[FAQ]

How do I create time lapse videos using GV-System or GV-IP Camera?

Applied to

GV-System
GV-IP Camera

Question

How do I create time lapse videos using GV-System or GV-IP Camera?

Answer

To create a time lapse video, you need to lengthen the interval between each frame (low frame rate) and then play back the recordings in real-time frame rate. There are three ways to achieve this effect.

- **Method 1:** Set GV-System to record in low frame rate using Economic Mode, and play back with Smooth Playback in ViewLog.

- **Method 2:** Set GV-IP Camera to low frame rate, and play back recorded video with Smooth Playback in ViewLog.

- **Method 3:** Set automatic snapshot function in Object Index, and use third-party video editing software to create time lapse video.

## Method 1: Economic Mode in GV-System + Smooth Playback

First, set the GV-System to record in a low frame rate or to record key frames only using Economic Mode. Next, use the Smooth Playback function in ViewLog to play back the recorded frames in real-time frame rate.

Setting GV-System to record in low frame rate:

1. In the main screen, click the **Configure** button, select **System Configure** and select **Camera Configure**.

2. Select an IP camera under **Camera Name**.

3. Under the **Rec Control** section, click the ▶ button and select **Rec. Frame Rate Setting**.
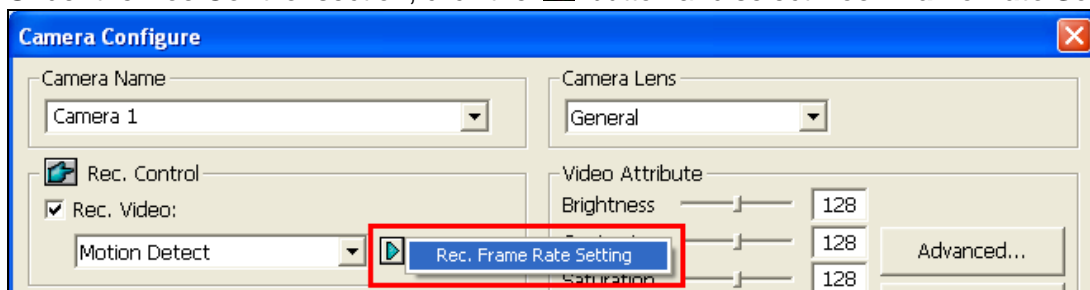
4. Select **Enable Economic Mode**.
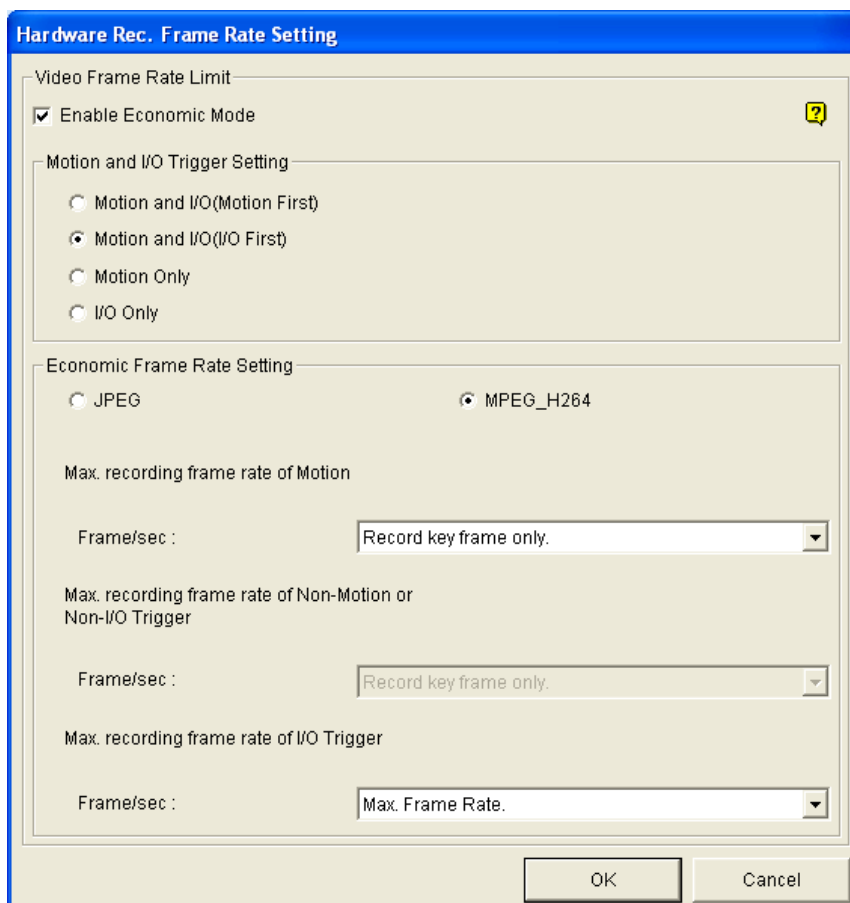
5. Select **JPEG** and set the maximum recording frame rate to a lower frame rate. For example, select **Record 1 FPS** if you only want to record 1 frame per second when recording in JPEG codec.

