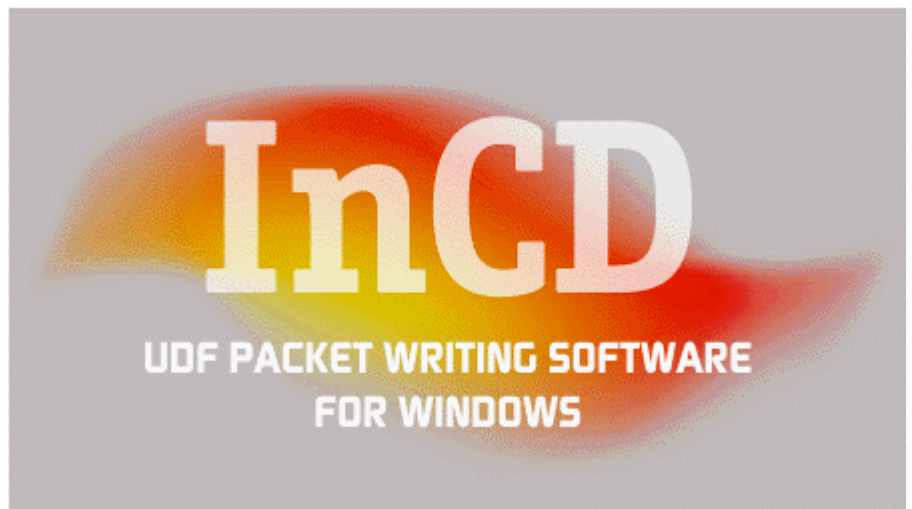

User manual

InCD



ahead

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1 About InCD

1.1 What is InCD?

InCD is a program that formats rewriteable CDs (CD-RW) in such a way that they can be used as hard disks or floppy disks, i.e. so that data files can be saved from any application onto the CD-RW.



InCD works exclusively with rewriteable CDs (CD-RW). CDs which can only be written on once (CD-R) cannot be written using InCD.

1.2 Preconditions for working with InCD

The following preconditions have to be fulfilled before InCD can be used:

Hardware	CD-RW recorder
Software	Windows 95 (from Version B/Service release 2) Windows 98 Windows Me Windows NT 4.0 Windows 2000
Disk type	Rewriteable CD (CD-RW)



A UDF read driver is required so that a CD-RW formatted using InCD can also be read on PCs in which the program is not installed. This driver can be downloaded free of charge from the following website: www.nero.com

1.3 Update

InCD can only be upgraded to its current version if a registered version of InCD 1.6x (or later) or Nero is installed.

1.3.1 Tips for the InCD 1.3 user



InCD does not support the format used by InCD 1.3, i.e. CD-RWs which were formatted using InCD 1.3 cannot be read by InCD 2.x.

1. Copy all data which you have stored with InCD 1.3 onto a hard disk.
2. Uninstall InCD 1.3.
3. Install InCD 2.x. (see chapter 2, 'Installation').



We recommend the following procedure when you need to reformat a CD-RW, which was originally formatted with InCD 1.3, with InCD 2.x.

- Erase the CD-RW using the Nero program. The CD-RW can be quickly and thoroughly erased without any difficulty. (In order to do so, select the 'Erase CD-ReWriteable' command from the 'CD-Recorder' menu and activate the required option.
- Next, format the CD-RW with InCD 2.x. See chapter 'Reformatting the CD-RW'.

2 Installation

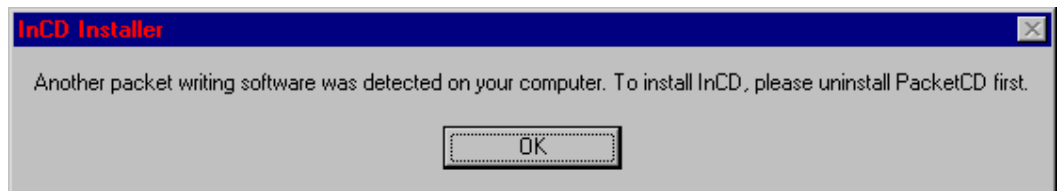
2.1 Introduction

InCD is installed using a multi-installer. This means that the installation process is begun by clicking on the corresponding InCD button of the start window.

The 'Setup.exe' data file required for installing InCD can be found in the CD\InCD\ directory.



InCD is not compatible with other packet writing software. This must, therefore, be uninstalled before InCD is installed. Before installation takes place InCD checks the applications which have already been installed and ends the set-up process if a different packet writing software package is found. If this is the case, a window will appear to draw your attention to this fact.

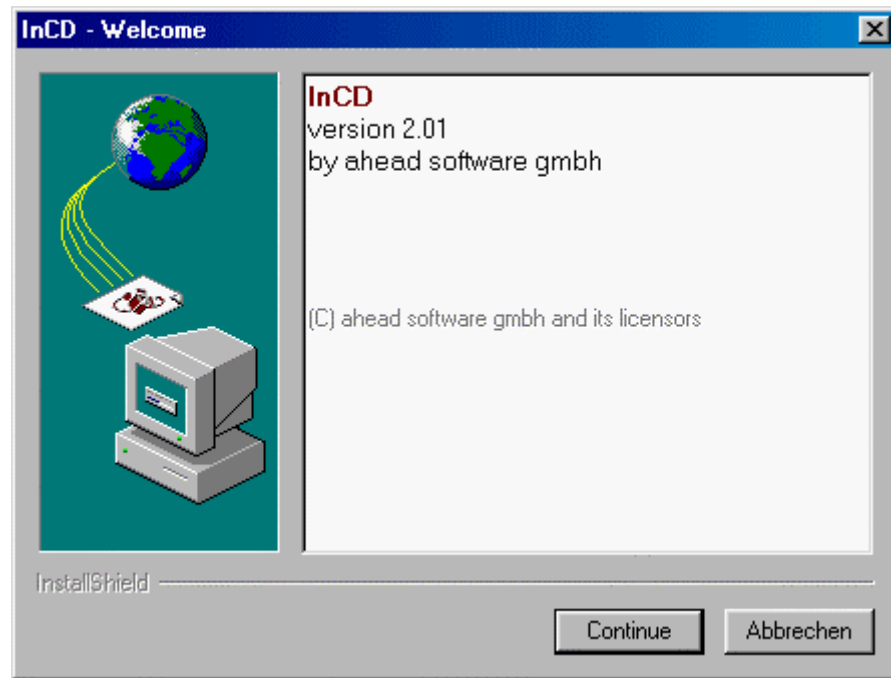


2.2 Installation

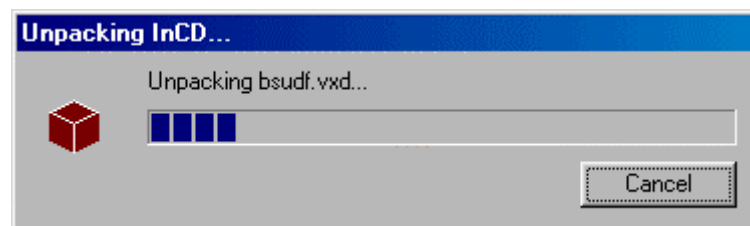


In order to begin installation using Windows NT 4.0 or Windows 2000 you must have administrator rights.

1. Close all Windows programs not required.
2. Insert the CD with InCD into the CD or DVD disk drive.
3. Click on the InCD button of the start window.
4. In order to begin the installation process, click on the 'Continue' button.

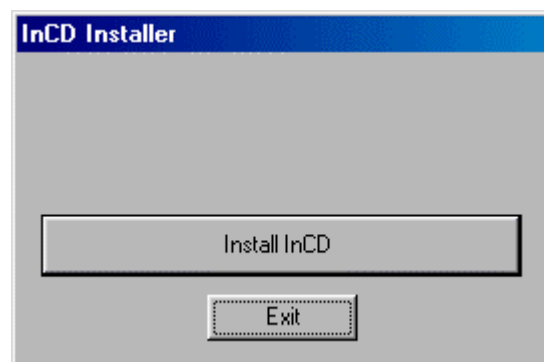


The installation data files are being unpacked.

