Win Drive

User Manual

Version 2.33

FCC NOTICE

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.
OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITION:
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDERSIRED OPERATION.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures :

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit difference from that to which the receiver is connected.

- Consult the dealer of an experienced radio/TV technician for help.

NOTE : The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Introduction

Thank you for purchasing an Win Drive USB Mass Storage Disk. This guide explains how to use the Win Drive and the Application Software bundled with your device.

Safe Precautions

Please read the safe precautions carefully before you using the Win Drive and the application software (the product). Ensure that you use the product correctly according to the procedures described in this guide.

The following safety precautions are intended to remind you to operate the product safely and correctly. Please read and ensure that you understand them before you proceed to the other sections of this guide.

Warnings This mark indicated topics that could lead serious injury of your body or damage of the product if ignored or handled incorrectly.

Warnings

- Do not attempt to disassemble or alter any part of the product that is not described in this guide.
- Do not allow the product to come into contact with water or other liquids. In the event that water or other liquids enter the interior, immediately unplug the product from the computer. Continued use of the product may result in fire or electrical shock. Please consult your product distributor or the closest support center.
- Do not handle the product to do the plug and unplug operation if your hands are wet. Otherwise it will cause electrical shock.
- Do not place the product near a heat source or expose them to direct flame or heat.
- Never place the product in close to equipment generating strong electromagnetic fields. Exposure to strong magnetic fields may cause malfunctions or corrupt data.

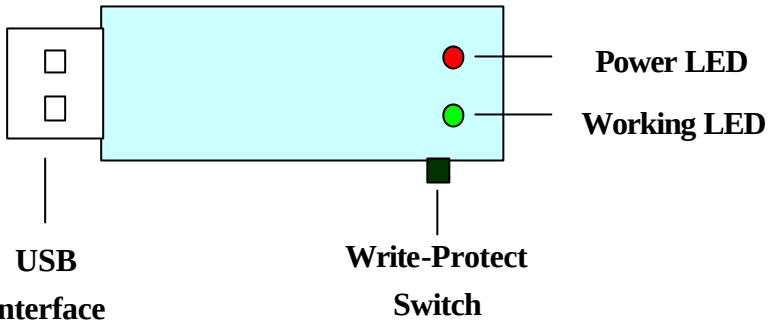
System Requirements

The following system requirements must be met to install and operate the Win Drive and the application software.

- Computer Model — IBM PC/AT Compatible, Power Macintosh, PowerBook, iMAC or iBook
- OS — Windows 98 Second Edition, Windows Millennium Edition (Windows ME), Windows 2000, Windows XP, Linux 2.4 or higher, Mac OS 9.0 or higher
- Interface — USB
- Free Hard Disk Space — 3 MB and more

  - Windows 98 SE does not support default Win Drive Mass Storage Driver. You have to install the driver bundled with the product.
  - The product can use the default driver in most of the OS. However, once you want to run the application software bundled with the product. The "Setup.exe" program will install vendor driver automatically. Then, the application software will work properly.
  - The application software only can run with Microsoft Windows OS. The version for Macintosh is under development right now. We will release it when available.
  - However, the Win Drive basic function could be supported in all OS listed above.

Guide to Components



USB Interface: The interface connects to the USB port of the computer.

Write-Protect Switch: If you put the switch in "ON" position, the device will be in write protection mode. You can not write in any data, you still can read the files or data in the device.

LED Display: This LED Display will show the status of the device. Once the device is in operation, the LED will be flush quickly.

Basic Functions

1. Plug and Play

When you plug the device into the USB port of your computer, you will see a "Removable Disk" icon in the file manager window.

In **Macintosh**, once you plug the Win Drive into the USB port. You can see the disk icon in the "Desktop".

In **Linux** OS, you can follow the following instruction to "mount" the device,

- Execute cd /etc/sysconfig/ (cat /etc/sysconfig/hwconf | more)
- Check the device information in hwconf, write down the mount point.
- Make a directory in /mnt (ex: mkdir /mnt/usbHD)
- Then, execute mount /dev/sda1 /mnt/usbHD (if mount point was .dev/sda)

2. Read and Write

You can do the read, write, copy, and delete operations with the files and data as the same way with the files and data in the hard disk.

3. Write-Protect Switch

When you put the write-protect switch to "ON" position, you can not write any file or data into the device. You still can view and read the files and data in the device. You can switch the "Write-Protect" switch even you did not disconnect the device. Due to Linux OS limitation, the write protect switch will not work on-line.

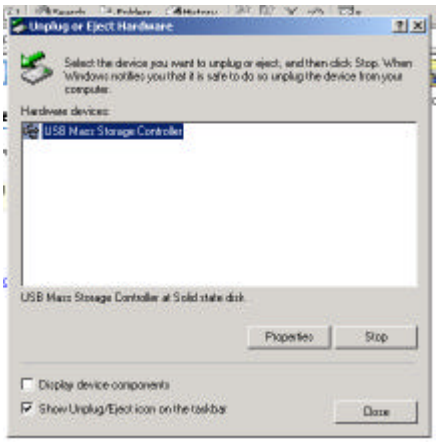
4. Unplug

You can remove the device after you finished the action with the device. However, in Windows ME and Windows 2000, please follow the safe removal procedure. You can find a safe removal icon in your computer's notification area.

Double click the "safe removal" icon; the "Unplug or Eject Hardware" window will be pop up. You can select the device you want to remove. Then, click the "Stop" button. After that you can unplug the device from the USB port of your computer.

Warning When you want to remove the Win Drive, please make

sure the LED is not flush quickly. If the LED flush quickly, that means there are some traffic on going between OS and Win Drive. Don' t remove the Win Drive at this time. Otherwise, it will cause some damages of the data or files even the Win Drive.



Warning If you do not follow the safe removal procedure in Windows ME and Windows 2000 system, it may cause data lost due to the write cache issue.

