

|| FRECOM

USER'S MANUAL



DVD RW RECORDER

EXTERNAL **DOUBLE LAYER** DVD RW DRIVE
WIN

Dear user!

welcome to the installation of your **Freecom DVD RW Recorder**. Before installing the drive, please read through the following points regarding its compatibility with your system.

Freecom Technologies • Germany
www.freecom.com

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Warning!

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Warning! This device is equipment complying with EN55022 class B.

Freecom cannot be made liable for any damages, loss of data or damage following thereof -whatsoever (including, without limitation, damages for loss of business profits, business interruption, loss of business information, or other pecuniary loss) arising out of the use of or inability to use this Freecom product, even if Freecom has been advised of the possibility of such damages.

We reserve the right to upgrade our products in keeping with technological advances.

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General information

Reliable performance of the Freecom DVD RW Recorder cannot be guaranteed for configurations that do not meet the following requirements:

Hardware Requirements

To use the Freecom DVD RW Recorder, you must have a computer with the following minimum requirements:

- Intel / AMD CPU 700 MHz or faster
- at least 128 MB RAM (256 MB recommended)
- USB interface (USB 1.1 or USB 2.0*)
- at least 400 MB of free hard disk space (5 GB recommended)

Software Requirements

The Freecom DVD RW Recorder is setup for use with the following operating systems:

- Windows 2000
- Windows XP

* For maximum performance of the Freecom DVD RW Recorder, both computer system and software must support USB 2.0. Connecting the Freecom DVD RW Recorder to a USB 1.1 interface will limit the CD recording speed to 4x. DVD recording is not reliable through USB 1.1.

Media standards

- DVD single/dual layer, DVD-R, DVD+R, DVD-RW, DVD+RW, CD-DA, CD-ROM, CD-ROM XA, CD Extra, CD-I, Mixed-ModeCD, VideoCD, PhotoCD, CD TEXT, Bootable CD, Disc At Once, Session At once, Track At Once, Multi-Session.

Precautionary Measures and General Notes

- After transport, particularly at low outside temperatures, condensation can form which can lead to a malfunctioning. For that reason, you should not begin operation until the drive and CDs/DVDs have reached room temperature.
- Operate the Freecom drive only in a horizontal position, to prevent damage to the media or mechanical parts.
- Operate the device only at temperatures ranging from 10 - 45 °C.
- Do not use the device in a dusty and humid environment.
- Protect the drive from shocks and other mechanical effects!
- The device should not be operated in the vicinity of strong electromagnetic radiation sources (loudspeakers, mobile telephones etc.).
- Due to the high data transfer rates, the cable length should not exceed 1 m. Error-free transmission cannot be guaranteed for longer cables.
- The DVD RW Recorder is USB 2.0 compliant. While USB 2.0 supports CD recording speeds higher than 4x, if this drive is connected to a USB 1.1 port the maximum CD recording speed is 4x.

Chapter 1: Start Up

1.1 Hardware installation



1. Connect the interface cable to the Freecom DVD RW Recorder.



2. Connect the cable of the power supply to the Freecom DVD RW Recorder and the power supply itself to the socket.



3. Connect the interface cable to the interface port of your computer.



4. Switch on the Freecom DVD RW Recorder.

Since USB 2.0 is backwards compatible with USB 1.1, the Freecom DVD RW Recorder can be connected to all USB ports. When connected to a USB 1.1 port, however, the performance (data transfer rate) of the Freecom DVD RW Recorder will be much lower than when the drive is connected to a USB 2.0 port.

Note: You can plug the USB cable into your computer and unplug it while the computer is running ("hot plug & play"). Remove the cable from the computer when doing so, never remove the cable from the drive when the computer is on.

For optimal performance, the Freecom DVD RW Recorder should always be connected to a USB 2.0 port.

1.2 Power Switch

The Freecom DVD RW Recorder is always powered, even if the USB cable is disconnected from your computer. Therefore, please turn off the Freecom DVD RW Recorder if it is not used. The power switch is on the back side of the Freecom DVD RW Recorder.



Attention! Before switching off the Freecom DVD RW Recorder manually, make sure to safely remove the Freecom DVD RW Recorder via your operating system (the „unplug or eject hardware“ option in the Windows taskbar). Failing to do so may result in loss of data.

