

CD Right!

***CD creation software
just Right for you***

USER'S GUIDE

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CD Right! Overview

CD RECORDING FOR THE REST OF US

Congratulations on acquiring Sony CD Right! , the first CD-R software which truly enables “CD recording for the rest of us.”

Derived from years of experience in the design of CD mastering software, CD Right! is a Win32 (Microsoft Windows 95[®] and Windows NT[™]) software application for CD-Recordable (CD-R) drives. It represents the latest advancements in the technology in terms of ease-of-use combined with outstanding functionality.

CD Right's “2 Click-Cut” interface has been designed using the latest advances in Windows 95 shell integration techniques while maintaining a standard interface look and feel. The result is a incredibly easy to use CD creation tool. If you know Microsoft Windows 95, you'll quickly know CD Right!

Don't be misled, however, by its ease-of-use. At the heart of this world-class product is an engine that is sufficiently powerful for the most demanding of users.

Please take a moment to read this manual in order that you familiarize yourself with the key aspects of CD Right! We trust that you will agree that “Finally, someone got it right”!

WHAT YOU CAN DO WITH CD RIGHT!

CD Right! is a "general purpose" CD creation application which allows you to perform both basic and complex recording operations with CD recorder (CD-R) drives. Specifically, CD Right! empowers you to:

- **Duplicate your own recordable discs or make a backup copy of an existing silver Compact Disc**, reading from one CD-ROM or CD recorder drive, and recording directly to another CD recorder without making any temporary file on your hard disk.
- **Copy Compact Discs** using the same CD recorder for reading and writing by making a temporary copy of the disc on hard disk.
- **Record data CD-ROMs** in the universally compatible ISO-9660 format. This means dragging your folders and files into the CD Right! window and then beginning the recording process. This can be done using completely blank or partially used recordable discs thanks to the multisession capability of CD Right! Multisession recording can be accomplished by making a new "volume" in the blank space, i.e. ignoring what was already on the disc, or by "loading from the previous session", i.e. adding only new or updated files to save space.

- **Create audio compilations** from songs present on your hard disk as Wave files or from other audio discs inserted in the CD-ROM of your computer. This audio compilation is done all at once. You start with a blank CD-R disc and record the entire set of songs. You should regard this as a complete “opera” made in a single step. If you record directly from other audio Compact Discs, these Compact Discs must be online. CD-ROM disc changers are great to make complex compilations from many source discs. Otherwise you can extract the songs from your hard drive.
- **Use your CD recorder like a cassette recorder** by using the **CD Ditto DJ** function. Starting with a blank CD-R disc, you can record Wave files or sound tracks from other audio Compact Discs. You can even record directly from your sound board more than one hour of radio music or any music coming from any sound device attached to the sound board’s line-in jack. Such a disc can be started today and continued tomorrow by adding more songs (tracks). Before a disc is finished, it can be played in the CD Recorder using CD Ditto DJ. When the disc is complete and “finished”, it can be played in any audio CD player as a standard audio Compact Disc.

Getting Started

This User Guide provides instructions on how to record to CD with CD Right! It contains a convenient, timesaving "Quick Guide" chapter. For a more detailed explanation, please refer to the "How to..." topics in the **Online Help**. If you are new to CD recording, we recommend that you start from these "How to..." topics, browsing them on your computer.

The "Quick Command Reference" in this guide describes briefly the menu structure. In the online Help you will also find a complete reference for each command providing a detailed explanation for all the program menu functions. The later Chapters are about special advanced functions. The last chapter, "Errors and Troubleshooting", will help you if a problem arises.

TO INSTALL

CD only

Please insert the Sony CD Right! disc in your drive and wait for the “autostart” display. In this autostart window you can launch the CD Right! installation. If the autostart is not active on your computer (e.g. the Auto Insert Notification is turned off on the drive), look in **My Computer** for the icon of the CD drive that says “SonyCDRight”. Double click on this icon to open, and then double click on the “CDRight!Setup.exe” file to launch the installer.

On CD and On Floppy

If you received both a CD and a floppy, please follow the instructions given above, but remember to **put the floppy in your A: drive before launching the CD Right! installation**. This way you ensure that the installation from the CD will detect updated modules in the floppy and install the most recent version.

TO UNINSTALL

Use the standard uninstall feature in **Add/Remove Programs** in the Control Panel. When it is uninstalled, CD Right! does not leave anything behind in the system.

If you want to know more about what the installation does and where the files are, please consult the online Help.

