

BurnIt

COLLABORATORS

	<i>TITLE :</i> BurnIt		
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REVISION HISTORY

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Chapter 1

BurnIt

1.1 Contents

BurnIt 1.00

The CDR-Software for the Amiga

User - Guide
Version 1.0

Copyright ©1996, DnS

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Foreword

Legal Stuff

Support

Requirements

Installation

Introduction

Windows

Registration

Updates

Support

The Authors

Thanks

Known Bugs

History

1.2 Foreword

Welcome

=====

Welcome to BurnIt

Congratulations!

You have decided for a product which marks on several points. BurnIt was made for professional use and distinguish by simply handling and high processing rate. At a program like this it was taken care that the picture will have usable quality what is very important in this case.

Responsible for BurnIt

Programming: Axel Deising
 Michael Siegel
Hand book: Axel Deising
 Michael Siegel

The informations in this product are published without consideration for eventually patent protection.

Trade names are used without guarantee of free employment.

It was proceeded with mostly carefulness in the compilation of documents and pictures. Any mistakes cannot be fully excluded, nevertheless.

The editors and authors cannot undertake neither legal responsibility nor any liability for wrong instructions and their consequences.

Trade marks

AMIGA is a registered trade mark by ESCOM AG, Bochum.

All other products mentioned in this guide are trademarks of the belonging companies.

1.3 Legal Stuff

Copyright:

Copyright and other legal stuff

=====

Copyright:

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DnS reserves the right to make improvements and
modifications on this product everytime and without previous
announcements.

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are under copyright of DnS. All rights reserved. It isn't allowed
to copy the manual in parts, to duplicate it, to translate it in other languages
or to bring it in electronical or mechanical readable form without written
permission of DnS, Am Walde 3a, D-28816 Stuhr.

No guarantee:

DnS doesn't take on any responsibility, neither expressly
nor maintained, refer to this manual it's quality, usability or it's
suitability for a certain purpose. The manual has published in the
presented form.

BurnIt has been developed and tested carefully. However, the
authors didn't guarantee for any damages, which result direct
or indirect of using BurnIt. This is also valid for the manual
and the other including programs.

You are using this program on your own risc!

1.4 Distribution

Titan Computer

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Fax: 0421/481620

eMail: deity@informatik.uni-bremen.de

siegel@mail.netwave.de

Note ! The the use of emails is the cheapest way to write letters
which are miles long :)

1.5 Requirements

Before starting BurnIt have a look to required hardware and software.

Required Hardware

The usage of BurnIt requires an Amiga-Computer with a 68020 CPU or better. A harddisk and Kickstart3.0 is also required.

The harddisk should have at least 650MB free space, so you can store one CD-Image in. You should also have min. 4MB extra ram.

Note for ram: The more the better.

BurnIt should work fine with these CD-Recorders :

Philips 521
Philips CDD2000
Hightech CD-R 2000
Kodak PCD-225
Kodak PCD-600
HP SureStore 4020i
Plasmon RF4100
Plasmon CDR4220
Grundig CDR100IPW
Ricoh RS-1420C

Yamaha CDR100
Yamaha CDR102

Sony CDU920S
Smart&Friendly CD-R 1002

Required Software

For running BurnIt the use of the Workbench 3.0 or higher is required. Using a lower Version BurnIt will crash your system.

Consult your local dealer to upgrade you system.

BurnIt was succesfully tested with:

Computer : - Amiga 2000/30, Amiga 2000/60, Amiga 3000, Amiga 4000/30
 und Amiga 4000/40

Controller: - Oktagon 2008, Blizzard 2060

CD-Rom: - Toshiba XM-4101B, XM-3501B, XM-5201B, XM-5301B,
 XM-5401B and XM-3701B
 - Sony 76S

CDR: - Yamaha CDR100, CDR102
 - Philips CDD2000

it works NOT with : (You can not read CDDA with this drives)

