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INNOVATIVE GERMAN QUALITY

USER MANUAL

HARD DRIVE DOCK QUATTRO
EXTERNAL DOCKING STATION / 2.5" & 3.5" SATA / USB 2.0 / FIREWIRE 800 & 400 / eSATA

Freecom HD Dock Quattro

Dear user,

welcome to the installation of your **Freecom HD Dock Quattro**. Before installing the drive, please read through the following points regarding its compatibility with your system.

Freecom Technologies • Germany
www.freecom.com

Contents of the box

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

- Freecom HD Dock Quattro
- Connection cables (USB 2.0, FireWire 400, FireWire 800, eSATA)
- External power supply (DC12V/2A)
- Manual on CD
- Quick Install Guide

User manual

Chapter 1:

Chapter 2:

Chapter 3:

Chapter 4:

Need assistance? Have questions?

In case you have a question about the use of this product, need information about other Freecom products or need technical assistance, please contact the Freecom Service Center for your country. See www.freecom.com for details.

Freecom offers free unlimited helpdesk support.

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General information

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

System requirements

In order to use the Freecom HD Dock Quattro, following components are needed:

PC:
- Intel Pentium III / AMD Duron 900 MHz or higher
- 256 MB RAM (Vista / 7: 512 MB RAM) or higher
- Available USB 2.0 or USB 1.1 port*

  or

  Available Firewire 400- or Firewire 800- port

  or

  Available eSATA port
- Internet connection for online warranty registration
- Operating system: Windows XP, Windows Vista, Windows 7

Mac:
- PowerPC G5 or Intel Mac
- 256 MB RAM or higher
- Available USB 2.0 or USB 1.1 port*

  or

  Available Firewire 400- or Firewire 800- port

  or

  Available eSATA port
- Internet connection for online warranty registration
- Operating system: Mac OS X v10.5 or higher

Environment

Operating temperatur: 5°C - 35°C.

Operating humidity: 5-90%, non-condensing

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* To achieve optimal performance from the Freecom HD Dock Quattro your PC should be equipped with an USB 2.0 port.

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Precautionary Measures and General Notes

- Make sure the label side of the hard drive is ahead, and the hard drive connector is downward before it is inserted. Otherwise, the hard drive can not be inserted.
- Do not eject the hard drive while it is working.
- Hold the hard drive with its front edge instead of the PCB at the bottom side.
- Hard drives are precise equipment. Read the user manual attached with the hard drive before using.
- Do not put anything inside the product except 2.5" or 3.5" SATA I/II hard drives.
- Freecom warranty this product against defects of materials and workmanship under normal use, Freecom cannot be made responsible for any damage caused by accident, abuse, misuse etc, nor any hardware/software damage or data loss.

> **The surface temperature of hard drive may reach 50°C, please mind and be careful, altough it is not hot enough to burn people.**

Features

- Works under open space, no dissipating device for hard drive is needed.
- Supports 2.5" & 3.5" SATA I/II hard drive
- Supports USB 2.0 up to 480 Mbps, compatible with USB 1.1 up to 12 Mbps.
- Supports 1.5 Gbit/s or 3.0 Gbit/s SATA HDD
- Supports hot swaps
- Unique hard drive ejection apparatus

Specification

- Interface: USB 2.0/eSATA to SATA, Firewire 400, Firewire 800
- Speed: 480 Mbps (USB 2.0), 12 Mbps (USB 1.1)
- Material: Plastic/Metal
- Weight: 420 g
- Dimensions: 136 (L) x 95 (W) x 77 (H) mm

> **If at any point during installing and/or configuring your HD Dock Quattro you need assistance or have questions, please contact the Freecom Support Center for your country. See www.freecom.com for details.**
>
> **Freecom offers free unlimited helpdesk support.**

Chapter 1: Start Up the HD Dock Quattro

1.1 Freecom HD Dock Quattro

1.1.1 Top
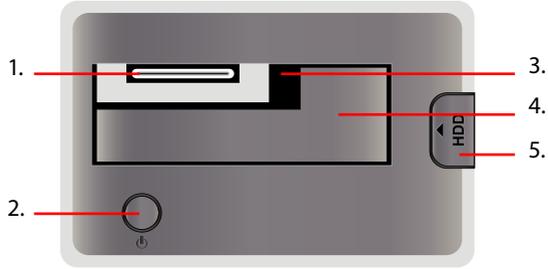
1. SATA connector
2. Power and Access LED
3. Slot for 2.5" SATA HDD
4. Slot for 3.5" SATA HDD
5. Eject Button

