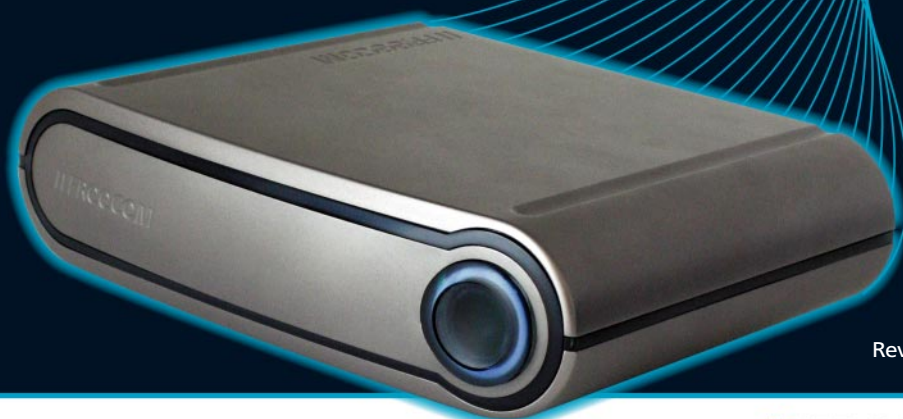


FHD - 3

USB 2.0 / USB 2.0 & FireWire version



Rev. 426

Keep it simple

FreeCOM
TECHNOLOGIES

Dear user!

Thank you for choosing the **Freecom FHD-3** external hard drive. For optimal use and performance we advise you to read this manual carefully before using this product.

Freecom Technologies • Germany
www.freecom.com

Contents of the box

Please check the contents of the box; the following items should be included:

- Freecom FHD-3 external hard drive
- Power Adapter
- Interface Cable
- Footstand
- CD-ROM with manual, driver and application software
- Quick Install Guide
- Warranty card + envelope

Warning !

All rights reserved. The products named in this manual are only used for identification purposes and may be trademarks or registered trademarks of the respective companies. This device was designed for home or office use.

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

The following hardware and software requirements must be fulfilled to ensure trouble-free operation.

Hardware Requirements

In order to use the Freecom FHD-3, following components are needed:

- Intel Pentium II 233MHz or higher
- 64MB RAM or higher
- CD-ROM drive for installing drivers and/or software
- USB-2 version: Available USB 2.0 or USB 1.1 port*
- USB-2 & FireWire version: Available USB 2.0 or USB 1.1 port* and/or FireWire interface
- Internet connection for online warranty registration and driver/software updates and downloads

Software Requirements

- Windows 98 SE
- Windows ME
- Windows 2000
- Windows XP

* USB 2.0 is downwards compatible to USB 1.1. To achieve optimal performance from the Freecom FHD-3 your PC should be equipped with an USB 2.0 port.

Precautionary measures

To ensure that your Freecom FHD-3 functions properly, please take note of the following precautions. If these are not followed, you may void your warranty and damage the FHD-3.

- Safely remove the FHD-3 via your operating system (the "unplug or eject hardware" option in the Windows taskbar) before disconnecting the Cable or the power cable. Failing to do so may result in data loss.
- Do not drop the Freecom FHD-3 or expose it to other kinds of sudden mechanical shocks as this may result in data loss and damage to the hard drive.
- Do not use the Freecom FHD-3 when the ambient temperature is below 10°C or above 45°C.
- If the Freecom FHD-3 is moved from a cool environment to a warmer environment, please allow the drive to acclimatize to the ambient temperature before operating the device. Failing to do so may lead to condensation within the drive enclosure, which in turn may cause the drive to malfunction.
- Do not place liquids or drinks on the FHD-3. When liquids are spilled and get in contact with the electronics within the drive enclosure, it will damage the drive and will cause the drive to malfunction.
- Do not use the FHD-3 in a dusty environment. Dust inside the enclosure may damage the internal electronics and result in drive malfunction.
- Only use the power adapter that was supplied with the FHD-3.
- Opening the FHD-3 will void the warranty.

Note: Since USB 2.0 is backwards compatible with USB 1.1, the FHD-3 can be connected to all USB ports. When connected to a USB 1.1 port, however, the performance (data transfer rate) of the FHD-3 will be much lower than when the drive is connected to a USB 2.0 port.

IMPORTANT

The SYNC button on the FHD-3 is designed to work with the Freecom SYNC software, which can be found on the Manual and Software CD. Freecom SYNC uses the Microsoft Briefcase to synchronize files.

When using the Freecom SYNC software, please be aware that all files in the SYNC folder on the FHD-3 are linked to the original files on your PC or network. If you delete a file in the SYNC folder, its original will be deleted during the next synchronization, too! To avoid this, you have to 'Split From Original' the file prior to deleting it. Please refer to chapter 4 for further information on Freecom SYNC and Microsoft Briefcase.

Freecom FHD-3 external hard drive

If you are looking for maximum performance, maximum storage capacity and maximum reliability from an external hard drive, the Freecom FHD-3 is the right choice. The hi-speed data transfer through the USB 2.0 and/or FireWire interface makes it ideally suitable for data-storage, file sharing, backup, archiving, digital video editing, audio playback and all applications that need fast file access.

For your convenience, the Freecom FHD-3 has been partitioned (1 partition) and pre-formatted (FAT32 file system). The FAT32 format ensures maximum interchangeability of the FHD-3 between different computers. Should you choose to format the FHD-3 in another file system (e.g. NTFS), please be aware of possible problems when connecting the FHD-3 to another computer than the one you used for formatting.



Note: do not cover the ventilation holes; these are essential for maintaining the correct operating temperature for the FHD-3.

Footstand



The FHD-3 can be positioned both horizontally and vertically. If you want to position the drive vertically you have to use the supplied footstand.

Please note that the footstand can only be attached in one way to the drive. The hooks on the footstand and the corresponding slots in the FHD-3 are designed in such a way that the footstand will only fit easily when attached in the right orientation.

Kensington Lock



The FHD-3 has a Kensington Lock slot at the rear of the drive, to secure the drive to a fixed object (your desk for instance). The Kensington system is one of the world's most used anti-theft hardware-lock systems.

Options:

- FireWire Cable for FHD-3
- Additional Cable USB
- Additional Power Adapter

See www.freecom.com for these and other Freecom products, or contact your local Freecom reseller/dealer.

Recommended sequence of installation

1. Install Freecom Personal Media Suite software.
2. Connect the interface cable and the power cable to the drive and plug the power supply unit into the socket. Plug the interface Cable into the appropriate slot of your computer.
3. (Only Windows 98 SE:) Install all necessary drivers.

Please refer to chapters 1-3 for a detailed description of the hardware and software installation.

Chapter 1: Installation of the Freecom Personal Media Suite software

If you want to use the SYNC button on the FHD-3, you need to install the Freecom Personal Media Suite software first.

Note: To use the functions of the Freecom Personal Media Suite described in this handbook, your Freecom FHD-3 has to be connected to your PC.

1.1 Installation of the Freecom Personal Media Suite

1. Insert the FHD-3 Software & Manual CD into your CD drive. The Freecom start menu opens:



In case the software does not open automatically, please click on "Start" in the main directory of the CD.

