FREECOM

USER MANUAL

FLOPPY DISK DRIVE
EXTERNAL FLOPPY DISK DRIVE / 3.5" / USB

Freecom USB Floppy Disk Drive

Dear User,

thank you for purchasing a **Freecom USB Floppy Disk Drive** Unit. Please read this guide carefully before using Freecom USB Floppy Disk Drive. It contains the important product information and safety precautions.

Freecom USB Floppy Disk Drive is a floppy disk drive with USB (Universal Serial Bus) interface and connectable by USB cable to Personal Computer supporting USB Port.

The advantage of USB interface connection is Plug-and-Play and Hot Plug capabilities; you can connect and disconnect Freecom USB Floppy Disk Drive to and from your computer whenever you need, even if your computer is in operating mode.

Also, the Freecom USB Floppy Disk Drive operates taking power from the USB interface of Personal Computer, so it can be free from the necessity of additional AC power adapter.

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1. For Safety Use

> **Before using Freecom USB Floppy Disk Drive, read and observe the following precautions in order to reduce the risk of injury to person or damage to the device.**

WARNING!

- When it begins to thunder, do not touch the device or USB cable, nor attempt to connect them to computer. There is the danger of getting a shock by thunderbolt.

CAUTION!

- Never attempt to disassemble the device. Storing or operating the device with being disassembled may cause a breakdown or electrical shock.
- Do not insert/remove USB cable into/from computer with wet hand.
- Do not touch this device with wet hand.
- Remove USB cable from computer before you start maintenance.
- Keep the device away from excessive moisture, steam, dust, water and soot (e.g. do not use nearby the cooking equipment, humidifier, etc).

CAUTION!

- Do not put metal and liquid of any kind into the device. Doing so may result in fire or dangerous electric shock.

CAUTION!

- Do not use volatile-organic-solvents for device cleaning, such as thinner or benzine. We recommend that you use dry clean cloth for cleaning.
- Keep and use the device away from direct sunlight, high temperature or the heating apparatus. (For information about the recommended temperature and humidity, refer to "Specifications" section.)
- Do not drop, strike or shock the device.
- Do not put anything heavy on the device while storing or using it.
- Do not touch the terminals of connector.
- Do not use the device with condensation taking place.
- Do not remove USB cable from the device nor other USB devices while Access lamp of the device is lightening.
- Do not remove a floppy disk from the device while operating.
- Keep the device and floppy disks away from magnet.
- Never carry the device with a floppy disk inserted in.
- Never plug/unplug USB cable connected to the device with a floppy disk inserted in.

2. System Requirements

2.1 Operating System

- Microsoft® Windows® XP
- Microsoft® Windows® Vista
- MacOS X or higher

2.2 Requirements

- Personal Computers equipped with standard USB Port

CAUTION!

Do not connect Freecom USB Floppy Disk Drive to USB Port on the Keyboard because Freecom USB Floppy Disk Drive might fail to operate due to insufficient power supply. And, if you use Freecom USB Floppy Disk Drive connecting to USB hub, be sure to use it in Self-Power mode. (For the Self-Power mode, refer to the manual for USB Hub.)

Freecom USB Floppy Disk Drive is a precision machine. Do not drop, shock, strike or expose to extremes of heat and cold; otherwise may impact the device.

Never disconnect USB cable or eject a floppy disk from Freecom USB Floppy Disk Drive while reading, writing or formatting the floppy disk (indicated by Access lamp lit). If to do so, it could damage the floppy disk's data.

2.3 Supported Floppy Disk Format Types

Freecom USB Floppy Disk Drive supports the following format disks:

- 2HD Floppy Disk: 1.44 MB
- 2HD Floppy Disk: 1.25 MB
- 2DD Floppy Disk: 720 KB

3. Parts Identification

Access lamp

Disk insertion door

Eject button

USB cable

Disk insertion door

It prevents dust from entering the drive inside. You may insert/eject a floppy disk through the Disk insertion door.

Access lamp

It indicates the operating conditions of Freecom USB Floppy Disk Drive by lightening during read, write and format to the floppy disks.

Eject button

Pressing this button causes the floppy disk in the Freecom USB Floppy Disk Drive to be ejected.

USB Cable

It is used to connect the Freecom USB Floppy Disk Drive to the computer.

4. Driver Installation

4.1 Windows XP/Vista Users

Follow these steps to install the driver software for Windows XP/Vista system, which allows you simple and easy installation! (Startup your computer before stating the installation.)

