1024 or higher.

■ **VR360:** Pan around the 360º image of GV-VR360. Click ⊕ or ⊖ to adjust the speed of the auto pan and click ⊞ to zoom in.

■ **Properties:**
   • **Caption:** Show the channel ID, host name or camera name on the live view.
   • **Keep Image Ratio:** Lock aspect ratio of the camera image.

■ **Close:** Remove the camera from the layout grid.

6	Configure ⚙	■ **Setup:** Access System Configuration and Application Position settings. ■ **Import Data / Export Data:** Export / import preference settings and user account data. The **preference settings** include configurations in Host List, Group List, System Configuration, Live View, Virtual PTZ, GV-Keyboard, E-Map and Video Wall. ■ **Save Configure to Other User:** The Administrator can apply the current configurations to Power User and User accounts, including the live view layout, Privilege Setting, System Configuration, and Application Position. ■ **Bookmark:** Search for and play back bookmarked videos. ■ **GV-Keyboard / Joystick:** See *Appendix B. PTZ Control Using GV-Joystick and/or GV-Keyboard.* ■ **IP Device Utility:** Access <u>GV-IP Device Utility</u>. ■ **License Request Generator:** Access <u>License Activation Tool</u>**.** ■ **Version Information:** Display the version number of GV-Control Center.
7	Snapshot	Take snapshots of all the live views displayed. The images are saved to the default path **C:\Control Center\Snapshot**. To change the storage path, click **Configure** ⚙ (top right of the main screen) > **Setup** > **System Configure** > the **Live View** tab.
8	Close All Videos	Close all the live view channels.
9	Full Screen	Extend the Live View window to full-monitor display.
10	Monitoring Status	Channel color (gray) [ ]: Not monitoring Channel color (green) [ ]: Monitoring but not recording Channel color (red) [ ]: Recording

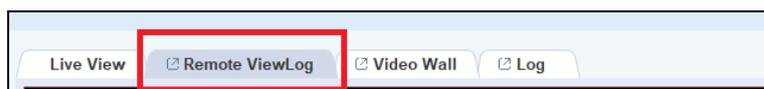For details, see *Chapter 3 Live Video* in the user's manual.

8. Playback

You can remotely play back recordings from the connected hosts in GV-Control Center

There are two ways to play back recordings:

- **Instant Playback:** To play back at a predefined duration, select **Instant Play** on a live view.

- **Remote ViewLog:** To play back from any time period within the host's timeline, use the Remote ViewLog player by selecting the **Remote ViewLog** tab on the main screen.
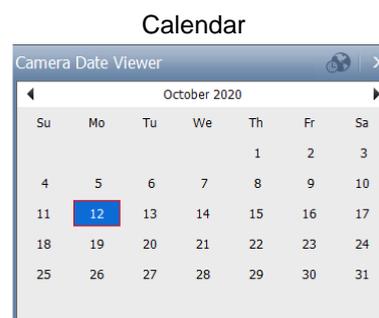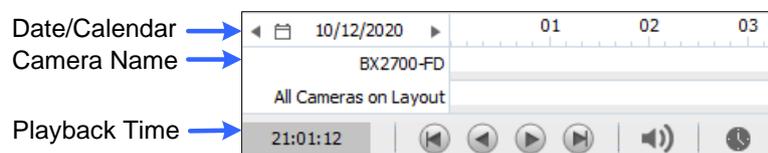
8.1   Starting Playback

1. Select the **Remote ViewLog** tab on the main screen.

2. Right-click a host / camera / group from the Host List or the Group List, and select **Remote ViewLog**. Or just drag and drop your desired camera / group to the Remote ViewLog window.

Tip: To customize the screen division of the Remote ViewLog window, use the Layout list and drag the defined layout to the Remote ViewLog window.

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3. On the timeline, click the arrows or click on the date to select a date with recordings, which are highlighted in blue, from a popup calendar.

Calendar

Date/Calendar
Camera Name
Playback Time

18

4. Click **Play** ▶.

For details, see *Chapter 5 Playback* in the user's manual.