



Reference manual

**Anodyne Software**

## **SIXTH EDITION**

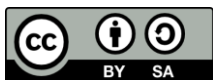
January 2018

This manual applies to version 4.1 of CDwriter. Original version made 100% on Atari with Papyrus and ImageCopy.

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## **CDwriter DEVELOPERS**

Claude Labelle and Roger Burrows

## ***Acknowledgements***

Many thanks to M. Jacques Delavoix for writing the Windform3 library, which greatly simplified development of the user interface.

Special thanks to all our beta testers, for their patience and persistence.

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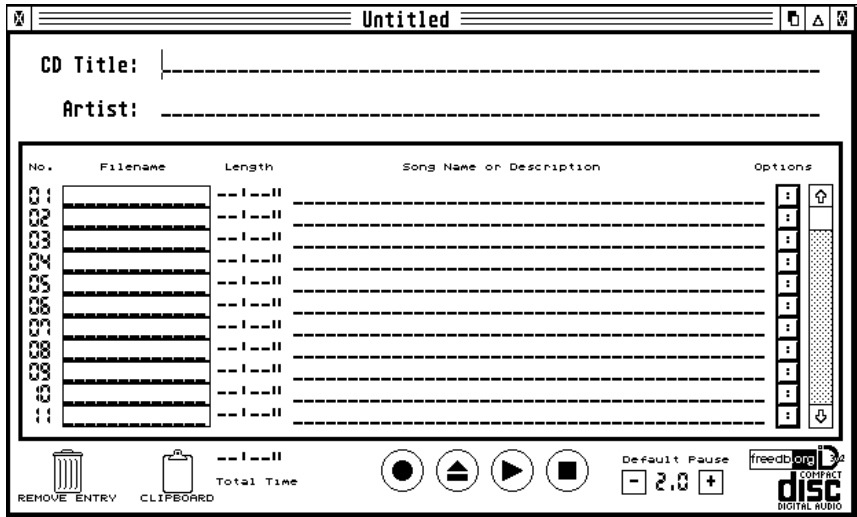
## **Requirements**

What you need:

- ☞ Atari ST/STe, MegaST/STe, Falcon030, TT030 or faster Atari-compatible. Supported Operating Systems: TOS 1.4 and above, MagiC, MiNT and Geneva. Memory required: 1 MB or more.
- ☞ ExtenDOS 4 (DVD/CD driver software by Anodyne Software).
- ☞ a compatible CD recording device (please refer to the ExtenDOS 4 documentation for a list of currently supported CD Recorders and how to connect them to your computer).
- ☞ blank discs (CD-Recordable) suitable for your recording device (DVDs cannot be used). You can also use CD-RW (CD-ReWriteable) discs with CD-RW recorders. However, note that older models of CD players may not be able to play CD-RW discs; for maximum compatibility, use CD-Rs. In the remainder of this manual, we use "CD-R(W)" to mean either a CD-R or a CD-RW disc.
- ☞ a storage device for your source audio files (hard disk drive, removable drives, or CD-ROM drive). CDwriter is very flexible, for example you can store your audio files on different ZIP or JAZ cartridges, or use audio CDs in a CD-ROM drive. You can count on about 10MB per minute of recording, so 740 MB or more of total space are required to fill a 74-minute CD-R(W). You can do with less if you do not want to fill entire CD-R(W)s. The CD-R(W) must be written in a single pass to create an audio CD.
- ☞ audio files or CD tracks. These are the files that you want to write on a CD-R(W). They must be of AVR, WAV, MP3 or AIF formats, recorded at the sample rate of 44.1 kHz, 16-bit stereo (the CD-audio standard), or be CD tracks from an audio CD.

# Overview

On startup, CDwriter automatically opens a new Compilation window, as shown below:



This window is used to build a compilation of audio files, before they are written to the disc. If you want to add multiple files, you can save time by using the **QuickCreate** item from the **File** menu to add all the valid audio files found in one or more locations of your choice. See the *QuickCreate* section in this manual for more details.

You can save, open, edit and print your compilations. You can change the pause lengths, and listen to the files (using Aniplayer, see screenshot above), before they are written. See the *Compilation window* section to explore its features.

Once you are satisfied with your compilation and wish to create an audio CD from it, choose the **Write...** option from the **CD** menu or click the Record button. This will open the Write dialog box; see the *Write dialog box* section for more information.