Note: In the event of no sound when an audio CD is placed into the Freecom DVD RW Recorder, "Enable Digital CD audio for this CD-ROM device" from within "Control Panel"- "Multi Media".

1.3 Driver Installation

Under Windows 2000/XP a separate driver is not required. The drivers will be installed automatically by the operating system after plugging in the Freecom DVD RW Recorder into the USB port of your computer.

Your Freecom DVD RW Recorder is fully backwards compatible with USB 1.1. The installation for USB 1.1 is the same as described below for USB 2.0.

1.4 Allocation of the drive letter to the Freecom drive

After successfully completing the installation of the Freecom DVD RW Recorder, a new drive letter is assigned automatically (the first available letter after the internal DVD RW Recorders). This can shift the drive letter of an internal CD-ROM drive (for example, 'D' to 'E'). If this leads to problems, it is possible to change the drive letter assignment as follows:

1. Click "Start" - "Settings" - "Control Panel" - "Administration" - "Computer Administration".
2. Click "Disk Maintenance" and then select the Freecom drive.
3. In the "Operation" menu ("Action" in Windows XP), select All Tasks and then click Change drive letter and path.
4. In the next window, click "Change" and select a drive letter in Assign the following drive letters.
5. Click "Yes" to confirm your change.

Chapter 2: Installing the application software

To record blank media, you must first install the Recording Software. We recommend using the software which has been provided with your drive.

To install the application software, insert the "Application" CD, klick "Software Installation" and select your application software.



Follow the instructions on screen.

Note: If you wish to use other software, please find out from the supplier whether his products support the Freecom DVD RW Recorder.

2.1 Special Instructions before Writing a CD / DVD

- You should realize that writing CD/DVDs is principally a sensitive data transmission procedure which can be disrupted by even the smallest mechanical disturbance.
- Never clean the Freecom DVD RW Recorder with a commercially available CD or a CD-ROM cleaning set. This can damage the drive.
- Recordable and Rewritable CD/DVDs (blanks) are more sensitive than commercially available CD/DVDs. Use only a solvent-free, non-abrasive marker when writing on a CD/DVD.
- Do not stick any conventional labels on the CD-Rs/CD-RWs, since the adhesive can attack the medium. Special labels for CD-R/CD-RW media are available in retail computer stores. Never remove a label from a CD-R/CD-RW media otherwise you will damage the protective layer and make the CD-R/CD-RW unusable.
- The drive recognizes the medium as soon as it is placed into the drive. CD-R media are compatible with the vast majority of CD-ROM drives and CD audio players and work in most DVD-ROM drives. DVDs created on this DVD Recorder can be viewed on nearly all DVD players and DVD-ROM drives.

For optimal results, use CD/DVDs with a brand name.

Chapter 3: Using the Drive

How to Use the Discs

Attention! When using CD-ROM, CD-R, CD-RW or DVD R/RW discs, don't attach any stickers or labels to the discs. Using discs with them attached not only causes read and write errors, but data on the disc may be lost due to damage to the disc itself.

3.1 Load the disc

1. Press the eject button.
2. Place the disc on the disc tray.

Note! When using a 8 cm CD, place it in the small round depression. The face with the label on it should be up. Never place two discs in the tray at the same time.

Be careful not to touch the recording surface of the disc.

3. Load the disc by pressing the eject button or by lightly pushing in the disc tray.

3.2 Disc ejection

1. Press the eject button.
2. Slowly take the disc out of the disc tray.
3. Press the eject button or push the disc tray and the tray will be brought back into the drive.

After ejecting the disc, return the tray inside the unit quickly. When the tray is in the ejected position, dust and other debris will enter, possibly causing read errors, write errors, or drive failure.

3.3 Emergency Eject

This drive has a function that allows the CD/DVD to be ejected manually if this becomes necessary in an emergency such as failure of the drive or a power outage. Follow the following procedures in such a case. Don't use this feature except in an emergency.

1. Turn the power to OFF.
2. Poke a fine tipped object into the small hole above the eject button. The front door pops open and the disk tray comes partway out.
3. Pull the front door to open it all the way, then grip the disc tray between thumb and forefinger and gently pull it straight out. This feature is a last measure to be used only in an emergency. Using it excessively will cause malfunction.

