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SAFETY AND MAINTENANCE

DATA SECURITY

Every time you update your data make back-up copies on an external storage medium. MEDION does not assume liability for data loss or damage to data storage units, and no claims can be accepted for damages resulting from the loss of data or consequential losses.

OPERATIONAL SAFETY

Please read this chapter carefully and observe all listed notes. This will ensure reliable operation and long life expectancy of your product. Keep these instructions with your product at all times. The proper set up, use and care can help extend the life of your product. In the event that you transfer ownership of this product, please provide these instructions to the new owner.

- Installing the DVDRW drive must only be performed by a person(s) who are experienced in servicing and upgrading PCs.
- Should you not possess the necessary skills, call in a PC expert or technician.
- Drives are extremely fragile. Never drop the drive.
- Follow the user guide for your PC.
- Never open the drive casing. If you do so, the DVD drive will no longer be covered by the guarantee and it will probably be damaged.
- Before installing the DVD-ReWriter, please disconnect all computer power cables. If the computer is not disconnected from the power supply before it is opened, personal or material injury may result.
- This device has been designed for use in a computer. It must be connected to a power supply of DC5V/DC12V.
- Do not insert any objects into the inside of the device through the slits or openings and never open the casing.
This could lead to an electrical short circuit, an electric shock or even cause a fire which could endanger your health and damage your computer equipment.

- Internal components of the computer can be damaged by electrostatic discharge (ESD). Always perform computer system upgrades and modifications at an ESD workplace. If this type of workplace is not available, always wear an anti-static sleeve or touch a metal body/part which conducts static electricity well. MEDION will charge for repairs where product damage has been caused by incorrect handling.

- If additional or other components are also connected, the EMV Directives (guidelines for electromagnetic compatibility) must be adhered to. Please also note that only shielded cables can be used with this product. Electromagnetic radiation does not present a health hazard.

- Keep the device at least 1 metre (approximately three feet) away from sources of high frequency and magnetic interference (mobile phones, televisions, infra-red devices, loudspeakers etc.) in order to avoid malfunction and data loss.

- Only use the drive in a horizontal position.

- The DVD drive must be fixed firmly into the special holding device (spare computer drive bay).

- DO NOT allow children to play unattended with electrical equipment.

- This product is NOT designed for use in industrial environments.

- Keep your product and all devices connected to it away from moisture, dust, heat and direct sunlight. Failure to observe these instructions can lead to malfunctions or damage to your equipment.

- To prevent damage to your PC from a fall, place and operate the PC and all connected units on a stable, balanced and vibration-free surface.

- To provide additional protection against electric shock, power surges, lightning strikes, or other electrical damage to your PC, we recommend the use of a surge protector.
AMBIENT TEMPERATURE

- The DVDRW drive can be operated at an ambient temperature of between **10° C** and **35° C** (+41° and +95° F) and at a relative humidity of between **30%** and **70%** (with no condensation).
- When powered off, the product can be stored at temperatures between **-20° C** and **50° C** (–40° and +158° F).

Please contact your local MEDION Service Centre if you have any technical problems with your DVDRW drive:

- ... your drive has come into contact with a liquid.
- ... your drive does not work properly.
- If repairs are needed, please use ONLY your local MEDION Service Centre.

DEVICE DISPOSAL

At the end of its life, the appliance must not be disposed of in household rubbish. Enquire about the options for environmentally-friendly disposal.

CLEANING

As a rule, it is not necessary to clean the equipment. Before cleaning, always pull out the plug and all connection cables.

- **Caution!** This equipment **does not include any parts** that need servicing or cleaning.
- Do not use any solvents, corrosive or gaseous cleaning products.
- If necessary, clean the surface of the drive with a damp cloth.
NOTES FOR SERVICE ENGINEERS

This chapter is meant for service engineers. Please pay attention to the chapter "Safety and Maintenance" and to the following safety advice:

ABOUT THE LASER

ATTENTION

This DVD-ReWriter drive is classified as a Laser classification 1 device. Please take it to an authorised specialist for service purposes. Please do not remove the cover of the drive as invisible laser radiation escapes once the cover has been opened. Do not look into the ray, even with specialist optical instruments.