In Macintosh machine, you can drag the removable disk icon and put into the trash. This action will perform the "Eject" function.

In Linux OS, please follow the "umount" command procedure to un-mount the device.

Partition Type

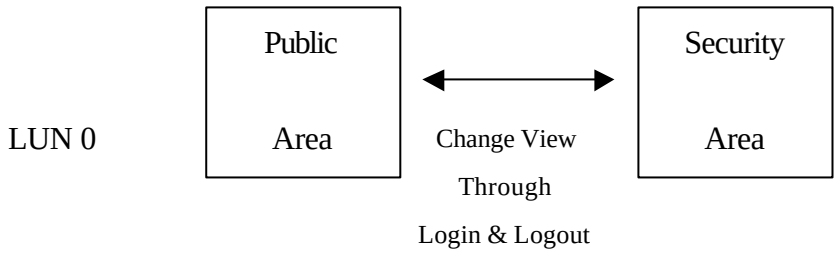
We can partition the Win Drive into three types of disk. We will use the following terminologies in this guide,

1. Public Area — There is no "Security" function at all. You can do any basic functions, described in the "Basic Functions" section, in this area.
2. Security Area — This area can not be viewed without the application software. Once you do the "Log In" action in the application software, you will switch view from "Public Area" to "Security Area". After switched successfully, you can do any basic functions, described in the "Basic Functions" section, also in this area.

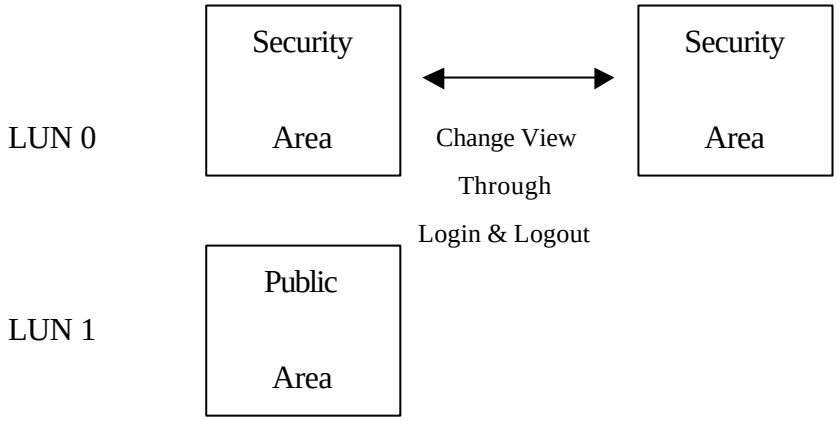
☞ You can only view either of the "Public Area" or "Security Area" in the same disk logic unit number, LUN, at the same time.

In Win Drive, you can select the following partition combinations:

1. Single Public Area — Make all the device area accessible by everybody.
2. Security Area — Make the device area into two partitions in the same LUN, Public Area and Security Area. The Public Area can be accessed by everybody. The Security Area can be accessed "Only" with a password.
3. Public Area Plus Security Area — Make the device area into three partitions in two LUNs, Public Area and Security Area in LUN0, and Public Area in LUN1. It has to use multiple LUNs driver to operate. The partition status was showed in the following figure. The partitions in LUN 0 will perform as described in the above item 2. The partition in LUN 1 will perform as described in the above item1.



This figure shows the detail operation of single LUN.



This figure shows the detail operation of multiple LUNs.

Function Type	Security	Password	Disk Logical Unit Number	Disk Letters in OS
1. Public Area Only	No	No	1 (LUN0)	1
2. Security Area	Yes	Yes	1 (LUN0)	1
3. Public Area Plus Security Area	Yes	Yes	2 (LUN0 & LUN1)	2

This table shows the function description of the three partition types.

Using the Software

On the Windows Platform

Installing/Uninstalling the Application Software:

Installing the software:

If you are installing the application software onto Windows OS, you must first log on as the administrator and then install the application software.

Precaution about the USB Interface

- Please connect the device to the USB port of your computer when you install the application software.
- If you do not connect the device to the USB port and install the application software in Win XP OS, when you plug in the device you have to install the Win Drive driver again.
- In Windows 98 SE and Win Me, after install the driver you need to unplug the Win Drive and plug again in order to use the correct driver.

1. Find the "WinDriveTools2.33_En.exe" program.
   You can find the program in the Win Drive, CD-ROM, or Floppy.
2. Double-click the [WinDriveTools2.33_En.exe] icon.
3. Follow the on-screen instructions to proceed.

Uninstalling the software:

To remove the installed software, you can click the windows [Start] menu and select [Setting], [Control Panel] and [Add/Remove Programs]. The application software can also be uninstalled by clicking the [Start] menu and selecting [Programs], [Win Drive], [Uninstall Win Drive].

Notes:

- The USB driver only needs to be installed the first time the Win Drive is connected via the USB port. Installation is not required from the second time onward.
- Do not cancel the installation during the procedure. The Win Drive may not operate correctly if the installation is incomplete.

- Read the "Troubleshooting" Section if the installation cancels itself during the procedure, if the installation did not proceed as described, or if you feel that the driver are not properly installed.

Installing the USB Driver:

In some Windows system, users should log on as the Administrator before installation.

Once you have attached the Win Drive to the computer. The OS will find the appropriate driver or the "Add New Hardware Wizard" dialog will appear after a moment. You can do the installation of the Driver manually. Or just find out the "Setup.exe" program to do the driver installation.

During the installation procedure, if the "Digital Signature Not Found" message displays, just click the [Yes] button in the showing window.