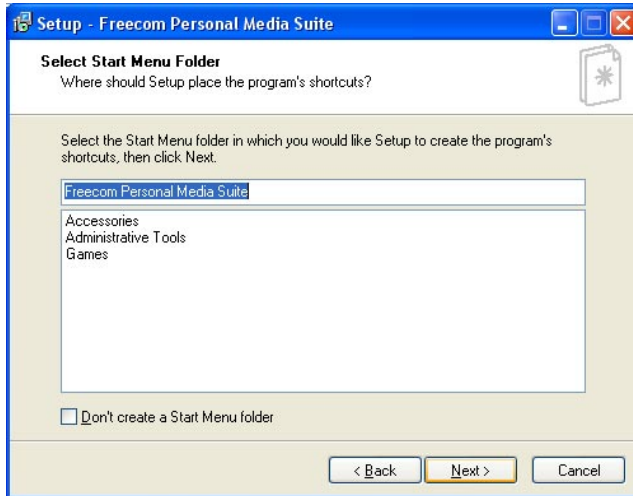
2. Click on "Install Software" and select "Freecom Personal Media Suite". The installation of the Freecom Personal Media Suite starts now. Follow the instructions on the screen, confirm with "Next" in order to continue with the installation.



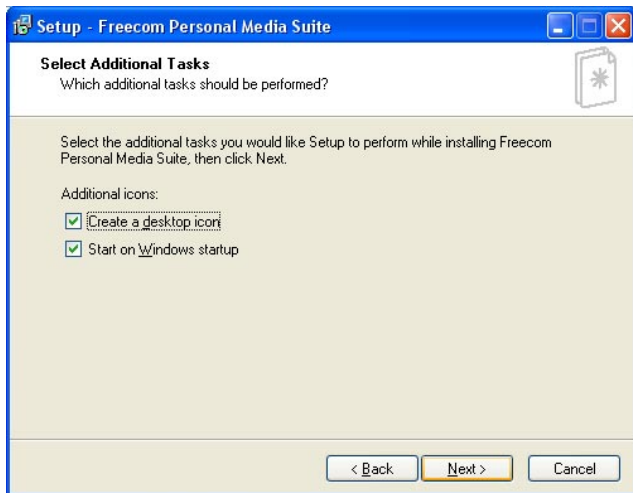
3. Please read the licencing agreement carefully. To accept the licencing agreement, confirm with "Yes". Note: Clicking on "No" ends the installation. Select the target folder and program folder in the start menu in which the Freecom Personal Media Suite symbol is to appear.



4. Default target folder is C:\Programs\Freecom Personal Media Suite. You can select a different target folder for the program files by selecting another folder on your hard drive.



5. In the dialogue "Options" you can select whether to create a link to the Freecom Personal Media Suite Software on the desktop and whether the program should be started automatically when starting Windows. It is recommended to select both options for better operation of the Freecom Personal Media Suite.



6. Click on "Next" to start the installation. All necessary program files are now written on the hard drive of your computer.
7. In the last window, you will be asked whether you want to start Freecom Personal Media Suite now. It is recommended to select this option so that you can configure the software for your FHD-3. Please click on "Finish".

1.2 Deinstallation of the Freecom Personal Media Suite

In order to remove the Freecom Personal Media Suite from your computer, please proceed as follows:

1. In the "Start" menu, please click on "Programs" - "Freecom Personal Media Suite".
2. Select "Uninstall Freecom Personal Media Suite". The software is now removed from your computer.

Chapter 2: Hardware Installation



1. Connect the interface cable to the Freecom FHD-3.

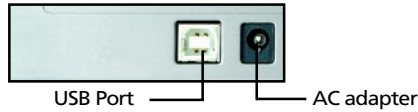


2. Connect the cable of the power supply to the FHD-3 and the power supply itself to the socket.



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

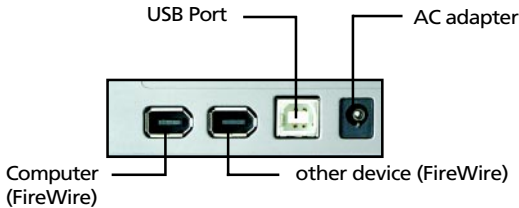
USB 2.0 version



Remark (if your drive is connected to the computer via USB): Since USB 2.0 is backwards compatible with USB 1.1, the FHD-3 can be connected to all USB ports. When connected to a USB 1.1 port, however, the performance (data transfer rate) of the FHD-3 will be much lower than when the drive is connected to a USB 2.0 port.

Connect the FHD-3 to the computer only on the USB or FireWire interface.

USB 2.0 & FireWire version



Remark (if your drive is connected to the computer via FireWire): You can connect further devices on the second FireWire socket if your drive is connected to the computer via FireWire.

For optimal performance, the FHD-3 should always be connected to a USB 2.0 port or FireWire port.

Recommended after Hardware installation

(only Windows 98:) After you connected the FHD-3, please start with the driver installation, as in chapter 3 described.

(Windows ME / 2000 / XP:) Under Windows ME / 2000 / XP a separate Freecom driver is not required. The drivers for Windows ME, Windows 2000 and Windows XP will be installed automatically by the operating system after plugging in the Freecom FHD-3 into the USB port of the computer.

Your Freecom FHD-3 is fully backwards compatible with USB 1.1.

Chapter 3: Driver installation

Under Windows ME / 2000 / XP a separate Freecom driver is not required. The drivers for Windows ME, Windows 2000 and Windows XP will be installed automatically by the operating system after plugging in the Freecom FHD-3 into the USB port of the computer.

3.1 FHD-3 USB 2.0 version

Driver installation USB under Windows 98 SE

Note: Your Freecom FHD-3 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. Insert the Freecom Manual and driver CD into the CD-ROM drive.
2. Connect your Freecom FHD-3 to the USB connector of your notebook or computer.
3. The "Add New Hardware Wizard" opens and a "USB 2.0 Device" (USB 2.0 PCI Host Controller) or a "USB2-IDE Controller" (USB 1.1 connector) is found.



Click on "Next".

4. In the next window select "Search for the best driver for your device. (Recommended)". Click on "Next".



5. Make sure that the checkbox "CD-ROM drive" is activated in the next window.



Continue by clicking on "Next".

6. The Hardware Wizard finds a "Freecom Freecom FHD-3".



By clicking on "Next" the necessary files will be installed. Afterwards click on "Finish" to complete the installation. Congratulations! You've just finished to install the Freecom FHD-3 and the external hard drive is almost ready to use.

3.2 FHD-3 USB 2.0 & FireWire version

Driver installation USB under Windows 98 SE

Connect the FHD-3 to the computer only on the USB or FireWire interface.

Note: Your Freecom FHD-3 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. Insert the Freecom Manual and driver CD into the CD-ROM drive.
2. Connect your Freecom FHD-3 to the USB connector of your notebook or computer.
3. The "Add New Hardware Wizard" opens and a "USB 2.0 Device" (USB 2.0 PCI Host Controller) or a "USB2-IDE Controller" (USB 1.1 connector) is found.



Click on "Next".

4. In the next window select "Search for the best driver for your device. (Recommended)". Click on "Next".



5. Make sure that the checkbox "CD-ROM drive" is activated in the next window.



Continue by clicking on "Next".

6. The Hardware Wizard finds a "Freecom Freecom FHD-3".



By clicking on "Next" the necessary files will be installed. Afterwards click on "Finish" to complete the installation. Congratulations! You've just finished to install the Freecom FHD-3 and the external hard drive is almost ready to use.

Driver installation FireWire under Windows 98 SE

The required driver for is automatically installed under Windows ME / 2000 / XP once the FireWire cable has been inserted and it is immediately allocated a drive letter.

Note: FireWire is only supported by Windows 98 SE (and above). If you are using an older version, you must first update Windows.

1. The driver database is loaded automatically after you have connected the FireWire cable to the PC.
2. (Only when you need) Now place the "Windows 98 Installation CD" in your internal CD-ROM drive.
3. The "Hardware assistant" window appears on the screen. Click on "Next".
4. Select the item "Search for the best driver for the device" (Recommended) and confirm with "Next".
5. The CD-ROM drive for the "Windows 98 Installation CD" driver installation is selected in the next window. If the search in the CD-ROM drive has not yet been activated, you should dial this point. Confirm with "Next".