LASER

In this product laser devices of Laser Class 1 to Laser Class 3b may be used. Where the housing remains closed, the device meets the requirements of Laser class 1. By opening up the PC housing you will gain access to laser devices of up to Laser Class 3b. When removing and/or opening up these laser devices, the following must be observed:

- The DVD-drive contains no user-serviceable parts.
- Repairs to the DVD-drive must be performed only by the manufacturer.
- Do not look into the laser beam, even with specialist optical instruments.
- Do not allow yourself to be exposed to the laser beam.
- Avoid exposure of the eyes or skin to direct or stray radiation.
INTRODUCTION

WHAT’S INCLUDED
Please check to ensure that your product is complete and inform us within 14 days of purchase if anything is missing. The following should be included with the DVD-ReWriter:

- DVD-ReWriter drive unit
- Application software on compact disc
- Fixing screws
- IDE-interface cable / audio cable
- This user manual
- Guarantee card

SYSTEM REQUIREMENTS

<table>
<thead>
<tr>
<th>Computer</th>
<th>PC/AT compatible computer with free type 5¼-inch rack</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Pentium III class above 500 MHz</td>
</tr>
<tr>
<td>Operating system</td>
<td>Windows® 2000/XP</td>
</tr>
<tr>
<td>Working memory</td>
<td>128 MB or more</td>
</tr>
<tr>
<td>Connection</td>
<td>IDE interface (ATAPI)</td>
</tr>
</tbody>
</table>
STARTING UP

INSTALLING THE DEVICE

This is how you install your DVD-ReWriter:

1. Please note the information in the section “Safety and maintenance”.
2. Switch the computer and all connected peripheral equipment off and remove the mains plug and remove all external cable connections.

1. Remove all cable connections

2. Unscrew all screws from the casing.
3. Position the computer so that the back of the computer is facing you so that you can work easily and safely.

4. Carefully remove the casing. Do not start up the computer before the cover has been fitted again securely.

5. Position the DVD-ReWriter drive in a suitable 5.25 inch slot (remove slot cover plate first, if necessary). Please ensure that you do not damage any internal components.

6. Connect the 4 contact mains cable (any free cable from your PC power supply):
7. When connecting the 40-pin IDE interface cable make sure that the coloured side of the IDE cable is in the position of pin 1 of the DVDRW (see diagram). Should the installed 40-pin IDE interface cable has no free connections, change it with the IDE cable supplied.

8. Please see the “back view” paragraph on page 11 for additional information. If possible, the DVDRW should be operated on the second IDE channel as a “slave” (delivery status). At most, one DVD-ROM drive which is normally configured as the “master” can be connected to the second IDE channel. If both devices share one channel, you must make sure that a maximum of one slave device and one master are connected to the cable. Should this not be the case, please change your configuration.

9. Should you possess a sound card, connect the DVD’s CD-audio output to the CD or line input on your sound card. If this is occupied, you must decide which drive is to be used for analogue audio-CD playback.

10. Secure all the cables together so that the connection cannot be detached separately, and the CPU ventilator or air circulation is not impaired.

11. Fix the drive in the drive bay with the four screws.
12. Replace the computer casing and put all the connection cables back in the corresponding sockets in the rear of your PC. Put the mains plug in a power socket and start the computer up again.

13. In Windows® 2000/XP the new DVDRW is now registered as a new drive. Check this by double-clicking on the MY COMPUTER desktop icon. The DVDRW will be registered under “CD-ROM” in the “Device Manager”. You can configure the device by clicking on “Properties”. Please check that data can be read by the DVDRW. In order to do so, insert a CD or DVD of your choice.

**NOTE:** The drive will be assigned a drive letter by Windows. This can have an effect on programs accessed via CD that are already installed. Depending on the configuration, the CD must be put in the DVDRW, if necessary.