1.1.2 Back
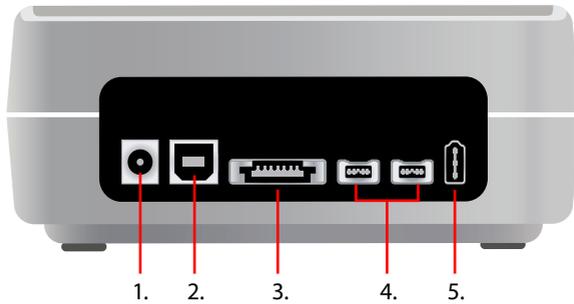
1. AC connector
2. USB 2.0 connector
3. eSATA connector
4. Firewire 800 connector
5. Firewire 400 connector

1.2 HDD installation for 2.5" or 3.5"

1.
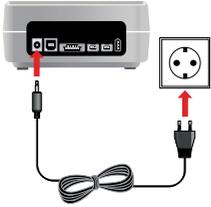
Connect the cable of the power supply to the Freecom HD Dock Quattro and the power supply itself to the socket.

2.
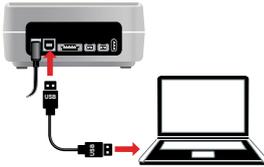
a) **USB:** Connect the USB cable to the USB port on the HD Dock Quattro (for data transfer with USB).

   or

b) **Firewire 400/800:** Connect the Firewire cable to the Firewire port on the HD Dock Quattro (for data transfer with Firewire).

   or

c) **eSATA:** Connect the eSATA cable to the eSATA port on the HD Dock Quattro (for data transfer with eSATA).

3.

Vertically insert the hard drive into the drive slot, make sure the hard drive matches firmly with the connector inside the dock.

4.

Switch on the HD Dock Quattro.

5.

Partition and format your hard drive (if required). See chapter 3 for further details.

PC: Your hard drive appears in "My Computer" and can be used now.

Mac: Your hard drive appears on the desktop and can be used now.

1.3 LED

LED on:
HD Dock Quattro switched on

LED flashes:
Data transfer

Chapter 2: Ejecting the HD from the Dock

1.

Switch off the power.

2.

Press the button down.

3.

Gently remove the hard drive off in vertical direction.

Chapter 3: Partitioning your HD

3.1 General information

Your hard drive must be partitioned and formatted before it can be used. This chapter describes current limitations of most common file systems and instructions to enable you to adapt your hard drive to your needs.

3.2 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	HFS+
Windows XP / Vista / 7	yes	yes	yes	no
Mac OS X	yes	yes	yes (only read)	yes

Maximum size of a partition

Operating system \ File system	FAT	FAT32	NTFS	HFS+
Windows XP / Vista / 7	4 GB*	32 GB	16 TB	-
Mac OS X 10.1.x	-	128 GB	-	2 TB
Mac OS X 10.2.x	-	128 GB	-	8 TB
Mac OS X 10.3.x	-	(-> 128 GB)	-	16 TB
Mac OS X 10.4.x	-	(-> 128 GB)	-	16 TB
Mac OS X 10.5.x	-	(-> 128 GB)	-	16 TB
Mac OS X 10.6.x	-	(-> 128 GB)	-	16 TB

* FAT partitions larger than 2 GB can only be administrated by Windows XP / Vista / 7.

Example for different partitions with different file systems on one HD

Total size of HD / File system	NTFS	FAT32
80 GB	60 GB	20 GB

Note: On NTFS formatted hard disks data can only be written under Windows XP / Vista / 7. Under Mac OS X data can only be read.

The example above is a good solution for Windows XP / Vista / 7 users who sometimes exchange data with Macs.

For storing the data under Windows XP / Vista / 7 both partitions can be used. As the NTFS file system can only be read by Mac data to be used on this operating system must be stored on the FAT32 partition.

Please follow the steps below to adapt your hard drive for your needs.

3.3 Partitioning your hard drive under Windows XP / Vista / 7

3.3.1 Deleting a partition on the hard drive

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.