You can set and save various preferences. Choose the **General...** item from the **Options** menu. See the *General Options* section for instructions.

You can specify which of your disk drives are removable, which should use a buffer drive, and which one is the temporary drive. Choose the **Source Drives...** item from the **Options** menu. This will open the Source drives window. See the *Source drives* section for instructions.

## **QuickCreate**

The quickest way to create a new audio CD is to use the QuickCreate option of CDwriter. This option takes all the valid audio files in one or more locations (folders) that you choose, and creates a compilation from them. Follow these steps:

1. Under the **File** menu, choose the **QuickCreate** item.
2. Click the **Continue** button in the instructions dialog box.
3. A file selector will appear. Choose the location of the audio files you want to add (folder, root of a partition, CD-ROM drive, etc.).
4. QuickCreate will add to the compilation all the valid files found, in the order that they were created.
5. If no valid files are found, you will get an error message. Make sure that you chose the right location and that the audio files in it are in the right format.
6. If one or more valid files are found, you will be prompted for more files. You can add files that are on another partition, for example, or if you own a removable drive, it is perfectly valid to insert a new cartridge, and add files from it. Or if you own a CD-ROM drive, you can insert a new CD and add its tracks.
7. When you are done adding files, you will be asked if you want to work on the compilation or write the CD. If you choose to work on the compilation, refer to the *Compilation*

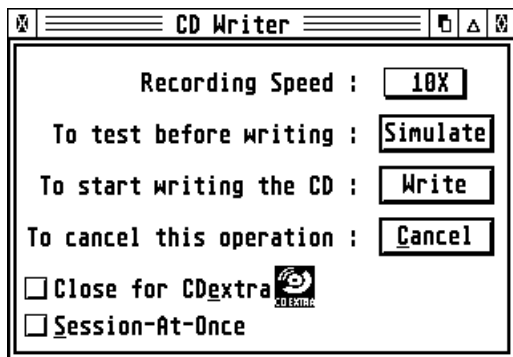
*window* section in this manual for its features. If you choose to write the CD, refer to the *Write dialog box* section below.

## **Write dialog box**

The Write dialog box is opened from QuickCreate by choosing the option to write the CD; from the Record button in the Compilation window; or from the **CD** menu by choosing the **Write...** item.

Insert a blank CD-R(W) disc in the CD Recorder.

CDwriter verifies that there is enough space on the CD-R(W) before starting to write. You'll get an error message if there is insufficient space.



If your compilation contains one or more MP3 files, CDwriter will use Aniplayer (version 2.12 or higher) to convert them, one by one, to temporary WAV files; the temporary files are then used to create normal audio tracks on the CD-R(W). This means that you don't need to lower your writing speed when your compilation contains MP3s. It also means that you must have enough space on your temporary drive to contain the largest uncompressed MP3. CDwriter automatically checks this before writing, so that you don't need to manually calculate it. To set your temporary drive, see the *Source drives* section in this manual.

## ***Speed***

Select the desired speed. The speeds displayed are adjusted according to the type of CD-R(W) inserted. The controls will be dimmed if no CD-R(W) is inserted, or if the disc inserted is not supported (for example, if you insert a DVD).

If you've never created a CD with CDwriter, or if you have changed your hardware setup, you will need to experiment to find the maximum speed at which you can record. A good way to find out is to select the fastest speed of your CD Recorder first. If Burnproof is available, turn it off (see the *General Options* dialog). Then try simulating. If it fails, select the next fastest speed, and so on. Once you have established your optimum speed, turn Burnproof back on if available. If simulating at the slowest speed fails, your optimum speed is the slowest speed and Burnproof must be used.

Writing at 6x to a SCSI recorder and 10x to an IDE recorder is possible on a Falcon with Centurbo II. A fast IDE hard disk drive is required, and the file format must be the preferred format of the recorder (normally WAV). The hard disk driver must be set at its fastest setting for the IDE hard disk drive.

## ***Close for CDextra***

Check this box if you plan to add a data session to your CD-R(W) using CD InScriptOr. See the section *How to create a CDextra disc* in this manual for more details.

## ***Session-at-once***

Check this box to write the CD in one pass, without pausing between tracks. This is useful when creating a concert CD, with no gap between tracks. Even if you set the pause to 0.0 second, without Session-at-once, a small pause (1/37th second) may be noticeable as a small audible "click" when one track flows into the next, due to the way tracks are recorded on CD-R(W).