> **CAUTION!**
>
> **Start up your computer without this product, otherwise may cause driver installation not to start properly.**
>
> **If it doesn't start, once remove USB cable from the computer (not need to shut down) and then reconnect it to start the installation.**

1. Plug the USB cable of Freecom USB Floppy Disk Drive in USB port on your computer.
2. Windows XP/ Vista detects this connection as new hardware and installs driver software automatically.
3. The $3^{1/2}$ Floppy icon representing Freecom USB Floppy Disk Drive should be added in My Computer or Explorer window, and now you are ready to use Freecom USB Floppy Disk Drive.

5. How To Use Freecom USB Floppy Disk Drive Unit

5.1 Inserting and Removing Floppy Disks

Disk insertion door

Access lamp

Shutter
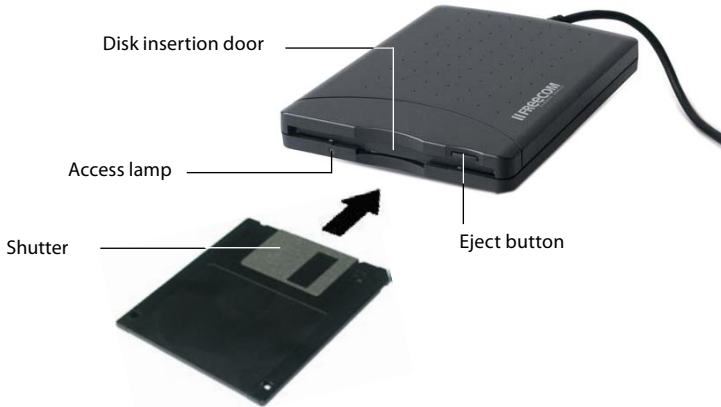
Eject button

Inserting a floppy disk

Insert a floppy disk into Freecom USB Floppy Disk Drive at disk insertion door with the disk label facing up as shown in figure above.

Removing a floppy disk

Pushing eject button on the front of Freecom USB Floppy Disk Drive causes a floppy disk to be ejected.

CAUTION!

Before removing a floppy disk, make sure Access lamp goes out; attempting to eject a floppy disk while the drive is reading/writing (indicated by an illuminated Access lamp) could damage data on the floppy disk.

Don't push strongly or put something heavy on the Freecom USB Floppy Disk Drive for smooth disk insertion and ejection.

Please operate the Freecom USB Floppy Disk Drive in a horizontal position only.

5.2 Disconnecting Freecom USB Floppy Disk Drive from Computer

Windows XP /Vista Users

1. To disconnect the Freecom USB Floppy Disk Drive from computer under Windows XP / Vista, right-click or double-click the icon (indicated in the picture below) in the lower right of computer's desktop.

2. If right-clicking the icon, click also "Unplug or eject hardware".

3. Select "USB Floppy Drive", and click "Stop". Depending on the computer model, this screen may not appear, then go to next step.
4. Select "USB Floppy Drive" and click "OK". Depending on the computer model, this screen may not appear, then go to the next step.
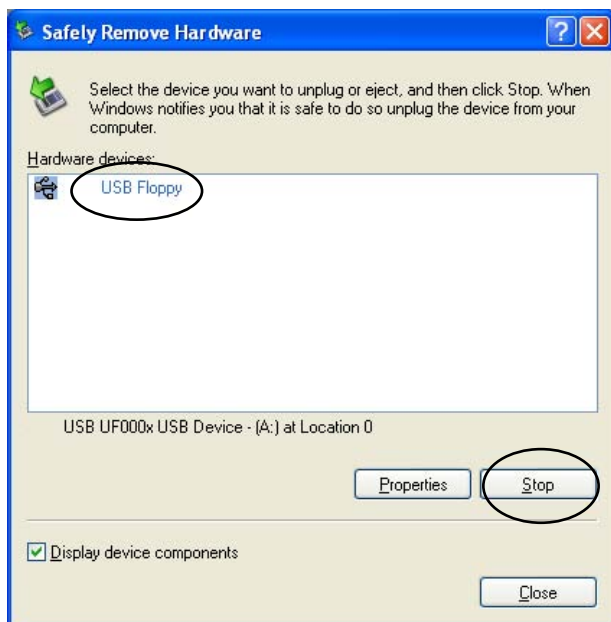
5. When the following window appears, click "OK".
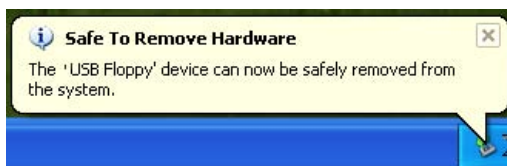
6. Now you can unplug the USB cable from the computer while the computer is turned on.