Note! If you cannot get a good grip on the disc tray with your fingers, use a steel binder clip or spring clamp to pull it out.

Chapter 4: Trouble shooting - General problems

If you still have problems getting your Freecom drive to function properly despite having installed it correctly, then please check the following items:

Hardware requirements:

- Does your system meets the hardware requirements (see page 4)?

Connecting the Freecom device:

- Is the cable connected correctly to your computer and the Freecom device? Check whether cable is plugged in correctly. The cable must firmly in place!
- Does the device have a power supply? Determine if the media can be ejected and if the device is getting power when the system boots.

Recording speed:

- The DVD RW Recorder is USB 2.0 compliant. While USB 2.0 supports recording speeds higher than 4x, if this drive is connected to a USB 1.1 port the maximum recording speed is 4x.

WARRANTY (valid in Europe/Turkey only):

We thank you for purchasing this Freecom product and hope you will enjoy using it.

In order to avoid unnecessary inconvenience on your part, we suggest reading the quick install guide, instruction manual and any additional electronic and or printed manuals. When problems occur we have a database with Frequently Asked Questions (FAQ) on our Freecom website (www.freecom.com), please check this site before you contact the helpdesk.

Your Guarantee

All Freecom products come with unlimited technical phone and web support. By this Guarantee, Freecom warrants their products to be free from defects in material and workmanship for a period listed below from the date of its original purchase. If during this period of guarantee the product proves defective due to improper materials or workmanship, Freecom will, without charge for labour or parts, at its sole discretion, repair or replace the product or its defective parts upon the terms and conditions set out below.

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This guarantee covers only the hardware components packaged with the product. This guarantee covers none of the following: (a) any consumable supplied with the product, such as media or batteries; (b) damage to or loss of any software programs, data or removable storage media; (c) any damage resulting from adaptations, changes or adjustments, which may have been made to the product, without the prior written consent of Freecom; (d) attempted repair by any party other than authorized by Freecom and (e) accidents, lightning, water, fire or any other such cause beyond the reasonable control of Freecom.

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All Freecom products come with unlimited free technical phone and web support.

Freecom Product

Classic & Internal Series
FS & FX Series
FHD Series
FSG-Series
ToughDrive-Series
MediaPlayer-Series
DVB-T / USB Stick
DVB-T CardBus
USB Floppy Disk Drive
USBCard (Pro)
USB 2.0 CardReader
DAT & LTO Drives (retail)
DAT-S Kits

Warranty period

1 year (Two years in Europe)
1 year (Two years in Europe)
1 year (Two years in Europe)
1 year (Two years in Europe)
1 year (Two years in Europe)
1 year (Two years in Europe)
1 year (Two years in Europe)
1 year (Two years in Europe)
1 year (Two years in Europe)
1 year (Two years in Europe)
1 year (Two years in Europe)
3 years
2 years

Safety Manual

- **DVD-ROM**
- **CD-R(W)**
- **DVD/CD-R(W) Combo**
- **DVD+/-R(W)**

NOTE:

Keep this guide in a convenient place to access important information about your external device.

Warning !

Freecom cannot be made liable for any damages, loss of data or damage following thereof -whatsoever (including, without limitation, damages for loss of business profits, business interruption, loss of business information, or other pecuniary loss) arising out of the use of or inability to use this Freecom product, even if Freecom has been advised of the possibility of such damages.

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Chapter GB-1: Introduction

- A. Thank you very much for purchasing this Freecom external drive.
- All of the Safety Instructions that are contained in this Manual must be read carefully and must be fully understood before you attempt to use your external Drive, in order to avoid potential hazards that could cause bodily injury or property damage, or could damage the external Drive.
- Always store this Manual near your external Drive, for convenient future reference. We hope that you are completely satisfied with your new Freecom external Drive and that it gives you long and productive service.
- We look forward to providing you with additional Freecom products to serve all of your computing needs in the future.
- B. Two categories of Safety Instructions are included in this Manual:
- Product Warnings, (i.e., what must never be done, to assure avoiding those hazards that could cause bodily injury or property damage).
 - User Directions, (i.e., what must always be done, to assure the safe use of your external Drive).