Session-at-once may also be used to create an exact copy of an audio CD. Remember to set the pause at "keep original" for all tracks.

The disadvantage of using this feature is that all files must be available when the recording starts. You won't be able to swap disks between tracks, for example when source files are on different CDs or cartridges. However, CDwriter still supports this concept indirectly. You'll now be asked to swap disks before the actual writing starts, and the source files will be buffered to hard disk on your temporary drive. This means that more space will be required on the temporary drive.

**Tip:** To minimise the number of files to be buffered, insert the disk(s) with the most files before clicking the **Write** or **Simulate** button.

## ***Simulate***

We advise you to perform a simulation, before trying to write, if:

- ☞ you are writing an audio CD for the first time with CDwriter;  
or
- ☞ you are using a faster recording speed than you have used successfully before;  
or
- ☞ you have changed the hard disk drive where your audio files are located;  
or
- ☞ your compilation contains MP3 files that you did not audition fully with Aniplayer.

Simulation does exactly the same as a real write, except that it does not actually turn the laser on to write to the CD-R(W). If there's something wrong in your setup, simulate allows you to find this out without wasting a blank CD-R(W).

**Note: if an error occurs during a real write, a CD-R will almost certainly be only useful as a frisbee or coaster, so if you have any concerns, simulate first!**

To simulate, click the **Simulate** button. You will be prompted if you wish to create the CD after a successful simulation. If you choose to create the CD, CDwriter will first simulate the writing of the CD, and if successful, eject the CD, re-load it and write it.

When simulation starts, the mouse pointer will change to a writing hand and all dialogs and multitasking will be suspended. This is to ensure that the writing process is not disturbed, essential for a successful write simulation. The 'recording' light on most models of CD Recorders will flash to indicate simulation.

You can press the **Esc** key during the simulation, except if using session-at-once. This will cancel the operation after the current track is completed.

When all the tracks are simulated, a simulated finalisation phase will occur; this can take up to 5 minutes. The CD-R(W) will then eject.

## **Write**

Click the **Write** button to write to the CD. The mouse pointer will change to a writing hand and all dialogs and multitasking will be suspended. This is to ensure that the writing process is not disturbed, essential for a successful write. The 'recording' light on most models of CD Recorder will remain steady.

When all the tracks are written, a finalisation phase will occur; this can take up to five minutes.

When the writing completes successfully, you will get a message indicating that the CD is ready for use, and the CD-R(W) will eject. You can then listen to it using a normal CD player, or a CD-ROM drive using the CDAudio software included with ExtenDOS 4.

You can press the **Esc** key during the writing, except if using session-at-once. This will cancel the operation after the current track is completed. **Warning: You will not be able to write again to a CD-R disc. The disc will contain just those tracks written so far.**

Click the **Cancel** button to go back to the Compilation window.

**Tip:** If your recorder supports Burnproof technology, use it to prevent recording errors. See the *General Options* dialog for details on how to verify that your recorder supports it and how to set it.

## ***Troubleshooting errors***

Try ejecting the CD-R(W) and re-inserting it, then click the **Simulate** button again. If an error occurs again, try reducing the recording speed, and simulate again. If this works, your system (computer, hard disk drive and/or CD Recorder) is not fast enough for the recording speed you originally chose. This could also be caused by a badly fragmented hard disk partition, in which case you will need to defragment it through one of the usual techniques.

To speed up writing, you can also try to use audio files of the type preferred by your CD Recorder. See the *General Options* section (**Info** button).

If the source hard disk or CD-ROM device is not fast enough, and you have a faster hard disk on your system, you can buffer the source files on that hard disk. See the *Source drives* section for more information. Another possible cause for errors is a bad CD-R(W) blank disc (although this isn't common): try another CD-R(W) disc.