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6. Troubleshooting

If you encounter a problem while using the Freecom USB Floppy Disk Drive, check this section for help.

1. **Freecom USB Floppy Disk Drive is not recognized.**

•   Make sure that the USB cable is connected securely to the port on the computer and Freecom USB Floppy Disk Drive.

    If USB cable is not connected securely, it could result in Freecom USB Floppy Disk Drive's malfunction. Unplug once the USB cable from the computer and Freecom USB Floppy Disk Drive then re-plug it again securely until you hear it click.

•   Make sure that the USB cable is connected to the USB port on the computer.

    Use your Freecom USB Floppy Disk Drive by connecting its USB cable to a USB port on the computer. If USB cable is connected to USB port on the keyboard or any device other than computer, Freecom USB Floppy Disk Drive can not be recognized due to insufficient power supply. In such cases, check the Freecom USB Floppy Disk Drive for the device condition with Device Manager (*Start - Settings - Control Panel - System*).

•   Make sure that "Freecom Floppy Disk Drive" is not recognized as "Unknown Device" in Device Manager (*Start - Settings - Control Panel - System*).

    If "Freecom Floppy Disk Drive" is recognized as "Unknown Device", delete the "Unknown Device" in Device Manager. Then plug the USB cable connected to Freecom USB Floppy Disk Drive to the port on your computer and install again the driver software following Driver Software Installation Guide.

2. Freecom USB Floppy Disk Drive cannot save a data to a floppy disk.

• Make sure that you do use a floppy disk not write-protected.

 If you use a write-protected floppy disk, Freecom USB Floppy Disk Drive can not save any data or format the disk. Check a write-protect notch of the floppy disk for protection condition (you may find it helpful to refer to the figure below, and sliding the write-protect notch in the direction of arrow can remove the protection).
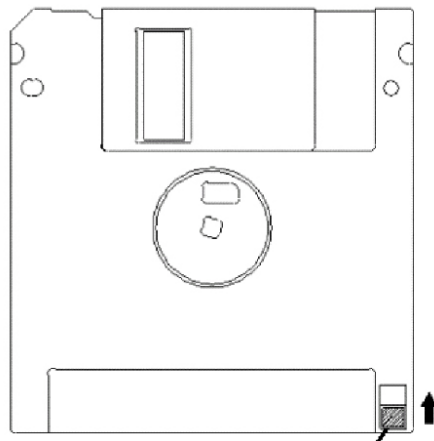
Write-protect notch

• Make sure that you use a floppy disk supported by Freecom USB Floppy Disk Drive.

 Check the floppy disk format type for Freecom USB Floppy Disk Drive support. Refer to Subsec.2.2 "Supported Floppy Disk Format Types" and use the floppy disks supported by Freecom USB Floppy Disk Drive.

3. **When accessing the Freecom USB Floppy Disk Drive, an error message such like "This device can not operate due to insufficient power supply..." appears on the screen.**

•   Make sure that you use the Freecom USB Floppy Disk Drive by connecting its USB cable to the port on the computer, not to the keyboard's port or the bus-powered USB hub.

    Freecom USB Floppy Disk Drive can not operate due to insufficient power supply if it's connected to the USB port on the keyboard or the bus-powered hub. Please connect Freecom USB Floppy Disk Drive to the USB port on the computer to use it. And if you use a USB Hub to connect Freecom USB Floppy Disk Drive, use it in self-power mode (refer to the Hub's manual for self-power mode).

7. Specifications

Interface	USB (Universal Serial Bus Version 1.1)
Power dissipation	500mA (MAX)
Power requirement	DC +5V ± 5%
USB Transfer Rate	12Mbits/sec
Dimensions	103 ± 1 W x 17 ± 1 H x 142 ± 1 D (mm)
Weight	280g (Typical)
Environmental Limits:	
Temperature	Operating: 5 to 35 degC
	Storage: -20 to 60 degC
Related Humidity	Operating: 20 to 80 % RH (noncondensing)
	Storage: 10 to 90 % RH (noncondensing)

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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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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