

# Production Recoding Rates for Post Production

## Picture, Sound, and Project Type

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### Overview

As BWF field recorders are being used more and more in production for both film and video, the user needs to be extra careful as to the sample rate and speed of the recording devices while in the field as well as the version of the Avid editing application being used in post production.

Importing audio files does not offer the usual workarounds associated with analog or digital audio from tape sources when working at different frame rates and the frame rate of the project type used in post.

Only the sample rate determines the playback rate of the audio dependent on the frame rate and sample rate of the Media Composer project type. The audio frame rate and timecode are used to calculate the timecode from the BEXT during the import process.

The table below shows all formats for picture and sound that will not initiate a sample rate conversion nor drift during the importing stage into the Avid Media Composer:

| Picture Frame Rate | Audio Frame Rate | Timecode | Sample Rate Record | Sample Rate Stamp | Avid Project Type |
|--------------------|------------------|----------|--------------------|-------------------|-------------------|
| 23.976             | 29.97            | DROP     | 48000              | 48000             | 23.976p           |
| 23.976             | 29.97            | NON DROP | 48000              | 48000             | 23.976p           |
| 23.976             | 29.97            | DROP     | 47952              | 48000             | 24p               |
| 23.976             | 29.97            | NON DROP | 47952              | 48000             | 24p               |
| 23.976             | 29.97            | DROP     | 48000              | 48000             | 30i (29.97)       |
| 23.976             | 29.97            | NON DROP | 48000              | 48000             | 30i (29.97)       |
| 29.97              | 29.97            | NON DROP | 48000              | 48000             | 30i (29.97)       |
| 29.97              | 29.97            | DROP     | 48000              | 48000             | 30i (29.97)       |
| 24*                | 30               | NON DROP | 48000              | 48000             | 24p               |
| 24*                | 30               | DROP     | 48000              | 48000             | 24p               |
| 24*                | 30               | NON DROP | 48048              | 48048             | 23.976p           |
| 24*                | 30               | NON DROP | 48048              | 48000             | 30i               |
| 24                 | 25               | N/A      | 48000              | 48000             | 24p M2            |
| 25                 | 25               | N/A      | 48000              | 48000             | 25p               |
| 25                 | 25               | N/A      | 48000              | 48000             | 25i               |

\* Assumes a 23.976 down convert or film transfer to NTSC or 1080p/23.976