## Compilation window

6:\CD Writer compilations\cars.CDM

CD Title: Cars\_\_\_\_\_

Artist: Various|\_\_\_\_\_

No.	Filename	Length	Song Name or Description	Options
01	GARY_NEW.MP3	4'00"	Gary Newman - Cars_____	[ : ] [ ↑ ]
02	TRACY_CH.MP3	5'01"	Tracy Chapman - Fast cars_____	[ : ] [ ]
03	GINO_VAN.MP3	3'11"	Gino Vanelli - Black cars_____	[ : ] [ ]
04	TOM_COCH.MP3	4'29"	Life Is A Highway_____	[ : ] [ ]
05	BILLY_OC.MP3	4'48"	Billy Ocean - Get out of my dream_____	[ : ] [ ]
06	TALKING_.MP3	4'22"	Talking Heads - Road to Nowhere_____	[ : ] [ ]
07	CARS - D.MP3	3'55"	Cars - Drive_____	[ : ] [ ]
08	GEGGY_TA.MP3	4'36"	GEGGY_TA_____	[ : ] [ ]
09	PAUL_MCC.MP3	4'40"	The Back Seat Of My Car_____	[ : ] [ ]
10	COLIN_JA.MP3	3'36"	Mercury Blues_____	[ : ] [ ]
11	BEATLES_.MP3	2'29"	Beatles - Drive my car_____	[ : ] [ ↓ ]

74'46" Total Time

REMOVE ENTRY CLIPBOARD

Default Pause - 2.0 +

freedborg 2M COMPACT DISC DIGITAL AUDIO

## General information

Type in the CD Title and Artist name for your CD. These fields are optional.

## Adding audio files

You can add MP3, WAV, AVR and AIF audio files. They must be 16-bit, stereo and 44.1 kHz. Long filenames are supported under MagiC only (filename box is then scrollable).

To add audio files, single-click in the first filename box available (number 1 if starting a new compilation). Then do one of the following actions, whichever is more convenient:

1. Double-click in the same box. A file selector will be displayed, where you can choose your audio file. After choosing, the format of the audio file is verified: if it is not in the right format, an error message will be displayed.
2. Alternatively, you can type in the audio file name. In this case the file is not verified, and the length will not be

displayed. The file will inherit the preferred path set in the General Options dialog (see the *General Options* section). To validate the file and display the length, you need to verify the file (see p. 13, *Verifying audio files*).

**Note:** When you save the compilation, the saved path for each file will be the one set at the time the save command was issued. Even if you change the path in the General Options dialog later, the path for the file will remain the one originally saved when you saved the compilation.

**Warning:** if an MP3 file has a variable bitrate, and does not contain any length information, it is impossible to determine the length without actually processing the whole file. Since this would take too much time, CDwriter estimates a playing length. This can be significantly different from the actual playing length (and therefore the size on CD).

**Note:** because the MP3 format is very flexible, and because there are a lot of defective MP3 files available, it is not easy for a program to distinguish a valid MP3 file from other binary files. Some files that CDwriter recognises as valid MP3 files may NOT be recognised by Aniplayer, which will thus NOT convert them to WAV. Therefore we recommend that you use Aniplayer to listen to your MP3s before recording. The Audition feature, explained below, can be handy for that purpose.

## ***Adding CD tracks***

You can add tracks from an audio CD, if you have a CD-ROM drive (or another CD-R(W) drive). Insert the audio CD in your drive, and then follow the same procedures as for adding audio files (instructions are above). In the file selector, choose the drive letter of your drive. You can add any file showing as TRACKnn.PRG, where "nn" is the track number on the CD.

## ***Typing a song name or description***

You may type in an optional song name or description for a file. For MP3 files, the song name is automatically entered from ID3 tags (v1 or v2) or from a "Xing" tag, should one be present.



When adding tracks from an audio CD, song names, title and artist can be automatically entered for you. In the General Options dialog, you can specify the path for the FREEDB.DAT file (freedb database) supplied with ExtenDOS 4. Once you set that path, CDwriter will check the database when you add songs from CDs, either via the QuickCreate utility or individually. If the CD is found in the freedb database, the CDwriter fields, if empty, will be filled with song names, artist and title.

If the CD has "CD Text" information on it, which also provides song names, title and artist, it will be used in preference to any information in FREEDB.DAT. You don't need to specify the use of "CD Text"; it will be automatically used if present.

After adding tracks from a CD, if the song names are still empty, we recommend that you type in a song name or description, to help you identify the new track, since the file name is not meaningful.

The maximum number of characters for the song name or description is 43, except under the MagiC operating system, where the field is scrollable with a maximum size of 100 characters.

The edit cursor may be moved with the arrow keys or the following keys:

- ☞ **Tab** moves to the next line.
- ☞ Holding the **Shift** key and pressing the Left-arrow key moves the cursor to the start of the line.
- ☞ Holding the **Shift** key and pressing the Right-arrow key moves the cursor to the end of the line.
- ☞ Holding the **Control** key and pressing the Left- or Right-arrow key skips one word to the left or to the right, respectively.
- ☞ The **Esc** key clears the current line.