HOW TO TURN OFF/ON THE AUTO INSERT NOTIFICATION

The Auto Insert Notification is a feature of the Microsoft Operating Systems. While it can be very helpful in some cases, it can also be very damaging for the CD recording process.

You can use the **Tools** functions in CD Right! to turn off and on the Auto Insert Notification. You will need to reboot your system to enable the change to take effect.

Note: Having Auto Insert Notification turned off tends to make Windows reluctant to refresh the contents information when a new disc is mounted. You may need to press F5 a few times to force a full refresh.

If you want to use the standard Windows interface to enable or disable Auto Insert Notification, you can do that in Windows 95:

- Right-click on **My Computer** on the desktop.
- Select **Properties** from the menu
- Click on the **Device Manager** tab.

- Expand the **CD-ROM** icon (click the plus sign or double-click the icon) and select the Drive you are interested in
- Click on the **Properties** button and then on the **Settings** tab of the following dialog.
- Deselect or Re-select the **Auto Insert Notification** checkbox
- Click **OK** and then **OK** again, and you will be asked to reboot.

To learn more about Auto Insert Notification, see the Online Help.

Quick Guide

The following paragraphs offer step-by-step instruction on how to complete quickly and successfully the key functions found in CD Right! Please follow these steps by-the-number when in front of your computer with CD Right! launched.

CD COPY

To make a CD Copy means to physically duplicate a disc onto a blank recordable one. To copy a CD, you need a good, clean, unscratched original and one blank CD-R disc.

Note: The source disc could contain material that is protected by Trademarks and Copyrights. Please, be sure you are authorized with the right to replicate it.

You can copy from the CD-ROM you have in your system or you can use the same CD recorder as the source.

Copying From Another CD-ROM Drive:

- 1 Click on the **CD Copy** button of the main menu.
- 2 Insert the **original** in the CD-ROM, select the **From** field mode, then insert the blank disc in the CD recorder.

- 3 Wait until both the CD-ROM and CD recorder become ready and indicate, using the explanations in red, the correct disc descriptions.
- 4 Press the **Record** button (the red dot) in the toolbar.
- 5 In the following Record to CD dialog select the Speed and whether you want to **Test**, **Test and Record** or **Record**.
- 6 Wait until the recording process completes.

Copying From the Same CD Recorder

- 1 Click on the **CD Copy** button of the main menu.
- 2 Insert the **original** in the CD recorder and select it in both the **Recorder** and the **From** fields.
- 3 Wait until the CD recorder is ready. The description of the original disc is indicated in red text.
- 4 Press the **Record** button (the red dot) in the toolbar.
- 5 In the following Record to CD dialog select the Speed and whether you want to **Test**, **Test and Record** or **Record**.

- 6 The original is read into the **temporary folder** and the CD recorder ejects the original. Now you must insert the blank disc. At this point there is no need to do anything further.

Note: If there is not enough space in the **temporary folder**, (the default is the Windows temporary) and you have enough room on another hard disk, you can change the CD Right! temporary location in the **Options** under the **Tools** menu.

- 7 The blank disc is recognized, the recording process begins and all you need do is wait until it is finished.

DATA CD-ROM

To make a Data CD-ROM means to copy folders or files from your computer onto a blank disc or partially written data disc. This disc, recorded in the ISO-9660 format, will be readable in any computer equipped with a CD-ROM drive.

- 1 Click on the **Data CD-ROM** button of the main menu.
- 2 Define the folders or files you want to record, dragging and dropping from the Window Shell of the Windows Explorer.
- 3 Give it a meaningful Volume Name because this name will be assigned as the volume label of the CD-ROM.
- 4 Insert a blank CD-R disc in the recorder or a disc you have already started as a Data CD-ROM and have left open and wait until the recorder becomes ready. By then, the disc's content and free space appear in red under the **Recorder** combo box.
- 5 Select from loading the previous track (only if the disc is not blank) or making a new volume in the free space and ignoring what the disc already contains.
- 6 If you want to make a Mixed-mode disc (data and audio on the same CD) or to exclude some files from recording or if you would like to

make the CD bootable, please check the Advanced functions in the online Help.

- 7 Press the **Record** button (the red dot) in the toolbar.
- 8 In the following Record to CD dialog, select the Speed and whether you want to **Test, Test and Record** or go simply **Record**.
- 9 The recording process begins and all you need do is wait until it is finished.

AUDIO CD COMPILATION

To make an Audio Compilation means to select songs from other audio discs or among some Wave files you prepared on your hard disk and then record them onto a blank CD-R disc.

