



# Media Transformation Platform

Image · Sound · Text  
However you need it. Wherever you need it.



## The leading solution for:

- Frame Rate Conversion
- Deinterlacing
- Pulldown Reversal
- Cadence Correction
- Motion Blur Synthesis
- Noise Reduction
- Film Grain Management
- Dust Busting
- Resizing / Super Resolution
- SDR ⇌ HDR Conversion
- Run-Length Adjustment
- Caption Retiming
- Synthetic Slow Motion
- Audio Loudness Correction
- Audio Pitch Correction
- Audio Up / Down Mix

**PixelStrings**, from Cinnafilm, is a scalable, enterprise-class Media Transformation Platform. PixelStrings includes a powerful transcoding engine that leverages Cinnafilm's world-class video processing tools along with best-of-breed solutions from industry partners.

For more than 15 years, Cinnafilm tools have been trusted by companies large and small with some of the most valuable content in the media and entertainment world.

PixelStrings is available as licensed software for installation on customer infrastructure, or as a web-based SaaS platform, with a variety of flexible pricing models to meet varying customer needs.

## The Tools



**Tachyon** – The acknowledged Gold Standard for standards conversion. Fully motion-compensated frame rate conversion and deinterlacing. Faultless pulldown removal and cadence correction, even on the most challenging content such as Animé.



**Dark Energy** – Comprehensive noise and grain management and image scaling toolset. Remove unwanted noise whilst preserving fine detail in the image. Superlative upscaling, with resolution-appropriate texture and film grain synthesis.



**Tachyon Wormhole** – Content retiming tools. Imperceptibly adjust the run length of content, including audio, video, and captions. Fully motion-compensated video retiming from Cinnafilm complemented by flawless audio retiming and pitch correction from Skywalker Sound. Create slow-motion video from standard frame rate sources.



**Dark Energy Xenon** – Dark Energy noise reduction combined with Advanced HDR by Technicolor provides the industry's leading solution for SDR to HDR and HDR to SDR conversions. Dynamic, content-aware, Intelligent Tone Mapping technology gives the optimal result for every frame.



**Skywalker Sound Tools** – A range of audio tools developed by the legendary audio engineers at Skywalker Ranch, available exclusively in PixelStrings. Includes options for loudness correction, channel remapping, retiming, pitch correction, downmixing and intelligent upmixing (stereo to 5.1).

## The Solutions

### **PixelStrings Flex**

Customer-supplied infrastructure (physical or virtual) with per-machine, unlimited-use, annual-subscription pricing.

Available via [sales@cinnafilm.com](mailto:sales@cinnafilm.com).

### **PixelStrings Go**

Customer-supplied infrastructure (physical or virtual) with pricing per minute of content processed.

Available via [sales@cinnafilm.com](mailto:sales@cinnafilm.com).

### **PixelStrings Plus**

Cloud SaaS platform with pricing per minute of content processed.

Available at [www.pixelstrings.com](http://www.pixelstrings.com).

## Specifications

- **Containers:** MXF, QuickTime, MP4, MPEG TS/PS, IMF (*PixelStrings Plus, Output Only*)
- **Video Codecs:** ProRes, DNxHD/HR, Mpeg2/XDCAM/IMX, H.264/AVC, DV/DVCPro, Jpeg2000, HEVC (*Output Only*)
- **Audio Codecs:** PCM, AAC, Dolby Digital/AC3
- **Captions/Subtitles:** 608/708 embedded, SCC, DFXP/TTML

### **Minimum Compute Requirements:** (*Flex/Go*)

- Windows 10 Pro 64-bit / Windows Server 2016
- 16 physical cores, 32 GB RAM, 1TB HDD
- Nvidia GPU – Maxwell class or later, >512 Cuda Cores, > 8GByte RAM