

Mobile Disk

User's Guide

HANA Micron Incorporated
www.mobiledisk.com

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This product is subject to change without prior notice for the purposes of performance enhancement. The actual installation and usage of the product may be slightly different from the description in this Guide.

For up-to-date information on Mobile Disk, visit our homepage:

<http://www.mobiledisk.com>

Trademark

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1. Introduction to Mobile Disk

Mobile Disk is a portable data storage device using flash memory, replacing the existing FDD. The capacities vary from 16MB to 1GB, and the physical size of the unit is as small as a little finger. It is an elegant next generation product.

Business people who deal with many private documents and presentation files, designers who have to back up graphic files, and students who must submit reports containing various statistics don't have to wrestle with inconvenient 1.44MB FDDs or CDs. With the Plug & Play feature, you can use it anywhere any time by inserting it into a PC or notebook. You are also able to protect your data with a password.

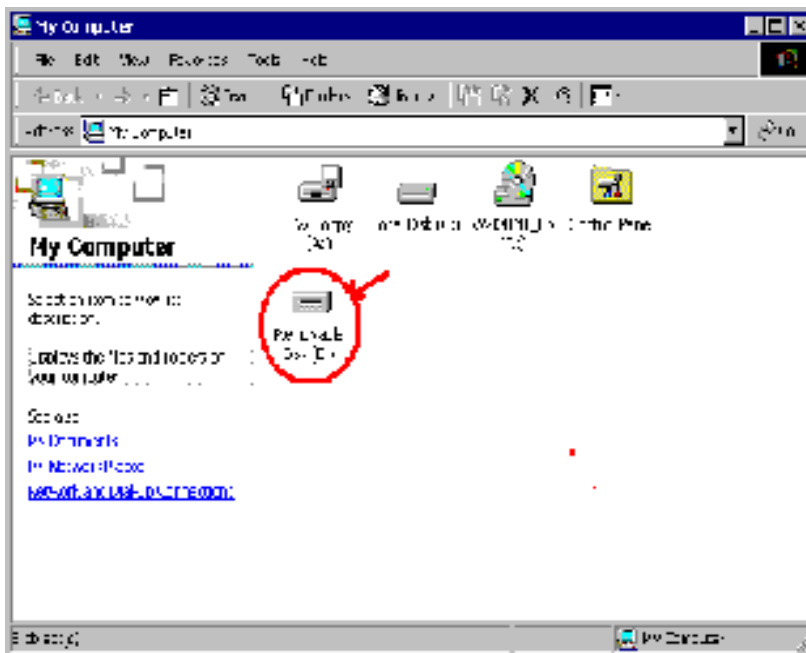
- Very small mobile data storage
 - It works on various operating systems without extra driver installation.
- Plug & Play
 - You can read and write data immediately after inserting it into the USB port of a PC or notebook.
- No external power needed
 - Batteries or an external power source are unnecessary since it uses USB power.
- LED Indicator
 - When you insert the Mobile Disk into the computer port, a red LED flashes repeatedly. In standby mode, it flashes once every second. During any reading and writing, it flashes continuously.

2. Product Specifications

Interface	USB Specification 2.0/(1.1 compatible)
Supported OS	Windows98, SE, ME, 2000, XP, Mac OS 9.0 +, LINUX Kernel Version 2.4.0 + (Driver CD installation needed for Windows 98,SE)
Capacity	16MB, 32MB, 64MB, 128MB, 256MB, 512MB, 1GB
Term of Data Preservation	10 years
Read/Write Speed	Read: 8MB/sec, Write: 5MB/sec
Power Supply	USB Bus-powered (No separate power source needed)
Components	Main Component, CD, USB Cable, Warrant, Necklace (Except HANA Mobile Disk)
Manufacturer	HANA Micron Inc., Tel: +82-(0)502-111-7272

3. Operation and Usage

- General Operations
 - Install Mobile Disk to the USB port directly or via an extension cable.
 - You can input/output and edit/delete data right after Mobile Disk is connected to the port.
- The following operating systems do not need driver installation:
 - Windows ME, Windows 2000, Windows XP, Mac OS 9.0 or higher, Linux Kernel Version 2.4.0 or higher.
- The following operating systems need driver installation:
 - For Windows 98 and Windows 98 Second Edition (SE), driver installation is required since the OS itself does not support a Mass Storage Device. (The Driver Install CD is installed only once.)
 - For Windows 98/98SE, install the driver with the Auto Install CD supplied by our company.
 - After installation, the Mobile Disk is recognized as a Removable Disk as shown below.