6. Select **MPEG_H264** and set the maximum recording frame rate to **Record key frame only**.

7. Click **OK** to apply the settings.

Playing Back with Smooth Playback

1. In ViewLog, select the recorded video.

2. Click the [icon] button and select **Smooth Playback**.

When Smooth Playback is enabled, ViewLog will always play 30 frames in each second even if the video was recorded in much lower frame rate. The result is a time lapse video that appears to be fast forwarded.
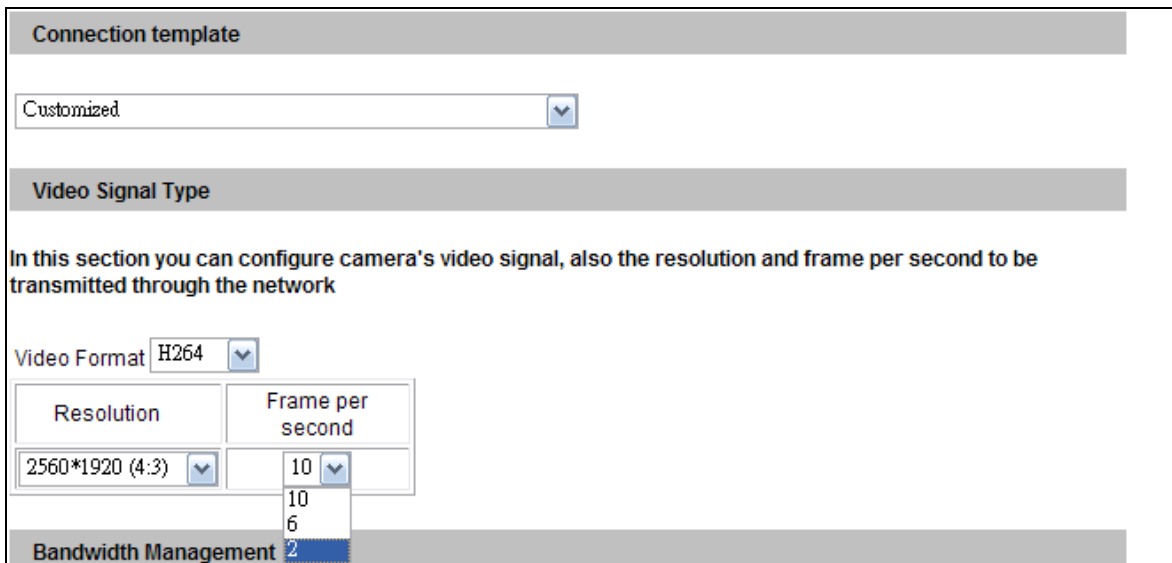
Method 2: GV-IP Camera's Frame Rate Setting + Smooth Playback

From the GV-IP Camera's Web interface, you can lower the camera's frame rate and set the Group of Picture (GOP) Size to reduce the number of key frames. Record the GV-IP Camera using software of your choice, and then play back the video using Smooth Playback in ViewLog or Remote ViewLog.

