

Resampling an audio file

You can use this utility to alter the sampling rate of the digital recording. Since all CD players "read" audio signals with a 44.1 kHz speed you have to convert all audio files to this standard rate prior to putting it on a CD. The other standard output rates are, among others, 48 kHz (the rate used in a DAT equipment) and 32 kHz (the radio frequency). The procedure for sample rate conversion implemented in DART Resample has two important features:

- It provides truly professional resampling quality and, at the same time, is extremely fast (we bet you will not find a faster one of comparable quality elsewhere)
- It is not constrained to standard sampling rates, i.e., it can be used to convert *any* input rate in the [5kHz, 100kHz] range to *any* output rate in the same range

When the output/input resampling ratio r is greater than one (upsampling) the output audio file is r times longer than the input one. If r is smaller than one (downsampling) the output file is r times shorter than the input file. For obvious reasons downsampling is faster than upsampling (think of the number of input/output operations in each case).

When downsampling is performed the bandwidth of the signal is reduced accordingly, that is, some high-frequency signal components are removed. This means that downsampling an audio signal r times and then upsampling it r times will not restore the original recording (downsampling is not a reversible operation). Since bandwidth reduction may result in audible sound distortions you should use this tool with caution.

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DART **Resample** provides you with one of the best resampling algorithms on the industry. **Resample** is one of numerous functions found in DART PRO 32 (DeClick, DeHiss, DeNoise, ReTouch, Spectral analysis, Filter Builder). DART PRO 32 is the best audio restoration system in the business and it works on both instrumental and voice recordings. You can upgrade to DART PRO 32 which includes the best and most complete audio restoration functions in the business, a complete audio editing and signal processing system, graphics interfaces, CD-R playlist organizer and writer, and a multimedia audio restoration tutorial. You can call us toll-free at 800-799-1692 or 612-844-0217. A special upgrade price is available to all DART customers.

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