3.3.2 Creating a partition on the hard drive

The following steps will guide you through the process of creating partitions on your hard drive. After this procedure your hard drive 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".
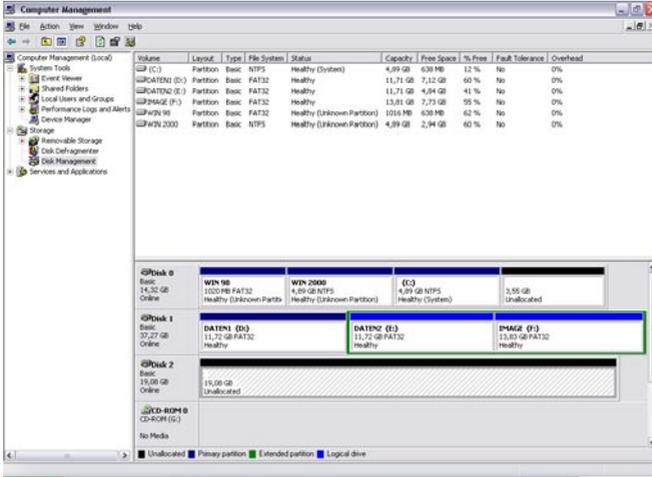
5. Click with the right mouse button on the "unallocated" area and select the option "New Partition". The "New Partition Wizard" opens. Click on "Next".

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

7. 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 HD under Windows XP / Vista / 7) 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 "Format this partition with the following settings". Choose either "FAT32" or "NTFS", the "Allocation unit size" should remain on "Default". Finally select "Perform a quick format" and click on "Next".

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

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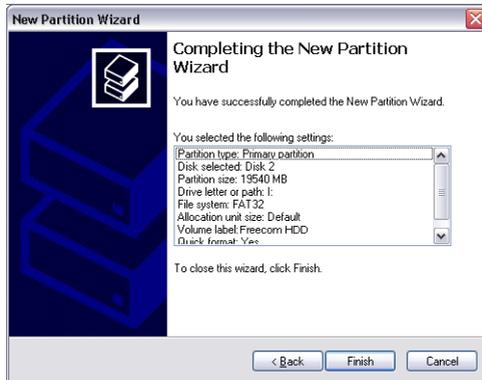
3.3.3 Creating two or more partitions on the HD under Windows XP / Vista / 7

1. Repeat the steps from the previous chapter (Creating a partition on the hard drive under Windows XP / Vista / 7) 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 hard drive and select the option "New partition". The "New Partition Wizard" opens. Click on "Next".

6. Select "Extended partition" and click on "Next".

7. Now you can adjust the size of your partition. Enter the size and click on "Next".
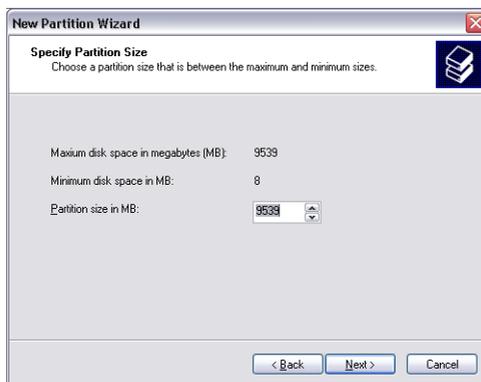
8. Click on "Finish" to create the "Extended partition". The unallocated space now changed to "Free space".

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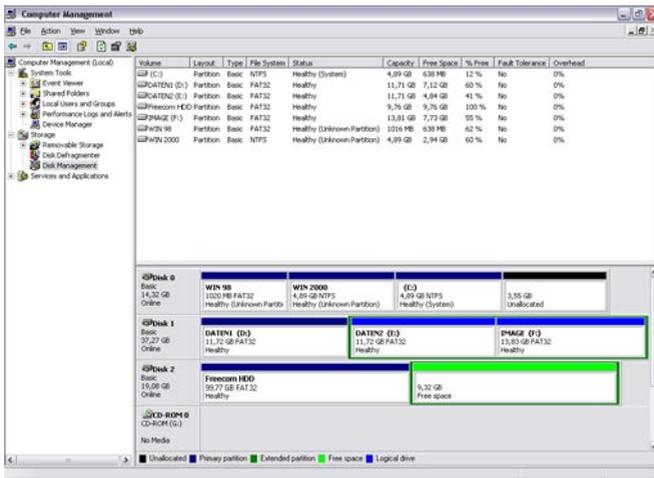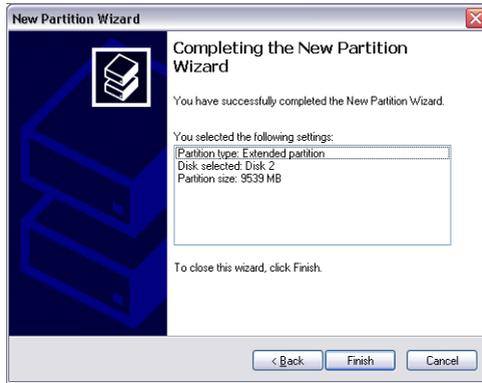
9. Right-click on "Free Space" and select "New Logical Drive". The "New Partition Wizard" opens. Click on "Next".
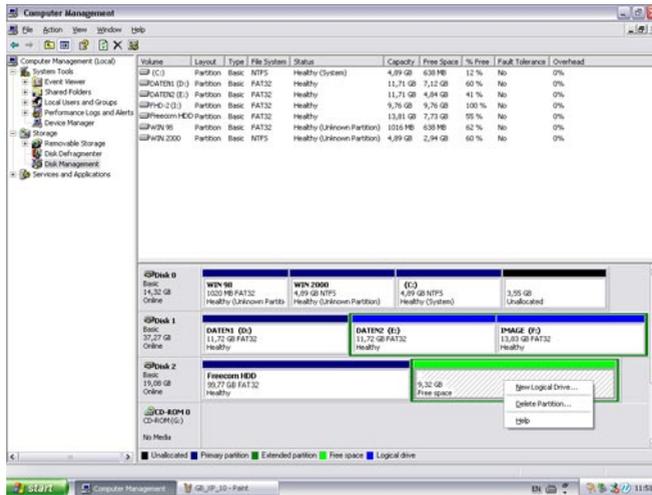
10. "Logical drive" is already selected. Click on "Next".