Using WinDriveTools2.33_En.exe Program the First Time:

Warning Due to the WinDriveTools2.33_En.exe can only handle one Win Drive device at the same time. If you will not use the function of the WinDriveTools2.33_En.exe, like "Resize", "Change Password", or "Log In", etc., you can insert more than two Win Drive devices. If you want to use the function of the program, please remove all other Win Drive device. Otherwise, the WinDriveTools2.33_En.exe may perform not properly even cause data lost.

After you installed the software and driver correctly, the Win Drive icon will appear in the notification area automatically.

Or

The display will depend on the status of the device.

- You can use the right button of your mouse to pop up the selection menus as the

following figures. Then, you can select the function you want.

➢ Or you can double click the icon in the notification window. The Win Drive manager window will be popped up as,

By default, the device is non-security. So, the "Resize" function will be active when you run this software first time.

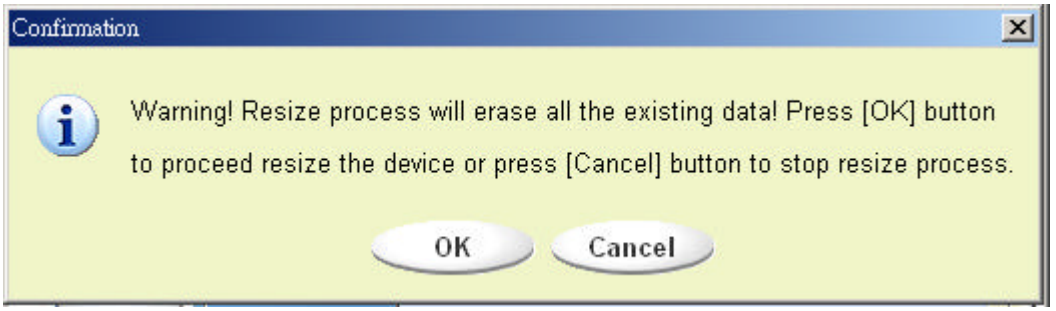
Win Drive - Resize:

As described in the "Partition Type" section, you can do the "Resize" action to your Win Drive.

Warning The "Resize" action will erase all the data or files existing in Win Drive. The action is not reversible. You have to backup all the important files or data. Also, please close all the active program and windows on the screen of your computer.

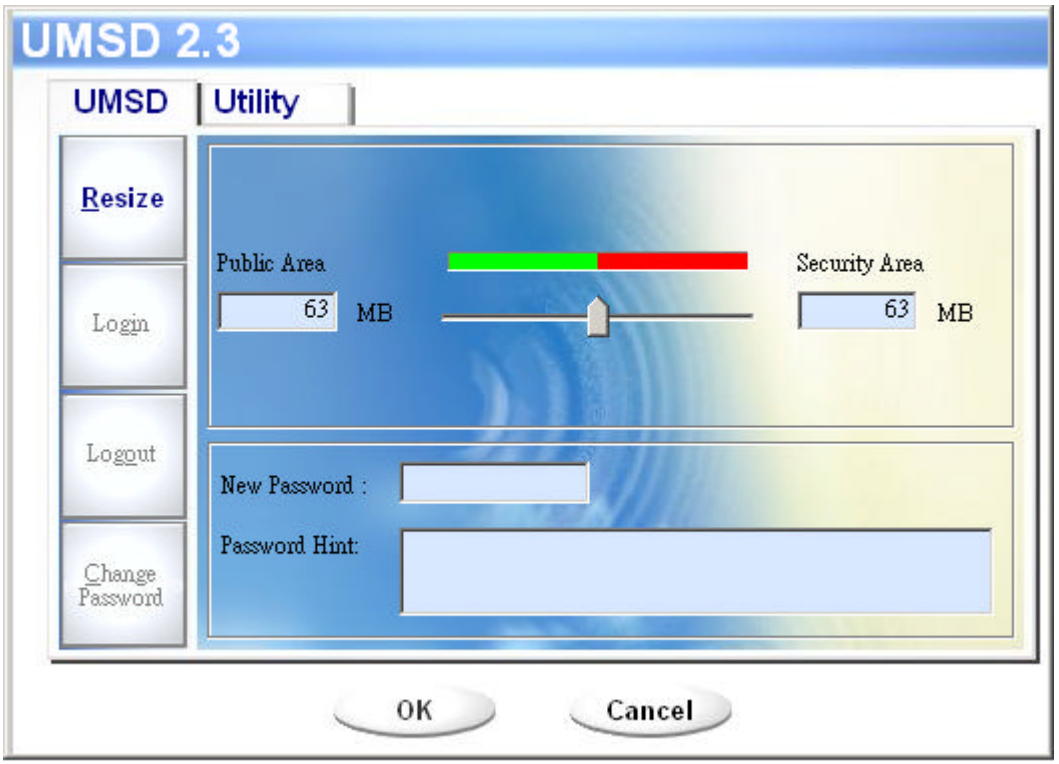
1. Click the Resize button in the Win Drive manager window. The following "Resize Partition" window will be popped up.

2. Select the partition type you want.
3. If you select the "Public Area Only", then click the [OK] button. The "Confirmation" window will be popped up. Please make sure you already backup all the important files or data.



