Creating Time-Lapse Videos via Camera FTP Snapshot Uploads

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Applied to

GV-G Series / BX2802 / BX4802 / TMEB5800

GV-ABL / ADR / AVD/ TBL / TDR / TVD / EBD / TFD Series

Summary

By utilizing the third-party application **FFmpeg**, you can seamlessly merge a sequence of camera FTP snapshots into a high-quality time-lapse recording.

View a time-lapse video example: https://www.youtube.com/watch?v=Moa5D8fgZ00

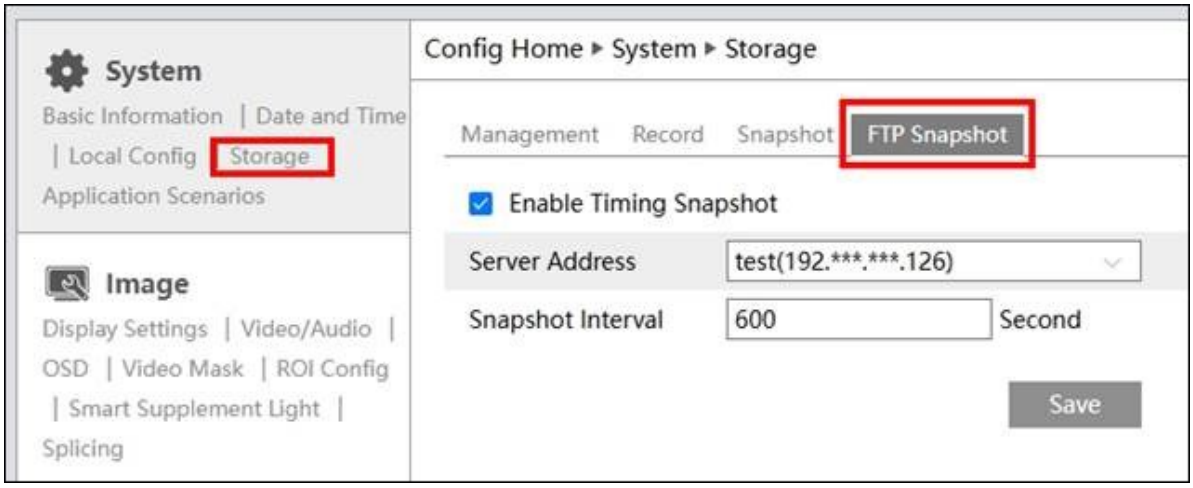
Contents

How to

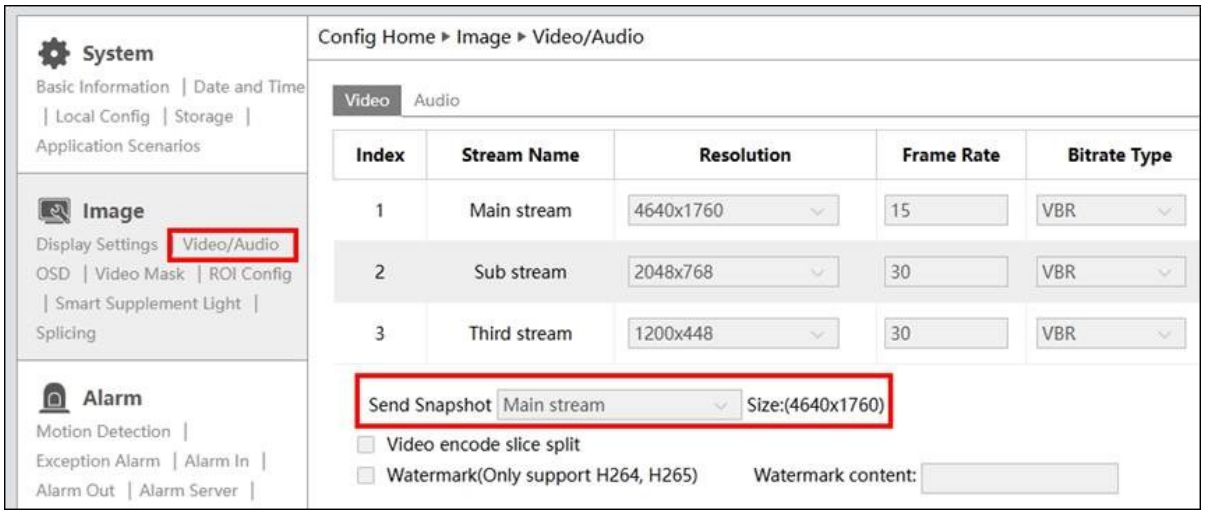
A. Set Up the Camera

For GV-G Series / BX2802 / BX4802 / TMEB5800