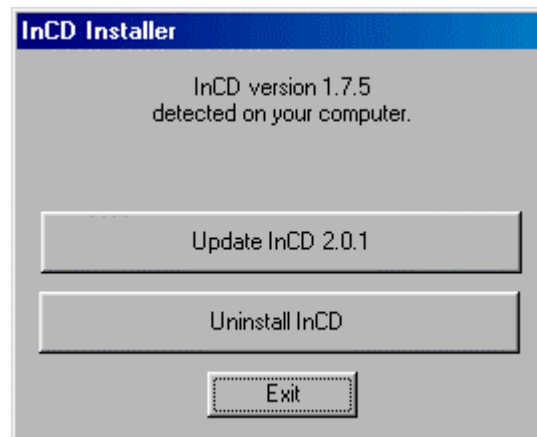


The installation screen will appear when all data files have been unpacked.

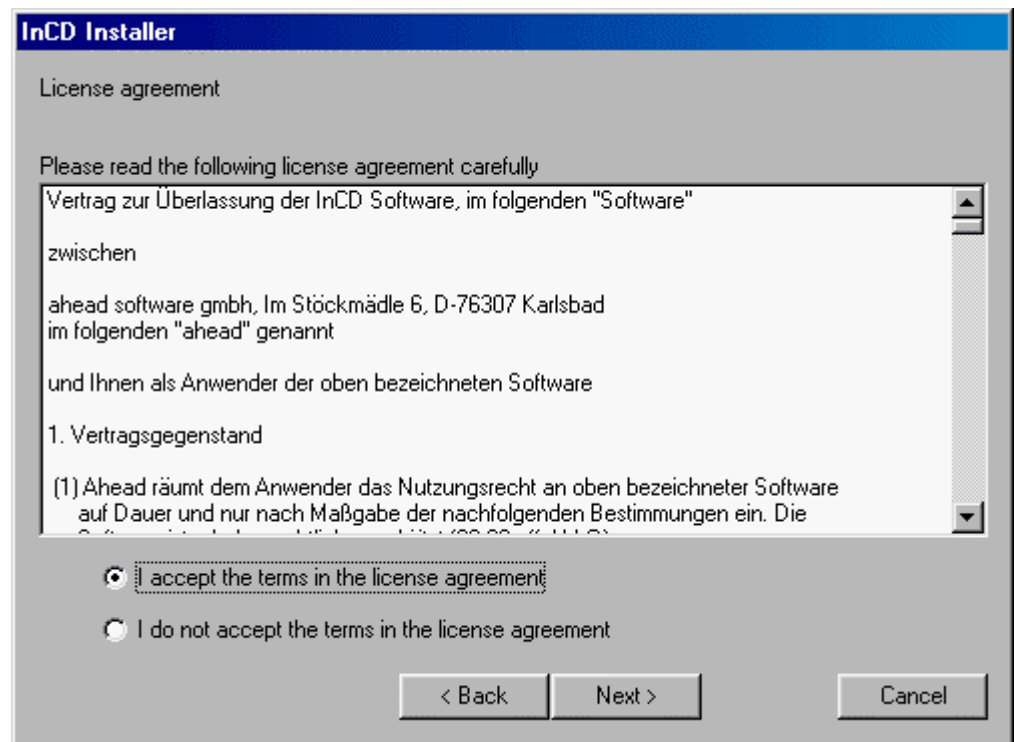
5. In order to install the software, click on the 'Install InCD' button.



If InCD recognizes an existing version, you can update this by clicking on the 'Update InCD 2.x' button.

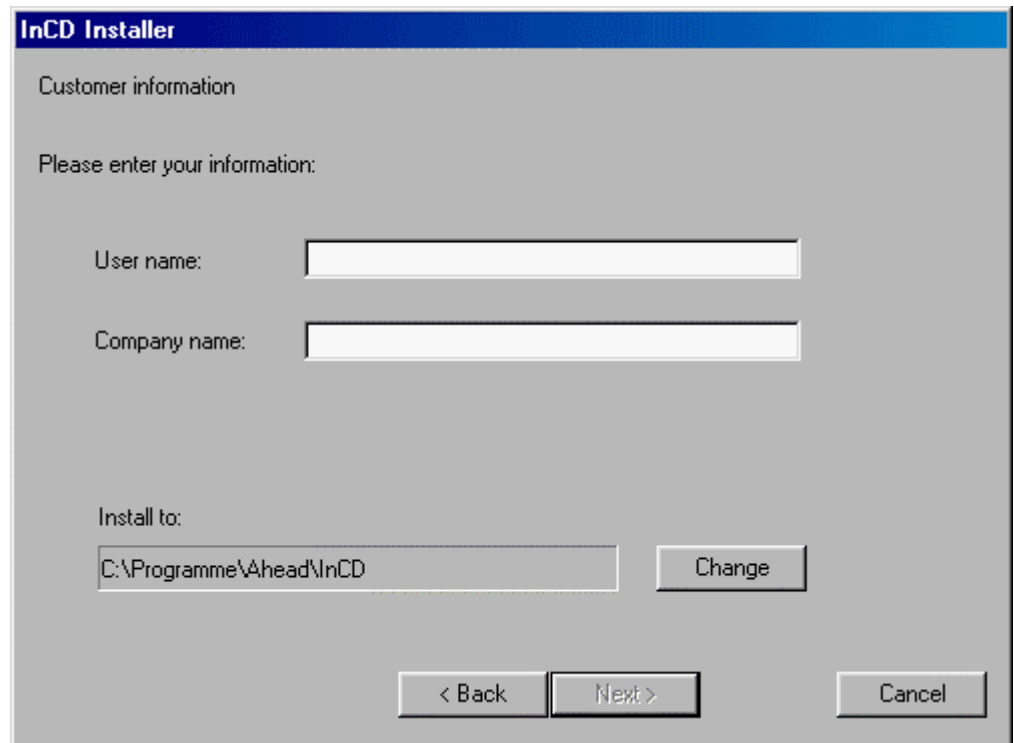


6. Read the provisions contained in the license carefully, and activate the 'I accept the terms of the license agreement' option if you accept them; then click on the 'Next' button.



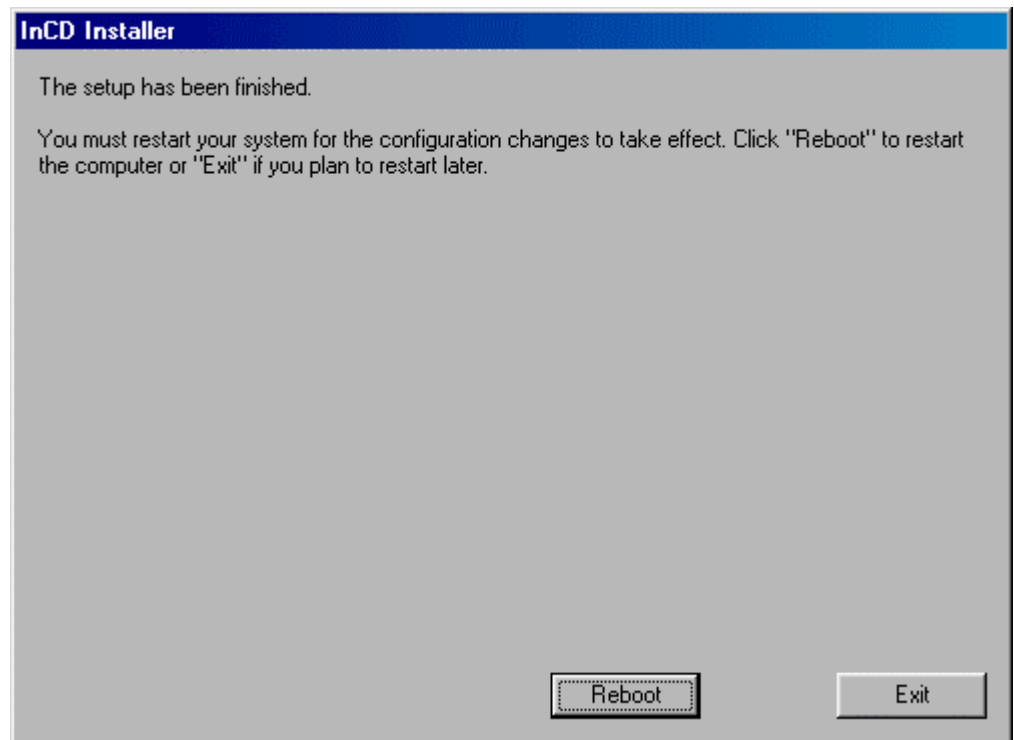
If you do not accept the terms of the license, then you may not install InCD.