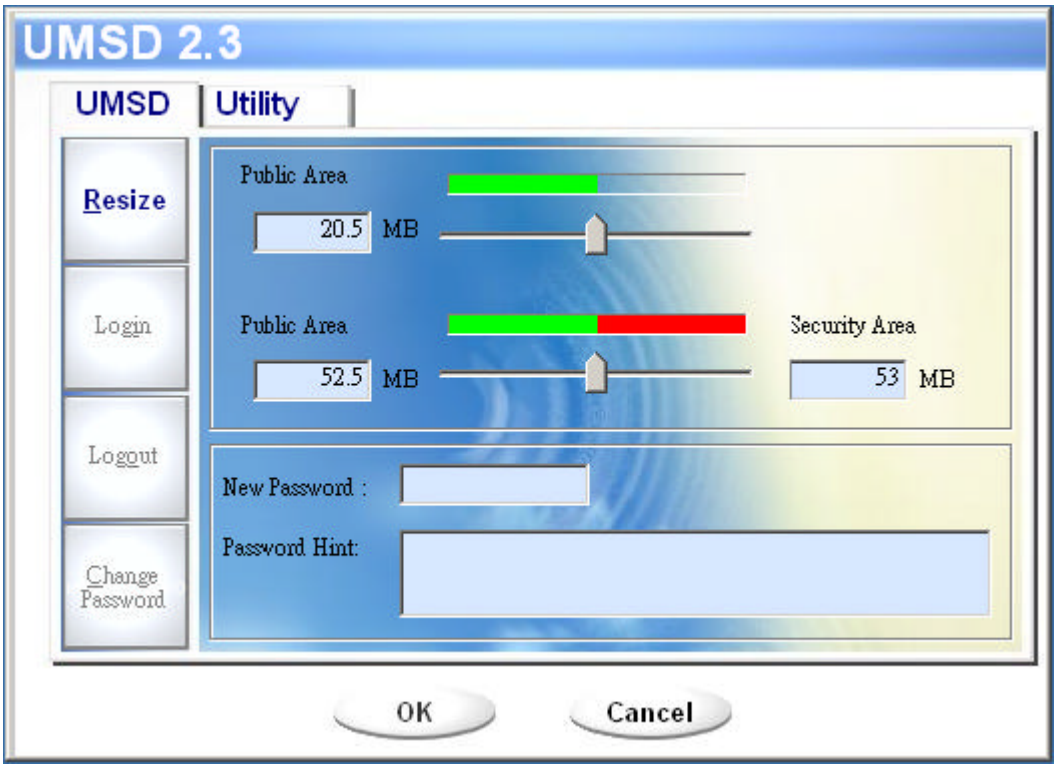
4. If you select the "Security Area", then the following "Security Area Resize" window will be popped up. You can drag the scroll bar in the middle of the window to set the size of the "Public Area" and "Security Area". Or you can type in the size of each Zone you want in the "Size" window. You can set the password for accessing the security area in the "New Password" window. The

maximum size of the password is 8 characters. You can key in the hint of your new password in the "Password Hint" window. This hint will be displayed when you click the "Hint" button in the "Unlock Protect" window. The maximum size of the Hint is 32 characters. After you finished the setting, click the [OK] button. The "Confirmation" window will be popped up. Please make sure you already backup all the important files or data.

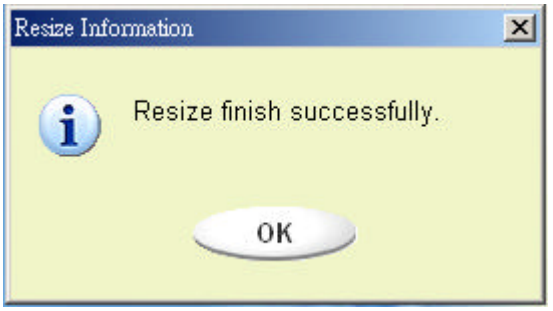


5. If you select the "Public Area + Security Area", then the following "Public/Security Area Resize" window will be popped up. You can drag the scroll bar in the window to set the size of each area. First, please set the size of the "Public Area" of LUN1. The minimum size for each area is 1MB. The maximum size of the "Public Area" of LUN1 is 1/4 of the total size. Once the size of the "Public Area" of LUN1 was set, the scroll bar of the "Public Area" and "Security Data Zone" of LUN0 will be set in the middle automatically. Or you can type in the size of each Zone you want in the "Size" window. You can set the password for accessing the security area in the "New Password" window. The maximum size of the password is 8 characters. You can key in the hint of your new password in the "Password Hint" window. This hint will be displayed when you click the "Hint" button in the "Unlock Protect" window. The maximum size of the Hint is 32 characters. After you finished the setting, click the [OK] button. The "Confirmation" window will be popped up. Please make

sure you already backup all the important files or data.



6. Once the resize finished, the following message will be popped up.



7. After you finished the "Resize", the "Setup.exe" program will be copied into the "Public Area" (in LUN 0) automatically. It's removable. However, it is needed when you insert your device into another computer. It will install the Win Drive software for you in the computer.

Login the Security Area:

If you partition the device with security, you can execute the following "Login" function to access the security Area.

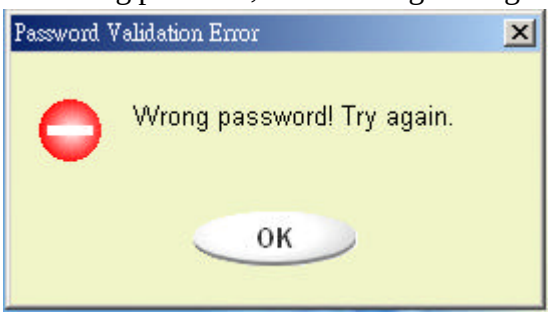
1. Double click the Win Drive icon in the notification window or click the [Login] button in the Win Drive manager window. The "Unlock Protect" window will be

popped up.

Warning When you do the login and logout action with the device. Please make sure there is no application or program running or document open connection on the device. If so, it will cause data lose or damage.

2. Key in the password in the "Password" area.
   - You can create the password hint in the "Resize" or "Change Password" functions. Once you had created the password hint, you can click on the "Hint" button in the "Unlock Protect" window to prevent you forget the password. The Hint will be showed for three seconds.

