The FFMPEG file converter program converts original file formats to H.264 MP4 or the HAP-encoded MOV format required for large display animations. Displays that are more than 2.5M pixels or wider than 3840 pixels are considered large displays. Daktronics recommends that the original files are in uncompressed AVI or MOV formats.

Using the File Converter

Download the file converter program and copy the file to the C:\ drive on the computer that will be used to convert the files. Follow the steps below:

1. Back up the original uncompressed AVI or uncompressed MOV files to another location before starting the conversion process.

2. Download and install the converter program located **here**.

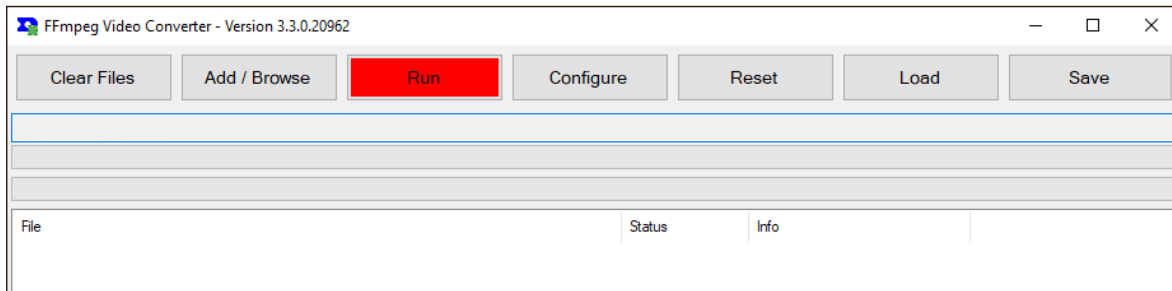3. Open the FFMPEG converter utility. Refer to **Figure 1**.

Figure 1: *File Converter Control Panel*

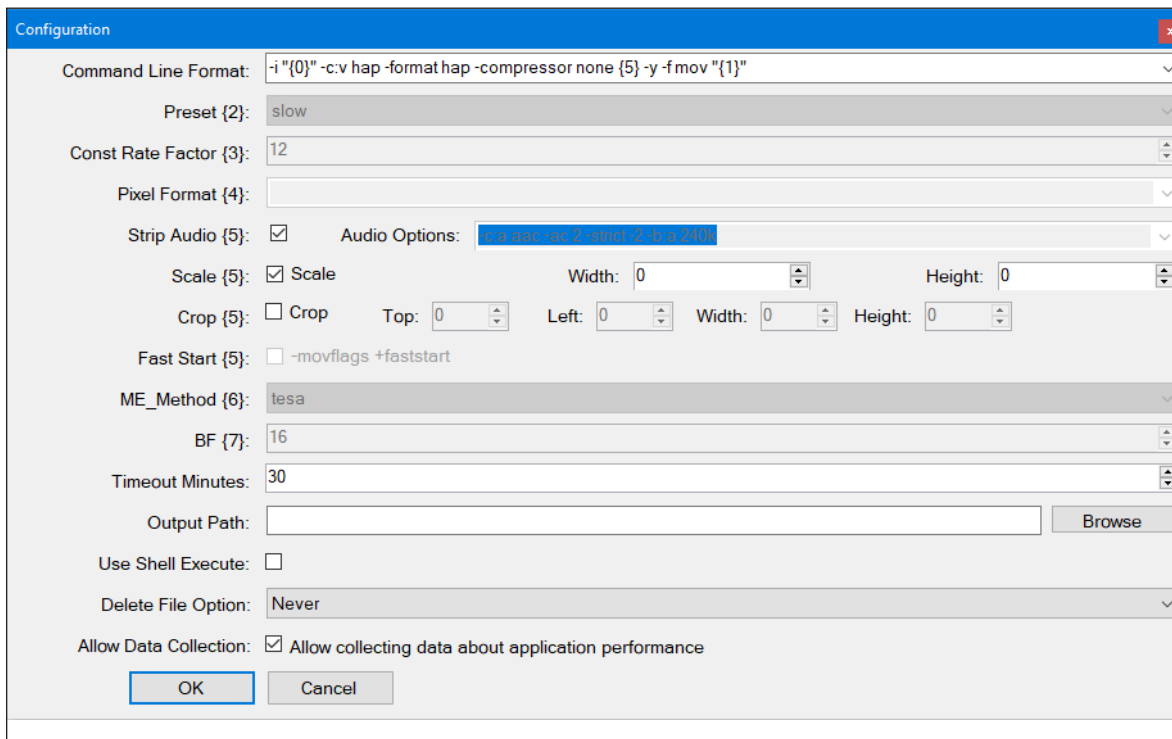4. Click **Configure**. The **Configuration** window opens. Refer to **Figure 2**.