7. Enter your name in the 'User Name' field and (assuming InCD has been installed on a company computer) enter that of the company in the 'Company name' field. Because 'Company name' is a compulsory entry (i.e., the field has to contain something) we recommend that the private user repeats his or her user name here.
The preset installation directory is 'C:\Program Files\ahead\InCD'. You may change this directory by clicking on the 'Change' button and by indicating the directory you wish to use. If all details are correct, click on the 'Next' button.



The screenshot shows the 'InCD Installer' window with a blue title bar. The main area is titled 'Customer information' and contains the text 'Please enter your information:'. There are two text input fields: 'User name:' and 'Company name:'. Below these is an 'Install to:' section with a text box containing 'C:\Programme\Ahead\InCD' and a 'Change' button. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'.

8. Before InCD can be used the computer must be restarted.
- ❖ You can restart the computer by clicking on the 'Reboot' button.
 - ❖ The installation process is ended when the 'Exit' button is clicked on. InCD can be used immediately after this is done.



The screenshot shows the 'InCD Installer' window with a blue title bar. The main area contains the text 'The setup has been finished.' followed by 'You must restart your system for the configuration changes to take effect. Click "Reboot" to restart the computer or "Exit" if you plan to restart later.' At the bottom, there are two buttons: 'Reboot' and 'Exit'.

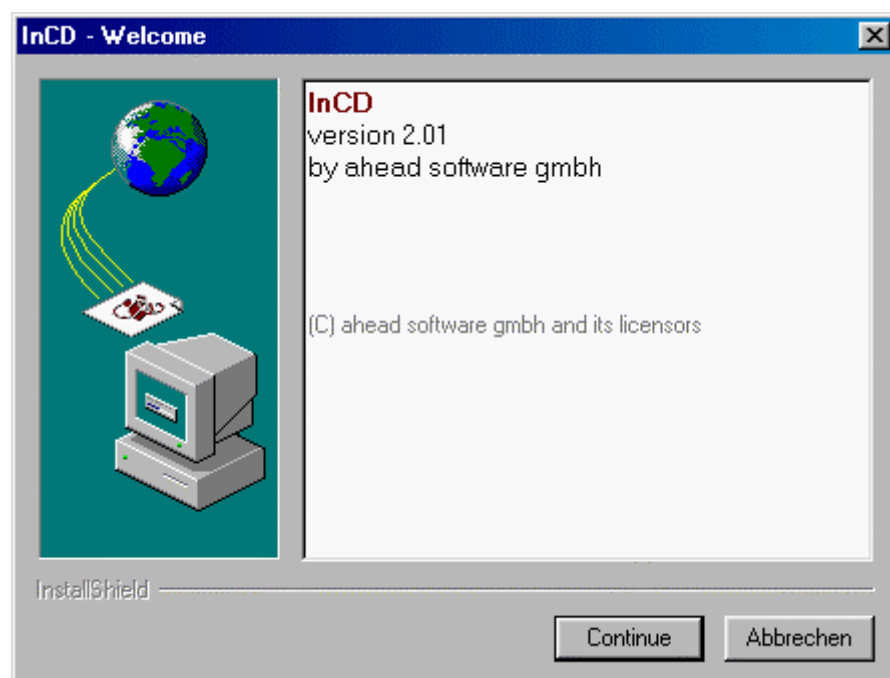
2.3 Uninstalling

The uninstalling process may take place in two ways:

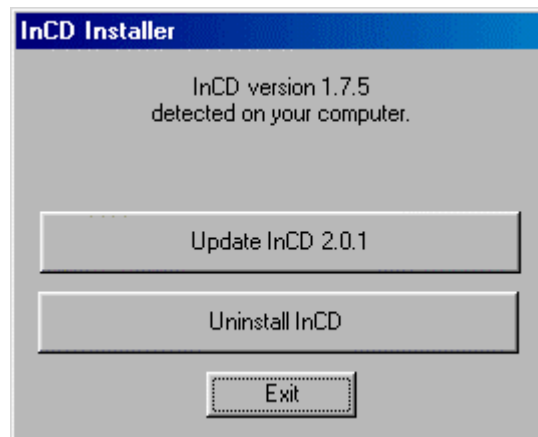
- ❖ Using the installation CD
- ❖ Using the Control Panel

2.3.1 Uninstalling using the installation CD

1. Insert the CD with InCD into the CD or DVD disk drive.
2. Click on the InCD button of the start window.
3. Click on the 'Continue' button.



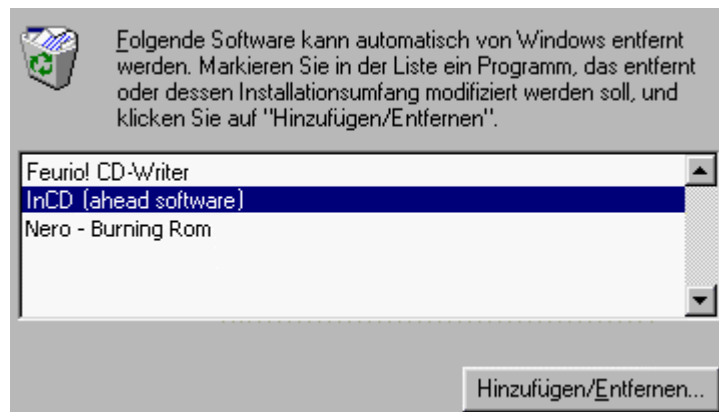
4. As InCD is already installed, the installation program recognizes the existing version. In order to uninstall InCD, click on the 'Uninstall InCD' button. InCD will now be uninstalled automatically without any further prompting. This deletes all the drivers from your PC.



2.3.2 Uninstalling via the Control Panel

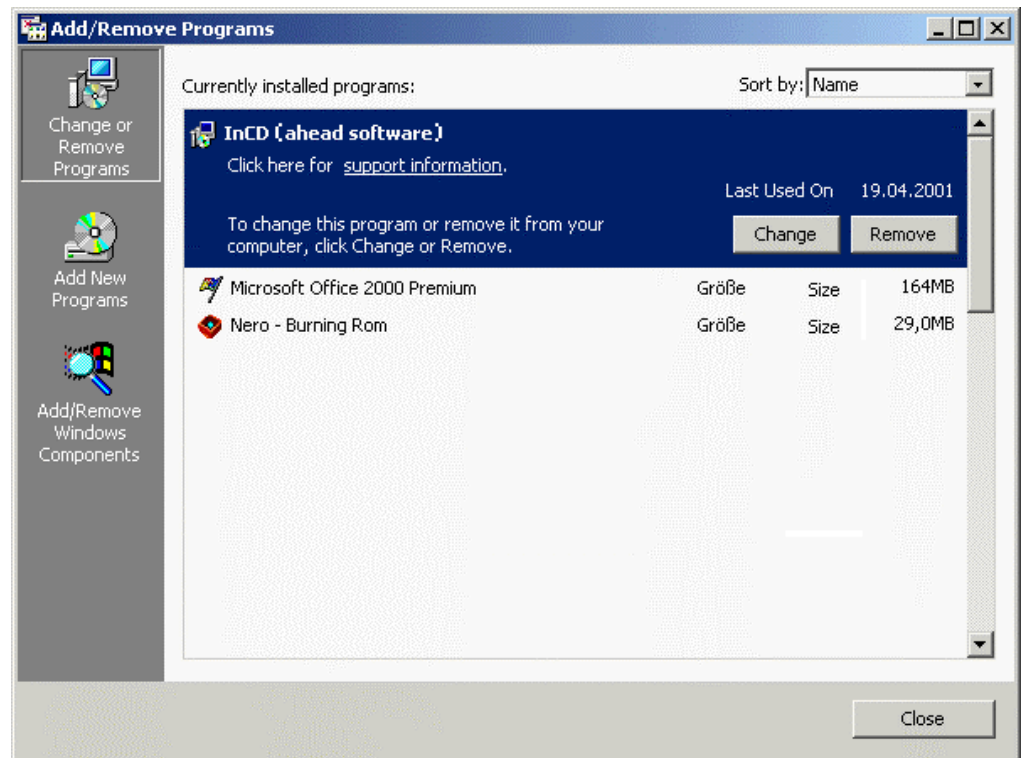
The uninstall screen varies depending on the operating system being used.