Safety icons

This manual contains safety instructions that must be observed in order to avoid potential hazards that could result in personal injuries, damage to your equipment, or loss of data. These safety cautions have been classified according to the seriousness of the risk, and the icons highlight these instructions as follows:

Signal Words Meaning

- | | |
|-------------------|---|
| ! DANGER ! | Indicates an imminently hazardous situation, which will result in death or serious injury if you do not follow instructions. |
| WARNING ! | Indicates an imminently hazardous situation, which could result in death or serious injury if you do not follow instructions. |
| CAUTION ! | Indicates an imminently hazardous situation, which if not avoided, may result in minor injury or moderate injury, or may result in property damage. |
| NOTE | Provides important information. |

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Descriptions contained in this Instruction Manual or in other written materials (including additional Manuals) furnished to you will be considered as general guidance and will not create any warranty to you.

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Chapter GB-2: Safe Use of External Drive, Components and Accessories External Drive

! DANGER !

Never attempt to disassemble, tamper with or repair the external drive. This will cause fire, electric shock, death, serious physical injury, or permanent damage.

Always contact an authorized Freecom service provider, for appropriate assistance.

Warning!

Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. *Wash hands after handling.*

WARNING !

1. Never leave the plastic bags that were used for packaging the external drive or any of its components in places where children or infants will have access them, to prevent possible suffocation.
2. To avoid any risk of short-circuit, fire or other internal damage, never allow any metal object such as screws, staples or paper clips to fall into the unit. If that should happen, however, immediately turn off the power and unplug the power cord. Always contact an authorized Freecom service provider, for appropriate assistance.

3. Never allow any liquids to spill into any part of your external drive, and never expose the external drive to rain, water seawater or moisture, in order to avoid any risk of electric shock, fire or other damage to the unit. However, if any of these eventualities should occur, unplug the AC adaptor (if any), shut off the external drive immediately, and remove the battery pack, as the external drive may otherwise sustain permanent damage.

Always contact an authorized Freecom service provider for assistance, before attempting to use the external drive again.

4. If the external drive has been dropped, or if you ever detect the emission of smoke, unusual odour or excessive heat, always unplug the AC adaptor (if any) and shut off the external drive immediately, as there is a risk that this will cause fire, possibly resulting in death or serious physical injury.

Always contact an authorized Freecom service provider, for appropriate assistance.

5. Never attempt to disassemble, adjust or repair the external drive, as exposure to laser light or other safety hazards will result.

Always contact an authorized Freecom service provider, if any repair or adjustment is required.

6. Never open any covers except those that are expressly designed to be opened by the user, in order to prevent the risk of fire possibly resulting in death or serious physical injury, or the malfunction of the external drive.

7. Today's performance external drives generate heat under normal operating conditions, as a function of system activity. Avoid extended contact between the external drive base/palm rest and your bare skin. Under certain operating conditions such prolonged contact between the external drive base/palm rest and your bare skin will result in skin irritation.

CAUTION !

1. Never store an external drive in a locked and unventilated vehicle, (where excessive internal temperatures may be encountered). Never place an external drive on top of (or adjacent to) a heating device, and never expose it to direct sunlight, to prevent external drive malfunction or damage to the battery pack or other components.
2. Never attempt to use the external drive on a precarious or unstable surface, as the unit may fall causing physical injury or damage to the unit.
3. Never attempt to use the external drive in a location that is subject to excessive vibration, as the unit may cause physical injury, or result in internal damage to the unit or the loss of stored data.
4. Never use a cracked, deformed or repaired CD or DVD. Flying fragments from a damaged CD or DVD may cause injury.
5. Alert children to always keep their fingers away when closing the tray of the external drive, to avoid getting their fingers pinched.

CAUTION !

1. Never press any keys or the eject hole of the external drive with the point of a pencil. A piece of the lead may break off and enter the unit, causing an external drive malfunction or equipment damage.
2. Always use a surge protector when utilizing the AC adaptor near an electrical noise source such as high voltage line or power source. Otherwise, a power surge could result in loss of stored data.
3. Always turn off the power when connecting or disconnecting accessories.
4. Always turn off the power, remove all cables connected to the external drive and remove the battery pack.
5. Never insert more than one CD or DVD at a time; never use force to load or eject a CD or DVD; never eject a CD or DVD while an application is running; and never insert anything other than a CD or DVD into the Drive. Damage to the Drive, damage to the disks and loss of stored data could result.