- 1 Click on the **Audio CD Compilation** button of the main menu.
- 2 Drop in the track (song) list of the Wave files, if you have any.
- 3 Drop or select, using the **Add** function in the **Edit** menu, the tracks from other audio discs you want to include in the compilation.

Note: All the tracks you are using from other audio discs must be “on line” at the beginning of recording. If your compilation is comprised from more discs than the available CD-ROM drives you have, create Wave files for some of them by “extracting” the audio to the hard drive. You’ll learn more about this ahead in the **Exploring Discs** section.

- 4 Arrange the compilation sequence by right-clicking over the track and selecting **Move Up** or **Move Down**.
- 5 Press the **Record** button (the red dot) in the toolbar.

- 6 In the following Record to CD dialog select the Speed and whether you want to **Test, Test and Record** or **Record**.
- 7 The recording process begins and all you need do is wait until it is finished.

CD DITTO DJ

Making a disc with Ditto DJ means to create an “work in progress” audio disc. You start with a blank disc and record one or more tracks at a time. The tracks can be Wave files or tracks from other audio discs. You can also record directly from your soundboard, with any audio source connected to the line-in jack. The disc can be left “unfinished” and played in the CD recorder. When you decide to “finish” the disc, it will then be playable in any audio CD player.

- 1 Click on the **CD Ditto DJ** button of the main menu.
- 2 Insert a blank CD-R disc in the recorder or a disc you have already started with CD Ditto DJ.
- 3a If you want to record a song you have as a **Wave file**, drop this file in the track list window or press the **Recording** button and select **Wave File**.

Review the **Record to CD** dialog in which you can select only the recording speed.

- 3b If you want to record a song directly from **another audio disc**, insert this source disc in the CD-ROM and drop the Track file corresponding to the song from there or press the **Recording** button and select **Track from Another CD**.

Review the **Record to CD** dialog in which you can select only the recording speed.

- 3c If you want to record a track from any **audio source**, start your audio board software or the standard Windows Recording Control and select which input you want to record and its recording volume.

Note: You should do the same steps when recording a Wave file from that source with your soundboard.

When you are ready to record, press the **Recording** button and select **From Mixer**. Review the **Record to CD** dialog. In this situation you cannot select anything because the live recording must be forced at 1x, which is "real time". When you decide to stop the live recording, just press the **Stop** button.

- 4 After recording one or more tracks, you can play the disc with the CD Ditto DJ toolbar buttons or remove the disc from the drive.
- 5 Later you can add other tracks following the same previous steps, and, when you decide that the disc is finished, press the **Finish Disc** button to close it.

EXPLORING DISCS

To explore a disc means to look at the physical structure of a CD inserted in a CD recorder or CD-ROM drive using the **CD Explorer** function of CD Right!

Explore Audio Discs and Extract Tracks (Songs)

- 1 Insert the disc to explore in a CD recorder or CD-ROM drive and select **CD Explorer** from the **CD-Drive** menu entry corresponding to that drive. Wait until the contents of the disc appear in the CD Explorer window.
- 2 You can then verify all the tracks (songs) contained in the disc and their details.
- 3 Select one or more tracks to extract by clicking on them.
- 4 Press the **Extract as Wave File(s)** button. Follow the dialog where the name of the file(s) is requested and then confirm it.

Tip: You are also able to assign the **Disc Author/Title** and **Songs Titles** from this CD Explorer window. This title will be visible in the Windows CD Player and will help you identify discs and tracks while preparing compilations.

Exploring Data Tracks

You can explore data tracks to access files and folders recorded in previous tracks of multisession data discs.

- 1 Insert the data disc to be explored in a CD recorder or CD-ROM drive and select **CD Explorer** from the entry in the **CD-Drive** menu that corresponds to the drive you are using. Wait until the contents of the disc appear in the CD Explorer window.
- 2 Select only one file or track to explore.
- 3 Press the **Explore Data Track Files** button. In the following dialog which works almost as any standard Open file Windows dialog, select the folders or file to recover.
- 4 Enter the destination folder where to copy the files from the CD and press the **Extract** button.

Quick Command Reference

FILE MENU

From the File Menu it is possible to make a Main Menu selection using the **New** function or to **Open** and **Save** the document as in any Windows application. This menu also contains the **Record** and **Stop** functions to start and stop the recording phase.