[Note1] Be sure to connect the Mobile Disk to the USB port before running the Manager Program. (See Chapter 4 for installation)

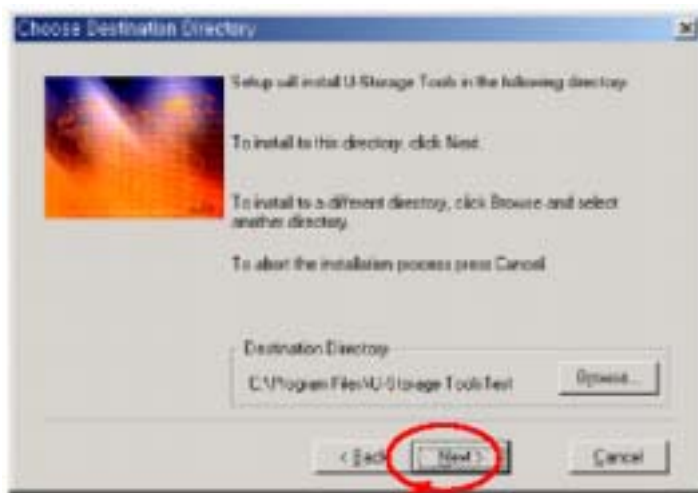
[Note2] For Win98 / Win Me, you must unplug the Mobile Disk after the driver installation and then plug it in for normal operation.

4.1 Installing Manager Program

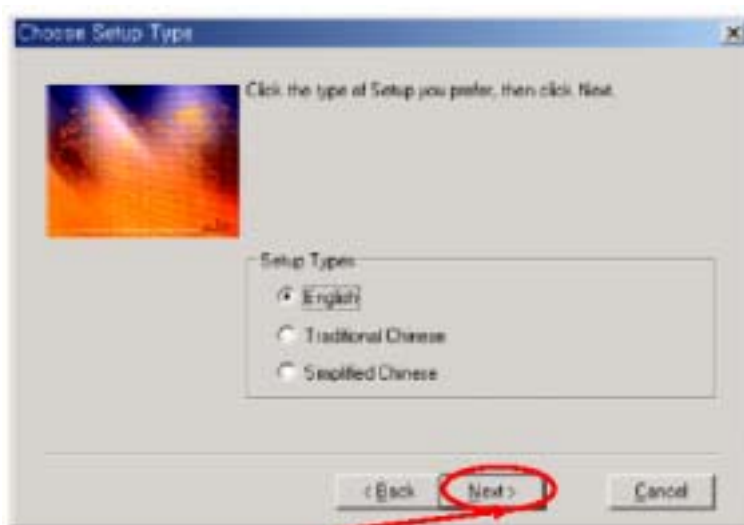
- 1) Insert the Manager Program CD supplied with the product into the CD ROM drive.
- 2) The main window of the Manager Program automatically appears as shown below.

Image Insertion [Manager Program Selection Window]

- 3) Select the Manager Program installation menu. The corresponding manager program installation screen appears.



Click [Next].



Select a language and click [Next].

4) When the installation is complete, the following message appears. Click OK.



5) "U-Storage" is automatically registered on Programs as shown below.



6) The main window automatically appears as shown below. (Unplug and plug the product for Win98, SE, and ME).



4.2 Installing and Using Secure Feature

1) Changing a Password

To change your password for protection of your private information, proceed as follows:

Right click on the tray icon at the bottom right of the screen.



Right click here.



Select U - Storage.

Select "Change Password." When the following window appears, change the password and click OK.