The cursor can also be positioned with the mouse. You can click on the desired character on the line, and move the cursor on the line by holding the mouse button.

### ***Setting track-specific options***

You can set track-specific options by clicking the small button at the right of each track. See the *Track Options* section.

### ***Re-ordering audio files***

You can re-order the audio files within a compilation window. Simply drag the filename box of the audio file and drop it to its new location. If the desired new location is not on the current screen, drag the filename box to the Clipboard. Then scroll the window using the scroll bar or arrows until the new location is visible. Drag the clipboard to the new location.

### ***Removing audio files***

To remove an audio file, drag its filename box to the trash can. This removes the whole entry related to the file. It does not delete the audio file from disk, just its entry from the CDwriter compilation.

You can also remove audio files by dragging them to the clipboard. In this case, the last file dragged to the clipboard is available for pasting.

### ***Replacing audio files***

If you want to replace an existing audio file by another, double-click in the existing filename box. This will bring up the file selector, and you can then choose another file. Or you can type in the new filename over the old filename. In the latter case, the path of the new filename will stay the same as the one of the old filename.

## ***Verifying audio files***

At any time you can verify if the audio files in your compilation are valid by choosing one of the options under the "Verify" menu. "Quick" makes sure that all the files were validated before, and validates only those that were not. "Full" validates all the files. If the files come from different cartridges or audio CDs, the verification process is smart enough to minimise disk swapping. If you have files from many cartridges, or tracks from many CDs, the "Full" validation can require a lot of disk swapping.

Before writing, CDwriter automatically performs a "Quick" validation. If you're unsure that all the files in the compilation exist and are good, use the "Full" validation before writing.

If an audio file is invalid (wrong format, does not exist, etc.), an alert message will display the name and number of the faulty file. In addition, the verification process checks to make sure that there are no blank entries between audio files. If there are, you will get an error message. Remove the blank entries.

## ***Auditioning audio files and CD tracks***

When Aniplayer is installed, you can audition audio files from within the compilation, before they are written to CD. When ExtenDOS 4 is installed, you can audition tracks from source CDs. First click on the filename box of the file or track you want to play. Click the Play button to start auditioning and the Stop button to end. Only one file or track can be played at a time using this method.

If you want to listen to the whole compilation, use the **Audition** feature under the **Verify** menu. Aniplayer will be used to play back all the tracks in the compilation. ExtenDOS 4 is required to play the tracks from source CDs; their WAV counterparts are used.

**Note:** if you want to determine the effect of different lengths of pause between tracks, the "Listen to pause" feature gives a more accurate idea of the pause between tracks than the "Audition" feature. See the *Track Options* section in this manual.

## ***The clipboard***

The clipboard is used to store an audio file entry temporarily. Drag a filename box to the clipboard to remove it from the compilation. Drag the clipboard over a filename box to paste the stored audio file entry in the compilation. The clipboard always "remembers" the last audio file entry dragged into it; you can paste the audio file entry into another compilation if you wish.

## ***Compilation file management***

The following items are available from the **File** menu:

To save the current compilation, choose **Save**. In the file selector box, type in a name for your compilation. The default extension CDW is used to identify CDwriter compilations.

To open a compilation, choose **Open...** You can open compilations saved with previous versions of CDwriter.

To save the current compilation under a different name, choose **Save as...**

To close the current compilation, choose **Close** or click the Close gadget at the upper left corner of the window.

To start a new compilation, choose **New**.

## ***Setting the Pause length for all tracks***

You can set the pause length between tracks in the current compilation. The pause is a silent period and is applied to all tracks. It can be from 0.0 to 9.9 seconds in length inclusively, by increments of 1/10th second. Click the **+** and **-** buttons to adjust the pause. You can also set the pause individually for each track: see the *Track Options* section.

Note that your recorder may not support a pause less than 2 seconds. You can find this out by using the **Info** button in the General Options dialog box. See the *General Options* section.

When you quit, the current pause is saved, so that CDwriter will start with the last pause used.