6. The next window shows the driver file found on the CD-ROM. Confirm with "Next".
7. Click on "Finish" in the next window.
8. In order for the changes to take effect, you must restart your computer.

Note: You can plug the drive in and unplug it at the FireWire port while the PC is running. The drive will be recognized automatically under "My Computer" when it is reconnected ("hot plug & play").

Chapter 4: Daily use of the FHD-3 with Freecom Personal Media Suite software

4.1 Creating a SYNC folder

After the installation of the FHD-3 is finished, the Freecom SYNC folder will be created automatically when Freecom Personal Media Suite was installed before. If not, please refer to chapter 4.3 (Creating a new SYNC folder).

4.2 The SYNC button and status of LEDs



The FHD-3 is equipped with a SYNC button which enables you to synchronise files between your computer and the FHD-3 (and vice-versa).

The synchronisation process occurs simply by the push of a button. The SYNC button only works if the Freecom Personal Media Suite Software is installed on your computer. For information regarding software installation, please refer to Chapter 1 (Installation of the Freecom Personal Media Suite Software).

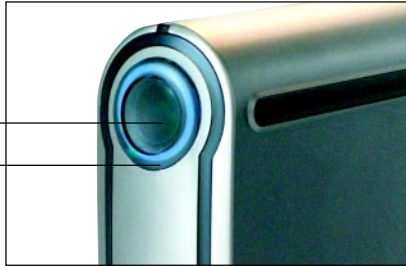
Status of LEDs

GB

3

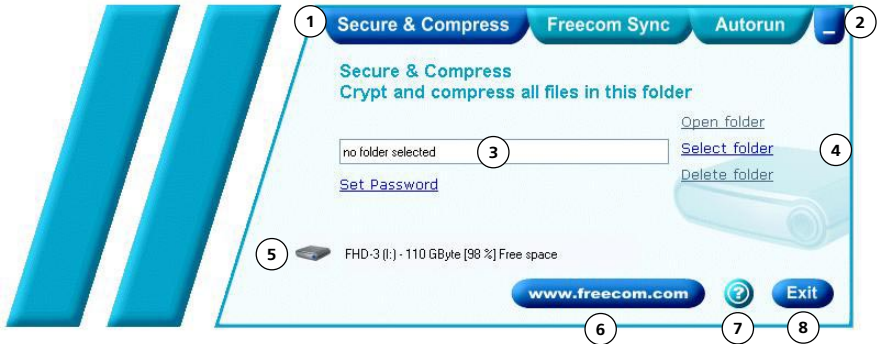
LED button

LED ring



- LED ring on: FHD-3 on
- LED ring flickers: Access to the FHD-3
- LED button on/
LED ring flickers: SYNC button pressed/
Data transfer / Synchronisation

Chapter 5: The User Interface of the Freecom Personal Media Suite



- 1 Tabs for configuration of the Freecom Personal Media Suite components
 - Secure & Compress
 - Freecom SYNC
 - Autorun
- 2 Minimises Freecom Personal Media Suite in the taskbar
- 3 Input field (also shows the selected folder)
- 4 User menu
- 5 Connected FHD-3 (drive letter + available memory capacity)
- 6 Link to www.freecom.com. Click on this to access the Freecom homepage. Here you can find further information about your FHD-3.
- 7 Quick Help for Freecom Personal Media Suite
- 8 Minimises Freecom Personal Media Suite in the system tray.

5.1 Configuration

To open the configuration menu, please right-click on the Freecom Personal Media Suite icon in the system tray and select "Configuration":

1. "Show splash screen": Deactivate this function to prevent the display of the start screen when starting the program.
2. "Start program on Windows start": Starts the Freecom Personal Media Suite in the background with every Windows start. You will know this by the icon of the Freecom Personal Media Suite in the system tray.

Important: We recommend to leave the function "Start program on Windows start" activated under all circumstances in order to be able to use all the functions of the Freecom Personal Media Suite (e.g. "Autorun", "SYNC on Freecom drive plug-in")!

5.2 Autorun

The "Autorun" function enables you to open or start documents, files or programs automatically when your Freecom FHD-3 is connected to your PC. Automatically start, for example, the last document you were working on, MP3 play lists, your favourite film and much more. These files do not have to be on your FHD-3 for this.



5.2.1 Adding files / folders

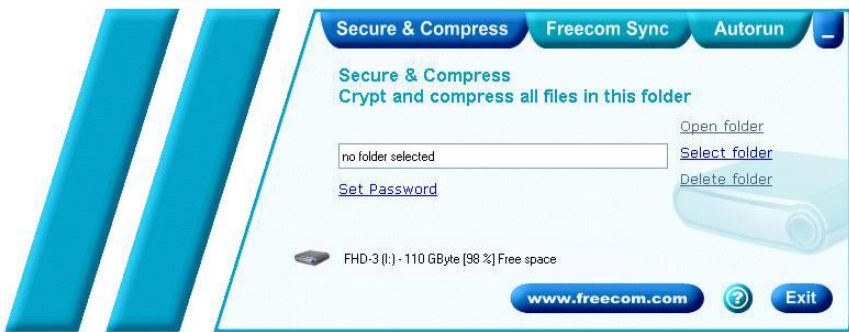
1. Open the Freecom Personal Media Suite and select the "Autorun" tab.
2. Add files, folders and programs to the Autorun list by either clicking on "Add file" and selecting the corresponding file or by pulling the files into the Autorun list field using drag&drop.
3. For folders, please select "Add folders" or pull a folder into the Autorun list field using drag&drop.
4. Alternatively, you can create a new folder on your FHD-3 using the "Add folder" function by clicking on "Create new folder", naming the folder and selecting it.

5.2.2 Removing files / folders from the Autorun list

1. Open the Freecom Personal Media Suite and select the "Autorun" tab.
2. Select the file or the folder to be removed in the Autorun list field.
3. Click on "Remove". The corresponding entry is removed from the list.

5.3 Secure&Compress

The Secure&Compress function serves to compress and encrypt your documents. Unauthorised access to your personal data is therefore impossible.



5.3.1 Add / Select Folders

1. Open the Freecom Personal Media Suite and select the tab "Secure&Compress".
2. Click on "Change folder" and select the folder on your Freecom FHD-3 whose content is to be compressed and encrypted.
3. Alternatively, you can create a new folder to be encrypted on your FHD-3 using the "Change folder" function by clicking on "Create new folder", naming the folder (e.g. "Secure") and selecting it.

In the selected folder, all files - even in sub-directories - are compressed and then encrypted.

The active Secure&Compress folder is easily recognised on your FHD-3 by the "Padlock".

5.3.2 Opening the Secure&Compress folder

1. Open the Freecom Personal Media Suite and select the tab "Secure&Compress".
2. Click on "Open folder" in order to open the Secure&Compress folder.
3. If the Freecom Personal Media Suite is already open and has started minimised in the taskbar, you can also open the Secure&Compress folder with a right-click on the taskbar symbol of the Freecom Personal Media Suite:

Open
Open Secure & Compress folder «Secure»
Configuration
Exit

4. Naturally you can also open the Secure&Compress folder over the Windows Explorer.

5.3.3 Encrypting files and folders

1. Open the Secure&Compress folder.
2. Pull the files or folders to be encrypted in the Secure&Compress folder using the drag&drop function. Each file is now compressed and then encrypted.
3. The first time you will be requested to enter and confirm a password. Select "Save password on this computer" if you do not want to be requested to enter a password again.
4. Alternatively, you can also right-click on the files or folders and select the Secure&Compress folder in the context menu under "Send to ...".