- Sanyo
- Mitsumi FX-001D, FX-001E, FX-300 and FX-400

1.6 Installation

The installation of BurnIt

For installing BurnIt on your harddisc please do the following steps:

- Put the BurnIt-disc into your drive when the workbench appears. When the disc-icon appears please open the window with a double click on the icon.
- You can see the contents of the BurnIt-disc also the icon called "Install_BurnIt" which can be started with a doubleclick.
- Now the installer appears. It asks you for the directory in what you like to install BurnIt. BurnIt creates a drawer named "BurnIt".
- Please let the adjustments in this condition.
- Click on "OK" button.
- The installation will be taken automatically.
- After finishing the installation you can start BurnIt with a double click on the BurnIt icon.

Have fun!

1.7 Introduction

Introduction

Here you will know the basics of handling with the AMIGA computer in order to work successful with BurnIt.

Before you set to work ...

We suppose that you know your AMIGA and also:

- you are at home in your workbench,
- you control all functions of your mouse (clicking, double clicking, pressing and pulling),
- you can move correctly on your screen / windows also by using the sliders,
- you can choose the functions from the menus / dialogue fields.

If you don't control these functions you should read the documentation of your AMIGA computer.

How you can help yourself

If you have any problems with BurnIt please read this hand book first. Think about the problem occurred and the functions which don't want to work as you have expected. Look into your hand book. The table of contents and the index will support you in your intention. Was it not successful please take care if any program works parallely caused a misfunction (perhaps a graphic program or other softwares).

If you are convinced of discovering a defect or a misfunction caused by BurnIt please contact our technical service.

Please note that you must be registered first before you can use the technical service.

1.8 Registration

Registration

Please fill out the enclosed registrationcard and send it back to us. If you are registred you are entitled to get the technical hotline. If you call the technical hotline please pay attention that you have the registration number ready. The registration number can find under the menu "about...." or on the BurnIt-Disc.

NAME: _____

ADDESS: _____

Postcode: _____ Residence: _____

TEL.: _____ FAX: _____

Email: _____

ArtStudio Version: _____ Registration No.: _____

bought on: _____ dealer: _____

AMIGA Computer: _____ Memory: _____

Graphicboard: _____ Memory: _____

Harddisc: _____ Capacity: _____

What do you like from BurnIt ?

What you don't like from BurnIt?

What new function would you like to see in future updates?

In what kind of products are you interested, too?

Which Amiga-Magazines do you read:

1.9 Updates

UpDates
=====

All registered users of BurnIt will receive a written notification if new releases coming up. All other users can inform themselves about the new versions in all Amiga-magazines.

We also try to put small updates into the Aminet. Therefore you can receive quick and gratis the latest version of Artstudio directly via modem or if you buy the Aminet CD's.

1.10 support

Support

=====

How to help myself if an error occurs !

If you have problems when you work with BurnIt, please look first in this manual most problems can be solved with it. Remember shortly, what you have done and which function doesn't work like you have it expected. Look in the corresponding pages of this manual the index-guide will help you to find the right one. Pay attention, that no other external runing program cause this failure e.g. other graphic programs whom using chip etc.

Please contact the hotline not until you're sure, that have find out a failure of BurnIt. Please remember, that you have first to register before you can avail technical help.

If you can't go on working, nothing you have done helps then call our hotline.

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DnS

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eMail:deity@informatik.uni-bremen.de

siegel@mail.newtwave.de

Please remember the EMail is the cheapest variant to contact our hotline.

Where I have to send the bugreports and wishes for new features.

If you have difficulties, bugs or further wishes, then please contact the BurnIt programmers direct. We will try to find a solution for your problems.

Of course we are very interested in your requests, suggestions und bug reports. That makes it easier to create a good program.

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1.12 special

There are several people I want to thank for supporting BurnIt:

- * Ingo Kleefeld for bug reports, ideas and more
- * Alexander Seesko for bug reports
- * Marc Czascke for Philips CDD2000 support
- * Thomas Wenzel for Play16
- * SONY® for SCSI Commands Set
- * all other folks that have contacted me in the past
- * of course all users who already paid their shareware fee

1.13 trouble

- with Toshiba XM-4101 the logical blocksize can't reset (!!!!!!!)
you must turn off your cd-rom (=computer) for scsi-reset....