1. Configure the FTP server. Refer to *4.6.10 FTP* in the user's manual.
2. Enable the FTP Snapshot function:
   A. Go to **Storage** > **FTP Snapshot**.
   B. Enable **Timing Snapshot**, select your configured FTP server, and set **Snapshot Interval** for snapshot uploads.



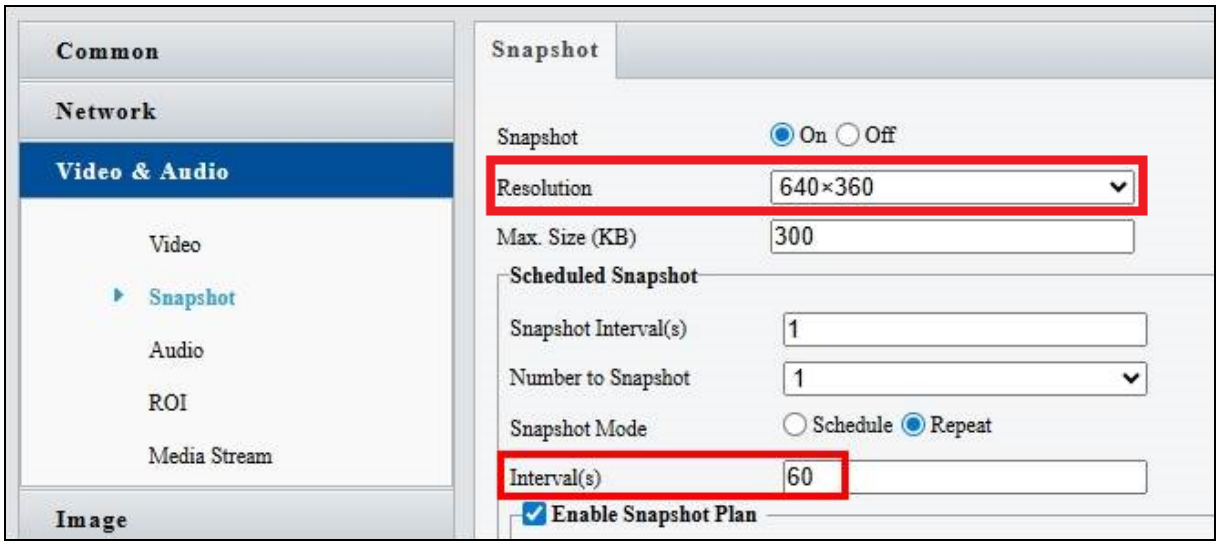
3. Configure snapshot stream. Go to **Video/Audio** and select the desired resolution (main stream or sub stream) for the snapshots.



For GV-ABL / ADR / AVD/ TBL / TDR / TVD / EBD / TFD Series

4. Configure the FTP server. Refer to *3.2.10.1 Server* in the user's manual.
5. Enable the FTP Snapshot function. Go to **Storage** > **FTP** and enable **Upload Images**.

