



Wormhole[®]
By Cinnafilm[®]

PixelStrings[®]

TAKE CONTROL OF YOUR VIDEO RUN TIME

Cinnafilm's Wormhole is a unique media retiming solution for file-based workflows, offering a compelling ROI for broadcasters, content owners, and service providers alike.

Features

- Video, audio, and caption retiming up to $\pm 20\%$.
Picture only: $\pm 50\%$ ramp up/ $\pm 300\%$ ramp down
- Resolution/Frame Rate Support
 - Spatial: PAL, NTSC, 720p, 1080i, 1080p, 2K, 4K
 - Frame Rate: 23.976p, 24p, 25p, 29.97p, 25i, 29.97i, 50p, 60p
- Color: up to 16-bit 4:4:4:4
- Multi-function, single render processing pipeline
- Retime methods
 - Retime based on timecode range
 - Retime segment explicitly
 - Super Slow Motion from 50 field and 59.94 field assets (up to 900%*)
 - Ignore (hold) segment
 - Exclude (remove) segment
 - Automatically "fit-to-fill" segment (to meet the target asset duration)
 - Detect-and-pass "black/silence" slug

Overview

- Adjust run time of file-based assets with no perceivable difference in playback quality
- Process video using Cinnafilm's patented, 6th generation motion-compensated algorithms — no dropped frames, which cause stuttered action and jumping pans and no blended frames to cause unnecessary jitter during playback
- Use global settings or create a segmented cut sheet for precise control
- Skywalker Sound audio processing provides pitch correction and run-length adjustment that maintains sync with speed adjusted video and captions
- Invoke Skywalker Sound audio loudness correction, downmixing, and audio channel remapping at the same time the audio is processed for pitch and length
- Automatic adjustment of closed-captions for the new run length
- Scene-by-scene adjustment and on-the-fly recalculation for total target length
- Automatic black detection