< Be sure to take note of your new password to not forget it.>

[Note] If you failed to enter the correct password three times or more, please plug in the device again and try again.

If you can't remember your password, you can use the Hint for help.



2) How to Log in / Log out

Log in to move to the security data area.

Log out to move to the public area.

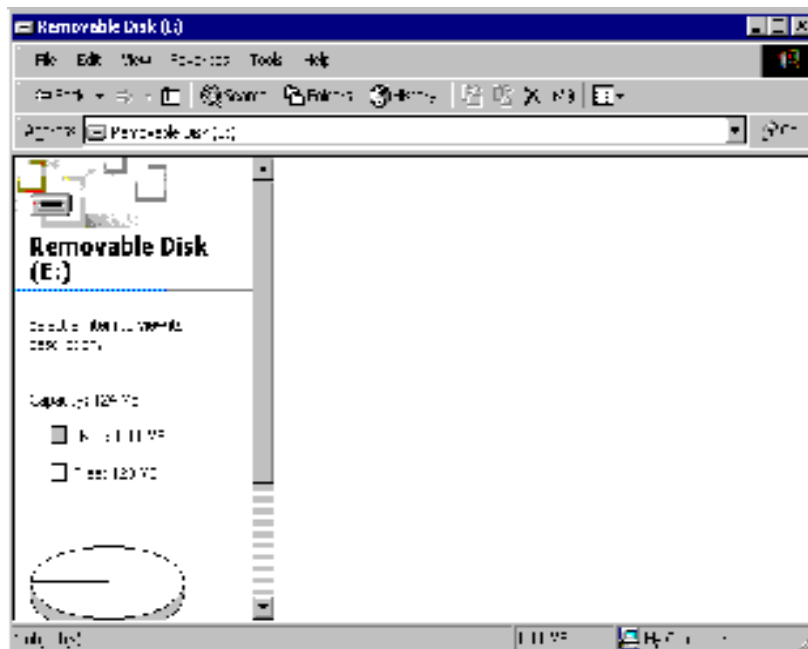
Logging In



Click “Log In.”

Enter Password and click OK to enter the secure area.

The following screen shows when you have successfully logged in.

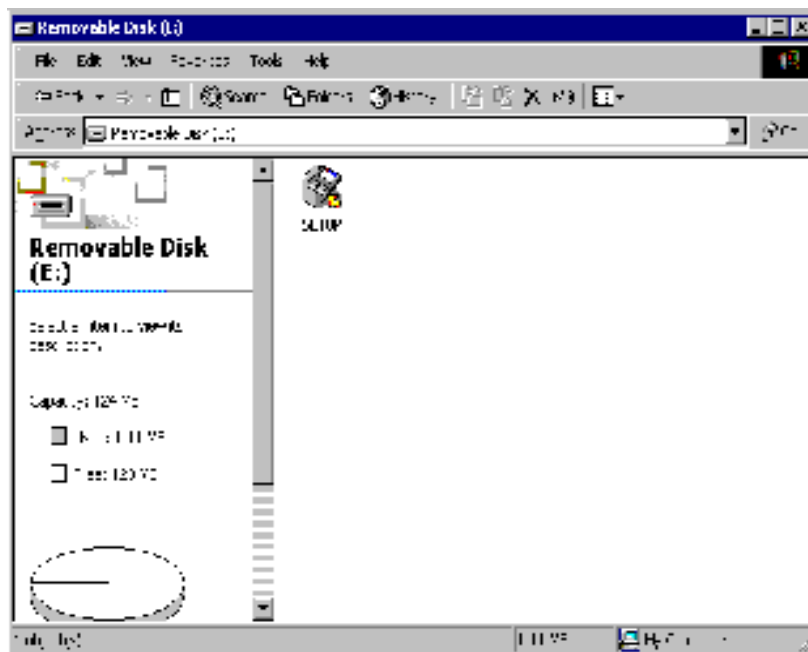


How to Log Out



Click “Log Out.”

When the following screen appears, you have successfully logged out.