1.14 history

History of BurnIt

V1.0 : - first public release September '96.

1.15 Windows

```

    Main
    Iso-Maker
    Multisession
    Rename
    PVD
    Create a CD-Rom
    Write/ISO Prefs
    Audio Prefs
    Read CDD
    Device Copy
    Convert Audio
    Recover Track
    Write Progress
    Burn Info
    Get Date und Time
    Select Device
```

1.16 window_main

```

                                     Main
                                ~~~~
This is the bridge of BurnIt. From here you get in all other parts of BurnIt.
```

```

    Iso-Maker
    Create a CD-Rom
    Write/ISO Prefs
    Audio Prefs
    Read CDD
    Device Copy
```

Convert Audio

Recover Track

1.17 window_iso

ISO-Maker

~~~~~

Here you have the possibility to mix your own CDs  
After selecting the files and reworking them you can create a so called  
"ISO-File". This can be written later on in

Create a CD-ROM

.

The sort of ISO-File can be selected in

Write/Iso Prefs

.

The MENU :

Project

~~~~~

New Project :

Delete current cue

Add Tree :

s.b.

Add File :

s.b.

Make Iso-File :

s.b.

Edit PVD :

s.b.

Preferences :

s.b.

About :

Info about Burn It!

Quit :

closes the Iso-Maker

Edit

~~~~~

Cut :

current entry will be cut

Copy :

current entry will be copied

Paste :

Copied or cut entrz will be inserted

Rename :

current entry can be renamed

The Buttons :

Rename Eintrag :

current entry can be renamed

Lösche Eintrag :

current entry will be deleted. It is NOT possible to insert this/these deleted entry(ies)

Add Tree :

after selecting the directory it will be recursive scanned and added to current cue.

Add File :

after selecting a file it will be inserted on current cue-position

Edit PVD :

Primary Volume Descriptor

Preferences :

Write/Iso Preferences

Make ISO-File :

after entering the filename a ISO-Image with the selected parameters will be created. Change parameters in

Write/Iso Preferences

.

## 1.18 window\_pvd

Primary Volume Descriptor

~~~~~

The Primary Volume Descriptor gives all CD-specific data for an CD written in ISO9660-format. In the PVD is for example the blocksize, directory positions etc. saved. The user has the possibility to change the following fields :

System ID :

System CD is used on

Volume Identifier :
Name of CD

Volume ID :
Type of Data on CD (Animation ...)

Publisher Identifier:
...

Data-Preparer id. :
...

Application identifier :
Program CD is created with

Copyright file id. :
Filename with copyrightstuff

Abstract file id. :
Filename with explanation of the usage of the CD

Bibliographic file id. :
....

Volume creation date :
CD-creation-date

Modification date :
...

Volume expiration date :
...

Volume effective date :
..

IMPORTANT NOTE!

The Volume Identifier is the name that will appear under the icon on the WB. All other fields are on the AMIGA-OS and most other systems out of order but will be written on the CD. So you can see this information with the right tools.

1.19 window_makecd

Make CD
~~~~~

Here you can select the tracks that were written on CDR. Also the order can be changed.

---



## The Buttons

### Add :

A multiselect-filerequester appears. You can select the files that were added to the write cue.

### Del:

current entry will be deleted

### ? :

current file can be changed

### up/down/top/bottom :

selected file-position can be changed

### Data-File/Audio/XA-File:

this cycle-gadget changes the sort of current file. This will make changes on blocksize. You will be warned if blocksize does not fit with file-byte-size.

### Clear List :

cue will be deleted

### Write CD :

This button lets appear the last info-window. The CDR will be finalized so no more data can be written after this action

### Write Track :

This button lets appear the last info-window. The tracks will be finalized so more data can be written after this action

## 1.20 window\_rename

Rename  
~~~~~

A window appears. The old name is in the upper window area. Type in the new name and rename, so the entry will be renamed.

