

# Converting audio files to a CD format

You can use this utility to convert any audio wave file to a CD (compact disk) format - 44.1 kHz, 16 bits/sample, stereo.

If the original audio file is mono it's conversion to a pseudo-stereo recording can be done in three different ways:

- By duplicating the available mono track (set phase inversion to *none* ).
- By duplicating and reversing phase of the left channel (set phase inversion to *left channel* ).
- By duplicating and reversing phase of the right channel (set phase inversion to *right channel* ).

If the input file is stereo the settings specified above are ignored.

The bandwidth of many old recordings is limited to 10 kHz which means they can be "safely" sampled at the rate of 22 kHz. In cases like this consider recording and restoring the audio signal at a lower rate of 22 kHz prior to upsampling it to a CD rate of 44 kHz. There are at least two advantages of doing this:

1. Declicking is usually more effective at low sampling rates - at high rates clicks are less sharp and hence more difficult to detect and isolate. The same, to some extent, concerns denoising - since noise dominates the high-frequency portion of the signal spectrum, fast sampling decreases the overall signal-to-noise (SNR) ratio which makes the restoration task more difficult.
2. Since resampling is less time consuming than declicking or denoising (dehissing) the "restore at lower rate and upsample" scheme works considerably faster than the "restore at higher rate" scheme.

## Upgrade to DART PRO 32

DART **CD format** provides you with one of the best resampling algorithms on the industry. **CD format** 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.

Need more info? Check out our web page, <http://www.dartpro.com>

Copyright © 1998 ZH Computer. All rights reserved.