5.3.4 Decrypting files and folders

In order to decrypt files and folders which are in the Secure&Compress folder, please proceed as follows:

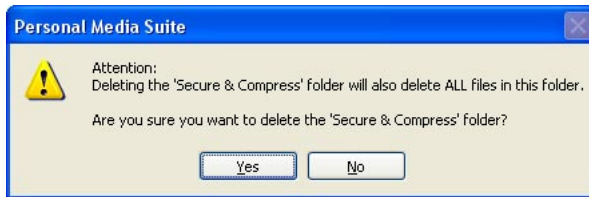
1. Open the Secure&Compress folder.
2. Select the file(s) or folder(s) to be decrypted and pull them into the target folder (e.g. with the Windows Explorer) using drag&drop.
3. Your files are now decrypted and decompressed. The encrypted original remains on the FHD-3.

5.3.5 Deleting the Secure&Compress folder

Click on "Delete folder" in order to delete the selected Secure&Compress folder.

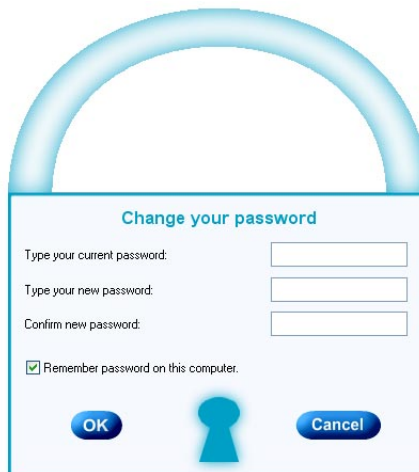
ATTENTION: All files in the folder are irrevocably deleted!

Before the deletion, a security request is carried out whether you really want to delete the folder:



5.3.6 Changing the password

1. Open the Freecom Personal Media Suite and select the tab "Secure&Compress".
2. Click on "Change password". The following window opens:



3. Please enter your current password in the top input field. Enter your new password in the middle input field and confirm it in the bottom input field.

Please note: Your changed password applies to all files and folders encrypted from the time of the change. For files and folders which were encrypted before, the password which was used for encryption remains.

Changes of the password do not apply to files and folders already encrypted!

5.4 Freecom SYNC

5.4.1 What is Freecom SYNC?

The Freedom SYNC integrated in the Freecom Personal Media Suite is a program for synchronising files. The computer serves as origin of the data. This data can be processed on any number of other computers.

Example:

You create a document at work and want to work on it at home (Freecom Personal Media Suite is installed on your PC at work):

- Copy the document from the PC at work to your Freecom SYNC folder on your FHD-3.
- Open the document at home directly out of the Freecom SYNC folder. Work on it and save it in the Freecom SYNC folder.
- Connect the Freecom FHD-3 to your PC at work and press the SYNC button on your FHD-3. The document will now be synchronized between your PC at work and the Freecom FHD-3. While synchronizing, only modified files will be replaced by newer files.



5.4.2 Creating a new SYNC folder

1. Open the Freecom Personal Media Suite and select the tab "Freedom SYNC". Click on "Change" and select a folder on your FHD-3.
2. Alternatively, you can create a new SYNC folder on your FHD-3 using the "Change folder" function by clicking on "Create new folder", naming the folder (e.g. "SYNC") and selecting it.
3. Click on "Complete" so that the new folder is created. Then opens the Freecom SYNC folder.

5.4.3 Opening the SYNC folder

1. Open the Freecom Personal Media Suite and select the tab "Freedom SYNC".
2. Click on "Open folder" in order to open the SYNC folder.
2. If the Freecom Personal Media Suite is already open and has been started minimised in the taskbar, you can also open the SYNC folder through a right-click on the taskbar symbol of the Freecom Personal Media Suite.

5.4.4 Adding files into the SYNC folder

1. Open the SYNC folder.
2. Pull the respective files or folders in the SYNC folder using the drag&drop function.
3. Alternatively, you can also right-click on the file(s) or folder(s) and select the SYNC folder in the context menu under "Send to ...". Your files/folders are now copied into the SYNC folder.

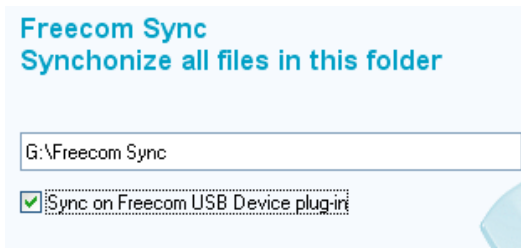
5.4.5 Synchronisation of files and folders

There are three possibilities for the synchronisation of your files:

1. Press the SYNC button of your FHD-3. Your data is now synchronised.
2. Synchronisation of the data when your FHD-3 is connected to your computer.

For this, please proceed as follows:

- a) Open the Freecom Personal Media Suite and click on the tab "Freedom SYNC".
- b) Select a SYNC folder if you have not yet done so.
- c) Activate the function "SYNC on Freecom drive plug-in" in the tab "Freedom SYNC":



Your files are now synchronised each time when you connect your Freecom FHD-3 to your computer (Freecom Personal Media Suite has to be started).

This function is activated as standard when a SYNC folder is created!

3. Starting the synchronisation manually
 - a) Open the Freecom Personal Media Suite and click on the tab "Freedom SYNC".
 - b) Select a SYNC folder if you have not yet done so.
 - c) Click on "Synchronise now" to start the data synchronisation.
 - d) Alternatively, right-click on the system tray icon of the Freecom Personal Media Suite and select "Start synchronisation" there.

5.4.6 Changing the SYNC folder

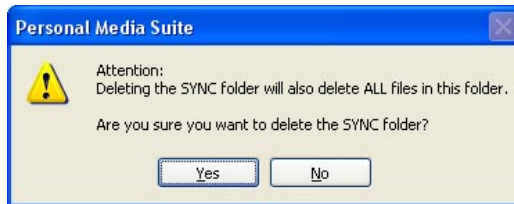
- Open the Freecom Personal Media Suite and click on the tab "Freedom SYNC".
- Click on "Change folder" to select a new folder for data synchronisation.
- Important: The selected folder may not contain any files or folders!

5.4.7 Deleting the SYNC folder

- Open the Freecom Personal Media Suite and click on the tab "Freedom SYNC".
- Click on "Delete folder" in order to delete the active SYNC folder.

ATTENTION: All files in the folder are irrevocably deleted!

Before the deletion, a security request is carried out whether you really want to delete the folder:



5.4.8 Every day use

After you have installed all software, created the SYNC folder and configured the software and FHD-3 you can start using Freecom SYNC to synchronize all your data with the FHD-3. You can use the SYNC function for instance to make backups of important files, to take files from work to your home or on the road.

Usage of the SYNC folder with other computers

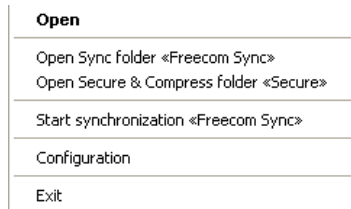
Please follow these instructions if you want to use the SYNC folder with another (second) computer.

All files you want to work with on another computer have to be opened directly out of the Freecom SYNC folder! You should not copy them to another hard disk, as this might cause a later synchronization to perform incorrectly.

