Burnlt

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Chapter 1

Burnlt

1.1 Contents

BurnIt 1.00

The CDR-Software for the Amiga

User - Guide Version 1.0

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Foreword

Legal Stuff

Distribution

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

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1.3 Legal Stuff

Copyright:

Copyright and other legal stuff

Copyright:

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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

Prices :

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Titan Computer Mahndorfer Heerstr. 80a 28307 Bremen Germany

Tel: 0421/481620 Fax: 0421/481620

eMail: deity@informatik.uni-bremen.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: - Amiga 2000/30, Amiga 2000/60, Amiga 3000, Amiga 4000/30 Computer : und Amiga 4000/40 - Oktagon 2008, Blizzard 2060 Controller: - Toshiba XM-4101B, XM-3501B, XM-5201B, XM-5301B, CD-Rom: XM-5401B and XM-3701B - Sony 76S CDR: - Yamaha CDR100, CDR102 - Philips CDD2000 - Sony CDU920S 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 menues / 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 occured 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 parallelly 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 be find under the menu "about...." or on the BurnIt-Disc. Send it to :

DnS Axel Deising

Am Walde 3a 28816 Stuhr Germany
NAME:
ADDESS:
Postcode: Residence:
TEL.: FAX:
Email:
BurnIt 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 BurnIt 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. Titan Computer _____ Tel: 0421/481620 Fax: 0421/481620 DnS ___ Tel: 04206/7127 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. DnS Am Walde 3a D-28816 Stuhr Germany or eMail:deity@informatik.uni-bremen.de siegel@mail.newtwave.de 1.11 The Authors Michael Siegel

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1.12 special

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

- \star Ingo Kleefeld for bug reports, ideas and more
- * Alexander Seesko for bug reports
- \star Marc Czascke for Philips CDD2000 support
- * Thomas Wenzel for Play16
- \star SONY® for SCSI Commands Set
- \star 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

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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 entry will be inserted
Rename :
  current entry can be renamed
The Buttons :
Rename Entry :
  current entry can be renamed (This can take a while in big trees
        if you will rename a directory)
Delete Entry :
  current entry will be deleted. It is NOT possible to insert
  this/these deleted entry(ies). If you delete NO subdirs the structur
```

of the dir-tree must be checked. This can take a long time in big trees. Add Tree : after selecting the directory it will be recursive scanned and added to the current cue. Add File : after selecting a file it will be inserted on current cue-position (multiselect is possible) 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 See also Multisession

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. If you will write a CDTV-CD or CD32-CD the field "System ID" will be ignored and the chars CDTV will be inserted in case of the entered string.

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. When audio is selected and a Wave or AIFF file is selected the structur will be checked displayed. If there is no known type AUDIO is displayed. You have to make the right order for the data that will be written(LSB/MSB). For AIFF and Wave the data will be reordered for every CD-recorder. 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

The new empty directories will be created automatical. Checking this will take a (depending on your machine) long time in big tress. So do not panic.

1.21 window_burnprefs

Write/ISO Preferences

~~~~~~

Here you can make seetings 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-Recoreders 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. Async I/O: Asynchron 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-filesystem. 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. (Could work with firmware bigger 1.01) Destination CD-R: Shows the selected CD-Recorder. Select another by clicking ? Source Drive:

Shows the selected Source-Drive. Select another by clicking ? ReadCDDl 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 characters 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 characters 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. With the RRIP-extension Amiga specific protection-flags and

file-comments are saved. This can only be seen if the filesystem has this option. Uniform 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 : Scan 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 Prefernces

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:

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 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.

Audio-CDs must have a gap of 150 empty blocks(2 seconds). This depends on

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-filesystem.
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 !!!!...

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

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Recover Track ~~~~~~~~~~~~ This part of BurnIt gives you the posibility 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 the 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 complet finalized Session - CDR can be filled with mor data after writing this track(s) : Number of tracks going to be written on CDR. Tracks 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 already existing files : 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 already existing files : 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 with newer date or other size : 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.