1. Select START -> SETTINGS -> CONTROL PANEL -> SOFTWARE
2. Proceed in the following manner when Windows 95/98/Me are being used:
Highlight 'InCD (ahead software)' and click on the 'Add/Delete' button. InCD is uninstalled immediately and, in the future, automatically.



Proceed in the following manner when Windows NT and 2000 are being used:

Highlight 'InCD (ahead software)' and click on the 'Remove' button. InCD is uninstalled immediately and, in the future, automatically. InCD will now be uninstalled automatically without any further prompting. This deletes all the drivers from your PC.



3. Close both 'Software properties (or software)' and 'Control panel' windows.

3 Working with InCD

3.1 Program start

Once the computer has been booted, InCD starts automatically. This means that no special linkage appears on the computer.

The InCD symbol can be found in the Task Bar located on the bottom right edge of the screen. The InCD symbol supplies information relating to the CD in the disk drive, or relating to the disk drive itself.



There is no CD or no UDF-formatted CD-RW in the disk drive.



There is a UDF-formatted CD in the disk drive.



No CD-RW recorder which is compatible with InCD is installed.



If the control field 'Do not display startup and CD-RW mount messages' is not activated on the 'InCD Page Settings' register card, an additional information window will appear if the disk drive contains a UDF-formatted CD-RW. This window contains information relating to the built-in CD-RW recorder and to the disk drive for this recorder.



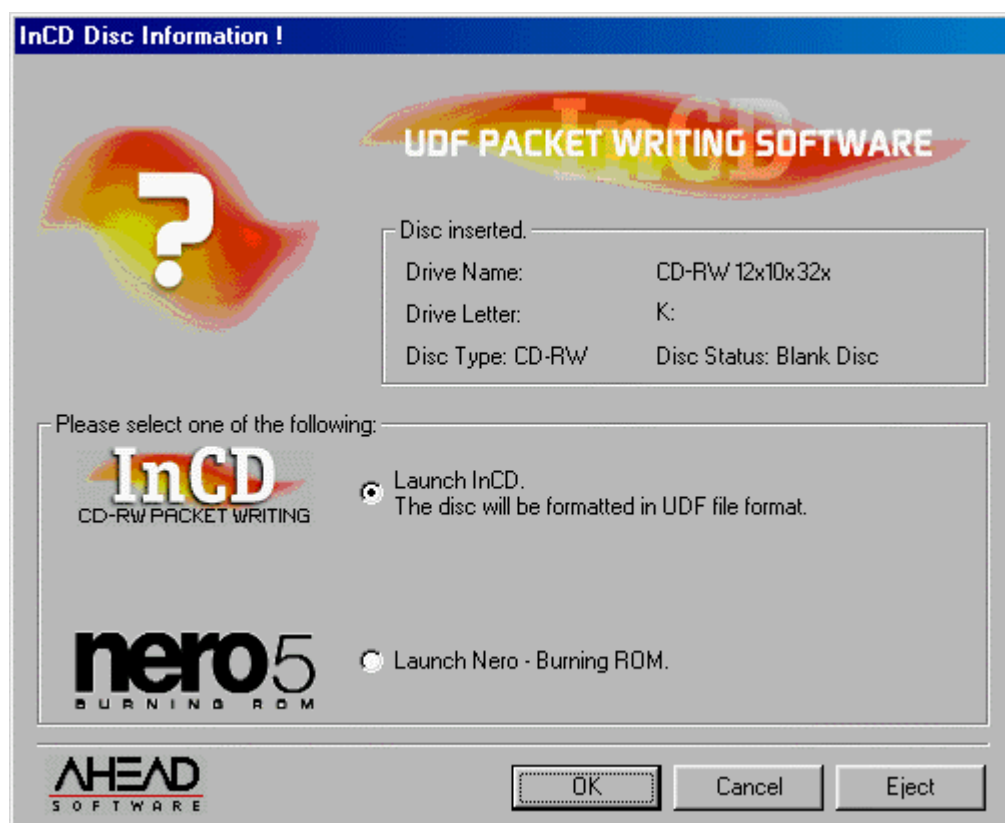
3.2 Inserting the CD-RW

1. In the built-in CD-RW recorder, click on the corresponding key. The tray will open.
2. Insert the CD-RW into the disk drive.
3. In order to close the tray, click on the corresponding key in the CD-RW recorder.

3.3 Formatting the CD-RW for the first time

Before being used for the first time, a CD-RW must be formatted like a floppy disk or a hard disk. The CD-RW can be given a name; this name should be made up of at most 11 characters.

If you have installed Nero and if there is an unformatted CD-RW in the CD-RW recorder when the computer is being booted, then window will appear in which you can select the program to be started.

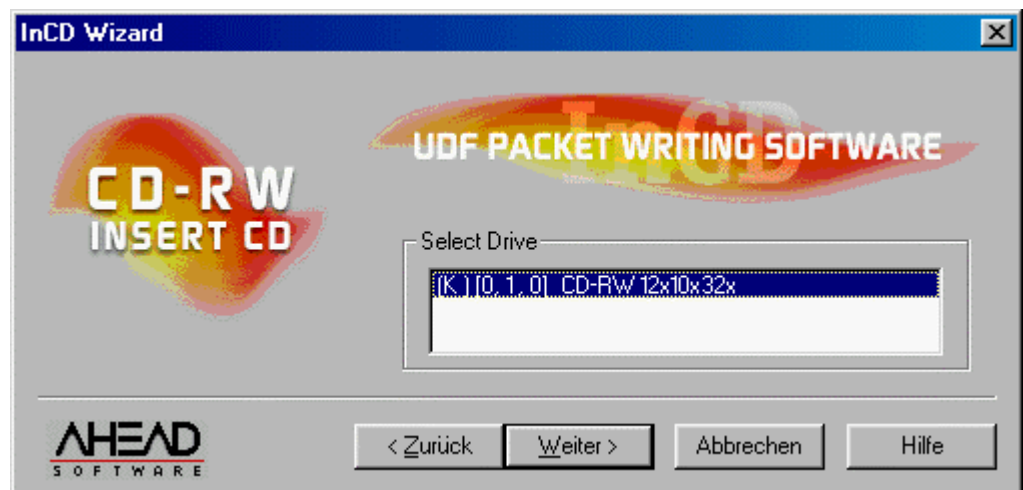


While the formatting process is taking place, no other commands may be executed.

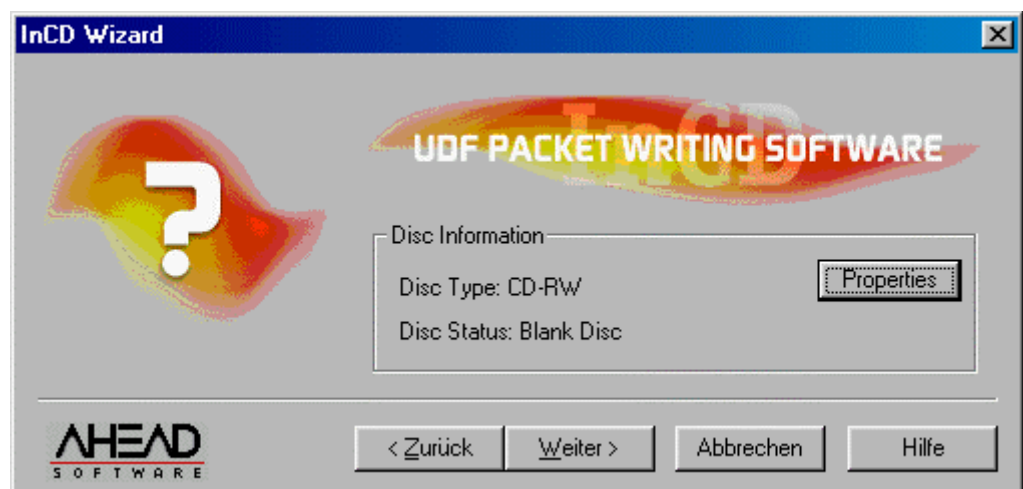
1. Insert a CD-RW into the CD-RW recorder.
2. Using the right (!) mouse button, click on the InCD symbol in the Task Bar and select the 'Format' command. The formatting wizard will now open. Next, click on the 'Continue' button.