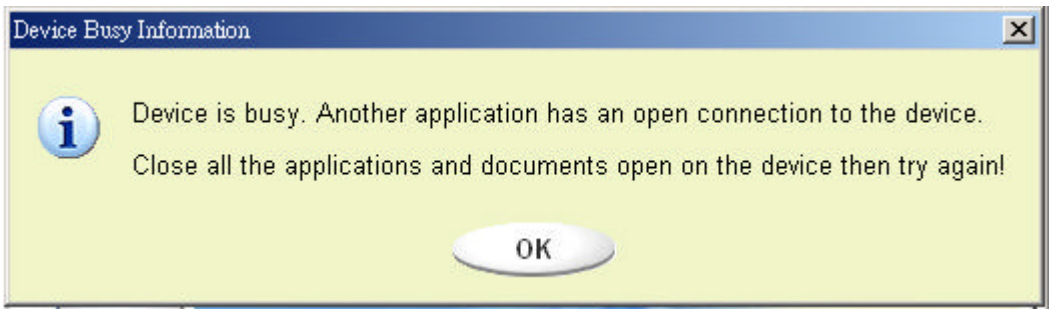
- If you key in the wrong password, the following message will be showed.



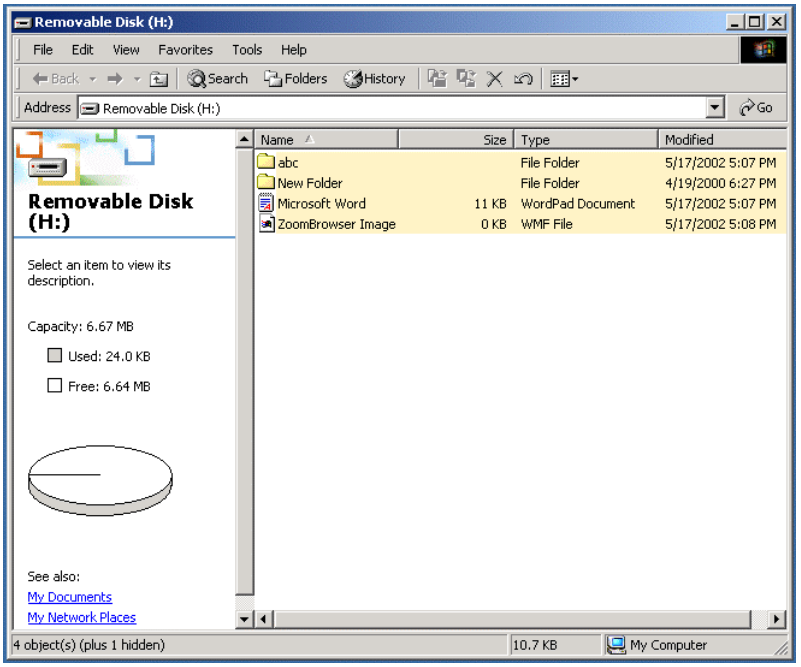
- You have three tries to input the password. After three tries, the following message will popped up. And you have to unplug and plug the device in order to do future action.

- When you do the login or logout action, please make sure you close all the

programs or documents open connection on the device. If there is some application program is running or document open connect on the device, the following message will be popped up. In Win2000, even the “file manager” has accessed the device it will be treated as “busy”. You have to close the file manager in order to do the “Login”. However, not all the connection could be checked in all kind of OS.



3. Click on the “OK” button.
4. Once the file manager window contains the “Security Area” was popped up, you can do the operation you want with the Security Area. The file manager window will be like the following figure. The background is colorful.

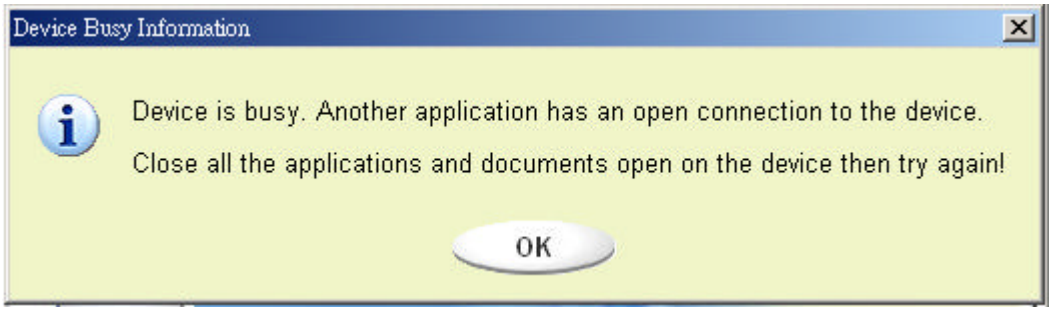


Logout the Security Data Zone:

1. Double click the Win Drive icon in the notification window or select the [Logout] button in the Win Drive manager window.

Warning When you do the login and logout action with the device. Please make sure there is no application or program running or document open connection on the device. If so, it will cause data lose or damage.

- When you do the login or logout action, please make sure you close all the programs or documents open connection on the device. If there is some application program is running or document open connect on the device, the following message will be popped up. In Win2000, even the "file manager" has accessed the device it will be treated as "busy". You have to close the file manager in order to do the "Login". However, not all the connection could be checked in all kind of OS.