11. Specify the partition size and click on "Next".

12. Assign a drive letter and click on "Next".

13. Select the formatting option "Format this partition with the following settings". Choose either "FAT32" or "NTFS", the "Allocation unit size" should remain on "Default". Finally select "Perform a quick format" and click on "Next".

14. Click on "Finish" to complete partitioning. Your partition will be formatted now and is ready-to-use.

> **Note: If you select NTFS as file system, the data of your HD Dock Quattro can be read only under Mac OS X. There is no possibility to write data.**

3.4 Partitioning your HD under Mac OS X

1. Open the "Disk Utility". This can be found in "Applications" —> "Utilities".
2. Click on the tab "Partition".
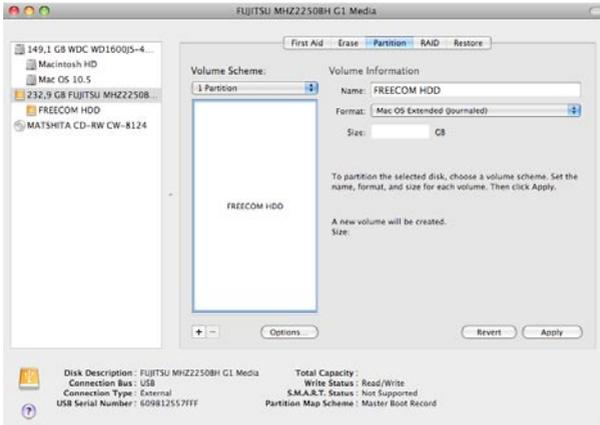
Here you can setup the partition settings and partition the drive according to your settings (e.g. Mac OS Extended). Detailed information how to use the Disk Utility can be found in the help:
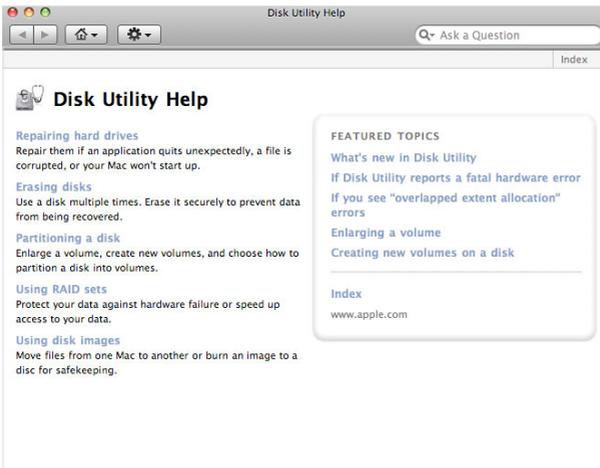
Chapter 4: Trouble shooting - FAQ

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

•   What can I do when the hard drive does not work and there is cklicking noise arising from it?

     It means the power supply is not adequate enough to start the hard drive. Make sure the power plug (power adaptor and cable) is inserted, and connect the USB, eSATA or Firewire cable to the counterpart ports.

•   When I finished the hardware installation following the manual, the external device failed to be detected by the system. Why?

     Please check the hard drive, and format it if it is a new one.

     If using eSATA to transfer,please check whether your motherboard supports hot swap. If not, connect the Freecom HD Dock Quattro to the eSATA port on computer before starting it.

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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