3. If only one CD-RW recorder is installed, this is automatically highlighted (if several are installed, you may also highlight the CD-RW recorder of your choice). Next, click on the 'Continue' button.



4. The window which appears supplies information relating to the status of the CD-RW; an unformatted CD-RW is designated as a 'Blank Disc'. Click on the 'Continue' button.

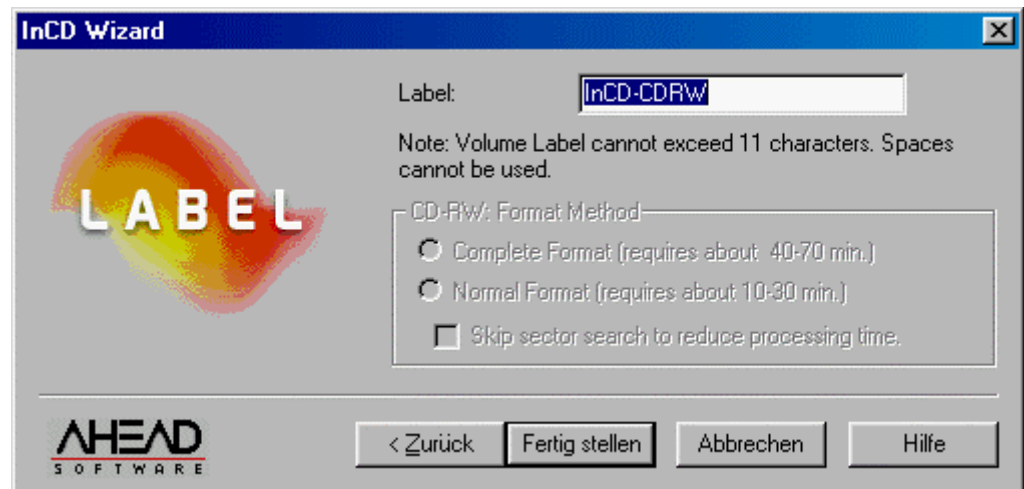




When the 'Properties' button is clicked on, the corresponding command is executed; both affiliated register cards are opened.

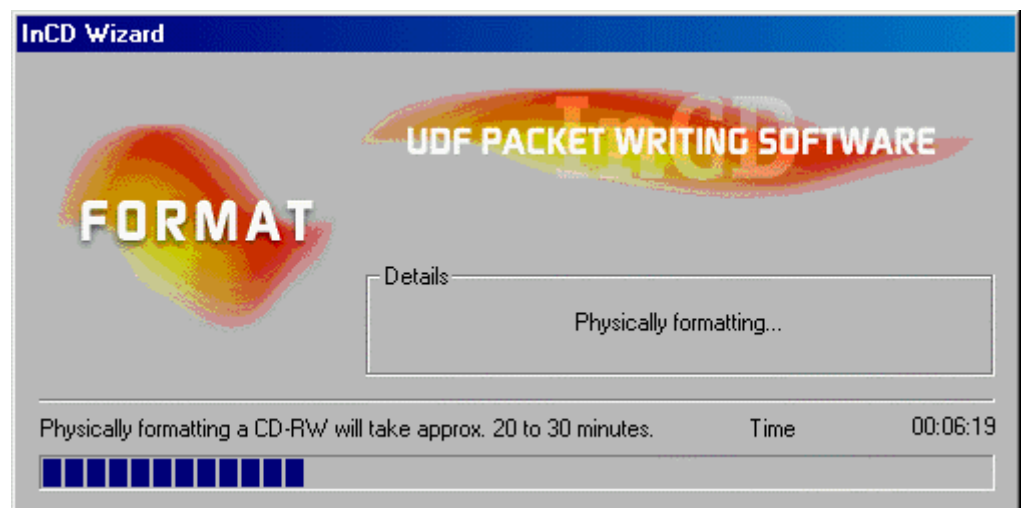
The 'Safety Mode (Verify data after writing onto CD-RW)' control field in the options section of the 'InCD Page Settings' register card determines the formatting possibilities available. Detailed information on this matter can be found in the 'Options' chapter.

5. If you so wish, enter a name for the CD-RW in the 'Label' field. The name should contain at most 11 characters, with no blank spaces between any of the characters. Since an unformatted CD-RW has been inserted, the reformatting options are not activated. Next, click on the 'Complete' button.

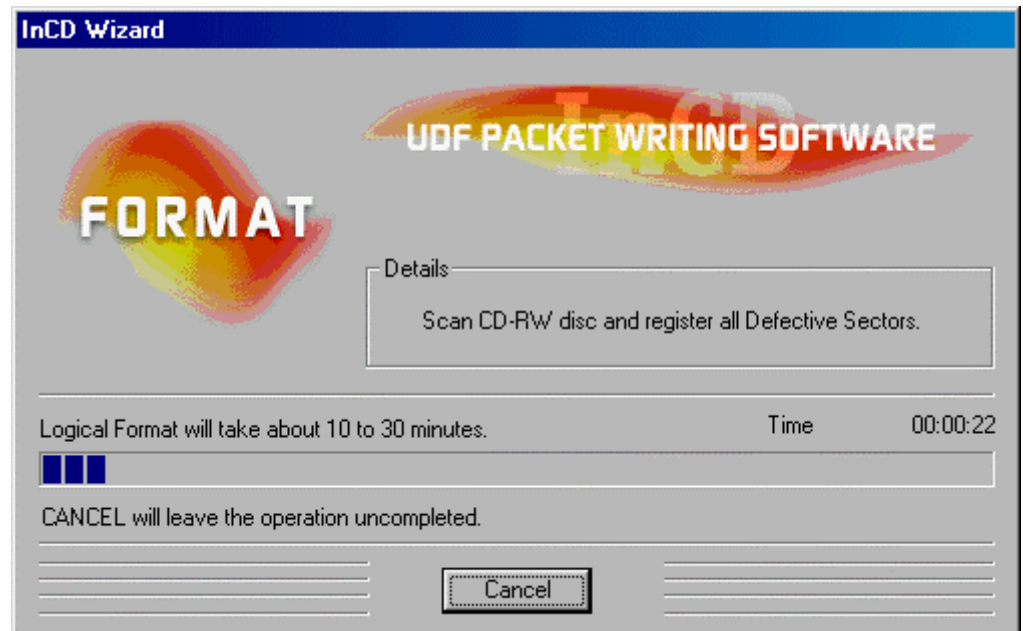


The formatting process is completed in two stages. The CD-RW is, firstly, physically, then logically formatted.

Depending on the CD-RW recorder used, the physical formatting process lasts for between 20 and 30 minutes.



The logical formatting process, which takes place subsequently, lasts for between 10 and 30 minutes.