## ***Printing the current compilation***

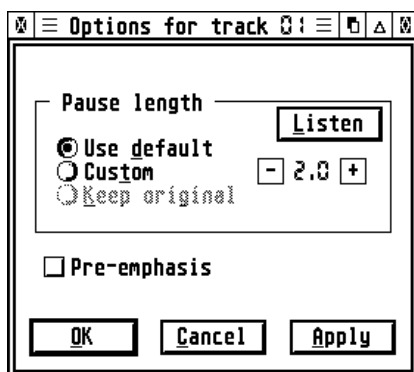
To print the current compilation (useful for CD cover inserts), choose the **Print** item from the **File** menu. The song names, lengths, title and artist are printed. The filenames are not printed. You must have at least one song name to print.

You can also print to an ASCII file with tab-delimited fields. This allows you, for example, to read the file into a word processor program to create a CD insert. Choose the **Print to file...** option from the **File** menu. A file selector will then be displayed, allowing you to choose the name and path of the output file.

## **Track Options**

Click the small button at the right of a track entry in the Compilation window to open the Track Options dialog. The track number for which the options are being set is displayed in the title bar of the window.

In this dialog, you can set the pause length for the current track and pre-emphasis.



### ***Pause length***

You can set the pause individually for the current track. If the track is from an audio file, you have two options:

- 🔊 **Use default:** The pause set in the Compilation window (see the *Compilation window* section).

🔊 **Custom:** Use the - and + buttons to finely adjust the pause, independently of the pause set in the Compilation window.

If the track is from a CD track, you have a third option:

🔊 **Keep original:** Sets the pause to be the same length as found on the original source CD track, up to a maximum of 2 seconds. You can set this option to be the default for all new CD tracks, in the General Options dialog box. See the *General Options* section.

Note that your recorder may not support a pause less than 2 seconds. You can find this out by using the **Info** button in the General Options dialog box. See the *General Options* section.

## ***Listen button***

Clicking this button will play the last few seconds of the current track, followed by silence for the currently displayed pause length, followed by the first few seconds of the next track. This feature allows you to precisely set the pause length to your liking, before it is recorded.

Two restrictions exist, however. First, this feature is not available for MP3 files. Second, the following track must be in the same file format as the current track (e.g. both AVRs or both AIF or both WAV or both PRG), otherwise only the current track will play, followed by the pause.

Aniplayer is required for playing audio files. ExtenDOS 4 is required to play CD tracks.

You can set the playing time for the end and beginning of tracks. See the *General Options* section.

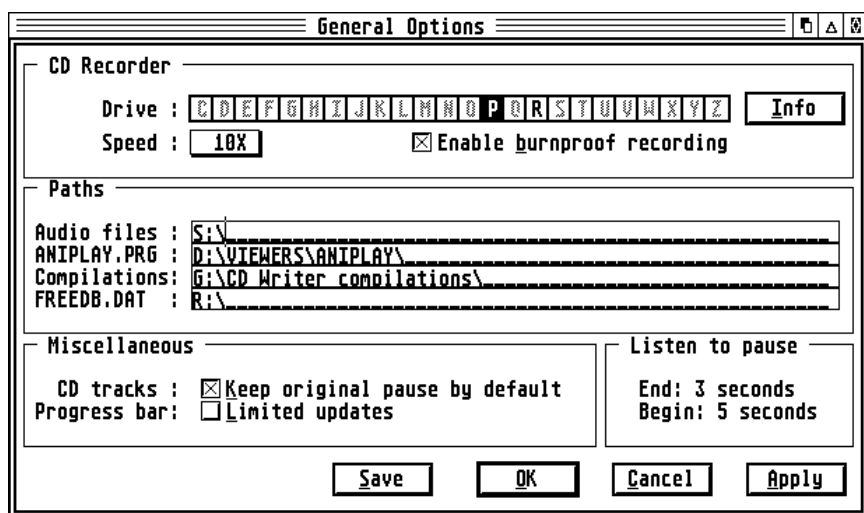
When you click the **Listen** button to audition audio files, a temporary file in the form of "\_CDWTEMP.ext" where "ext" is the file format extension (AVR, WAV or AIF) is created in the root of the temporary drive. This file is erased when you quit CDwriter. Do not give one of your audio files the same name.

## Pre-emphasis

You can set pre-emphasis for the file by checking the **Pre-emphasis** box. Only do this if you are absolutely sure that the recording was made with pre-emphasis; most recordings are not, and setting pre-emphasis when it should not be set will cause the sound to be altered on playback.

## General Options

Choose the **General...** item from the **Options** menu to access the General Options dialog, as shown below.