6. Always handle CDs and DVDs with care, to prevent the possible loss of stored data:
 - a. Always store a CD or DVD in its case when it is not in use, to protect its surface from scratches or contaminants. A CD Drive or DVD Drive may be unable to read the data correctly if the surface of the disk is scratched or contaminated.
 - b. Always hold a CD or DVD by its outside edge and centre hole, using the tips of your fingers. Fingerprints on the surface of the disk may hinder the correct reading of data.
 - c. Never write on the surface of a CD or DVD, as that may hinder the correct reading of data.
 - d. Never use an organic solvent, (e.g., benzene or thinner), to clean a CD or DVD. That could cause degradation or deformation of the disk, and possible loss of stored data. Always use a soft, clean, dry cloth instead and always wipe the surface of the disk from its centre to its outer edge.
 - e. Never store a CD or DVD where it will be exposed to extremely high temperatures (or to direct sunlight) or to extremely low temperatures.
 - f. Never place any heavy objects on a CD or DVD. Deformation of the disk may hinder the correct reading of data.

NOTE

1. Never use the unit in an environment where temperature and humidity is less than or exceeds the limitations written in the users manual of your own external drive, to prevent malfunction.
2. Never use organic solvents (e.g., benzene or thinner) to clean the external drive, as they will cause the surfaces to deteriorate, deform or discolour.
3. Never place heavy objects on top of the external drive and never allow heavy objects to drop onto the external drive, to protect it from damage.
4. If the external drive has been exposed to cold temperatures, always allow it to warm to room temperature before turning it on. This will prevent the occurrence of harmful condensation within the unit. (This is a particularly important concern when the unit is being used in cold climates).
5. Always avoid using the external drive in dusty environments, since dust particles can affect the reliability of the external drive. Always contact an authorized Freecom service provider, if your external drive has become contaminated with dust or dirt particles.

BATTERY PACK**! DANGER !**

1. Never short-circuit the battery pack by either accidentally or intentionally bringing the terminals in contact with another metal object. That could cause serious injury or a fire, and could also damage the battery pack.
Always wrap the battery pack in plastic (or place it in a plastic bag) whenever transporting it, to avoid exposing the terminals to another metal object.
Always cover the metal terminals with insulating tape when disposing of the battery pack, to prevent accidental short-circuiting.

2. Never attempt to disassemble, tamper with or repair a battery pack. The battery pack will overheat and ignite. Leakage of the caustic alkaline solution or other electrolytic substances will cause fire or injury, possibly resulting in death or serious physical injury. Always contact an authorized Freecom service provider immediately, to obtain a suitable replacement.
3. Never attempt to dispose of a battery pack by burning or by throwing it into a fire, and never allow exposure to a heating apparatus (e.g., microwave oven). The heat could cause the battery pack to explode, and possibly cause bodily injury.
4. Use the battery pack supplied or an equivalent battery pack to power the external drive. The battery pack supplied is designed exclusively for use with this external drive. Failure to observe this precaution will cause the battery pack to overheat or ignite resulting in rupture or fire, possibly leading to death or serious physical injury.
5. Never subject a battery pack to heat, and never store it or use it near a heat source. The battery pack will ignite or explode when heated or burnt, possibly resulting in death or serious physical injury or a risk of liquid leakage. It can also cause failure, malfunction, or loss of stored data.
6. Never allow a battery pack to become wet. A wet battery pack will overheat or ignite causing rupture or fire, possibly resulting in death or serious physical injury.
7. Never expose a battery pack to abnormal shock, vibration or pressure. The battery pack internal protective device will fail, causing it to overheat or ignite resulting in explosion or fire, possibly resulting in death or serious physical injury or liquid leakage.

WARNING !

Never allow leaking caustic electrolyte from the battery pack to contact your eyes, body or clothing.

- If caustic electrolyte from the battery pack should contact your eyes, immediately wash your eyes with large amounts of running water and obtain prompt medical attention, to help prevent permanent eye damage.
- If electrolyte should contact any part of your body, immediately wash it off under running water to help prevent skin rashes.
- If electrolyte should contact your clothes, promptly remove them to help prevent the electrolyte from contacting your body.