Synchronization of new or changed files

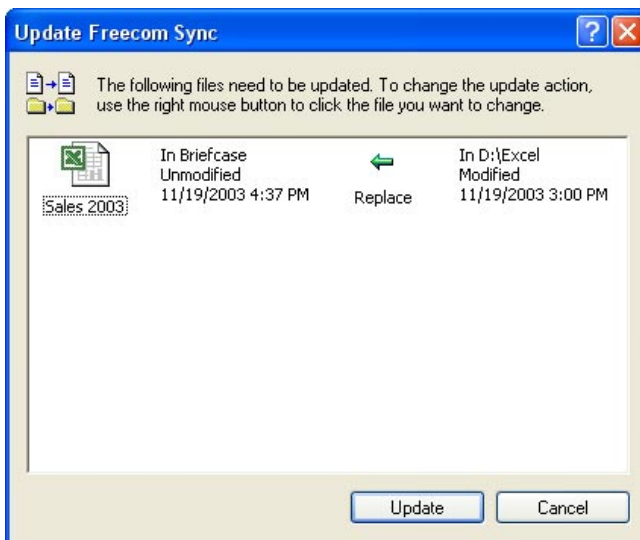
This example shows how you can synchronize files which were changed or created on the FHD-3, with the original files on the primary computer.

1. Connect the FHD-3 with the primary computer.
2. Press the SYNC button or open the context menu on the SYNC icon in the taskbar and click on "Start synchronization".



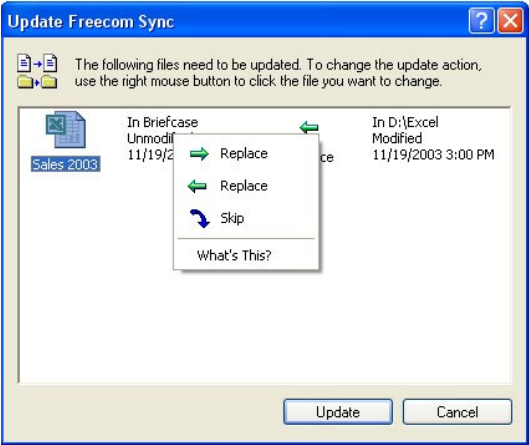
3. A status window appears and the SYNC LED on the FHD-3 starts blinking.

Please select "Update" if you wish to synchronize the file or otherwise select "Cancel". If you choose not to synchronise the file (Cancel) you will be able to synchronize this file during the next synchronization.



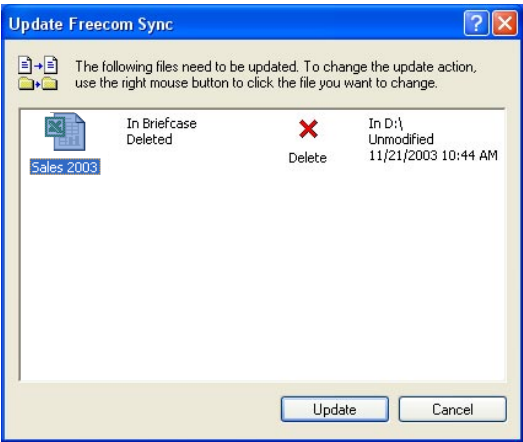
5.5 Skip files during synchronization

If you want to skip just one file out of many, please click on this file with the right mouse button and select "Skip". The green arrow next to the selected file changes to a blue one, indicating that this file will not be synchronized. You will be able to synchronize this file during the next synchronization.



5.5.1 Handling deleted files

Deleting files on either the primary computer or the SYNC folder on the FHD-3 results in a red X next to the file during the next synchronization.

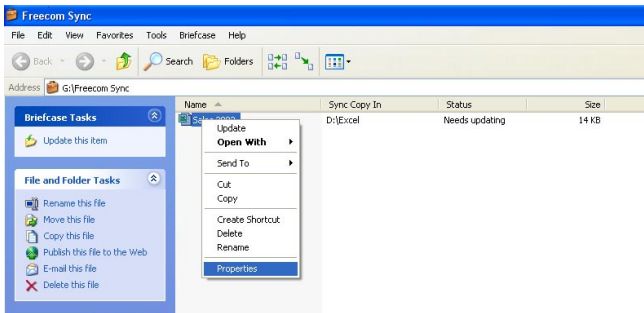


This indicates that the file has been deleted and that its counterpart will be deleted, too. Please select "Update" to proceed.

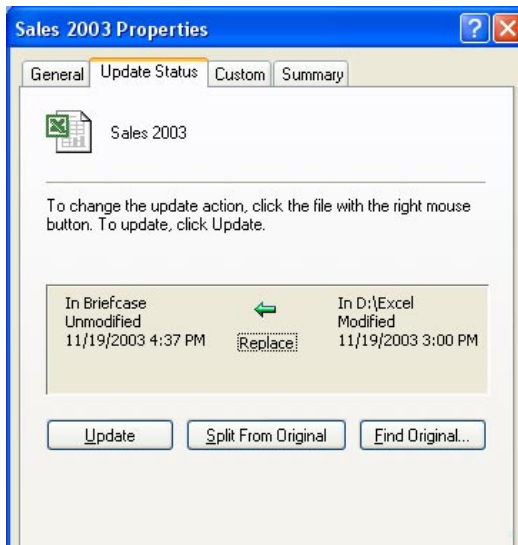
If you wish to keep the file, please click with the right mouse button on the file and select "Don't Delete". The file will not be deleted and will be disregarded during the next synchronization.

If you want to delete a file on either the primary computer or in the SYNC folder and do not want to affect its counterpart, it is necessary to "Split From Original" the files. Please follow the instructions:

1. Select the file or folder you want to delete.
2. Choose "Properties" in the context menu.



3. Select "Update" and "Split From Original".



4. Select "Yes".



5.5.2 What do I need the SYNC-button for?

The FHD-3 comes with a special feature, which is unique for this kind of product: SYNC. SYNC is a combination of hard and software that allows you safe and easy access, transportation and synchronisation of all your data. And you can enjoy all this by just pressing one single button!

To help you start exploring the various ways you can utilize SYNC to make your life easier, we are showing how we think you could use SYNC.

5.5.3 Office use

Have you ever had doubts storing your data on the network of your company only? Sure, there is always a backup of the server but do you really feel good with this 'remote' backup? The FHD-3 is ideal for making a local backup, which stores your data independently from your network or local computer. Simply 'send to' your important files and directories to the SYNC-folder on the FHD-3 and update your backup from time to time by pressing just one single button. This is extremely easy and very fast, because the SYNC-tool only backups changed files via the fast USB-2 connection.

The best thing is, even when your network or local computer is not working, you can take your FHD-3 to any other computer (equipped with an USB-port) and continue. Even at your home-office, where you can be close to the people you love and still having all your business data available. Simply press the SYNC-button before you leave the office and you are always up to date and can work with the data on the FHD-3.

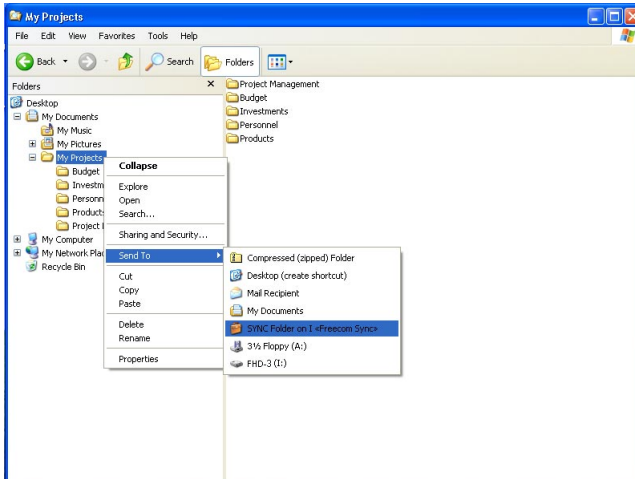
The FHD-3 provides a vast amount of memory – more than most computers are equipped with. It is ideal for storing large graphics or videos. The files can be edited directly from the FHD-3, as its USB-2 connection is fast enough by far.

This is what you have to do:

Follow the instruction in the manual to install the FHD-3 and the SYNC-folder. Mark the files and folders you want to copy to the SYNC-folder. Click with the right mouse button on the files and folders and select 'Send to SYNC folder...'