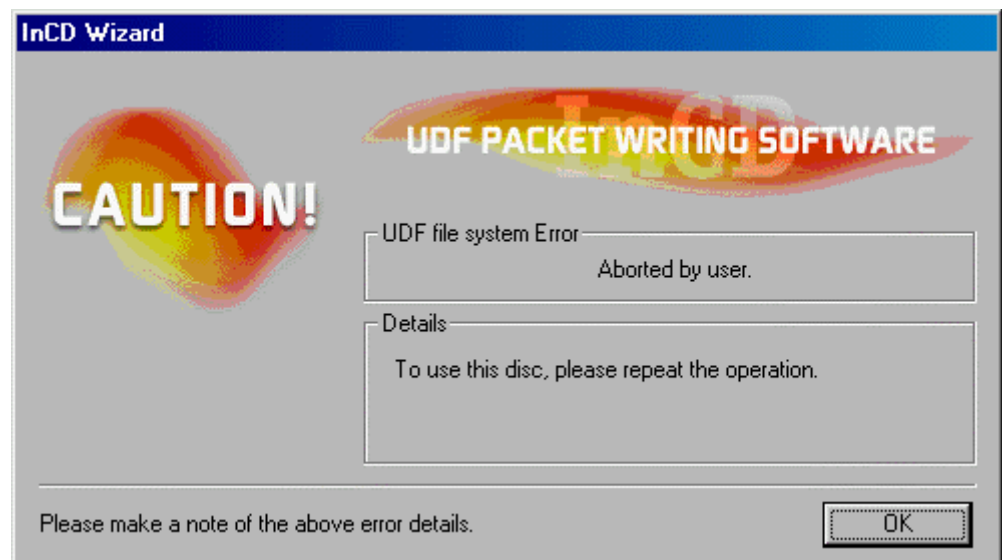


You are not informed when the formatting process ends; however, the InCD symbol in the Task Bar changes. A symbol, in the form of a green arrow, indicating that the CD-RW has been formatted, now appears; this is in contrast to a red arrow, the symbol for an unformatted CD-RW.



If the 'Cancel' button is clicked on, the logical formatting process will be interrupted. The CD-RW is not ready to be written on.

The tray now opens and a window appears.



3.4 Reformatting the CD-RW

If a CD-RW which already contains data is formatted, then the data already contained on it will be erased so that the whole CD-RW will be ready to be written on again.

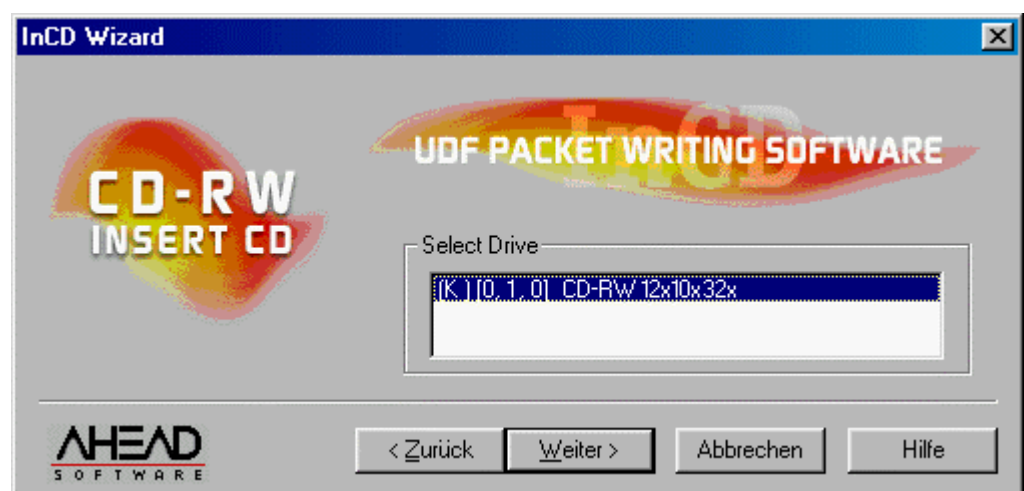


While the formatting process is taking place, no other commands may be executed.

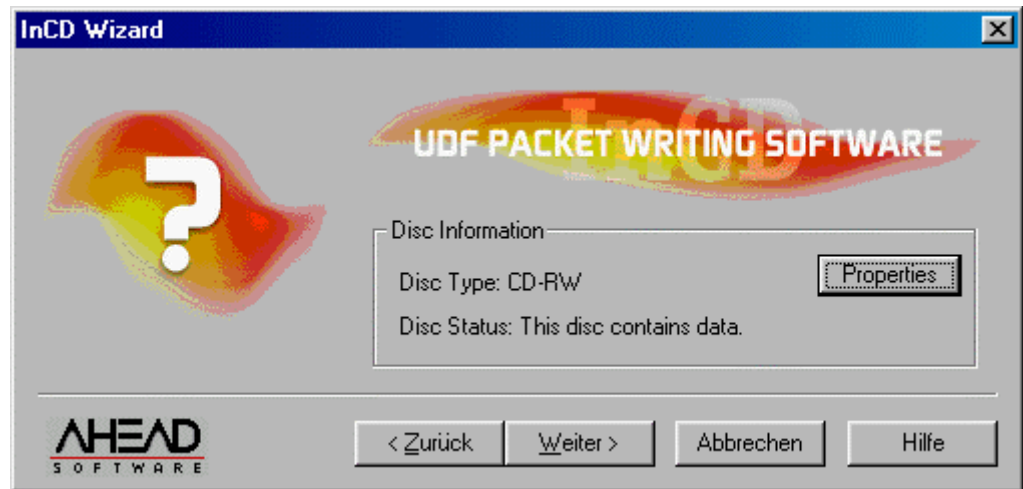
1. Insert a CD-RW which has been written on into the CD-RW recorder.
2. Using the right (!) mouse button, click on the InCD symbol in the Task Bar and select the 'Format' command. The formatting wizard will now open. Next, click on the 'Continue' button.



3. If only one CD-RW recorder is installed, this is automatically highlighted (if several are installed, you may also highlight the CD-RW recorder of your choice). Next, click on the 'Continue' button.



4. In order to begin the formatting process, click on the 'Continue' button. If data is already contained in the CD-RW, the phrase 'This disc contains data' will appear in the information box.

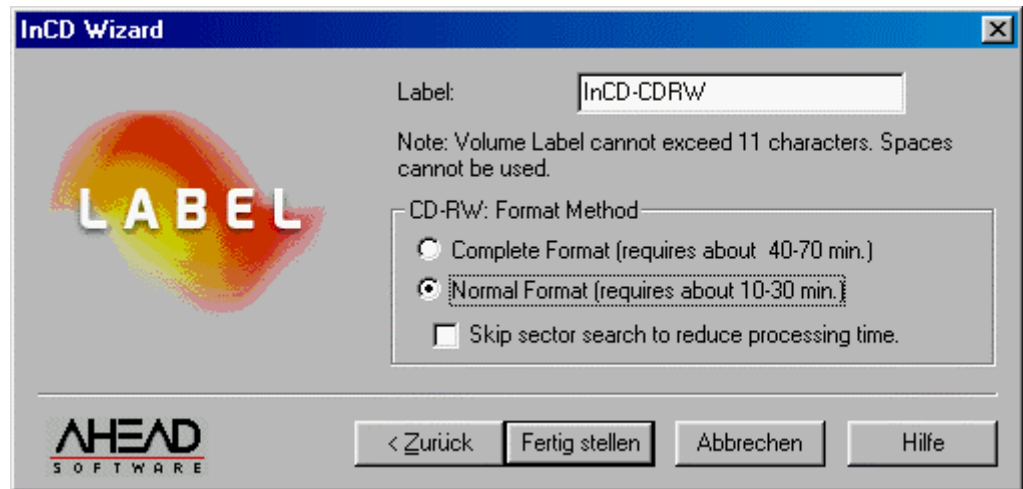


When the 'Properties' button is clicked on, the corresponding command is executed; both affiliated register cards are opened.

The 'Safety Mode (Verify data after writing onto CD-RW)' control field in the options section of the 'InCD Page Settings' register card determines the formatting possibilities available. Detailed information on this matter can be found in the 'Options' chapter.

5. The window which appears supplies information relating to the status of the CD-RW. If the CD-RW has already been formatted you can decide how it should be reformatted. Activate the option of your choice, then click on the 'Complete' button.