The options in this window are described in the next two pages. After making changes, you can click on these four buttons:

**Save:** Saves your preferences to disk in file CDWRITER.INF, in the same folder as CDWRITER.PRG. This file is read every time you start CDwriter. Your active preferences are not changed.

**OK:** Sets your active preferences.

**Cancel:** Cancels any changes made.

**Apply:** Same as **OK**, but the dialog remains open.

## ***CD Recorder options***

**Drive:** This option is useful if you have more than one CD Recorder device attached to your system. You can select the drive letter of your CD Recorder device, as configured in ExtenDOS 4. Only the drive letters corresponding to available CD Recorders are selectable. Note that if no CD Recorder drive letter is selected, or if the selected CD Recorder is no longer available, CDwriter will automatically select the first CD Recorder available.

**Speed:** Selects the default recording speed that you want to appear in the Write dialog box. See the *Write dialog box* section.

**Info:** Clicking this button will display the identification of the selected drive, the type(s) of audio files it prefers, if pauses less than 2 seconds are supported and if session-at-once is supported. If all the audio files in a compilation are of a preferred type, the computer will need to do less work. Consequently, you may be able to select a higher recording speed.

**Enable burnproof recording:** There are three possible states for this box:

1. If greyed out and the box is deselected, your recorder doesn't support burnproof.
2. If greyed out and the box is selected, your recorder supports burnproof and it is always on; it cannot be turned off.
3. If not greyed out, your recorder supports burnproof, and you can turn it off by deselecting this box, and turn it on by selecting it.

The burnproof feature prevents errors due to the recording speed being too high for your system (this type of error is also known as a buffer underrun). The drive will wait for data if it can't receive it fast enough from the system. All DVD recorders that we know of provide this feature; it is also available on current CD recorders.



However, although by using the burnproof feature you can set a very high speed without causing a write failure, too high a speed will actually slow the overall recording throughput because the drive must constantly stop and start. The optimum speed is normally the highest speed that you can set without needing burnproof, or the lowest speed that needs burnproof.

By default, CDwriter enables the burnproof feature if available on your drive. We suggest always using it when available, especially with CD-Rs on a recent recorder as even its lowest speed may be too fast for your system.

### ***Paths options***

**Audio files:** This option selects the path for your audio files. You can click and then double-click on this box to bring up the file selector.

**ANIPLAY.PRG:** This option selects the path for ANIPLAY.PRG (Aniplayer) which is required to listen to audio files. You can click and then double-click on this box to bring up the file selector.

**Compilations:** This option selects the path for your compilations. You can click and then double-click on this box to bring up the file selector.

**FREEDB.DAT:** This option selects the path for the FREEDB.DAT file (freedb database) supplied with ExtenDOS 4. The file can be on a CD if you have more than one CD drive. Freedb is used to fill song names, album title and artist when you add songs from audio CDs.

### ***Listen to pause options***

**End** and **Begin:** Set the number of seconds (1 to 9) to be played at the end and beginning of tracks, when using the **Listen** button in the Track options dialog.

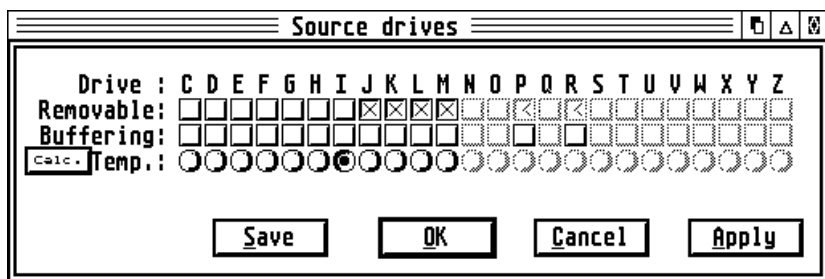
## Miscellaneous options

**CD tracks: Keep original pause by default:** When this box is selected, each new CD track added to a compilation will have its pause set to "original" instead of the default pause.

**Progress bar: Limited updates:** When this box is selected, the screen will only update between tracks, when writing. In some circumstances, this will allow a successful write at a higher speed.

## Source drives

Choose the **Source Drives...** item from the **Options** menu to access the Source Drives dialog. In this window, you can set options for removable media and buffering.



The options in this window are described in the following pages. After making changes, you can click on these four buttons:

**Save:** Saves your preferences to disk in file CDWRITER.INF, in the same folder as CDWRITER.PRG. This file is read every time you start CDwriter.