**FRONT VIEW**

![Diagram of DVD drive front view](image)

(1) With this button you open and close the DVD drive drawer and in some circumstances end disc playback.
(2) Operating or access light (optional).
(3) Emergency opening (optional).
(4) Volume control (optional).

**REAR VIEW**

![Diagram of DVD drive rear view](image)
(1) The mains power supply connection connects the DVD-RW drive to the power supply of the computer.

(2) The interface connection connects the DVD-RW drive to the IDE-Controller on your motherboard by means of a 40 pin IDE interface cable.

(3) The jumper (contact bridge) for device configuration (Device Configuration Jumper) can be set as CS (cable select), SL (slave mode) or MA (master).

   Devices connected to the same IDE interface cable must have different device configurations.

(4) The audio output is connected on two channels.

**COMPATIBILITY**

The table below shows which media you can use in which drive:

<table>
<thead>
<tr>
<th>Medium</th>
<th>CD-ReWriter</th>
<th>DVD</th>
<th>DVD-ReWriter</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>DVD</td>
<td>×</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>CD-R/-RW</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>DVD-or+R/-or+RW</td>
<td>×</td>
<td>✓*</td>
<td>✓*</td>
</tr>
</tbody>
</table>

* The specified writing speed must also be supported by your DVDRW drive.

Whether or not you can use a disc in a particular drive depends on whether the format is supported by the drive and the operating system. So for example, a CD that has been created for another operating system may not be readable.

Your DVD Rewriter is a **multi-format drive** that supports DVD-R/-RW and DVD+R/+RW.

Since this technology is still very new, incompatibilities may still occur even if the correct media is used.

We therefore recommend that you use **only branded blank media** and that you check these for compatibility with your
DVDRW drive. Blank CD’s, however, rarely cause any problems and can generally be written to without hesitation with your DVD writer.

Nevertheless, we recommend that you always check which media suits your DVDRW.

**The DVDRW Drive as a Boot Drive**

Optical drives can be used for booting the operating system. If the PC does not boot, it is possible that autostart is turned off in the BIOS or the Disc is not bootable.

**Loading a Disk:**

**Tip:** Do not place protective foils or other stickers on your CD’s. To avoid damage to your drive, do not use deformed or damaged CD’s.

Attention: Do not use scratched or dirty disks, discs with pieces broken off or disks of poor quality. Because of the high speeds in the drive the disks might break and damage your data as well as your drive. Examine the disks before you insert them. If damage or dirt is visible, you should not use them. Damage caused by faulty media is excluded from warranty and repairs costs will be charged.

1. Press the eject button on the front of the DVDRW-drive to open the tray.
2. Place the disk on the tray so that it lays flat with the label facing upward.
3. Press the eject button again to close the tray.

**Many Discs start automatically when they are inserted.**

In order to access the Disc via Windows Explorer, select the letter corresponding to the drive. When accessing audio or video disks (or audio or video files on conventional CDs) you should use the media playback application pre-installed on the computer. CD-ROM and DVD-ROM drives can play audio CDs, but only the DVD-ROM drive can play DVD audio or video disks.
Depending on the DVD audio CD and the software installed you may also have to open a DVD player program.

**HOW TO REMOVE A DISC:**

1. Press the eject button at the front of the DVD-drive to open the drawer.
2. Remove the disc and store it in the Disc cover in a safe place.

   ✗ Do not try to remove the CD from the drive while the computer is accessing the disk.

**EMERGENCY REMOVAL OF A TRAPPED DISC**

If the drawer does not open automatically anymore, it can be opened manually. Re-start the computer, if the drawer still does not open, please proceed as follows:

1. Exit Windows® and switch the computer off.
2. Gently position a long pointed object (e.g. opened up paper-clip) into the emergency opening (3) until you feel some resistance. Now press gently and the drawer should open.
3. Remove the CD and restart the computer.

**THIS IS HOW YOU INSTALL YOUR SOFTWARE:**

You need the software supplied on the CD to play DVD films on your PC and to add further functionality. Once you insert a CD, the software installation menu is started automatically.