Setting the GV-IP Camera's Web Interface

1. Log in to the GV-IP Camera's Web interface.

2. In the left menu, select **Video and Motion**, click **Video Settings** and select a stream if needed.

3. Under **Connection Template**, select **Customized**. Otherwise, the frame rate setting will be grayed out.

4. Under **Video Signal Type**, use the **Frame per second** drop-down list to lower the frame rate.
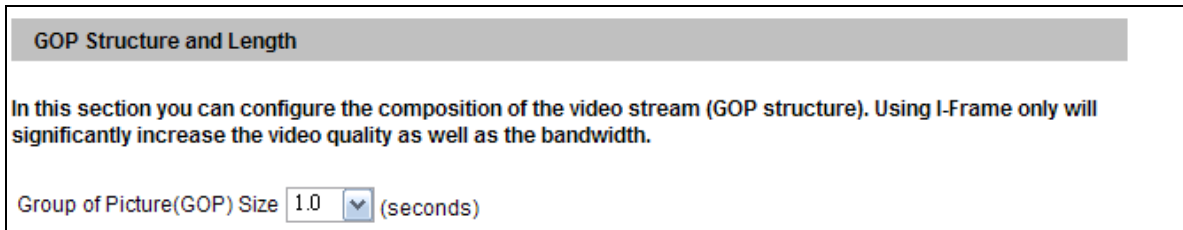
5. To further reduce the recording size, increase the interval between each key frame using the **Group of Picture (GOP) Size** under **GOP Structure and Length**. For example, if you set the GOP size to 5 seconds, only 1 key frame will be recorded every 5 seconds.


6. Click **Apply**.

After you record videos from the GV-IP Camera, use the Smooth Playback function in ViewLog or Remote ViewLog to play back the video. Refer to Method 1 for more details on Smooth Playback.

Method 3: Automatic Snapshots in GV-System + Third-Party Video Editing Software

The Object Index feature in GV-System comes with a Video Snapshot function to automatically take snapshots at the specified time interval. Set the GV-System to take snapshots in JPEG format and then use a third-party video editing software to create the time lapse video.

1. In the main screen, click the **Configure** button, select **Video Analysis** and select **Object Index / Monitor Setup**. The Object Index / Monitor Setup dialog box appears.