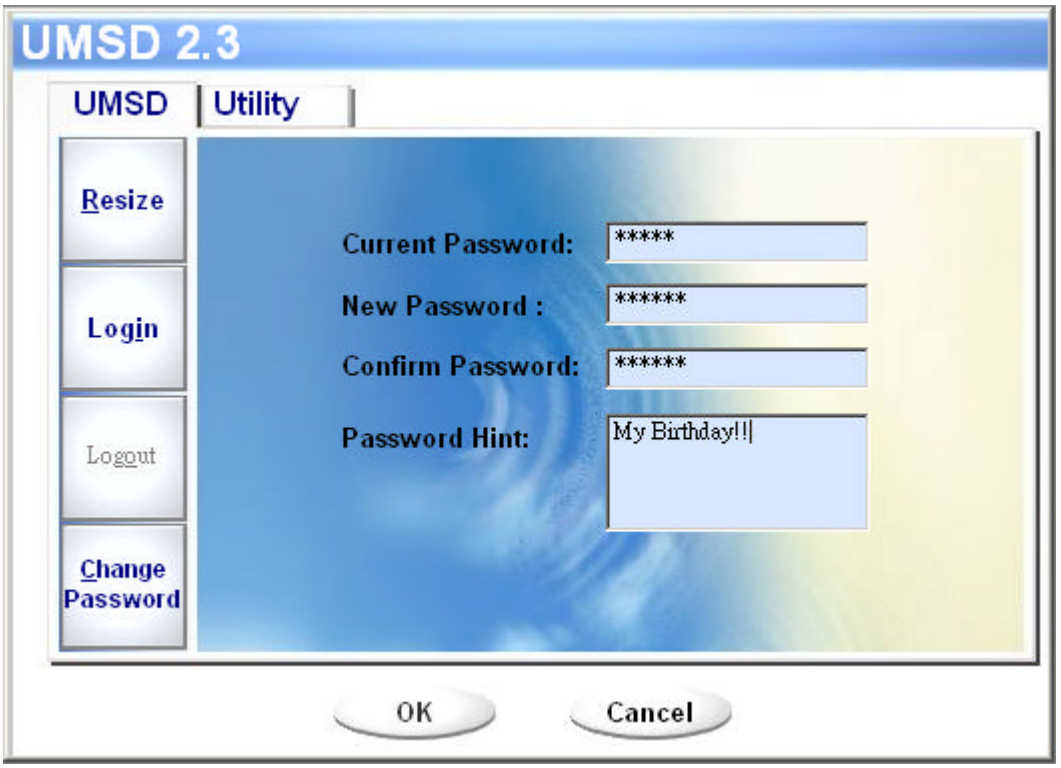


2. Once the file manager window contains the "Public Area" was popped up, you can do the operation you want with the Public Area.

Change Password:

User can change password and key in the password hint using the "Change Password" selection in the Win Drive menu. You can only select this item in "Security AP Zone".

1. Click the Win Drive menu in the notification window using the right button of your mouse and select the [Change Password] selection of the Win Drive menu. The following "Change Password" window will be popped up.



2. Make sure the "Write Protect" switch is in "OFF" location.
3. Key in your current password in the "Current Password" area.
4. Then, key in your new password and confirm in the "Confirm Password" area.
   - The maximum size of the password is 8 characters.
5. You can key in the hint of your new password in the "Password Hint" window. This hint will be displayed when you click the "Hint" button in the "Unlock Protect" window.

Boot Up Function

The BootUp program in "Utility" manager window will build up the device as a bootable disk. Before you run the program, please do the following preparations,

1) This program can run under Windows 98 SE, ME, and XP. (The program can't be supported in Windows 2000.)
2) Please turn off the anti virus program during the procedure.
3) Make sure your Windows system was located in C Disk.
4) Make sure the "write-protect" switch is in "OFF" position.
5) This program only deals with one device at the same time.
6) Make sure your Win Drive is in "Public Area" if it is with "Security" function.

7) If you want to make your device as a bootable USB HDD, you can' t make the device as a "Security" one. This option is only supported in Windows 98 SE.

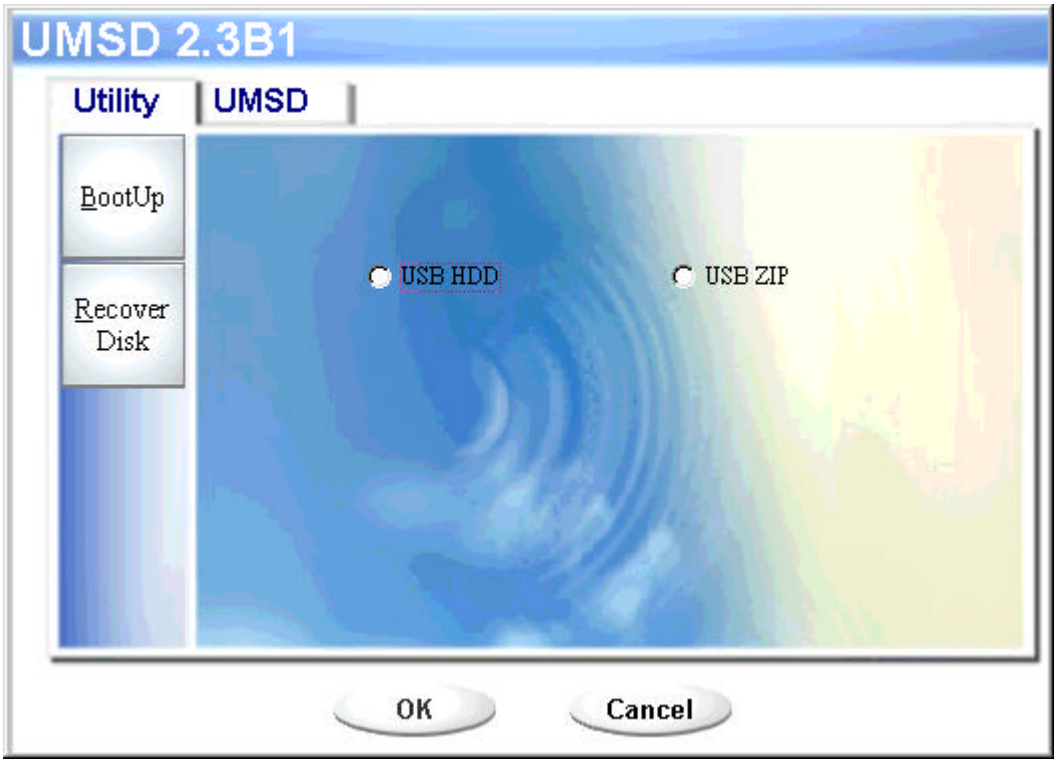
Warning If you performed the "Log In" action with your Win Drive and located in "Security Area" and run the BootUp function, it will do the "Log Out" and erase all the data in "Public Area".