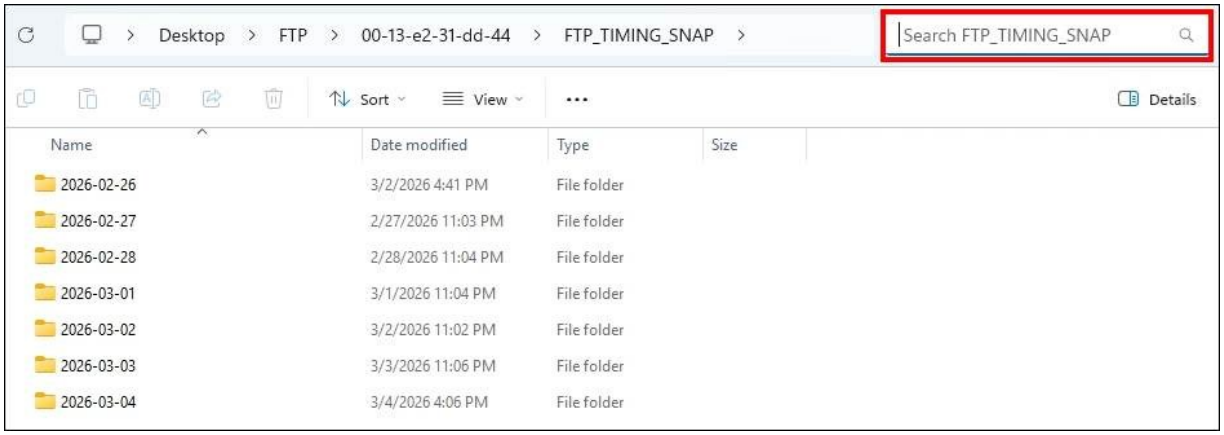
6. Configure snapshot settings. Go to **Video & Audio** > **Snapshot**, enable Snapshot (On), and configure **Resolution** and **Interval** for the snapshot uploads.



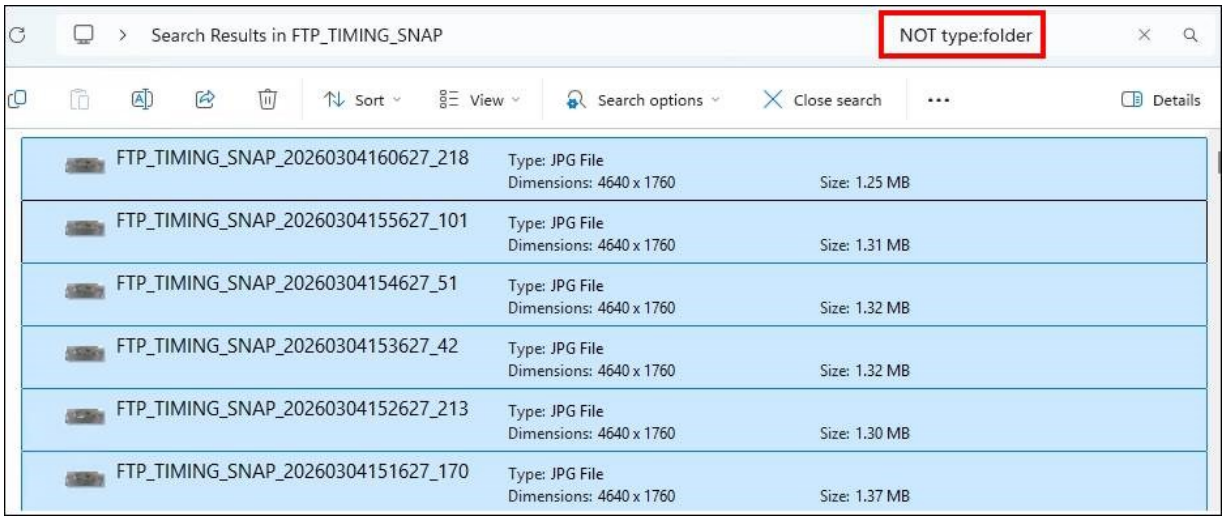
B. Move FTP Snapshots

Once the camera has uploaded the FTP snapshots, move them from the source directory to a dedicated processing folder.

7. In the dedicated FTP folder, navigate to the **FTP_TIMING_SNAP** folder. To filter out subfolders and view only the images, type **NOT type:folder** into the Windows Search bar.