Done.

Now all your valuable data has been copied to the FHD-3. Every time you push the SYNC-button, all changed or added / deleted files and folders from the selected folders will be synchronized with the data on the FHD-3.

**5.5.4 Home use**

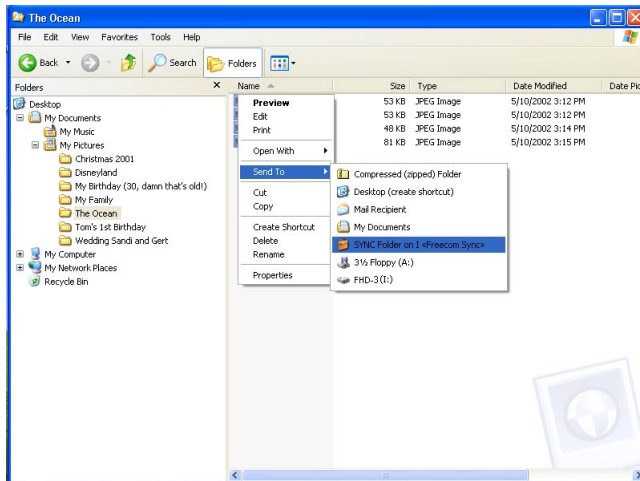
At the office, there is always a backup of your important business data. But how about your data at home? All the memories stored in digital photo's made during your last holiday? Or the first pictures and movies of your children! You do not want to loose those! The FHD-3 is ideal for making a safety backup, which stores your data independently from your computer. Simply 'send to' your important files and directories to the SYNC-folder on the FHD-3 and update your backup from time to time by pressing just one single button. This is extremely easy and very fast, because the SYNC-tool only backups changed files via the fast USB-2 connection. And all your memories are safe...

This is what you have to do:

Follow the instruction in the manual to install the FHD-3 and the SYNC-folder. Mark the files and folders you want to copy to the SYNC-folder. Click with the right mouse button on the files and folders, which contain the pictures or videos you want to be in a safe place and select 'Send to SYNC folder...'

Done.

Now all your valuable data has been copied to the FHD-3. Every time you push the SYNC-button, all changed or added / deleted files and folders from the selected folders will be synchronized with the data on the FHD-3.



Chapter 6: Partitioning your FHD-3

6.1 General information

Your FHD-3 was partitioned and formatted to provide you with the maximum available capacity and compatibility. FAT32 was chosen as file system to assure that you will be able to read your files on any PC. It is recommended not to change the current configuration of your FHD-3.

For some users another file system might fit better for their needs. This manual describes current limitations of most common file systems and Instructions to enable you to adapt the FHD-3 to your needs.

6.2 File System features

Please refer to the tables below for an overview:

File systems supported by different operating systems

Operating system \ File system	FAT	FAT32	NTFS
Windows 98SE	yes	yes	not supported
Windows ME	yes	yes	not supported
Windows 2000	yes	yes	yes
Windows XP	yes	yes	yes

Maximum size of a partition

Operating system \ File system	FAT	FAT32	NTFS
Windows 98SE	2 GB	60 GB ^{*1, 2}	n.a.
Windows ME	2 GB	2 TB ^{*2}	n.a.
Windows 2000	4 GB ^{*3}	32 GB	16 TB
Windows XP	4 GB ^{*3}	32 GB	16 TB

^{*1}: A patch for Windows 98SE is required for hard disk larger than 60 GB. Further information and an update to fix this problem can be found in article 263044 of the "Microsoft Knowledge Base" on the Microsoft Website under <http://support.microsoft.com>.

^{*2}: Hard disk capacity will not be displayed correctly by fdisk!

^{*3}: FAT partitions larger than 2 GB can only be administrated by Windows 2000/XP.

Example for different partitions with different file systems on one FHD-3

Total size of FHD-3 \ File system	NTFS	FAT32
120 GB	90GB	30 GB

The example above is a good solution for Windows 2000/XP users who sometimes exchange data with Windows 98SE/ME PCs.

For storing the data under Windows 2000/XP both partitions can be used. As the NTFS file system is not recognized by Windows 98SE/ME data to be used on these operating systems must be stored on the FAT32 partition.

Please follow the steps below to adapt the FHD-3 for your needs.

6.3 Partitioning your FHD-3 under Windows 98SE / Windows ME

Windows 98SE only: The fdisk version which is installed together with your operating system does not recognize the correct size of hard disks larger than 64 GB.

Windows 98SE/ME: For large partitions fdisk will not display the partition size correctly! Please ignore this as the partitioning results will still be OK.

Further information and an update to fix this problem can be found in article 263044 of the "Microsoft Knowledge Base" on the Microsoft Website under <http://support.microsoft.com>.

6.3.1 Deleting a partition on the FHD-3 under Windows 98SE / ME

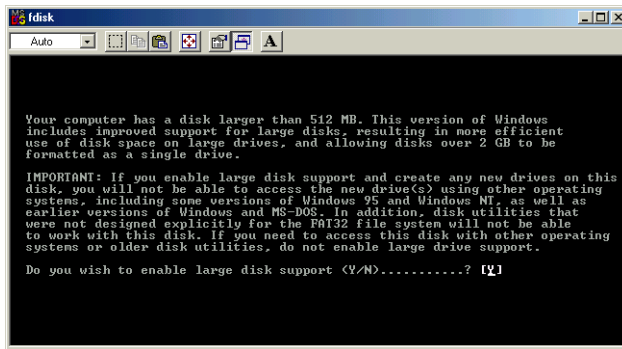
The following steps will explain how to delete a partition on your FHD-3.

1. Click on the "Start" button.
2. Select "Run".
3. Enter "fdisk" and confirm with "OK".
4. fdisk will be started. Answer the question "Do you wish to enable large disk support?" by pressing the 'Return' key. FAT32 is now activated.
5. Choose Option 5 "(Change current fixed disk drive)" by pressing '5' and 'Return'.
6. Select the hard disk to be deleted by its number. ATTENTION: Please make sure that the correct drive is selected. Selecting the wrong drive will lead to a loss of your data!
7. Choose Option "3 (Delete partition or Logical DOS Drive)" by pressing '3' and 'Return'.
8. Your FHD-3 comes formatted as primary partition. Select option 1 "Delete Primary DOS Partition" by pressing '1' and 'Return'.
9. Select the partition to be deleted by pressing its number and 'Return'.
10. Enter the drive label and press 'Return'.
11. Confirm with 'Y' and 'Return' to delete the partition.
12. Press the 'ESC' key to return to the fdisk options.
13. Press 'ESC' to exit fdisk. Stop your hard disk by using the hot unplug icon in the lower right corner of your screen and remove the USB cable from your hard disk. Afterwards connect your hard disk again with your computer. The hard disk will now be recognized by Windows.

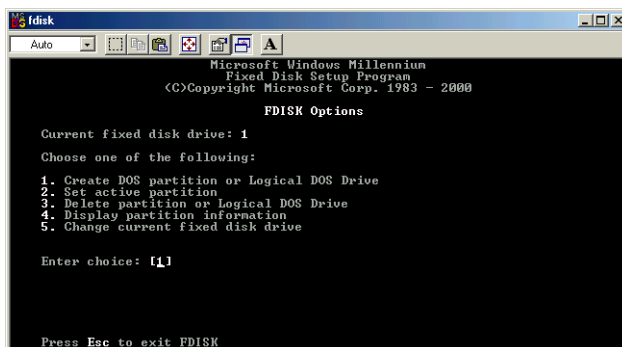
6.3.2 Creating a partition on the FHD-3 under Windows 98 SE / ME

The following steps will guide you the process of creating partitions on your FHD-3 under Windows 98SE/ME. After this procedure your Freecom FHD-3 will be ready for use and it will be allocated a drive letter.