When you are ready to process, follow the following procedures, the procedures for Windows XP is different from Windows 98 and ME. This program can not be run in Windows 2000.

Windows 98 SE and Windows ME:

1). You can click the [Utility] button in the Win Drive manager window to execute the BootUp utility.

2). The following window will be showed up.

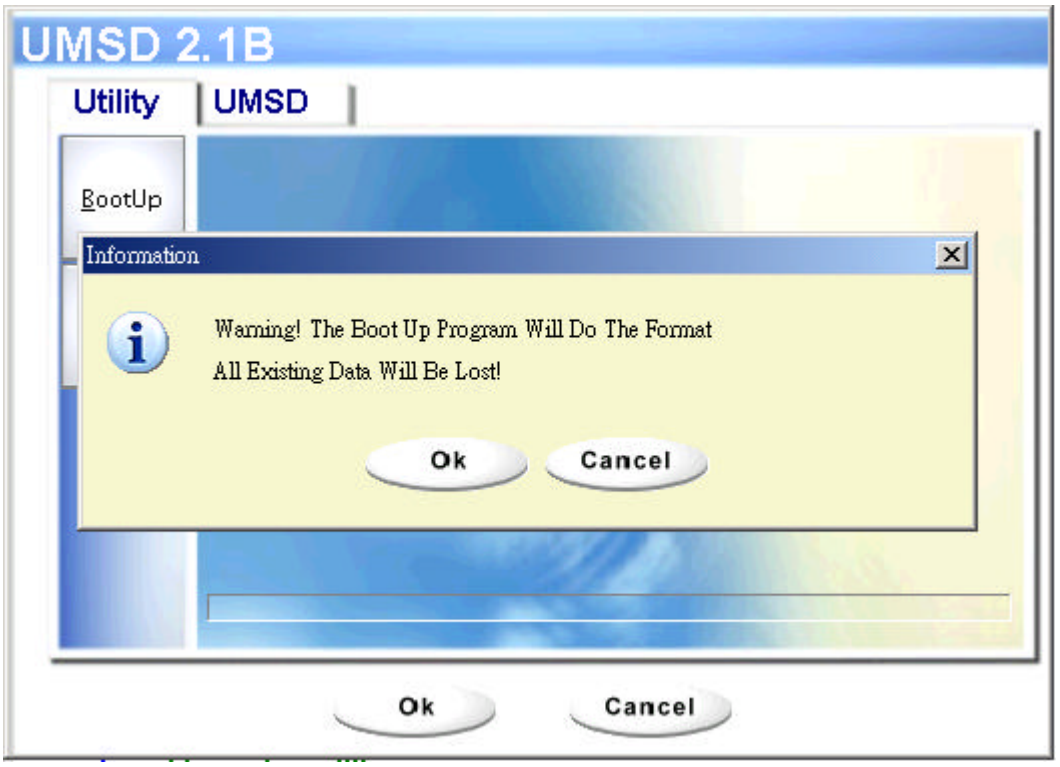


3). You can select the type of the boot up method, USB ZIP or USB HDD. The USB HDD is only for Windows 98.

- If you select "USB HDD", the computer will get the C:\>_ prompt after you booted from the Win Drive.
- If you select "USB ZIP", the computer will get the A:\> prompt after you booted from the Win Drive.
- If your device was with "Security" function, only USB ZIP can be selected.

4). After the selection, please click on the "OK" button. The following warning message will be showed up. The data in the "Public Area" will be lost. If it is OK, click on the "OK" button to continue the process.

Warning The program will do the format. The existing data in the "Public Area", which you want to make, will be lost.



5). After the process was done, the finish message will be showed.

Windows XP:

1). Please make a bootable floppy first. You can insert a floppy into the floppy drive. Then, click on the icon of 3.5" floppy in the "My Computer" window by using the right button of the mice. Select the "Format" item.

2). Select the item for build up a bootable floppy in the format options. Then, click on the "Start" button.

3). Make a directory called XP_Bootable in the root directory of your computer

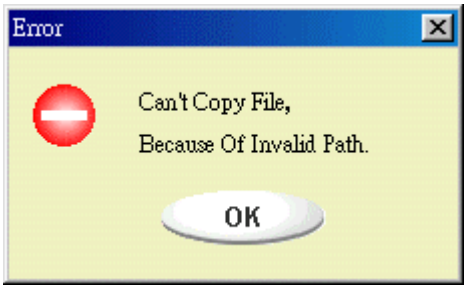
system disk.

4). Copy all the files in the floppy to the XP_Bootable directory.

5). Click on the [Utility] button in the Win Drive manager window. Then, select the USB ZIP. Click on the “OK” button.

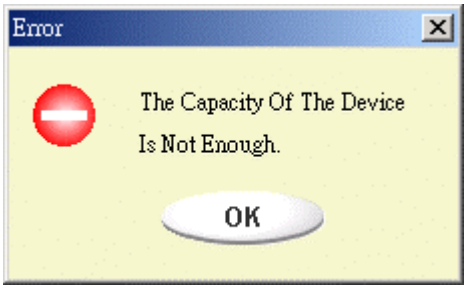
6). After the process was done, the finish message will be showed.

Error Messages:



When this message shows up, the possible reason is your Windows OS installation was not completed. (Please make sure the path \WINDOWS\COMMAND\EBD in Windows 98, \WINDOWS\COMMAND\EBD in Windows ME, or \XP_Bootable in Windows XP is exists)

When this message shows up, please make sure the "Write-Protect" switch is in "OFF" position.



When this message shows up, please make sure the capacity of the "Public Area" is enough.