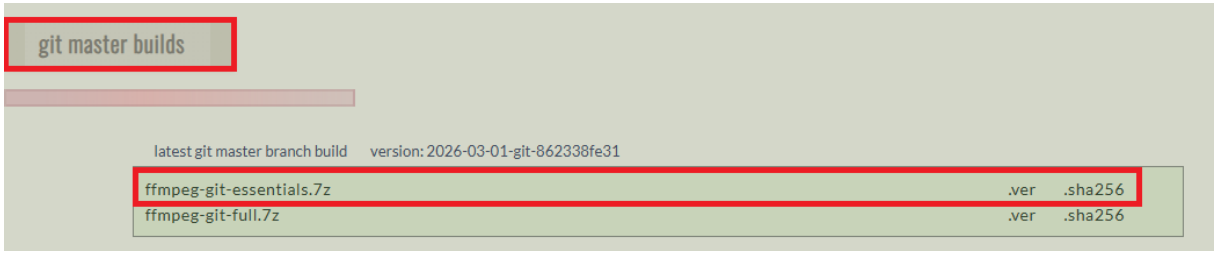


8. Select and copy all the filtered snapshot images, and paste them into a separate folder for video conversion.

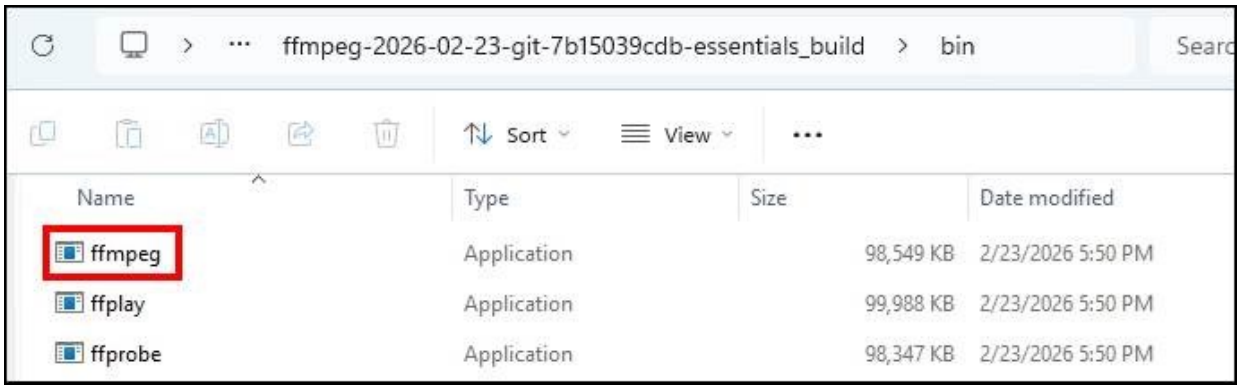


C. Download and Configure the Third-Party Application

9. Visit the **FFmpeg Builds** official website (https://www.gyan.dev/ffmpeg/builds/), and download the **ffmpeg-git-essentials.7z** package.

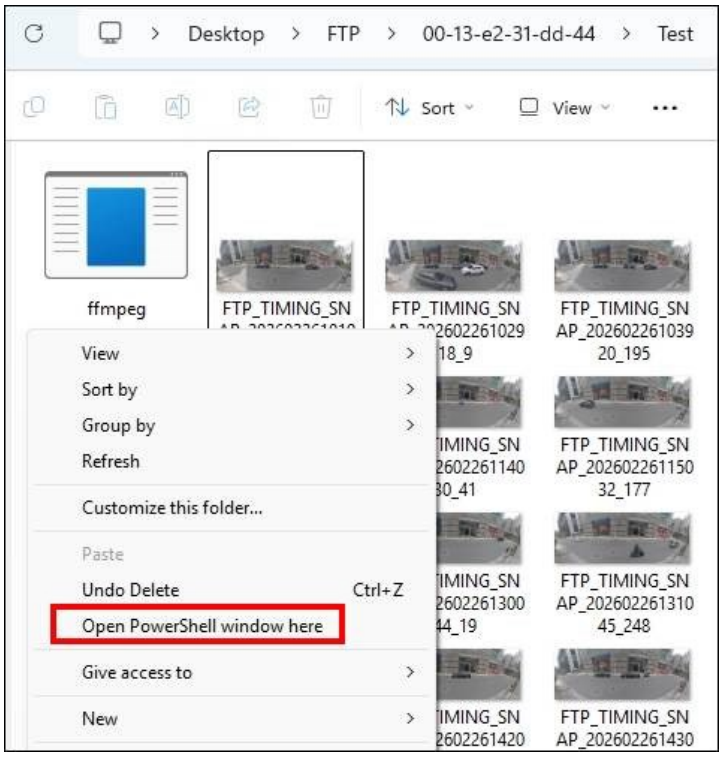


10. Extract and deploy:
    A. Unzip the downloaded .7z file.
    B. Open the **bin** folder within the extracted directory.
    C. Copy the **ffmpeg** application.
    D. Paste the **ffmpeg.exe** into the sperate folder created in Step 8.