**OK:** Sets your active preferences.

**Cancel:** Cancels any changes made.

**Apply:** Same as **OK**, but the dialog remains open.

## ***Using removable media***

In the row labelled **Removable**, select which drives are removable (e.g. ZIP, JAZ, etc.). When files from these drives cannot be found, either while writing or verifying, you will be prompted to insert the right cartridge (or CD, if it's a CD-ROM drive). In the prompt, the song name or description that you entered in the compilation window will appear in addition to the file name, to help you locate the right cartridge or CD.

## ***Using a buffer for some drives***

In the row labelled **Buffering**, select which drives will use a file buffer, while writing from them to a CD-R(W). Files from these drives will be first copied to a buffer file on the temporary drive (see below). The CD track will be written from the buffer file, which will then be deleted. This option is useful for slow hard drives or CD-ROM drives, when a faster hard drive is available. If you can't record even at 1x, or if you want to write at a faster speed, try this option.

In addition, this feature can help reduce the possibility of write errors: if you have a fast temporary drive partition and keep it unfragmented, you do not need to make sure that other drives on your system are fast enough.

## ***Choosing the temporary drive***

In the row labelled **Temp.**, choose which drive will act as the temporary drive for buffering (including for Session-at-once), and for creating Aniplayer temporary files. You will have better results if you select the drive which is the fastest, and have enough free space for the largest file that you want to put on CD.

Click the **Calc.** button to calculate which drive has the most free space, and automatically select this drive as the temporary drive. After clicking this button, your drives will be scanned to report the free space.

## **How to create a CDextra disc**

A CDextra disc is basically a multisession CD with the first session being an audio session, and the second and subsequent sessions being data sessions.

To create a CDextra disc, first use CDwriter to create a compilation as usual. Keep in mind that you must leave some space on the CD for the data session(s). Then, in the Write dialog box, check the box **Close for CDextra** before writing.

After the CD is created, it can be used as a normal audio CD, but it is in fact a multisession CD to which you can add data tracks, as follows. Using CD InScriptOr, create a session with the files you want to put on the CDextra disc. Before writing the data, check the box **Don't include previous session** in CD InScriptOr's Advanced options window.

## **Other features**

### ***Save window positions***

This feature is found under the **Options** menu. Choose **Yes** to save the current window screen positions. The last positions of closed windows are also saved. The positions are saved in the file CDWRITER.INF.

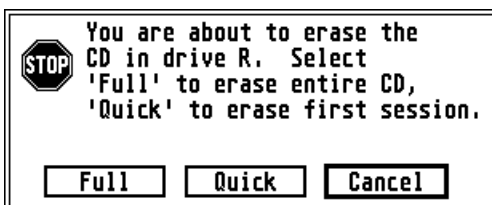
### ***Eject CD***

To eject a CD from your CD Recorder, click the Eject button in the compilation window, or choose the item **Eject** from the **CD** menu, or press **Control-E** on the keyboard.

## Erase CD

You can erase a CD-RW disc: under the **CD** menu, choose **Erase....** You may choose between **Full** and **Quick**: a full

erase erases the entire CD; a quick erase erases just the first session. A quick erase is always quicker (sometimes a lot quicker) than a full erase. A progress bar is displayed during the erasing process and the mouse shape turns into an eraser.



In most cases, a quick erase is sufficient; however, in rare cases you may need to use a full erase to prevent previously-recorded sessions of a multisession CD from "re-appearing".

## **Where can I get audio files?**

Following are some suggested sources:

- ☞ Existing audio files: You can gather audio files from various sources (Internet, CD-ROMs, etc.) If the audio files that you have are not in the right format (MP3, AVR, WAV or AIF, sample rate of 44.1 kHz and 16-bit stereo), they can be converted with a utility like Five2Five, available as Shareware from Atari FTP sites or BBSs.
- ☞ Custom audio files: You can create your own audio files by recording your own samples to hard disk with the Falcon030. An optional DSP external clock that supports the 44.1 kHz sample rate can be useful. Otherwise you will have to convert the sample rate with a utility like Five2Five.
- ☞ Audio CDs: You can use tracks from audio CDs directly in CDwriter.
- ☞ Recorded Audio CD tracks: With the CDAudio program of ExtenDOS 4 you can create audio files in the right format from Audio CDs. Consult the ExtenDOS 4 documentation for more details.

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