EDIT MENU—DATA CD-ROM

When in Data CD-ROM, use the Edit Menu to prepare the recording list. With the **Paste** and **Add** functions you can insert items in the list, and with **Position on CD**, select the folder destination if it must be different from the default (the same as in the source hard disk). Use the **Move** and **Remove** functions to adjust the list. With the **File Verify** it is possible to check an already written disc against the source item with a Windows File System level file-by-file verification.

EDIT MENU—AUDIO COMPILATION

When in Audio Compilation, use the Edit Menu to prepare the recording track list. With the **Paste** and **Add** functions you can insert tracks. Use the **Move** and **Remove** functions adjusting and setting the list to the correct track order.

EDIT MENU—DITTO DJ

When in Ditto DJ Audio, use the Edit Menu to control the audio playback or to **Finish Disc**.

CD-DRIVE MENU

This menu contains an entry for every CD-ROM or CD recorder drive present in the computer. For every drive a submenu lets you select the **CD Explorer** or other functions like **Eject** and **Drive Properties**.

VIEW MENU

The View Menu contains the options for the **Status Bar** or **Toolbar** in addition to the handy functions to **Tile** the CD Right! windows with the **Explorer** for easier dragging and dropping of files (and **Untile** back).

TOOLS MENU

From the Tools Menu you can **Launch** some applications which are important to CDRight! or to turn the **Auto Insert Notification** Off and On. You can start the **Wave Conversion** or **Wave Editor** or build and record the **Global-CD Image**. The last entry opens the **Options** dialog.

HELP MENU

The Help Menu is quite standard for a Windows application and contains a direct link to a few Internet Web sites of interest to CD Right! users.

Options

The user options in CD Right! have been simplified as much as possible. You access the Options dialog from the **Tools** menu or from the **Record to CD** dialog that appears just before recording. The Options dialog is divided into three “Tabs”.

GENERAL

Eject the caddy or open the tray when the recording terminates

When you select this option, the tray or the caddy is ejected at the completion of the recording session. You can verify in the **Drive Properties** if Eject/Close is needed after a test. (Please note this option differs from the eject which is performed automatically after running the **Test and Record** option).

Play sounds

CD Right! plays an audio sound when the recording or the test terminates or when an error occurs. The sound is made as a reminder for the user that intervention is now required. This option allows you to turn On or Off the sounds.

Use the slowest speed to extract audio which assists in improving quality

Audio extraction occurs when you are copying a disc that contains audio tracks such as a common audio CD or a Mixed-mode disc and when you

extract tracks from the **CD Explorer**. By default the extraction occurs at the maximum speed to minimize the risks of Buffer Underrun (when copying) or while waiting (when extracting from the CD Explorer). Extracting tracks at a fast speed can generate additional sound noises like little “pops” or “scratches” with some drives. Therefore we recommend forcing the unit to extract at a slower speed. This is usually close to 1x, where every second of music will require 1 second to be extracted.

You can test the quality of the extraction after having this option checked or unchecked in the **Diagnostic** tab, located under the **CD Drives** pull down menu, in **Drive Properties** option.

Note: If you decide to use this option, please remember that you will not be able to copy the audio disc directly from another unit. You must choose to pass the tracks through to the Temporary file on the hard disk.

Temporary Folder

Temporary space is needed when copying a disc and checking this option to pass files through to the hard disk and when you record Data CD-ROM. You select here where you want CD Right! to copy the temporary files. By default this folder is the Windows temporary but you can move it to any other hard disk attached to your computer. This default can be restored using the **Default** button.

DATA CD SWAP

In this section of the Options dialog you set a threshold for the Data CD-ROM recording. When you record data from your hard disk to the CD, all the files, the CD file system and all the other information are built and copied “on the fly”. If the hard disk is not very fast or if the number of files is very large, the time needed to reach the files could be too high to record at 4x or even 2x speed. CD Right! copies all the files smaller than the threshold size you select here into a temporary file in the Temporary Folder before actually recording. When the moment of recording these files arrives, instead of going back and forth on the hard disk to find them, the files are already located in this “swap” file in the order as they are needed. CD Right! saves in “open and seek time” as the experts say.

The swap file is always deleted when the recording terminates.

MULTISESSION

There are three options to resolve a "collision" when you are about to record a file(s) to disc and you have selected loading a previous session and this file(s) exists already in the loaded session.

Never Overwrite

If a file(s) is already present in the loaded session, the new file(s) is not recorded.

The only file(s) recorded is that not present in the loaded session.

Overwrite If Newer

The file(s) that is newer is recorded. The one(s) that has the same date and time as in the loaded session is only referenced back, saving disc space.