It may happen that during installation procedures important files can be changed or even deleted. To avoid any problems in using older files after installation, make sure you safeguard your hard disk by backing up.

**REGIONAL SETTING**

✞ **Caution:** The DVD region setting can be changed up to five times with the DVD viewing software. After that the last setting remains
permanently. If you then want to change the region setting again, this must be carried out at the factory. The costs of sending and re-setting the DVDRW drive must be met by the user.

**Note:** If the automatic start does not work, it is likely that the so-called ‘Autorun’ function has been deactivated. Read the respective chapter in Windows Help on how to activate this function.

An example for the manual installation without the ‘Autorun’ function:

1. Click on **Start** and select the item **Run**. (Or hit `Ctrl` + `R` to launch the corresponding dialog).

2. Now enter the letter of the DVDRW drive followed by a colon and the program name ‘setup’.

3. Click on "OK".

4. Follow the instructions given by the program.

**SOFTWARE DEINSTALLATION**

In order to remove installed software from your PC, follow these steps:

1. Click on **Control Panel**

2. Click on

3. Then select the following program:
Select the respective program, start the de-installation procedure and follow the instructions on screen.

**DVD TECHNOLOGY**

The Compact Disc (CD) was introduced in 1982.

Who could imagine doing without the CD as a storage medium for data, multimedia, computer games and video now? A CD can hold up to 700 MB of data, but that amount is too small to store a high-quality encoding of an entire feature film. The DVD (Digital Versatile Disc) has the same dimensions as a CD but stores more data at a greater density. In some cases, both sides of the DVD can be used to store information. Furthermore, each side can contain two layers of information (dual layer).

Thanks to high data density, the transfer speed is considerably higher than for a CD, so that a DVD drive with 6 times speed can transfer considerably more data than a 6-speed CD drive.

A DVD drive can also read both DVD-ROMs and CD-ROMs, providing the user access to an astounding amount of media formats.

**VARIOUS DVD FORMATS**

<table>
<thead>
<tr>
<th>Format</th>
<th>Side A</th>
<th>Side B</th>
<th>Max. capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD-5</td>
<td>SL</td>
<td>-</td>
<td>4.7 GB</td>
</tr>
<tr>
<td>DVD-9</td>
<td>DL</td>
<td>-</td>
<td>8.5 GB</td>
</tr>
<tr>
<td>DVD-10</td>
<td>SL</td>
<td>SL</td>
<td>9.4 GB</td>
</tr>
<tr>
<td>DVD-14</td>
<td>DL</td>
<td>SL</td>
<td>13.2 GB</td>
</tr>
<tr>
<td>DVD-18</td>
<td>DL</td>
<td>DL</td>
<td>17.0 GB</td>
</tr>
</tbody>
</table>

SL=Single Layer, DL=Dual Layer
DVD-VIDEO

Special characteristics of DVD-Video:

- Up to 8 hours of feature film on a single DVD.
- Up to 8 audio tracks and 32 subtitle tracks.
- Greater picture quality than VHS or SVHS.
- Time-frame navigation and picture stills.
- Selection of different camera angles on some discs.
- **Parental Control**, in which certain scenes or an entire film or rating of films can be made accessible only to certain age groups. DVD players can, for example, be set so that scenes or films which have not been approved for younger audiences will not play.

In spite of the high storage capability of the DVD the data must be highly compressed in order for a complete feature film to be stored.

**REGIONAL PLAYBACK INFORMATION FOR DVD**

The playback of DVD movies includes the decoding of MPEG2 videos, digital AC3 audio data and the deciphering of CSS protected contents.

CSS (sometimes called copy guard) is the name of a data protection program incorporated by the movie industry as an action against illegal copies.

Among the numerous regulations for CSS licensees the most important ones are the country specific playback restrictions.

In order to facilitate the geographically restricted release of movies, DVD titles are released for certain regions. Copyright laws require the restriction of each DVD movie to a certain region (usually the region, in which it is sold).

