



Tachyon[®]
By Cinnafilm[®]



THE SOLUTION FOR VIDEO CONVERSIONS

Like its faster-than-light namesake, Tachyon does the seemingly impossible and often faster than real time.

We like to call it Frame Mechanics – the art and science of extracting progressive video essences from an interlaced file, and then manipulating those images to what the user needs them to be. We're not just talking video decoding; we're talking about removing patterns like 5:4 ratio telecine that has been broken during editing. Or worse, patterns that have been composited with another image, and the editor didn't even think about matching the cadence or even use telecine material for the composite. Or the nightmare, progressive, interlaced, and telecine all in the same file because it "plays just fine on my broadcast monitor..."

We also like to call ourselves Frame Mechanics – providing a solution that has become the go-to global standard for fixing the unfixable, doing the impossible, rescuing material from an eternity of "it's good enough." Available as a plug-in for on-premises or cloud-based enterprise-grade transcoders and as a service on our PixelStrings platform (www.pixelstrings.com), Tachyon is the solution to fix problems that you may not even know you have.



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Overview

Tachyon was created from the ground up for file-based workflows and has always been Nvidia GPU-based to achieve unparalleled performance. There is not another conversion product created for enterprise-grade transcoders that can match the speed and scalability of Tachyon for performing:

- Motion compensated-based frame rate conversions
- Telecine pattern removal
- Resolution interchange (upscale/downscale)
- Mixed-mode normalization
- Motion blur insertion when converting from higher digital rates to lower filmic rates

Features

- High frame rate (HFR) & motion blur conversions
- Phase correlation-based, motion compensation engine
- Frame Rate Conversion
 - Ability to synthesize new frames to preserve natural motion
 - Format and standards conversions (NTSC, PAL, 525, 625, 2K, 4K, 5K+) (Resolutions limited by encoder)
 - High-quality deinterlacing
- Interlace-aware up/down rescaling
- Inverse telecine
- Broken pulldown cadence detection and correction
- Compositing errors cadence correction
- Multiple telecine pattern insertion
- Output speeds of real-time or faster – with a single GPU