Notes:

- After you finished the program, you will see different disk property when you select different disk type. For example, if you select it as "USB HDD", you will see the hard disk icon in the file manager window. If you select it as "USB ZIP", you will see the removable disk icon in the file manager window. However, only Windows 2000 and above can identify the difference. In Windows 98, you just can see the "Removable Disk".
- After you finished the program, the device contains the files necessary for boot up function. Please don' t remove any file in this area. Otherwise it will cause failure when you do the boot up procedure of your computer.
- When you want to use the Win Drive to boot up your computer, please select the appropriate setting of the BIOS. Please refer to the user manual of the mother board.
- Due to the BIOS design of each motherboard is quite different; we can not guarantee the boot up device is suitable for every computer.
- Because Award changed his BIOS spec. since March, 2002, the boot up procedure is different from before. We can not identify if the BIOS is new or old. So, this boot up utility is not suitable for Award's new BIOS if you using USB ZIP boot up option.

Recover Disk

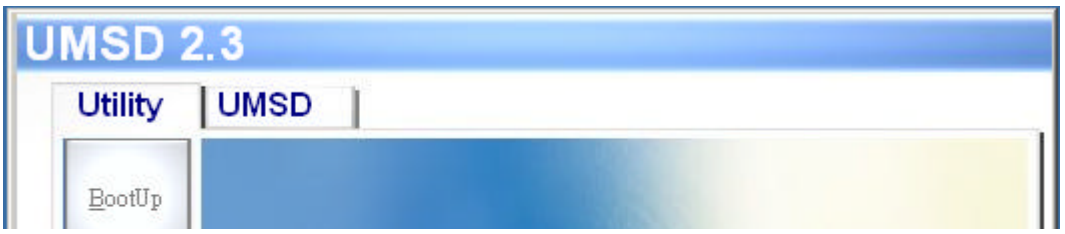
Once your device was damaged, you can use this utility to recover the device. It will make the device back to its initial status. However, if there are some bad blocks in the flash memory, after you run this utility with scan option, its size maybe less than its initial size.

1). After you click on the [RecoverDisk] in [Utility] portion of Win Drive manager windows, the following window will be popped up.

Warning The "Recover Disk" action will erase all the data or files existing in Win Drive. The action is not reversible. You have to backup all the important files or data.

2). You can check out the check box of "Scan Disk" for the "Read/Write" testing for each block. It will take a long time for scan each block. You can estimate the time will be taken. It will take about 1.5 minutes for each 16 MB.

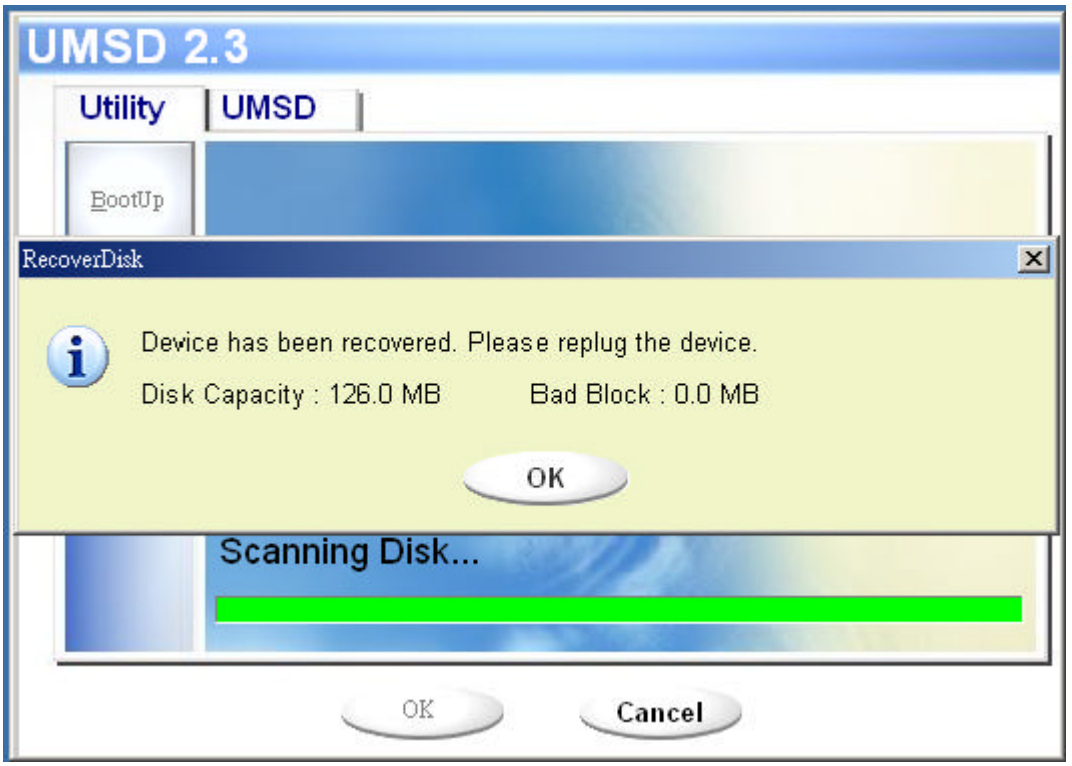
3). After you click the [OK] button in the window, the low level format process will be started.



If you check out the check box of the “Scan Disk”, the “Scanning Disk” process will follow the “Low Level Format”.

4). Once the job was finished, the complete message will be show up as the

following figure.



Known Problems

Problem: The "Write-Protect" switch can not work on-line on Macintosh computer with Mac OS 10.1.4.

Warning If you switch the "Write-Protect" on-line with Mac OS 10.1.4, it will cause the computer system hang when you do the read or write operation.

Workaround: Disconnect the device when you need to switch the "Write-Protect" with Mac OS 10.1.4. We will solve the system hang problem in the near future. However, due to the OS operation issue, we don' t recommend you switch the "Write-Protect" on-line.

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