Directories can also change the level by typing slashes.

Example:

old:

stuff

new:

wullst/stuff1/xxx.xx/YYY/Hello

1.21 window_burnprefs

Write/ISO Preferences

~~~~~

Here you can make settings for ISO-creation and CD-Recorder.

Emulate Write.: (Dummy Write)

This checkbox simulates the writing progress if activated. All functions will be used only the writing is fake. Nearly all CD-Recorders have this function.

You can test if the Write-progress will be done correct with your hardware.

After changing the hardware it is recommended to make again a dummy-write.

Write Pad:

15 blocks more are written with every track

Eject:

After writing a CDR the CDR will be ejected. Only active in non-dummy-mode.

Async I/O:

Asynchronous routines will be used for writing. This could increase the performance.

For bigger step-rates its better to use this function NOT.

Write Speed:

Select the wanted write-speed.

It is only possible to select speeds that are supported by the CD-Recorders.

Buffers:

Buffer used for the ISO-file to write. Little write-time-problems can be removed with big buffers.

Steps:

One step is equal to one block. The blocksize depends on the used sort of track (Data=2048 bytes, Audio & XA = 2352 bytes). You should only use stepsizes of 2^X (32, 64, 128, 256) because they work finest with the AMIGA-filessystem.

Accelerated systems work very good with a stepsize of 32.

NOTE !

Do not use a stepsize bigger 222 on Yamaha-CD-Recorders because the cache of this devices is 512KB so the recorder will not work correct.

Destination CD-R:

Shows the selected CD-Recorder. Select another by clicking  
?

.

Source Drive:

Shows the selected Source-Drive. Select another by clicking  
?

.

ReadCDD1 Drive:

Shows the selected Destination-Drive. Select another by clicking  
?

.

CD-Format:

ISO9660 is a defined "read-only" filesystem. This filesystem can be used on many different platforms (Amiga, Mac, MS-DOS, Windows, Windows 95, UNIX, usw.).

Use ISO9660 Level 1 :

By selecting this type of ISO-file filenames are cutted to a length of 8.3 (xxxxxxx.xxx) if they do not have the correct length.

Directories were cutted to a length of 8 chararcters without extension.

The following chars are allowed in this type:

A-Z, 0-9, \_

File/Dirflags like writeable,deleteable were ignored. The directory level should not be higher than 8.

Use ISO9660 Lvl 1 + other Chars :

By selecting this type of ISO-file filenames are cutted to a length of 8.3 (xxxxxxx.xxx) if they do not have the correct length.

Directories were cutted to a length of 8 chararcters without extension.

File/Dirflags like writeable,deleteable were ignored. The directory level should not be higher than 8.

Use ISO9660 Level 2 :

By selecting this type of ISO-file dir/filenames are cutted to a length of 30 :).

This depends on the AMIGA-OS.

File/Dirflags like writeable,deleteable were ignored.

Use ISO9660 Level 2 + RRIP :

In this case more information about the files and directories were saved. The ISO9660 system will be extended with the RockRidge Interchage Protocol.

By selecting this type of ISO-file dir/filenames are cutted to a length of 30 :).

---

This depends on the AMIGA-OS.  
File/Dirflags like writeable,readable ,deleteable were  
NOT ignored.

ATTENTION !

All Systems have not information like:

- comments
- script
- hidden
- archiv.
- resident

This is NO ERROR(!) of BurnIt. It depends on the AMIGA-OS andthe defintion of  
the ISO9660 and RockRidge system.

Unifomr Date:t

All Files and directories will get the same date. Selected with ?.

Device = Drawer:

The devicename will be the drawer before the start-directory.

Example :

Scann Directory:

Work:System/test/test.info

Directory on CD and Device = Drawer active:

Work/System/test/test.info

Directory on CD and Device = Drawer NOT active:

System/test/test.info

Use File-Version:

The ISO9660-System defines that the filename is followd by a versionnumber.  
Filename and Versionnumber are seperated by a semicolon. This will be  
ignored by most filesystems. It doesn't matter if this option is used.

CDTV:

Is this option active a file MUST be selected with "?", so the CD should be  
bootable on CDTV.

CD 32:

Is this option active a file MUST be selected with "?", so the CD should be  
bootable on CD32.

## 1.22 window\_readcddprefs

ReadCDD Preferences