Always overwrite

All the files selected for recording are written regardless of their date and time. Only the one(s) that was present in the loaded session and now is not selected for recording again is "pointed back".

If you do not have a clear picture of how the multisession works, please see the online Help.

Errors and Troubleshooting

CD Right! reports all errors in a dialog that indicates which drive generated the problem, gives a brief explanation, and specifies (in red) the **Error Code** in the format **EE-CC-SSAAQQ-RR**.

- EE is the CD Right! error code, that corresponds to the given message.
- CC is the last command sent to the drive that generated or let the error happen.
- SS is the drive SCSI/ATAPI error **Sense** code.
- AA is the drive SCSI/ATAPI error **Additional** Sense code.
- QQ is the drive SCSI/ATAPI error Additional Sense code **Qualifier**.
- RR is a **redundant** code generated by the previous 5 values. It is created to verify that the entire code is reported correctly.

The fields CC, SS, AA and QQ are very often specific to the drive where the error happens and will be interpreted by technical support when needed.

Reporting an Error to Technical Support

If one of these error occurs and you need technical support for help or for an explanation, please write down the entire **Error Code** written in red with the name of the drive that generated the error and have this information ready when asked.

ERROR EXPLANATIONS

Listed are all the possible Error codes with an explanation and a possible correction:

WinASPI is not installed or is not working on this computer.

We cannot continue.

WinASPI.i.WinASPI; (the module used to communicate with your SCSI.i.SCSI; peripherals) is not installed or is not working on this computer. WinASPI is necessary for CD Right! to work. You must install it correctly before CD Right! can start.

Solution: Install the Windows ASPI 32 interface.

The file: <filename> cannot be read. Please check if it has been deleted or if it is read protected.

A file that was found and listed while preparing an ISO-9660.i.ISO-9660; image is not found during the recording process. This could happen if somebody deletes the file while writing or opens the file so it is no longer available for reading.

Solution: Verify that <filename> exists or close the application that is holding its shareability.

The file: <filename> is corrupted or unknown.

A file such as a Wave file used in a compilation or a Global-CD Image that you are trying to record is damaged or in a wrong format.

Solution: Verify that <filename> is in the supposedly correct format.

Error while reading the source disc.

Physical error reading a track from a drive. This can happen during copying or extracting tracks from a CD to the hard drive.

Solution: Verify that the source disc is not damaged. Try cleaning the disc and removing the dust from the environment. Verify that the source CD is in good condition.

Drive error. <cause>

The SCSI.i.SCSI; (or SCSI'ized) specified drive reported a physical "unit error". The <cause> indicates the reason but you should refer to the drive manufacturer command manual for the meaning of the Sense code, Additional sense code and Additional sense code qualifier.

Solution: There are several reasons for a Drive Error. Verify the connection of the drive and run the **Record Basic Functions** located in the **Diagnostic** tab, located under the **CD Drives** pull down menu, in **Drive Properties** option.

The disc is bad or its type is incompatible with the selected speed or the CD recorder requirements.

In some CD recorders there is a special command to check the validity of the disc onto which you are recording. This check is performed by CD Right! just before the recording process begins. This error occurs if the drive returns a message that the disc is not valid or compatible with the selected speed.

Solution: Use a lower speed or use a different disc brand.

Error in the communication with the drive.

The SCSI; or the IDE/ATAPI interface reported a problem while communicating with the device.

Solution: Do not touch or access the drive using another application while reading or recording. Verify that the Auto Insert Notification is turned Off. Verify the connection of the drive and run the **Record Basic Functions** located in the **Diagnostic** tab, located under the **CD Drives** pull down menu, in **Drive Properties** option to detect if there is any hardware problem.

Not enough memory to complete the operation.

Due to an extremely high number of files in the image and/or a very low amount of memory in the system, CD Right! is not able to prepare the Data CD file structure.

Solution: Try to close the other applications running, restart the machine or add additional memory in the system which is required to master complicated discs.

The temporary folder does not have enough free space for the swap file.

During the preparation of a Data CD, the swap file becomes too large for the Temporary Folder.

Solution: Make room for the Temporary Folder or reduce the threshold value in the **Data CD Swap** section of the **Options**.

Error completing the operation or function not supported by the recorder.

This message indicates you are trying to perform an operation not supported by your CD recorder or an unexpected error happened.

Solution: Verify that the Auto Insert Notification is turned Off. Verify the connection of the drive. Call for technical support assistance if problem persists.