DVD movie versions can be published in several regions but the CSS regulations require that each CSS decipherable system may only be used in one region.
LIGHTSCRIBE
Your CD/DVD writer will support the LightScribe technology, according to the version. You will be able to provide the upper side of special CD or DVD media with a richly varied label with the appearance of screen printing, thanks to this new technology. The advantages demonstrate professional printing quality and simple handling in this case. You need specially coated media to make a LightScribe disk. The corresponding software (Nero Burning ROM) and the installed CD/DVD writer support the LightScribe technology completely.
FIRST AID IN THE CASE OF MALFUNCTIONS

DIAGNOSING THE CAUSE
Sometimes malfunctions can have simple causes, but can also be very complex and require extensive technical analysis. We would like to provide a few guiding steps for you to solve any problems.

BASIC INFORMATION
- A writing process should always take place on its own. Always terminate running programs (including fax reception, screen savers and other programs in the task bar).
- Regular execution of the Windows® programs “Defragmentation” and “Scandisk” can remove sources of errors and increase system performance.
- Avoid the installation of different CD writing software. Even subsequent de-installation can leave an “unclean” system.
- If possible, test the DVD-ReWriter and the software on a newly installed, clean system (no additional software, especially system tools).
- Check the recommended settings.

If these measures are not successful, we will be more than happy to help you further.

TECHNICAL SUPPORT
This product has been tested in our test laboratories in detail and extensively with a large number of different computers. It fulfills all required standards and complies with the standard “Designed for Windows”, which certifies utmost compatibility. However, it is usual, that device drivers are updated from time to time. This is because possible compatibility problems occur with other components (programs, equipment) which have not yet been tested. Device driver updates and the latest information on your product are available at the following Internet web address:
Internet: http://www.medion.com

**DO YOU REQUIRE ADDITIONAL SUPPORT?**

If the suggestions in the previous section have not solved your problem, please contact the hotline. We will try and help you over the telephone. However, before you contact your nearest MEDION Technology Centre, please have the following information available:

- How is your computer configured?
- What additional peripherals do you use?
- What messages, if any, appear on your screen?
- What software were you using when the error occurred?
- What steps have you already undertaken to solve the problem?
- If you have already been given a customer number, please have this available.

**WARRANTY**

**PLEASE READ THIS LIMITED WARRANTY CAREFULLY TO UNDERSTAND YOUR RIGHTS AND OBLIGATIONS.**

The sales receipt is considered valid proof of purchase and should be kept in a safe place. This receipt will be required for receiving any warranty service. This warranty is transferable. When transferring ownership to a third party, please provide the receipt and warranty information.

We warrant to the end user that each product, including related software, accessories, media and supplies, shall be free from defects in materials and workmanship for the warranty time from date of purchase. This warranty covers only those defects that arise as a result of normal use of the product. This warranty does not cover any other problems, including problems that arise as a result of improper maintenance or modification; software, accessories, media or supplies not provided or supported by us; or operation outside the manufacturer’s specifications.

Any parts of this product repaired or exchanged by a valid service representative will be covered under the original warranty period. Do not leave any media in the DVDRW drive. Products shipped without accessories will be returned without accessories. Any replacement product or component may be either new or like new, provided that it’s functionality is at least equal to that of the part being replaced.

**LIMITATION OF WARRANTY**

To the extent allowed by local law, no other warranties are made with respect to this personal computer or the warranty services by any person, including but not limited to us and our suppliers. The express warranty
stated above is the only express warranty made to you and is provided in lieu of all other express or implied warranties and conditions (if any) including any created by any other documentation or packaging. For additional warranty information, please refer to enclosed warranty card.

**LIMITS OF LIABILITY**

To the extent allowed by local law, except for the obligations specifically set forth in this warranty statement, in no event shall we or our third party suppliers be liable for direct, indirect, special, incidental, or consequential damage, whether based on contract or any other legal theory and whether advised of the possibility of such damages. This includes loss or damage of personal data on your PC.

**LOCAL LAW**

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