Figure 2: *Configuration Settings*

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5. Select the appropriate **Command Line Format** from the drop-down list. Refer to **Figure 3**.

   - To convert to H.264 MP4 format for medium displays, select the following setting:
     -i "{0}" -c:v libx264 -preset {2} -crf {3} -pix_fmt {4} {5} -me_method {6} -bf {7} -y -f mp4 "{1}"

   - To convert to HAP-encoded MOV format with no alpha channel for large displays, select the following setting:
     -i "{0}" -c:v hap -format hap -compressor none {5} -y -f mov "{1}"

   - To convert to HAP-encoded MOV format with an alpha channel for large displays, select the following setting:
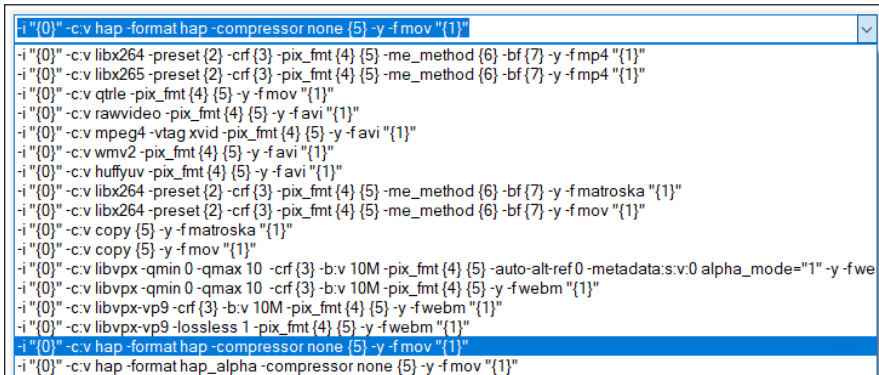   **-i "{0}" -c:v hap -format hap_alpha -compressor none {5} -y -f mov "{1}"**

Figure 3: *Command Line Format Options*

6. Select **argb** from the **Pixel Format** drop-down list if converting to the H.264 MP4 file format and alpha is required.

   > **Note:** This option is not available for the HAP-encoded MOV formats.

7. Clear the **Strip Audio** check box and keep the default option listed in the **Audio Options** field if audio is required.

8. Select the **Scale** check box and enter an even number for the **Width** and **Height** of the source file resolution. If the display width or height is an uneven number, increase the odd number by adding 1. For example, if the uncompressed AVI file has a width of 3840 and a height of 925, the height number must be entered as 926.

   > **Note:** The source file resolution must be divisible by 2 or the conversion will fail.

9. Click **OK**. The control panel opens again. Refer to **Figure 1**.

10. Click **Add/Browse** and select the content file(s) to be converted. More than one file can be selected at one time.

11. Click **Run**. A prompt to delete the original files opens. Refer to **Figure 4**.

12. Click **Yes** to delete the original uncompressed AVI or MOV files from the computer after the conversion only if a backup exists or if a different output path was specified. The files will convert to the new format.
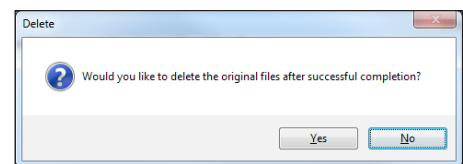

Figure 4: *Delete Original Files Prompt*

13. Verify that the new MP4 or MOV files are saved in the same folder as the original source files.

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