CAUTION !

Never dispose of used battery packs with other ordinary solid wastes, since they contain toxic substances. Always dispose of used battery packs in compliance with local, state and federal regulations that apply to the disposal of batteries.

CAUTION !

Never continue to use a battery pack after its recharging capability has become drastically diminished.

NOTE

1. Always confirm that a “clicking” sound has resulted, when installing the battery pack in the external drive. That sound confirms that the battery pack has been securely inserted.
2. When installing new software or using Product Recovery CD, always operate the external drive with an AC adaptor.

POWER CORDS

WARNING !

1. Never use a worn or damaged AC adaptor power cord or plug, or a worn or damaged extension cord or plug. The use of a worn or damaged power cord or plug could result in electric shock or fire.

Always contact an authorized Freecom service provider immediately, to obtain a suitable replacement.

2. Never attempt to connect or disconnect a power plug with wet hands, to prevent a possible electric shock.
3. Never bend or twist a power cord, and never pull on a power cord in an attempt to remove the plug from a socket. Always grasp the plug directly when unplugging a power cord, to avoid causing any damage to the cord which might result in electric shock or fire.
4. Never place heavy objects on a power cord, as this could result in damage to the cord and result in electric shock or fire.
5. Never place a power cord near a heat source, as damage to the cord or to its insulation could result and result in electric shock or fire.
6. Never plug the AC adaptor into an overloaded multiple socket, power strip or
7. Always confirm that the AC adaptor plug (and the extension cord and plug, if any) have been fully inserted into the socket, in order to assure a secure electrical connection, and to prevent any risk of fire.

AC ADAPTOR

! DANGER !

Never attempt to disassemble or repair an AC adaptor, and never alter their power cords or plugs, as exposure to electric shock hazards will result.

Always contact an authorized Freecom service provider, if repair or replacement is required.

WARNING

1. Always use the Freecom AC adaptor that have been provided with your external drive, or use authorized Freecom alternate models, to avoid any risk of fire or other damage to the external drive. Bodily injury or property damage will occur as a result of the use of an unauthorized and incompatible AC adaptor, in violation of this warning.
2. Never cover the AC adaptor with any object while it is in use and never place it adjacent to a heat source. An excessive temperature increase could result and cause fire or device failure.
3. Never plug the AC adaptor into a power source that does not correspond to both the Voltage and the Frequency specified on the rating-plate of the unit, as fire will result.

CAUTION !

1. Never place an AC adaptor on a wooden surface (or any other surface that could be marred by exposure to heat) while it is in use, since its surface temperature increases during normal use. Always rest it on a suitable heat- insulating material.
2. When the external drive is not in use, always disconnect the AC adaptor from the power source. Leaving the AC power source connected to the external drive could shorten the life of the battery pack.

CAUTION !

Always use a surge protector when utilizing the AC adaptor during an electrical storm. Otherwise, a power surge could result in the loss of stored data.

SAFE USE OF YOUR EXTERNAL DRIVE ABOARD AN AIRCRAFT**WARNING !**

Always request and obtain the prior consent and approval of an authorized airline representative before using your external drive aboard an aircraft. Failure to obtain the prior consent and approval from the airline may result in your unwittingly interfering with aviation equipment onboard, leading to an accident and thereby resulting in the possibility of death or serious physical injury.

USAGE RESTRICTIONS

Never incorporate this Freecom external drive into a system that will be used to control the following critical equipment:

- a. Equipment directly linked to the protection of human life, including:
 - Medical monitoring equipment, life support systems and equipment used in hospital operating rooms.
 - Exhaust systems used for venting poisonous gases and smoke.
 - Equipment used to perform life-saving functions mandated by law, (e.g., as required for fire-fighting under the Canadian Fire Services Act).
 - Other equipment comparable to that in the examples cited above.
- b. Equipment directly linked to the protection of human safety or affecting the performance of a vital public safety function, such as:
 - Traffic control equipment for air, railroad, highway and marine transportation.
 - Equipment used in atomic power plants.
 - Other equipment comparable to that in the examples cited above.
 - The control of such critical equipment requires the use of specially designed devices that employ redundant, fail-safe circuitry.
 - This external drive has not been designed for those types of uses.