Complete Format:	The CD-RW is, firstly, physically, then logically formatted. While this process is taking place, all data contained on the CD-RW is erased.
Normal Format:	The CD-RW is only logically formatted. This means that only the information relating to the data contained on it is erased, not the data itself. The CD-RW looks as if it has not been written on, although this is not the case. Since the data can be recreated by experts, this formatting method is not suitable, e.g. in cases where confidential data is contained on the CD-RW.
Skip sector search to reduce processing time:	This control field is only active and, therefore, selectable if the 'Normal formatting' option has been selected. This option prevents any sector searches from being carried out before the formatting process takes place. This in turn leads to a significant reduction in the formatting time.



You are not informed when the formatting process ends; however, the InCD symbol in the Task Bar changes. A symbol, in the form of a green arrow, indicating that the CD-RW has been formatted, now appears; this is in contrast to a red arrow, the symbol for an unformatted CD-RW.

3.5 Ejecting the CD-RW

A formatted CD-RW can be ejected by InCD when the 'Eject' command is selected. An unformatted CD-RW can be ejected when the corresponding key on the CD disk drive is clicked on.

1. Place the mouse arrow on the InCD symbol in the Task Bar and click on the right (!) mouse button.
2. In the pop-up menu, select the 'Eject' command. The tray opens. The CD-RW can now be removed.
3. In order to close the tray, click on the corresponding key in the CD disk drive.



The CD-RW can be ejected using Windows Explorer. In order to do so, highlight the disk drive, click on the right mouse button and select the 'Eject' command.

3.6 Exiting InCD

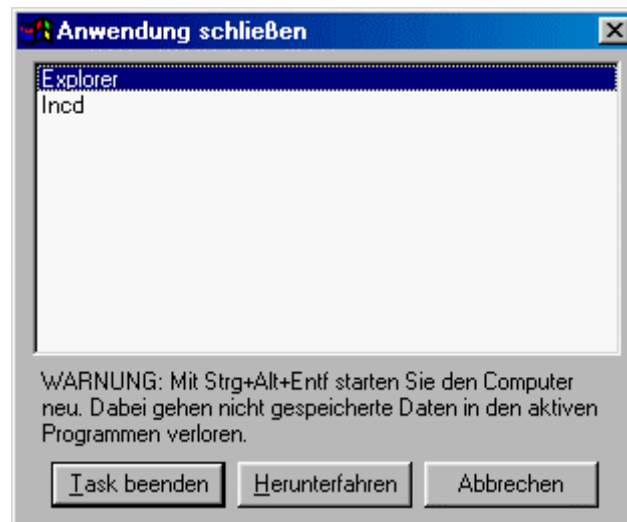
InCD starts automatically when the computer is booted and should always be active in the background. Should you no longer wish to use InCD, we recommend that you uninstall the program (see 'Uninstalling' section).



If this method is not successful, you can exit InCD via the Task Manager. However, sometimes it might not be possible to close the CD-RW, and all data might consequently be lost. The procedure described for exiting InCD via the Task Manager should really only be used as a last resort in an emergency.

Proceed in the following manner:

1. Open the Task Manager by holding down the 'Ctrl', 'Alt' and 'Delete' keys simultaneously.



2. Highlight 'InCD' and click on the 'End task' button. The Task Manager is closed and the InCD symbol on the Task Bar disappears.



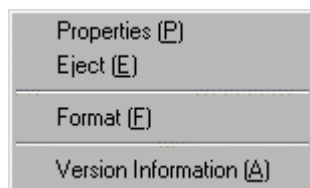
InCD can be restarted by double-clicking on the 'InCD.exe' data file. You do not have to reboot the computer.

4 Commands

4.1 Introduction

All commands can be called up when the mouse arrow is placed on the InCD symbol in the Task Bar and the right (!) mouse button is clicked on. Commands are executed by highlighting with the mouse or by entering the letter contained in the brackets.

The following commands are available:



- ❖ Properties
- ❖ Eject
- ❖ Format
- ❖ Version information



The 'Format' command only appears when a CD-RW has been inserted into the disk drive.

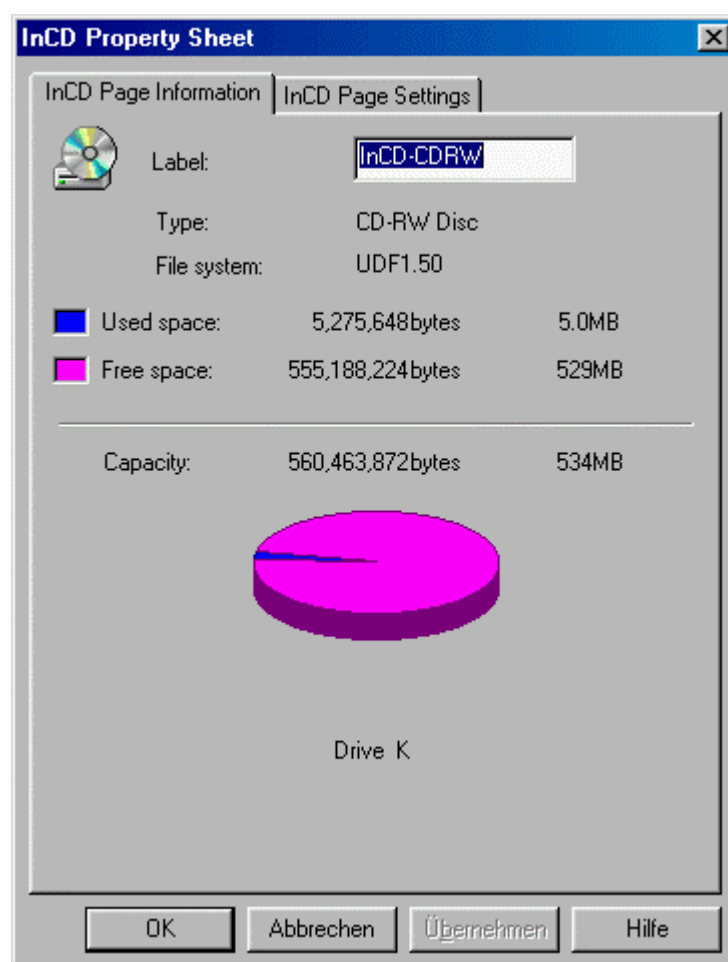
4.2 Properties

The 'Properties' command opens two register cards which contain more detailed information on the CD-RW which has been inserted.

4.2.1 InCD information

The 'InCD Page Information' register card contains the following information:

Field	Content
Label	Name of data carrier
Type	Type of CD
File system	File system ('UDF1.50' appears when the InCD packet writing package is used)
Used space	Used storage space
Free space	Storage space still available
Capacity	Capacity of CD-RW
Drive	CD-RW recorder's disk drive letter



It is possible to change the name of the CD-RW by entering a new one (this should consist of at most 11 characters and contain no blank spaces). The 'Apply' button becomes active when the name is being changed.

When the 'OK' button is clicked on, the changes are saved and the register card is closed. When the 'Apply' button is clicked on, the changes are saved and the register card is displayed once more.



This register card can be displayed using Windows Explorer. In order to do so, highlight the disk drive, click on the right (!) mouse button and select the 'Properties' command. If the register card is called up in this way, it is now designated as 'General' as opposed to 'InCD' Page Information'.

4.2.2 InCD settings

The 'InCD Page Settings' register card contains setting facilities which determine the way in which the CD-RW recorder will behave.

The screenshot shows the 'InCD Property Sheet' dialog box with the 'InCD Page Settings' tab selected. The dialog is divided into several sections:

- Drive Information:** Drive Name: CD-RW 12x10x32x, Target ID: 1
- Driver Information:** Driver Version: 2.01-20001226
- Options:** Two checkboxes: 'Do not display startup and CD-RW mount messages' (unchecked) and 'Safety Mode (Verify data after writing onto CD-RW)' (unchecked).
- Drive Speed Settings:** Read Speed: 32x (dropdown menu), Write Speed: 10x (dropdown menu).
- BURN-Proof:** A checkbox 'Avoids buffer underruns' (unchecked).

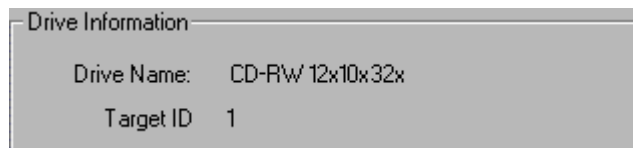
At the bottom, there are four buttons: 'OK', 'Abbrechen', 'Übernehmen', and 'Hilfe'.