3) Resizing

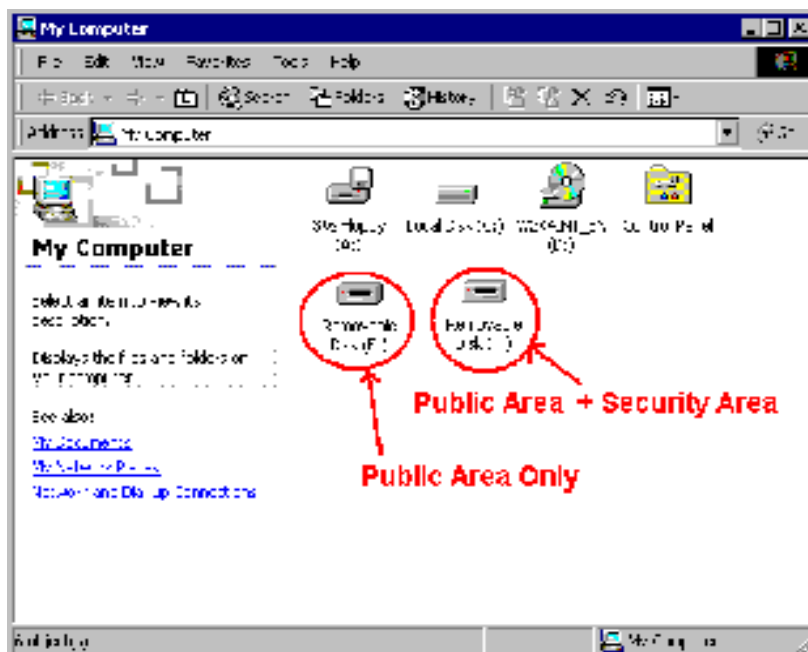
With the Resizing feature, you can freely change the sizes of the Security and Public areas.

Public Area: You can read and write in this area without logging in.

Security Area: You must log in to read and write data in this area.

Public Area + Security Area: The above two areas (Public, Security) can be used simultaneously with 2 drivers.

Ex) When you select Public Area + Security Area, two separate drivers are created.



[Public Area Only]



Click "Resize."

Click OK to run Resize.

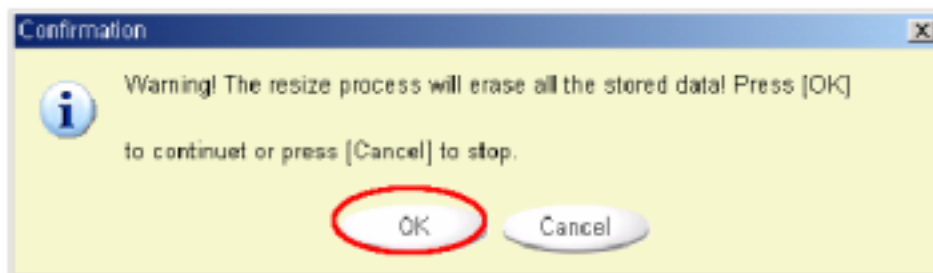
Take special care since if you resize to "Public Area Only," the security feature disappears.
Even if the partition for the Security Area disappears, the Setup.exe file still exists.

[Security Area]

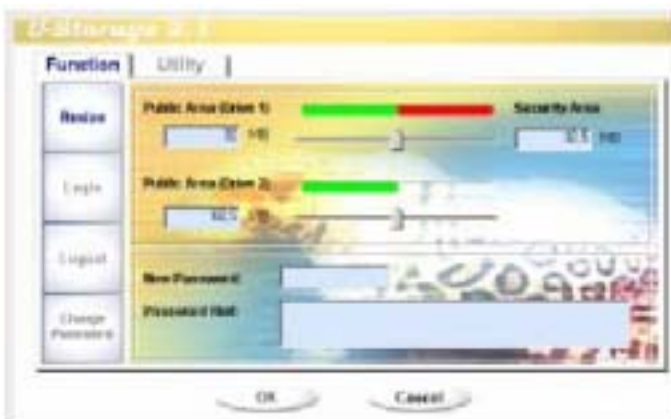


Move the bar left or right on the screen to resize it, and then click OK.