Important Information on using cellular phones with your external Drive

Freecom recommends that you keep a distance of at least 30 cm (approximately 12 inches) between cellular phones and the external Drive. Use of cell phones in close proximity to the drive may interfere with audio playback.

Chapter GB-3: Maintaining a Safe Work Environment

INTRODUCTION

- Freecom external drives have been designed to be compact, light-weight and extremely portable, (and they include a self-contained battery pack), so that they can be easily carried and used almost anywhere.

Proper use of a Freecom external drive does not pose any health hazards. When used in accordance with the safety instructions in this manual they also offer an alternative to external drive users who wish to avoid exposure to the additional sources of electromagnetic field (EMF) emission that may be present in desk-top PCs.

- The safety instructions in this manual should therefore always be followed, to avoid the adverse consequences that could otherwise result from the misuse of Freecom external drive under sub-optimum field conditions.

AVOIDANCE OF EXPOSURE TO EMF EMISSIONS

NOTE

1. Extremely Low Frequency (ELF) Emissions (50 Hz (Europe) or 60 Hz (US))
 - a. Since Freecom external drives are low-voltage direct current (DC) devices, this external drive emits no EMF (Electromagnetic Field) energy in the ELF range when it is being powered by its internal battery pack.
 - b. This Freecom external drive, however, can also be powered by an alternating current (AC) Adaptor, which converts a 50 Hz or 60 Hz AC power source to DC.

When this Freecom external drive is being powered by an AC adaptor, the AC adaptor and its associated AC power cord may themselves emit low levels of ELF energy. The intensity levels of those ELF emissions however, even in close proximity to the AC adaptor and its associated AC power cord, is relatively low in comparison to those of other common household appliances.

The minute levels of EMF energy in the ELF range that are emitted by the AC adaptor and its AC power cord pose no known health hazards to human beings.

2. Radio Frequency (RF) Emissions

- a. External drives generate digital timing pulses at frequencies within the RF range, and consequently may emit minute levels of stray EMF emissions in the RF range.

As a result, all desk-top and external drives are required to comply with the US Federal Communications Commission (FCC) Standards for "Class B" digital devices, the Canadian Interference-Causing Equipment Regulations and the European Community Standards.

("Class B" digital devices are authorized for use in residential environments and are not permitted to intentionally emit RF energy. Nevertheless, they are permitted to unintentionally emit low levels of RF energy, as a result of the generation of digital timing pulses by their clock oscillator circuits).

- b. The allowable levels of RF energy that may be emitted by external drives are severely limited in their intensity by the existing FCC Regulations (47 CFR Section 15.109 (a)), Canadian ICE Regulations and European Community Standard N55022, to prevent interference with reception on nearby radio and T.V. receivers.

Freecom external drives have therefore been equipped with internal shielding, to significantly reduce the stray emission of RF energy.

Nevertheless, airlines may prohibit the use of all external drives (and any other portable electronic devices that could emit stray RF energy) during takeoffs and landings, because of possible interference with the reception of signals by airborne electronic navigation devices.

- c. FCC regulations, ICES, and European Standards for “Class B” digital devices severely limit the levels of RF energy that may be emitted by a external drives.

The resulting emissions therefore also fall well within the allowable limits that have been adopted by OSHA in 29 CFR 1910.97, and that have been adopted by the promulgators of all other know regulations and standards that relate to the emission of EMF energy in the RF range.

Consequently, the minute levels of EMF energy in the RF range that are emitted by Freecom external drives comply with all existing regulations and standards, and pose no known health hazards to human beings.

Chapter GB-4: Warranty (valid in Europe/Turkey only):

All Freecom products come with unlimited technical phone and web support. By this Guarantee, Freecom warrants their products to be free from defects in material and workmanship for a period listed below from the date of its original purchase. If during this period of guarantee the product proves defective due to improper materials or workmanship, Freecom will, without charge for labour or parts, at its sole discretion, repair or replace the product or its defective parts upon the terms and conditions set out below.

Conditions

This guarantee will be granted only when the original invoice or sales receipt (indicating the date of purchase, product and serial number) is presented together with the defective product and a Freecom RMA number received from the Freecom Website or given by a Freecom Service Center. Freecom reserves the right to refuse the free-of-charge guarantee services when the date of purchase of the product cannot be proven. This guarantee will not apply if the RMA number is missing, the serial number on the product has been altered, removed or made illegible.

