Speed Control Strip

Speed Control time-warps the strip, making it play faster or slower than it normally would. Playing faster means that some frames are skipped, and the strip will run out of frames before the end frame. When the strip runs out of frames to display, it will just keep repeating the last one action that will appear to be frozen. To avoid this, position the next strip under the original at a point where you want the motion to continue.

Options

Speed Control

The method used to adjust the speed of the strip.

Stretch:

Automatically calculates the speed effect based on the length of the input strip. If you scale a strip to 1/2 the original size the sequence will play back at 2 times the speed.

Multiply:

Multiplies the current speed of the sequence by a *Multiply Factor*. Thus a value of 0.5 will make the sequence half as fast while 2 would make the sequence twice as fast. Negative values will reverse the input while also adjusting the speed, so a value of negative two will play it reverse and twice as fast as normal.

Note

You will have to manually re-adjust the length of the strip accordingly.

Frame Number:

Specifies a frame to remap the current frame to, for example, setting the *Frame Number* value to 50 displays the 50th frame. This can ther be manually keyframed to recreate the animation.

Length:

Maps the frame range on a percentage scale. For example, using this and a value of 50% will select the frame halfway through the sequence

Interpolation

Crossfades between frames to reduce screen tearing when the speed is slower than the original frame rate.

Examples

Creating a Slow-Motion Effect

Suppose you want to slow your strip down. You need to affect the speed of the video clip without affecting the overall frame rate. Select the clip and Ac • Effect • Speed Control effect strip.

Choose the *Multiply* option in the Effect Strip panel in the Sidebar. Set the Multiply Factor to be the factor by which you want to adjust the speed. To c the displayed speed by 50%, enter 0.5. Now, a 275-frame clip will play at half speed, and thus display only the first 137 frames.

If you want the remaining frames to show in slow motion after the first set is displayed, double the Length of the source strip (since effects strip bounds a controlled by their source strips). If you are using a speed factor other than 0.5 then use the formula:

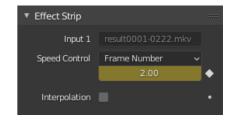
```
new_length = real_length / speed_factor
```

That is it, set your render to animate (in this example) all 550 frames.

Keyframing the Speed Control

To get even finer control over your clip timing, you can use curves! While it is possible to keyframe the Multiply factor, usually you want to keyframe the Frame number directly.

Choose the *Frame Number* option. You now have a Frame number field which you can keyframe. If you want the strip to animate **at all** you will have to insert some keyframes, otherwise it will look like a still. In most cases you will want to use the Graph editor view to set the curve interpolation to Linear since the default Bézier will rarely be what you want.



Tip

If you choose to keyframe the Speed factor instead, remember to Refresh All or the changes will not take effect.

Changing Video Frame Rates

You can use the speed control to change the frame rate in frames per second (fps) of a video. If you are rendering your video to a sequence set, you car effectively increase or decrease the number of individual image files created, by using a Multiply value less than or greater than one, respectively.

For example, if you captured a five-minute video at 30 fps and wanted to transfer that to film, which runs at 24 fps, you would enter a Multiply Factor of 30/24, or 1.25 (and enable *Interpolation* frame blending to create a film blur effect). Instead of producing $5 \times 60 \times 30 = 9000$ frames, Blend would produce $9000 / 1.25 = 7200 = 5 \times 60 \times 24$ frames. In this case, you set a start = 1 and end = 7200, set your Format output jpeg 30fps, and image files 0001.jpg through 7200.jpg would be rendered out, but those images cover the entire 9000 frames. The image 17200.jpg is the same at frame 9000. When you read those images back into your film blend-file at 24 fps, the strip will last exactly 5 minutes.

Previous Transform Strip Copyright ©: This page is licensed under a CC-BY-SA 4.0 Int. License

Made with Furo

Last updated on 2025-05-10

View Source View Translation Report issue on this page Glow St