

Tachyon Recommended Settings

Target Frame Rate/Mode and Best Conversion Method: 23.976p 24p 25p 29.97p

Source FPS/Mode	23.976 P										24.0 P										25P											
	Motion	Blocksize	Type	Amount	IVT*	Insertion	Special	Amount	Blocksize	Type	Amount	IVT*	Insertion	Special	Amount	Blocksize	Type	Amount	IVT*	Insertion	Special	Amount	Blocksize	Type	Amount	IVT*	Insertion	Special				
23.976 p	Auto	Auto	Auto	Auto	Do Not Use																											
24.0 p	Auto	64	Auto	Auto				Auto	64	Auto	Auto	Auto	Do Not Use				Auto	32	Auto	Auto												
25.0 p	Auto	64	Auto	Auto				Prog Input	Auto	64	Auto	Auto				Prog Input	Auto	Auto	Auto	Auto	Do Not Use											
25.0 i (PSF)	Auto	64	Auto	Auto						Ex High	Auto	Nearest	Small					Auto	Auto	Auto	Auto											
25.0 i	Ex. High	Auto	Nearest	Small																												
29.97 p	Med	32	Nearest	Large				Med	32	Nearest	Large					Medium	128	Nearest	Large													
29.97 i via Telecine*					Do Not Use			PPF**	Auto	Auto	Auto	Auto	✓			PPF**	Auto	32	Auto	Auto	✓										PPF**	
29.97 i	Ex. High	Auto	Nearest	Small						Ex. High	Auto	Nearest	Small					Ex. High	Auto	Nearest	Small											
30.0 p	Med	32	Nearest	Large				Med	32	Nearest	Large					Medium	128	Nearest	Large													
30.0 i	Ex. High	Auto	Nearest	Small						Ex. High	Auto	Nearest	Small					Ex. High	Auto	Nearest	Small											
48.0 p	Auto	Auto	Auto	Auto				Auto	Auto	Auto	Auto	Auto				Auto	Auto	Auto	Auto													
50.0 p	Ex. High	Auto	Nearest	Small						Ex. High	Auto	Nearest	Small					Ex. High	Auto	Nearest	Small											
59.94 p	Ex. High	Auto	Nearest	Small						Ex. High	Auto	Nearest	Small					Ex. High	Auto	Nearest	Small											

* IVT is required to remove Telecine. Includes video with: 1) Broken cadence 2) PSF + Repeated 4th frame pulldown pattern (Progressive frames with metadata stating 29.97i, where every 4th frame is repeated)

** Use PPF when telecine pattern exhibits compositing or if there is progressive overlay on top of telecine.

Special Settings

Progressive Input Requires metadata override set to progressive input. When video metadata shows interlaced, but the images are clearly progressive (aka Progressive Segmented Frames - PSF), this will be needed.

Lower Input Requires metadata override set to interlaced lower field first.

Upper Input Requires metadata override set to interlaced upper field first.

PPF

Enable Post Pulldown Filter if footage has compositing where telecine patterns don't match or if there are overlays different than video

Clean conversion. No artifacts during playback or while stepping through.

Chance for very slight artifacts. Example: Very slight judder on very fast credits.

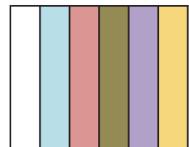
Chance for slight, inconsequential artifacts. Example: Slight warping in the direction of motion on high motion objects for one frame every few seconds - not detectable at playback speed, only visible if stepping through frame by frame.

Chance for moderate artifacts. Example: Field is repeated one too many times resulting in frame ladder using Field-based methods. Basketball might stretch and become oval-ish using Motion Estimation - hard to see at playback.

Chance for heavy artifacts. Example: Visible ghosting or doubling of progressive images or interlaced images as seen on a broadcast monitor.

As of August 2013, settings had not been optimized

KEY



teles**stream**

Specifications subject to change without notice. Copyright © 2014 Telestream, Inc. Telestream, Vantage, and FlipFactor are registered trademarks and Pipeline is a trademark of Telestream, Inc. All other trademarks are property of their respective owners. January 2014

Tachyon Recommended Settings

Target Frame Rate/Mode and Best Conversion Method: 30p 48p 50p 59.94p

30 P												48 P												50 P											
Source FPS/Mode	Amount	Blocksize	Motion	Amount	Fallback	Type	Insertion	Special	Amount	Motion	Amount	Fallback	Type	Insertion	Special	Amount	Motion	Amount	Fallback	Type	Amount	Motion	Amount	Blocksize	Motion	Amount	IVT*	Insertion	Special						
23.976 p	Medium	32	Nearest	Large					4.4	High	32	Nearest	Med			Auto	32	Auto	Auto																
24.0 p	Medium	32	Nearest	Large					4.4	High	32	Nearest	Med			Auto	32	Auto	Auto																
25.0 p	Auto	32	Auto																																
25.0 i (PSF)	Auto	32	Auto																																
25.0 i	Ex High	Auto	Nearest	Small																															
29.97 p	Auto	Auto	Auto																																
29.97 via Telecine*	Medium	32	Nearest	Large	✓																														
29.97 i	Ex High	Auto	Nearest	Small																															
30.0 p	Auto	Auto	Auto																																
30.0 i	Auto	Auto	Auto																																
48.0 p	Auto	Auto	Auto																																
50.0 p	Ex High	Auto	Nearest	Small																															
59.94 p	Ex High	Auto	Nearest	Small																															

* IVT is required to remove Telecine. Includes video with: 1) Broken cadence 2) PSF + Repeated 4th frame pulldown pattern (Progressive frames with metadata stating 29.97i, where every 4th frame is repeated)

** Use PPF when telecine pattern exhibits compositing or if there is progressive overlay on top of telecine.

Special Settings

Progressive Input Requires metadata override set to progressive input. When video metadata shows interlaced, but the images are clearly progressive (aka Progressive Segmented Frames - PSF), this will be needed.