This guarantee covers only the hardware components packaged with the product. This guarantee covers none of the following: (a) any consumable supplied with the product, such as media or batteries; (b) damage to or loss of any software programs, data or removable storage media; (c) any damage resulting from adaptations, changes or adjustments, which may have been made to the product, without the prior written consent of Freecom; (d) attempted repair by any party other than authorized by Freecom and (e) accidents, lightning, water, fire or any other such cause beyond the reasonable control of Freecom.

With respect to all services provided, Freecom is not responsible for any damage to or loss of any programs, data or other information stored on any media or any part of any product serviced. Freecom is not liable for the consequence of business loss in case of system failure. Be sure to exclude all parts not covered by this guarantee prior to returning the product to Freecom. Freecom is not liable for any loss or damage to these items. If during the repair of the product the contents of the hard drive are altered, deleted or in any way modified, Freecom is not liable whatsoever.

Repair parts and replacement products will be provided on an exchange basis and will be either new, equivalent to new or reconditioned. All replaced parts and products become the property of Freecom. The period of guarantee for any product or part repaired or replaced in warranty shall be the balance of the original guarantee. Repairs or replacements on product or parts out of warranty carry 6 (six) months guarantee. All Freecom products come with unlimited free technical phone and web support.

LIMITED WARRANTY

Freecom does not warrant that operation of this product will be uninterrupted or error free. You must read and follow all set-up and usage instructions contained in this Instruction Manual and in any other Manuals that have been provided with this External Drive. If you fail to do so, this device will not function properly and you may lose data or suffer other damage.

EVEN IF YOU DO SO, HOWEVER, FREECOM MAKES NO GUARANTEE OR WARRANTY THAT THIS PRODUCT WILL FUNCTION PROPERLY IN ALL CIRCUMSTANCES. IN NO EVENT WILL FREECOM BE LIABLE TO YOU OR TO ANY THIRD PARTY FOR ANY DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT, TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW.

Chapter GB-5: Important Information for your Freecom External Drive

FCC information

Product Name: Freecom External Drive

Model number: FX-xx, FS-xx, Classic xx

FCC notice „Declaration of Conformity Information“

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Only peripherals complying with the FCC limits may be attached to this equipment. Operation with non-compliant peripherals or peripherals not recommended by Freecom is likely to result in interference to radio and TV reception. Shielded cables must be used between the external devices, USB port, and microphone jack. Changes or modifications made to this equipment, not expressly approved by Freecom or parties authorized by Freecom could void the user's authority to operate the equipment.

FCC conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Contact:

Freecom Technologies GmbH
Zeughofstraße 1
10997 Berlin
Germany

EU Declaration of Conformity



Freecom declares, that the product: FX-xx, FS-xx, Classic xx conforms to the following Standards:

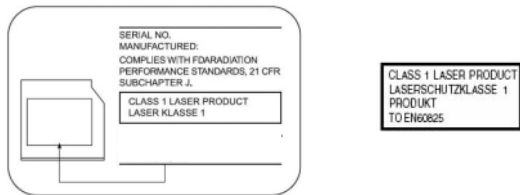
Supplementary Information:

"The product complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/ EEC and/or the R&TTE Directive 1999/05/EEC." This product is carrying the CE-Mark in accordance with the related European Directives. Responsible for CE-Marking is Freecom Europe, Zeughofstraße 1, 10977 Berlin, Germany.

Safety instruction

The drive employs a laser system. To ensure proper use of this product, please read this instruction manual carefully and retain for future reference. Should the unit ever require maintenance, contact an authorized service location. Use of controls, adjustments or the performance of procedures other than those specified may result in hazardous radiation exposure. To prevent direct exposure to the laser beam, do not try to open the enclosure.

Location of the required label



CAUTION!

This appliance contains a laser system and is classified as a "CLASS 1 LASER PRODUCT." To use this model properly, read the instruction manual carefully and keep this manual for your future reference. In case of any trouble with this model, please contact your nearest "AUTHORIZED service station." To prevent direct exposure to the laser beam, do not try to open the enclosure.

Following information is only for EU-member states:



The use of the symbol indicates that this product may not be treated as household waste. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.