D. Convert to Video

11. Click **Shift + right-click** in any empty space within the folder and select **Open PowerShell window here**. A blue PowerShell window opens.



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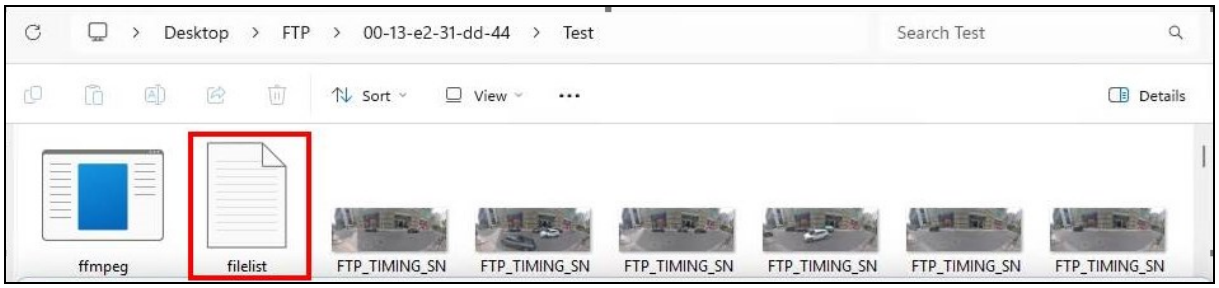
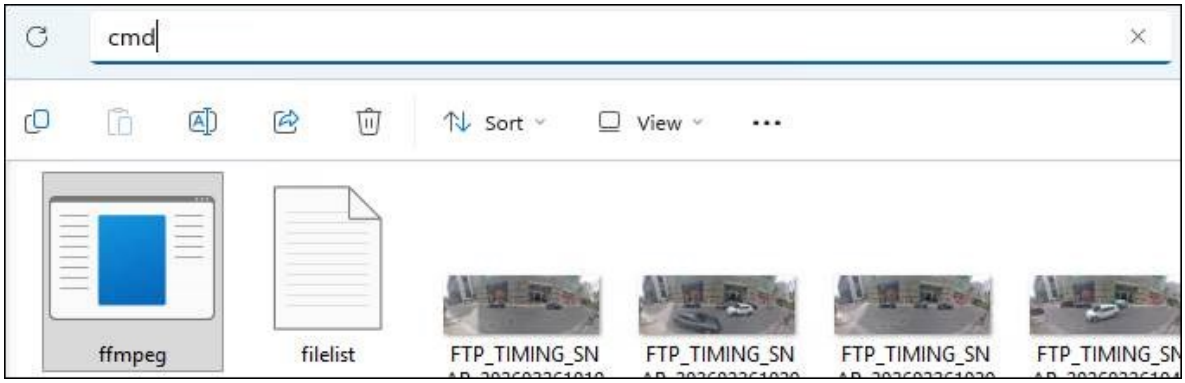
12. Copy and paste the following command to the Windows PowerShell window:

Get-ChildItem -Filter *.jpg | Sort-Object Name | ForEach-Object { "file '$($_.Name)'" } | Out-File -FilePath filelist.txt -Encoding ascii

13. Press **Enter**, and close the Windows PowerShell. A text file named **filelist** is created.



14. In the Windows File Explore Address bar, type **cmd** and press **Enter**.



15. In the Command Prompt window, copy and paste the following command:

ffmpeg -f concat -safe 0 -r 30 -i filelist.txt -c:v libx264 -pix_fmt yuv420p -vf "pad=ceil(iw/2)*2:ceil(ih/2)*2" output.mp4

Note: For successful video creation, all camera snapshots must share the same resolution and codec.

16. Once the conversion is successful, an **output.mp4** file is generated in the folder.