2. Select the cameras you want to configure and click the **Configure** button. This dialog box appears.

![GeoVision logo]
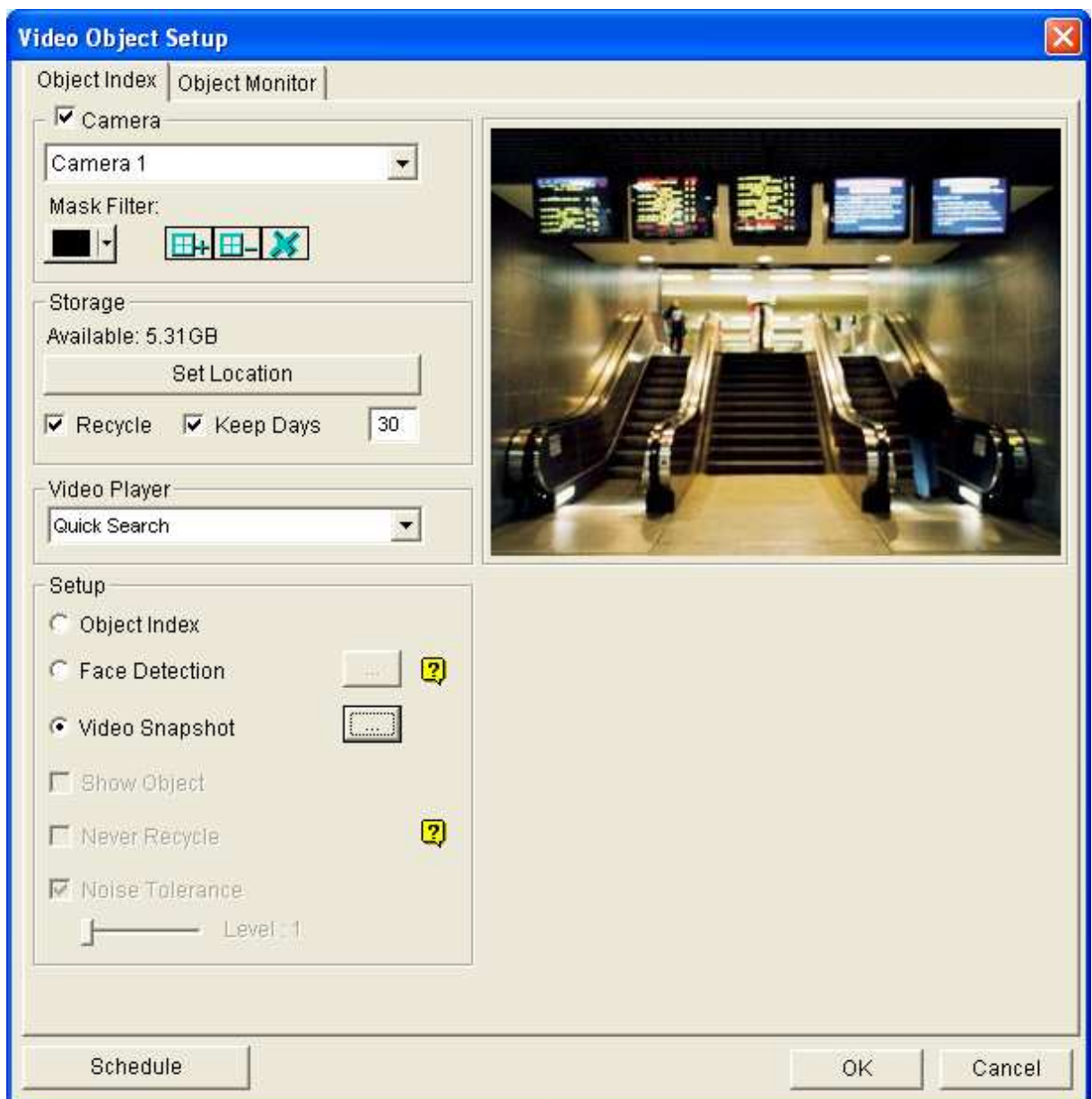
3. Select one camera from the drop-down list and enable **Camera**.

4. Select **Video Snapshot** to enable the function and click the [...] button. This dialog box appears.
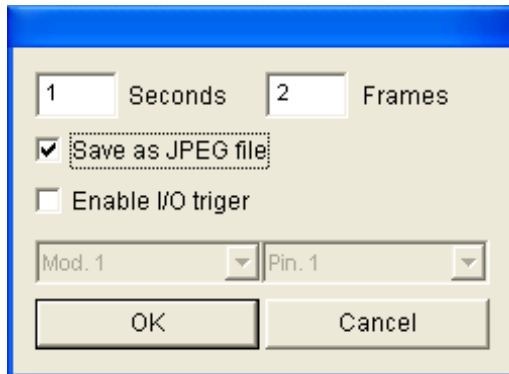
5. Specify the frequency of the automatic video snapshots. For example, the system will take 2 frames per second when the frequency is set to 1 second per 2 frames.

6. Select **Save as JPEG file**.

7. Click **OK** to apply the setting.

8. To activate automatic snapshot function at certain times only, click the **Schedule** button and select **Enable**.

9. Start recording to begin taking snapshots.

You can now use third-party video editing software to create a time lapse video with the JPEG snapshots taken.