This register card can be displayed using Windows Explorer. In order to do so, highlight the disk drive, click on the right (!) mouse button and select the 'Properties' command.

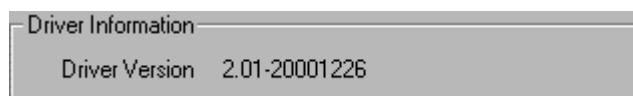
4.2.2.1 Information relating to the CD-RW recorder

The 'Drive Information' area contains information relating to the CD-RW recorder installed, the firmware as well as the CD-RW recorder's ID.



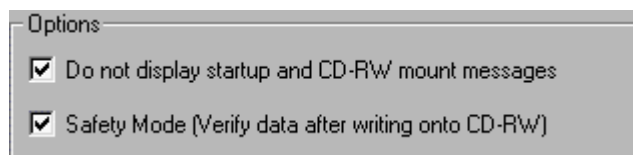
4.2.2.2 Driver information

The 'Driver Information' area contains information relating to the installed InCD driver.



4.2.2.3 Options

The 'Options' area contains two control fields.



When the 'Do not display startup and CD-RW mount messages' control field has been set, the following occurs:

Activated:

When InCD has been started an InCD window is visible for a short time, and when a CD-RW is inserted the following window appears if a mounted CD-RW has been inserted into the CD-RW recorder:



Deactivated:

When InCD has been started no window appears to indicate that the program has been started, and when a CD-RW is inserted, no window appears if a mounted CD-RW has been inserted into the CD-RW recorder.

If the 'Safety Mode' (Verify data after writing onto CD-RW)' control field is set, the following happens:

Deactivated:

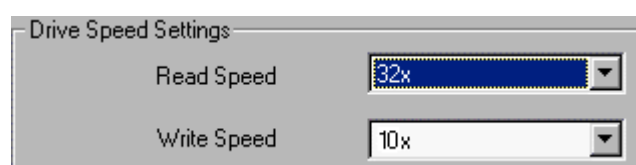
The copied data is not verified, i.e. it is not checked.

Activated:

After the CD-RW has been written on, InCD checks whether or not the copied data files are the correct one. Selection of this option reduces the writing speed.

4.2.2.4 Speed settings

The CD-RW's read speed and write speed can be set in the 'Drive Speed Settings' area.



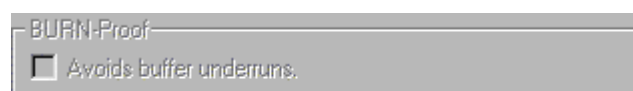
The CD-RW's maximum speeds are selected according to standard. If you wish to change the speed, click on the corresponding drop down button and highlight the speed of your choice.



The speeds possible are dependent on the CD-RW used and on the CD-RW recorder installed. The use of high-speed CD-RW's is only possible with CD-RW recorders that are capable of processing them.

4.2.2.5 BURN-Proof

The 'Avoids buffer underruns' control field can only be active if the CD-RW recorder supports this function. It has the following effects:



Activated:

This prevents errors which could be caused when the buffer is being emptied from occurring.

Deactivated:

No special measures are taken to prevent errors from occurring when the buffer is being emptied.

4.3 Ejecting

The 'Eject' command causes the inserted CD-RW to be ejected. If a formatted CD-RW has been inserted into the disk drive, this can be ejected only when the 'Eject' command is used. Unformatted CD-RWs can also be ejected when the corresponding key on the disk drive is used.

4.4 Formatting



While the formatting process is taking place, no other commands may be executed.

The 'Formatting' command causes the formatting wizard to open.

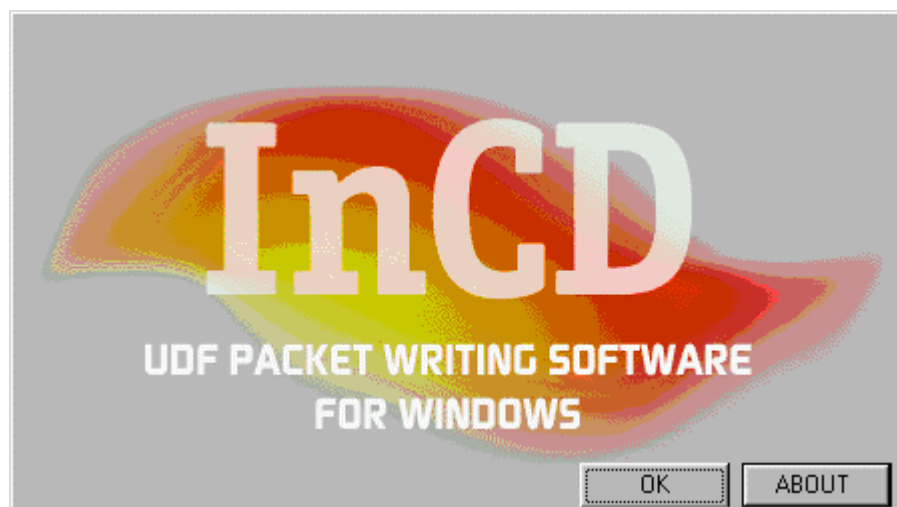


No further descriptions of how CD-RWs may be formatted will be given in this chapter. You can find detailed information on this topic in the 'Formatting the CD-RW for the first time' and 'Reformatting the CD-RW' chapters.

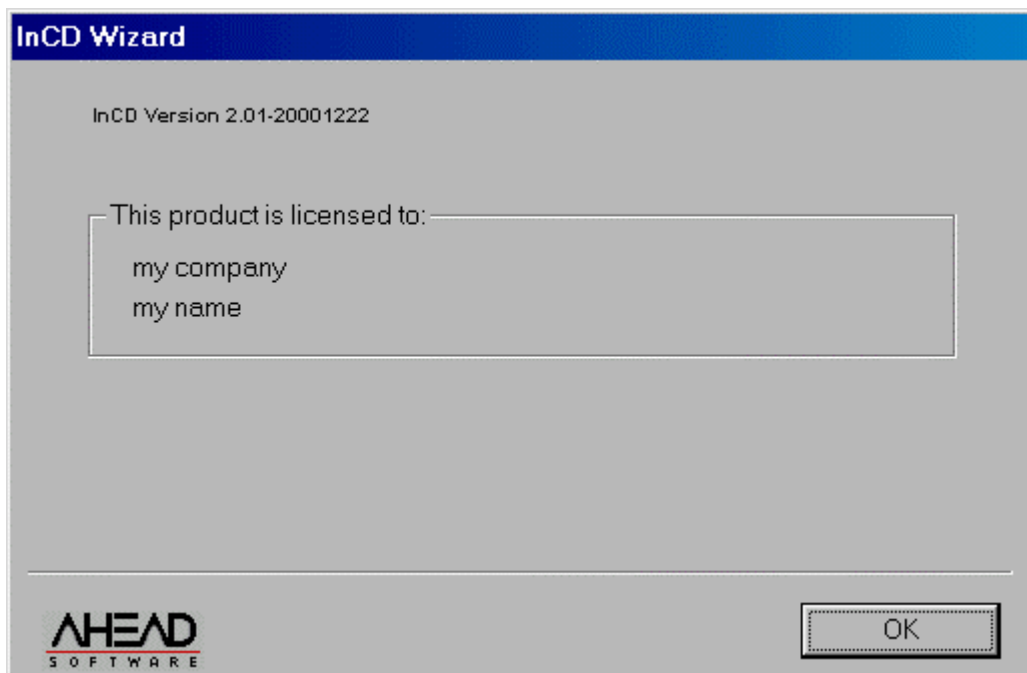
4.5 Version information

When the 'Version information' is selected, two windows open.

The first window contains the name of the software – 'InCD'. You can close the window by clicking on the 'OK' button.



You can open the second window by clicking on the 'ABOUT' button. The InCD version number and the registered license number are shown in this window. To close this window, click on the 'OK' button.



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