Lower Input Requires metadata override set to interlaced lower field first

Upper Input Requires metadata override set to interlaced upper field first

PPF Enable Post Pulldown Filter if footage has compositing where telecine patterns don't match or if there are overlays different than video

Clean conversion. No artifacts during playback or while stepping through.

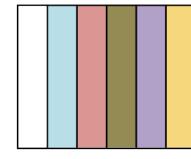
Chance for very slight artifacts. Example: Very slight judder on very fast credits.

Chance for slight, inconsequential artifacts. Example: Slight warping in the direction of motion on high motion objects for one frame every few seconds - not detectable at playback speed, only visible if stepping through frame by frame.

Chance for moderate artifacts. Example: Field-based artifacts. Basketball might stretch and become oval-ish using Motion Estimation - hard to see at playback.

Chance for heavy artifacts. Example: Visible ghosting or doubling of progressive images or interlaced images as seen on a broadcast monitor.

As of August 2013, settings had not been optimized



Tachyon Recommended Settings

Output Frame Rates: 25i 29.97i 30i

Source FPS/Mode	25i						29.97i						30i					
	Motion Based Conversion			Field Based Conversion			Motion Based Conversion			Field Based Conversion			Motion Based Conversion			Field Based Conversion		
	Motion	Blocksize	Type	Amount	IVT*	Special	Insertion	IVT*	Special	Motion	Blocksize	Type	Amount	IVT*	Special	Insertion	IVT*	Special
23.976 p	High	32	Nearest	Medium			Adaptive			Do Not Use			2.3			Do Not Use		2.3
24.0 p	High	32	Nearest	Medium			Euro			Do Not Use			2.3			Do Not Use		2.3
25p			Do Not Use				2.2			Auto	Auto	Auto	Auto			Adaptive		Adaptive
25.0 i (PSF)			Do Not Use							Auto	Auto	Auto	Auto			Prog Input		Prog Input
25.0 i	Auto	Auto	Auto	Auto	✓	PPF*	Adaptive	✓	PPF**	Do Not Use			2.2			Ex High	Auto	Small
29.97 i via Telecine*	High	32	Nearest	Medium	✓		Adaptive			Do Not Use			2.3	✓		PPF**	Auto	Auto
29.97 i	Ex High	Auto	Nearest	Small			Adaptive			Do Not Use			2.3			Do Not Use	Auto	Auto
30.0 p	Auto	Auto	Auto	Auto			Adaptive			Auto	Auto	Auto	Auto			Adaptive		Do Not Use
30.0 i	Ex High	Auto	Nearest	Small			Adaptive			Auto	Auto	Auto	Auto			Adaptive		Do Not Use
48.0 p	Auto	Auto	Auto	Auto			Adaptive			Auto	Auto	Auto	Auto			Adaptive		Do Not Use
50.0 p	Auto	Auto	Auto	Auto			Do Not Use			Ex High	Auto	Nearest	Small			Adaptive		Do Not Use
59.94 p	Ex High	Auto	Nearest	Small			Adaptive			Auto	Auto	Auto	Auto			Ex High	Auto	Small

* IVT is required to remove Telecine. Includes video with: 1) Broken cadence 2) PSF + Repeated 4th frame pulldown pattern (Progressive frames with metadata stating 29.97i, where every 4th frame is repeated)

** Use PPF when telecine pattern exhibits compositing or if there is progressive overlay on top of telecine.

Special Settings

Progressive Input | Requires metadata override set to progressive input. When video metadata shows interlaced, but the images are clearly progressive (aka Progressive Segmented Frames - PSF), this will be needed.

Lower Input | Requires metadata override set to interlaced lower field first

Upper Input | Requires metadata override set to interlaced upper field first

PPF | Enable Post Pulldown Filler if footage has compositing where telecine patterns don't match or if there are overlays different than video

Clean conversion. No artifacts during playback or while stepping through.

Chance for very slight artifacts. Example: Very slight judder on very fast credits.

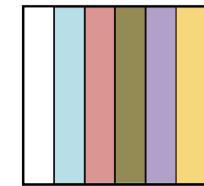
Chance for slight, inconsequential artifacts. Example: Slight warping in the direction of motion on high motion objects for one frame every few seconds - not detectable at playback speed, only visible if stepping through frame by frame.

Chance for moderate artifacts. Example: Field is repeated one too many times resulting in frame judder using Field-based methods. Basketball might stretch and become oval-ish using Motion Estimation - hard to see at playback.

Chance for heavy artifacts. Example: Visible ghosting or doubling of progressive images or interlaced images as seen on a broadcast monitor.

As of August, 2013, settings had not been optimized

KEY



telesstream

Specifications subject to change without notice. Copyright © 2014 Telestream, Inc.
Telestream, Vantage, and FlipFactor are registered trademarks and Pipeline is a trademark of Telestream, Inc. All other trademarks are property of their respective owners. January 2014