

Easy CD Creator

Adjusting Audio Extraction Settings to solve poor audio quality

These settings are available in the Easy CD Creator version 3.01 and later. To obtain the latest version, please go to the Adaptec site at www.adaptec.com. If you need to update firmware on the drive, please go to www.ricohcpg.com.

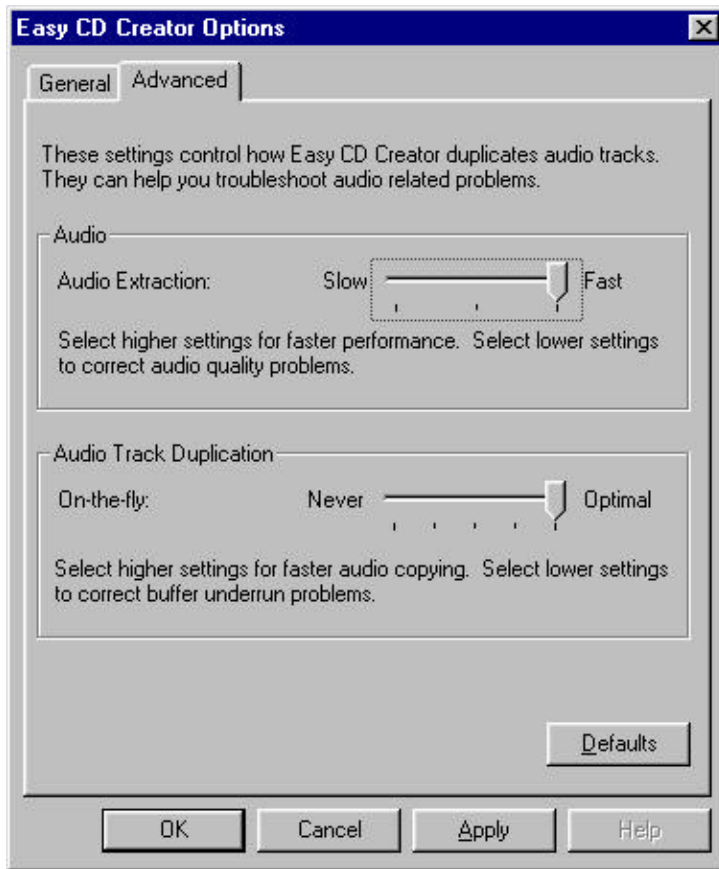
What is Audio Resyncing?

When you run the Audio Extraction System Test (Tools | System Tests) on your CD-ROM drive, Easy CD Creator determines the top speed at which the drive can perform digital audio extraction, and by default it will read from the drive at the speed whenever you copy audio tracks to the hard disk or CD.

However, many CD-ROM drives do not perform digital audio extraction cleanly, resulting in audible pop, clicks and skips in the copied tracks (if you are extracting to the hard disk, these will be audible in the Wave files on the hard disk as well). Easy CD Creator 3.01 introduces a new feature, audio resyncing, which ensures that audio tracks can be copied cleanly from any CD-ROM drive which supports digital audio extraction.

Note that resyncing can slow down the digital audio extraction. Even if your CD-ROM drive reads data at 24x, getting a clean audio read with resyncing may cause audio extraction speed to drop significantly. With some CD-ROM drives, it will no longer be possible to write directly from disc-to-disc. In this case, your audio tracks will be copied to the hard drive first and then written to the CD.

A new dialog box allows you to make settings for digital audio extraction to get the best possible results from your CD-ROM drive. This new tab is located in Tools | Options | Advanced:



The Audio Extraction slider has three settings, from left to right:

Slow: Always do audio resyncing to ensure that the extracted audio is clean

Medium: Do audio resyncing on drives which appear to need it. CD recorders and a few CD-ROM drives do not need resyncing, so if this setting is chosen, resyncing will be performed for all other drives

Fast: Do audio extraction at the top-rated digital audio extraction speed for the drive.

The default setting is Fast. If you are not satisfied with the sound of your tracks using the Fast setting, try using Slow instead.

When copying data or audio from an original CD, it is usually possible to write directly from disc to disc. However, if the source CD-ROM drive you are copying from is not able to keep up with the speed at which your CD Recorder is writing, a buffer underrun may occur. If this happens, you can use the Audio Track Duplication slider to set a threshold speed, below which your tracks will be first copied to the hard disk and then written to the CD from the hard disk copies, rather than written “on-the-fly” from CD to CD.

Note that copying to the hard disk first will require an amount of free hard disk space as large as the size of the longest track you will be copying. Audio tracks require approximately 10 megabytes of storage space per minute of audio.

The Audio Track Duplication slider has five settings, from left to right:

1. Never write on-the-fly. Always buffer tracks to the hard drive first.
2. If 25% of extraction speed \geq write speed, then write on-the-fly.
3. If 50% of extraction speed \geq write speed, then write on-the-fly.
4. If 75% of extraction speed \geq write speed, then write on-the-fly.
5. If 100% of extraction speed \geq write speed, then write on-the-fly.

The default setting is #5 for Easy CD Creator. These settings also affect CD Copier Deluxe.

Extracting audio at 1x speed = reading of 172 kilobytes/seconds