~~~~~

All options for ReadCDD can be changed her:

Pre-emphasis:

The Pre-emphasis bit for digital remastered audio-data will be set.
Is of no sense for the writing of CDs.

XA-Mode:

Allows reading XA-CDs. An error occurs if you try to read normal data-CDS.

Cut 150:

Audio-CDs must have a gap of 150 empty blocks(2 seconds). This depends on the hardware. By reading Data from CDs it is only possible to get the startblock of the tracks but not the length, so the gap would be copied. This option gives you the possibility to read 2 seconds less so the gap would not be copied.

The reason for this option is :

The Track-at-Once writing writes automatically 150 empty blocks(2 seconds) between two tracks so if this option is inactive you would have a gap of 4(!) seconds.

Multiselect:

The multiselect mode in ReadCDD will be activated. You can not change startblocks and length. Now it is possible to select more tracks. They will be saved with different endings.

Ignore Erros:

Errors on CDDA- or XA-tracks will be ignored. This option is useful on defect CDDA-tracks. It is not possible to correct errors on this tracks. Errors on CDDA-tracks will only be remarked as silent wrong sound on the new created CD. CD-players should ignore those errors.
At the end of reading a track the whole number of errors will be shown.

Format:

The saveformat of the reading-CD is selected with this cycle-gadget.

The Format is used for the writing progress fro audio-CDs. The RAW-mode depends on the CD-Recorder.

RAW-Format: LSB (Intel) (z.B. Yamaha)

or

MSB (Motorola) (z.B. Philips)

- 44.1kHz Samplefrequenz
- no Header
- 16Bit
- Stereo
- Intel Format (lsbmsb) or Motorola Format (msblsb)

WAVE-Format:

- 44.1kHz Samplefrequenz
-

- 16Bit
- Stereo

AIFF-Format:

- 44.1kHz Samplefrequenz
- 16Bit
- Stereo

Buffertype:

Specifies the buffertype. Values are CHIP, FAST, PUBLIC and 24BITDMA, default is PUBLIC.

IO-Buffer:

Specifies the IO buffer.

Read-Steps:

One step is equal to one block. The blocksize depends on the used sort of track (Data=2048 bytes, Audio & XA = 2352 bytes). You should only use stepsizes of 2^X (32, 64, 128, 256) because they work finest with the AMIGA-filessystem.

Accelerated systems work very good with a stepsize of 32.

Readpri.:

Specifies the priority of ReadCDD readtask.

ReadSpeed:

Specifies the speed for audio reading
(if the unit supported more than single speed)

1.23 window_readcdd

ReadCDD
~~~~~

You can select tracks that were written as ISO- CDDA- or RAW-file.

Settings can be made in Audio Prefs.

In the non-multiselect-mode start and length of tracks can be entered. The length will be updated after these actions.

If multiselect is on you can only select tracks.

## 1.24 window\_devicecopy

Device Copy  
~~~~~

This part copies the first track from a source-device to the destination.
We recommend to make first an iso-file and write this to CDR.

ATTENTION !!!!ATTENTION !!!!ATTENTION !!!!ATTENTION !!!!ATTENTION !!!!...

Please use dummy-write due to errors on the source-cd, vibrations or dust
the write progress can be interrupted due to lack of data. A buffer underun
is the result and the CDR is not written correct.
By using a big buffer some errors can be removed.

Source:

Source drive to copy from. Set and save in Write/Iso-Prefs.

Destination:

Destination drive to copy to. Set and save in Write/Iso-Prefs.