1. Click on the "Start" button.
2. Select "Run".
3. Enter "fdisk" and confirm with "OK".

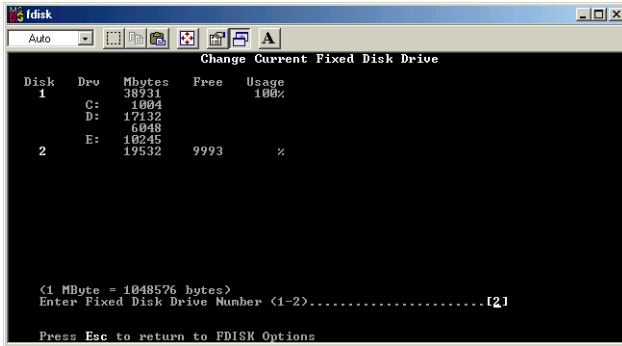


4. Answer the question "Do you wish to enable large disk support?" by pressing the 'Return' key. FAT32 is now activated.
5. Choose Option "5 (Change current fixed disk drive)" by pressing '5' and 'Return'.



6. Select the hard disk by its number where the "Usage" contains no value but only a percent symbol. Select the number of the corresponding hard disk and confirm by pressing the "Return" key.

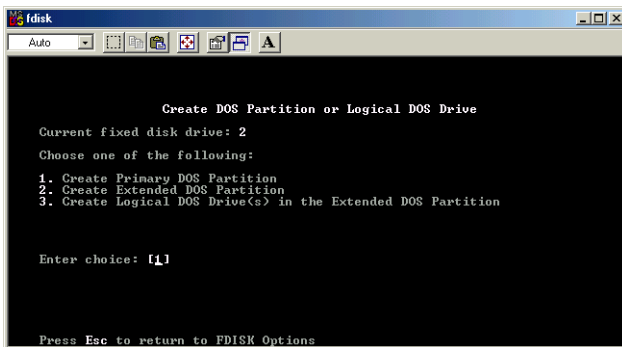
Now your hard disk is activated and ready to be partitioned.



Note: Partition size of large hard disks will not be displayed correctly! However partitioning results will be OK.

7. Select Option 1 "(Create DOS partition or Logical DOS drive)" by pressing '1' and confirm with 'Return'.
8. Select Option 1 "(Create primary DOS partition)" by pressing '1' and confirm with 'Return'.

Wait until drive integrity is completely checked.



9. If only one partition is required then answer "Y" to the question: "Do you wish to use the maximum available size for a Primary DOS partition?" If more than one partition is required go to the next section "Create two or more partitions on the FHD-3 under Windows 98 / Windows ME".

Now the whole disk will be partitioned as one primary partition. Wait until the drive integrity check is completed.

10. Press the 'ESC' key to return to the fdisk options.
11. Now press the 'ESC' key to close the "fdisk window". Your hard disk is now partitioned.

12. Stop your hard disk by using the hot unplug icon in the lower right corner of your screen and remove the USB cable from your hard disk. Afterwards connect your hard disk again with your computer. The hard disk will now be recognized by Windows.

As Windows tries to access your hard disk an error message will appear. This happens, because your hard disk is not yet formatted.

6.3.3 Creating two or more partitions on the FHD-3 under Windows 98SE / ME

1. Repeat steps 1 to 7 from the previous chapter (Create one partition on the FHD-3 under Windows 98SE/Windows ME).
2. Answer the question "Do you wish to use the maximum available size for a primary DOS partition?" with "N".
3. Enter either the size or a percentage value for the partition size. Press 'Return' and wait until the drive integrity check is completed.
4. Press the 'ESC' key to return to the fdisk options.
5. Select Option 1 "(Create DOS partition or Logical DOS drive)" by pressing '1' and confirm with 'Return'.
6. Select Option 2 "(Create Extended DOS Partition)" by pressing '2' and confirm with 'Return'. Wait until the drive integrity check is completed.
7. Enter either the size or a percentage value for the partition size or press 'Return' to accept the default value.
8. Press 'ESC' to return and wait until the drive integrity check is completed.
9. A logical drive needs to be defined now. Enter the size of the logical drive and press 'Return' or accept the default value by pressing 'Return'.
10. Press 'ESC' to return to the fdisk options.
11. Now press the 'ESC' key to close the "fdisk window". Your hard disk is now partitioned.
12. Stop your hard disk by using the hot unplug icon in the lower right corner of your screen and remove the USB cable from your hard disk. Afterwards connect your hard disk again with your computer. The hard disk will now be recognized by Windows.

As Windows tries to access your hard disk an error message will appear. This happens, because your hard disk is not yet formatted.

6.3.4 Formatting partitions on the FHD-3 under Windows 98SE / ME

1. Double-click on the "My Computer" icon on your desktop.
2. Click with the right mouse button on the drive symbol of your FHD-3. Now a menu will appear where you can choose the option "Format".
3. Please perform a complete formatting of your drive. You can also assign a name to your drive here.
4. After you have completed your selection, click on "Start".

Attention: Selecting the wrong drive will lead to a loss of your data. Please ensure that the correct drive is selected!

5. Confirm the next message with "OK".
6. After formatting is finished you can perform a disk scan. To do so, follow the instructions of the Windows Help system. If you don't want to scan your disk, just close the message window.

Repeat these steps for each partition if more than one partition was created.

Now your FHD-3 is ready for use. You can use it like an internal hard disk for storing your data.

6.4 Partitioning your FHD-3 under Windows XP / 2000

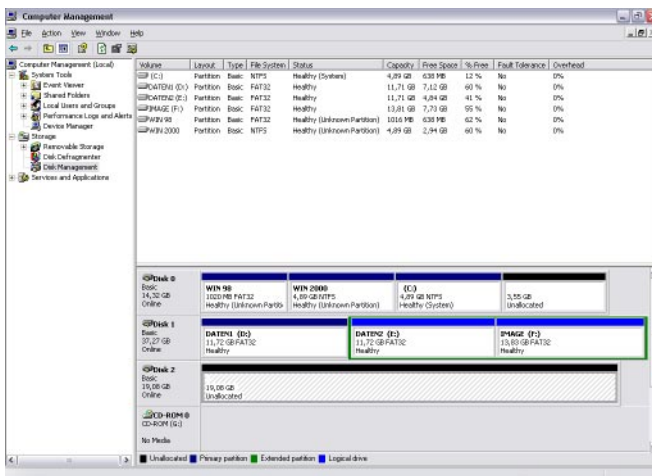
6.4.1 Deleting a partition on the FHD-3 under Windows XP / 2000

1. Click with the right mouse button on the "My Computer" icon on your desktop.
2. Select the option "Manage".
3. Select the option "Storage" -> "Disk Management".
4. Choose your external hard drive and right-click on the partition.
5. Select "Delete Partition" and confirm by clicking on "Yes". The partition will be deleted now.

6.4.2 Creating a partition on the FHD-3 under Windows XP / 2000

The following steps will guide you through the process of creating partitions on your FHD-3. After this procedure your Freecom FHD-3 will be ready for use and it will be allocated a drive letter.

1. Click with the right mouse button on the "My Computer" icon on your desktop.
2. Select the option "Manage".
3. Select the option "Storage" -> "Disk Management".
4. Choose the hard disk, which is "unallocated". Ensure that the entire drive is "unallocated".



- Click with the right mouse button on the "unallocated" area and select the option "New Partition" (Windows 2000: "Create Partition Wizard"). The "New Partition Wizard" opens. Click on "Next".