When the following message appears, click "OK." The resize is applied.

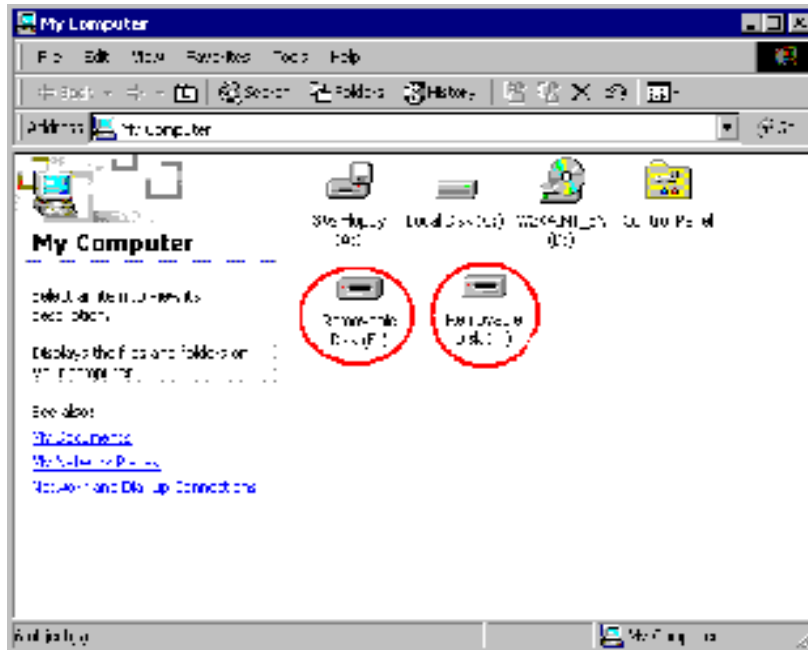


[Public Area + Security Area]



Set the sizes for each driver on the screen and click OK.

The following two drivers are created.



4.3 Boot Up Function

The Boot Up Function enables the device to perform as a boot disk. (The Main Board must provide USB FDD/HDD/ZIP Bootable features).

Read the following before running the program.

- 1) This program runs on Windows 98 SE, ME, or XP.
(Windows2000 is not supported.)
- 2) Stop the anti-virus program while the program is running.
- 3) A Window's system must be installed on the C Disk.
- 4) This program applies only to one device. (2 or more devices are not supported simultaneously.)
- 5) The device must be in the Public Area.
(When you use this function when logged in, you will be logged out, and all the data in the Public Area will be deleted.)

[Note] If you wish to create a bootable USB HDD, you cannot use the Security Area of the device.

In addition, this option is supported only by Windows 98 SE.

The procedures for Windows 98 SE/Me and XP are different. Please follow the procedures described below. It is not supported by Windows 2000.

4-1 Windows 98 SE / ME

- 1) As shown in the following picture, click on the Utility button, and then the Boot up button.

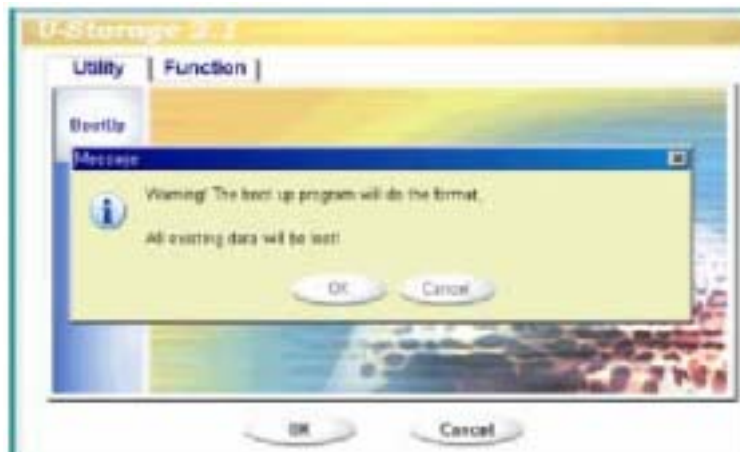


- 2) Select USB HDD or USB ZIP.