1.25 window_convertmusic

Convert Audio
~~~~~

This part makes it possible to change the order of bytes in  
audio-data-files. It detects AIFF and WAVE and saves the selected  
CDDA-file-format. Formatchanging between LSB -> MSB or MSB -> LSB is  
possible.

Only unpacked 16Bit 44.1kHz AIFF and Wave files will be loaded correct.  
It is recommended to use the part READCDD to read audiodata. If the  
AIFF or Wave format is not detected correct use other programs to  
convert them. (e.g. AmiSOX from AmiNet)

Selected Data Ordering:

The order of data shows the outpu-formar of the CDDA-File.  
The order depends on the used CD-Recorder.

Example :

Least signifcant byte first for Yamaha  
Most signifcant byte first for Philips

The order must be selected by the user. Get this information from  
the handbook of you CD-Recorder.

Selected Output Form:

only for future implementations

Stereo/Left Channel:

The file to convert is to be selected by an ASL-Requester and the  
detected format must be confirmed.

---

Right Channel:

The right channel of AIFF- or Wavefiles will be selected.

Output:

Select the outputfile

## 1.26 window\_recovertrack

Recover Track

~~~~~

This part of BurnIt gives you the possibility to recover c(t)rashed CDRs. CDRs are not written correct when the write progress is interrupted unnormal.

The listview shows existing tracks.

TOC Type:

This Cycle-Gadget you choose the sort of CDR or track.

Track Info:

Shows more info about selected track.

Disk Info:

Gives more info about the CDR.

Recover Track:

*** only Philips etc. ***

Recovers the interrupted written track. The CDR must stay in drive and teh CD-Recorder must be reset.

Finalize Track:

Finalizes the last track. That means the TOC(Table of Contents) and the LeadOut information will be written. More tracks can be written on CDR after this. NOTE ! Select the right TOC-Type before starting this action

Finalize Disc:

Finalizes the last track. That means the TOC(Table of Contents) and the LeadOut information will be written. NO more tracks can be written on CDR after this. NOTE ! Select the right TOC-Type before starting this action

Finish Track:

*** only Philips etc. ***

Finalizes last track also if the track is not totally written.

1.27 window_showburninfo

Burn Info

~~~~~

This window shows the info for the upcoming write progress.  
This is the last chance to abort.

Write Speed : current speed used to write.

Dummy Write : on - Writing will be simulated.  
off - Writing will happen.

Finalize Session/Disk : Disk - CDR will be completed  
finalized  
Session - CDR can be filled with more data after  
writing this track(s)

Tracks : Number of tracks going to be written on CDR.

Track-At-Once : Sort of writing the write

Recording Time : Time to write the CDR

Length : Whole length of the CDR

## 1.28 window\_burncd

### Writing CDR

~~~~~

This window shows the write progress

Write Pos.: actual position for this track.

Tracks : current track.

Operation : Operation

1.29 multisession

Multisession-Modes

~~~~~

No Multisession :

A normal Iso-files will be created. It is NOT possible to write this track as another track than the first.

Ignore

The tracks written before on CD will be totally ignored. If there exist a track on the CD and you will NOT use this option it is not possible to read the actual track correct.

#### Overwrite all

The last track on the multisession-CD will be scanned and added to the directory. Double files will be 'overwritten' with the new one. This depends NOT on the date. The file will be in every case overwritten.

#### Overwrite new

The last track on the multisession-CD will be scanned and added to the directory. Double files will NOT be 'overwritten' with the new one if the old one has the same or newer date. This option is very useful for backups.

### 1.30 window\_selecteddate

```
                Select Date and Time
                ~~~~~
```

Select Date and time. Nothing more to say we thought.

### 1.31 window\_selecteddevice

```
 Select Device
                ~~~~~
```

On the left side the SCSI-Devices appear. Please select the device your hardware will hopefully appear on. If your device is not shown you can enter the device manually.

If you can not find your hardware on any SCSI-device please contact our technical hotline.

---