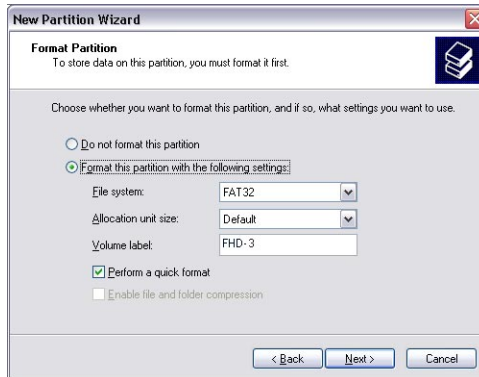
- Select "Primary partition" and click on "Next".



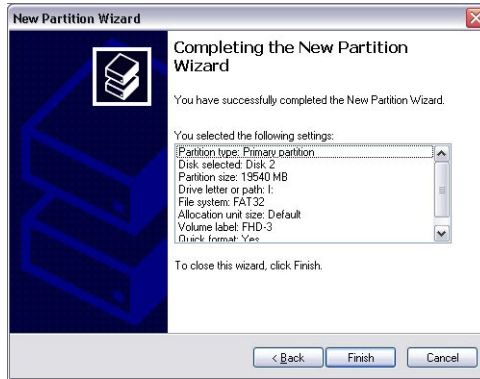
- Now you can adjust the size of your partition. Click on "Next" if only one partition is to be created. See next chapter (Creating two or more partitions on the FHD-3 under Windows XP/2000) how to create more than one partition.



8. Assign a drive letter to your hard disk. Normally you can use the default options. Click on "Next".
9. Select the formatting option. Choose either "FAT32" or "NTFS", the "Allocation Unit Size" should remain on "Default". Finally select "Perform Quick Format" and click on "Next".



10. Click on "Finish" to complete the partitioning of your FHD-3. Your FHD-3 will be formatted now and is ready-to-use afterwards.



6.4.3 Creating two or more partitions on the FHD-3 under Windows XP / 2000

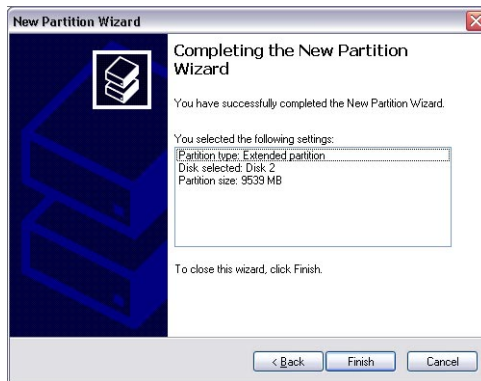
1. Repeat the steps from the previous chapter (Creating a partition on the FHD-3 under Windows XP/2000) for creating the first partition.
2. Click with the right mouse button on the "My Computer" icon on your desktop.
3. Select the option "Manage".
4. Select the option "Storage" -> "Disk Management".
5. Right-click on the unallocated space of your FHD-3 and select the option "New partition" (Windows 2000: "Create partition"). The "New Partition Wizard" (Windows 2000: "Create Partition Wizard") opens. Click on "Next".
6. Select "Extended partition" and click on "Next".

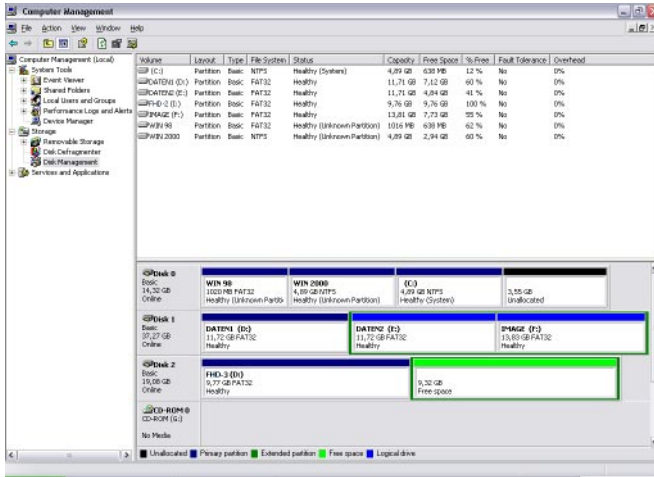


- Now you can adjust the size of your partition. Enter the size and click on "Next".

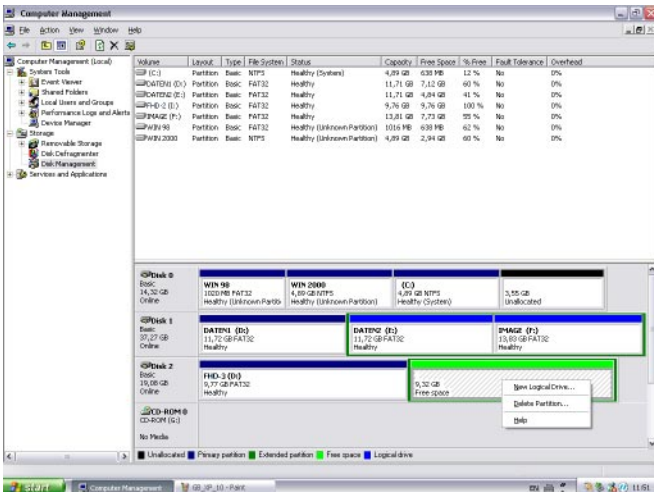


- Click on "Finish" to create the "Extended partition". The unallocated space now changed to "Free space".





9. Right-click on "Free Space" and select "New Logical Drive" (Windows 2000: "Create Logical Drive"). The "New Partition Wizard" (Windows 2000: "Create Partition Wizard") opens. Click on "Next".



10. "Logical drive" is already selected. Click on "Next".
11. Specify the partition size and click on "Next".
12. Assign a drive letter and click on "Next".
13. Select the formatting option. Choose either "FAT32" or "NTFS", the "Allocation Unit Size" should remain on "Default". Finally select "Perform Quick Format" and click on "Next".
14. Click on "Finish" to complete partitioning. Your partition will be formatted now and is ready-to-use.

Chapter 7: Troubleshooting

Issue	Solution
After I connected the FHD-3 to my computer for the first time no Freecom SYNC folder has been created automatically.	• Install the Freecom Freecom Personal Media Suite software and safely remove and reconnect the FHD-3 • Follow the instructions on chapter 5.4.2 Creating a new SYNC folder.
After installation of Freecom Freecom Personal Media Suite, the message "No Freecom FHD-3 external hard drive found." appears.	• Connect the Freecom FHD-3 to your computer. • Check all connections between the Freecom FHD-3, the power supply and the computer. • Safely remove and reconnect the Freecom FHD-3.
Files, deleted in the SYNC folder, are still appearing during the synchronization.	You have to "Split From Original" the files from their counterparts before you may delete them. Please refer to chapter 5.5.1 Handling deleted files.
An empty folder is not synchronised.	Empty folders are not taken into account during synchronization.
If you are working with the program "Total Commander" and are using the "send to" dialog to add items to the SYNC folder, the message "The briefcase is in use on another computer" could appear.	The SYNC folder is opened by another program. Please close all applications, which are using the SYNC folder.
You cannot create a SYNC folder with a name you used for another, deleted, SYNC folder.	This happens only under Windows 98. Please restart Windows 98. After restart, you can create the new SYNC folder.
Not enough memory on the target drive (FHD-3) during creation of SYNC folder.	Delete files on the target drive (FHD-3) or select less files.
Not enough memory on the target drive (FHD-3) during synchronization.	Delete files on the target drive (FHD-3).

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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.

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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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FHD Series & FireWire Harddrive
USB Floppy Disk Drive
USBCard
DAT & LTO Drives (retail)
DAT-S Kits
ThinServer*
Beatman
Cables

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

* Controller inside 3 years after online registration only.

(GB)