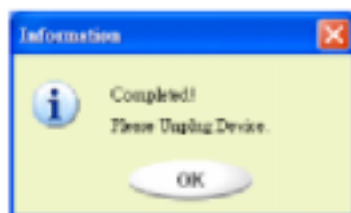
USB HDD is supported only for Windows 98 SE.

- If you select USB HDD, "C: \ >" appears after booting.
- If you select USB ZIP, "A: \ >" appears after booting.

- 3) Make your selection and click OK. The following warning message appears.



- 4) When the process is complete, the following message appears.



[Error Messages]

The following message appears when the Windows OS was not installed properly.
Create a folder (\ WINDOWS \ COMMAND \ EBD in Windows 98,
 \ WINDOWS \ COMMAND \ EBD in Windows ME, or \ XP_Bootable in Windows XP) and
copy system files to the folder.



The following message appears when the size of the Public Area is insufficient.
Increase the size of the Public Area by using the Resize function.



[Note] When you carry out the above procedure, the booting files are created on the device. Make sure to prevent them from being erased. If they are erased, normal booting is impossible.

4.4 Recovery Disk

This feature is used when you wish to initialize the device because you cannot use it due to problems in the device. If there are any bad blocks in the Flash Memory, you can use Scan Disk to initialize it. However, the capacity of the device decreases for bad blocks.

- 1) As shown below, select Start → Programs → U-Storage → Recover Disk on your desktop.





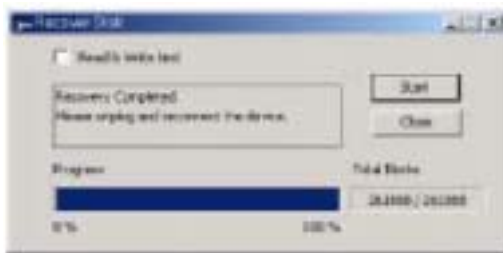
After running Recover Disk, all the files on the device are deleted.

Since the deleted files cannot be recovered, be sure to back up important files before running Recover Disk.

- 2) When you have checked Read & Write Test, Read/Write tests are performed for each block. It takes approximately 1.5 minutes for 16MB.
- 3) Click Start. The Low Level Format is started.



When the process finishes, the following message appears.



5. Service Guide

Service Guide

Free of Charge Services:

- Services are free for one year after purchase from the Customer Service Center.

However, service is charged for the following cases:

- When product failure results from an error or carelessness on the customer's part (damages due to shock or the entry of foreign substances).
- When product failure results from a repair or product modification by the customer.
- Product damage from natural disasters.

Many products for which service is requested have no faults. Therefore, before calling our Customer Service Center for servicing, carefully read the User Guide and check for any trouble first.

We do not take responsibility for data loss on the mobile storage device.

Customer Service Center

Room 902, First Ssangyong IT Twin Tower,

442-17 Sangdaewon-dong, Jungwon-gu, Seongnam-shi,

Gyeonggi-do, Korea, 462-807

TEL: +82-(0)502-111-7272 FAX: +82-(0)31-608-5534

E-mail: support@hاناusb.com

HANA Micron Inc.

Precautions for Use

- Never remove Mobile Disk until the flashing of the LED completely stops. Otherwise, the data may be lost.
- In order to safely remove the drive, select Unplug from "Unplug or Eject Hardware" from the Control Panel before removing it.
- HANA Micron Inc. does not take responsibility for data loss due to any reason except inherent defect of the product.
- When an error message appears while saving data, check the connection of the device, and the Write Protect switch on the side (for corresponding products, except HANA Mobile Disk).
- If the problem is not solved by any above method, format the device completely. To format it, run the U-Storage Manager Program contained on the CD supplied with the product (See 4.2).
- The U-Storage Manager Program supports the format for general Windows as well as complete formats for Flash Memory to enable the safe and efficient use of the product.

FCC Information

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

Note: This equipment has been tested and found to comply with the limits for CLASS B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. 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 correct the interference by one or more of the following measures:

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

WARNING

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.