User Manual of USB Flash Drive

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.

Contents

1. Introduction

Nowadays, USB is the most popular interface of PC, as you can see, peripherals like mouse, keyboard, web cam, scanner, digital camera… are all migrated to USB interface. Data storage is also an important application of PC, as the growing needs of mobile mass storage solution, a revolution product called "USB Disk" which combined USB interface with mass storage Flash ROM is introduced. It takes the advantage of the convenience of USB and large capacity of Flash ROM, and become very popular in less than 2 years. You can store you personal files on USB disk, plug on any computer with USB interface, than access you files just like access a mobile hard disk. Though USB disk has large capacity (above 32MB), it is much smaller on contrast to floppy disks and hard disks.

1.1 What is Gripio USB disk

Gripio is a USB disk product of MS Intech Co., Ltd. With powerful software functions, it is more convenience and secure than other USB disks. Gripio can support 1 Flash ROM simultaneously, that is, the largest capacity is 256MB. Since privacy and data security is very important for end user, Gripio equipped multiple well-designed and robust password protection functions. We also implemented serious compliant test in various operation systems, such as Windows 98, Windows ME, Windows 2000, Windows XP, Mac OS 8.6, 9.x, 10.x, Red Hat Linux 7.x, 8.x.etc. Gripio is driverless in Windows ME, 2000, XP, but Windows 98 system didn't come with default USB drivers, you need to install a device driver (Detailed in Section 3.1). Gripio is also driverless in Mac OS 8.6, 9.x, 10.x, Red Hat Linux 7.x, and 8.x. It supports hot plug & play in all OS, and needn't external power supply. We are proud to say that; Gripio is a very stable and reliable mass storage solution among all USB disk products.

1.2 Function features

❖ USB version 1.1 compliant

❖ Supports full-speed (12 Mbps)

❖ USB bus-powered capability

❖ Driver Support for Windows 98/98SE

  ■ Driver-less to support

  ◆ Windows 2000, Windows ME, XP

  ◆ Mac OS 8.6, 9.0, 9.0.4, 9.2.1, 9.2.2, 10.2, 10.2.1

  ◆ Red-Hat Linux 7.x and 8.x

❖ H/W Write Protect

❖ Support suspend mode and wake-up resume

❖ One LED working Message

❖ PC software functions

  ■ Auto installed after clicking the included execution file

  ■ Dialog menus activated by the mouse right button

  ■ Normal and bootable disk formatting

  ■ USB ZIP and FDD bootable function

  ■ Quick and complete disk formatting

  ■ Security and non-security disk formatting

  ■ Password function to enable the security feature

  ■ Dynamic partition for security disk formatting

  ■ S/W write protect

  ■ Create the Shortcut functions

  ■ PC-lock function

  ■ Multiple language support for dialog menus

  ■ Personalized folder background

1.3 Copyright

2. System requirement

All USB disks' performance very depends on the performance of the PC that the USB disk connected. The minimal system requirement recommended as follow:

2.1. PC system:

- ❖ CPU: Pentium III or above
- ❖ RAM: 64MB or above
- ❖ Hard Disk free space: 5MB or above
- ❖ USB Host: USB 2.0, USB 1.1 or Add-on-card
- ❖ Operation System:

  - ■ Windows: Windows 98 SE, Windows ME, Windows 2000, Windows XP or later.
  - ■ Linux: Red Hat Linux 7.x, 8.x or compatible versions.

2.2. Mac System:

- ❖ Hardware: Power Mac, iMac, eMac, iBook and compatible hardware systems.
- ❖ Operation System: Mac OS 8.6, 9.0, 9.0.4, 9.2.1, 9.2.2, 10.2, 10.2.1
- ❖ USB Host: USB 2.0, USB 1.1 or Add-on-card

3. How to install & uninstall

In this section, we will show you how to attach Gripio USB disk to PC, install & uninstall its software utility in your PC. Because USB disk is driverless in most OS except Windows 98, we will explain how to install driver in this OS. Software utility of Gripio is installed automatically, but when you don't need this utility any more, you have to uninstall it manually by yourself. You can find out this uninstall program on the CD come with Gripio or download from vendor's WEB site.

3.1 Hardware Installation

USB had became a standard equipment of PC for more than two years, if your PC is older than 2 years, you should call your PC vendor to make sure that there are USB hosts on your computer. Gripio is a device with "male" USB connector; you can find out "female" connectors at the back-end of your PC, some PCs place their USB connectors in the front-end of PCs, or both. All you have to do is simply plug your Gripio into PC's USB connector, PC will detect Gripio automatically.

It's a good idea to attach an extended USB connector cable to prevent attrition of host connectors on PC.

3.2 Driver Installation & un-installation on Windows 98

If your operation system is Windows 98, you will see a pop up "detected new device" wizard as soon as you plug Gripio into PC. The message tells you that PC had detected the Gripio USB disk but Windows doesn't know what it is. Please follow install steps below:

1. Plug Gripio into PC, Windows will display Add new device wizard.
2. Click [Next] button.
3. Choose [search for new device driver] option than click [next] button.
4. Put the CD come with Gripio into CD-ROM drive.
5. Choose [search CD-ROM Disk] option than click [next] button.
6. Windows will find out and install Gripio driver automatically.
7. If installation succeed, click [Next] button than click [Finish] button, the installation is completed.
8. If error messages occur, click [cancel] many times to leave wizard. Maybe you put wrong CD in PC, eject CD-ROM and check it. Or repeat step 1 to 7 again.

3.3 Installation & un-installation on Windows ME, 2000, XP

Since Gripio supports driverless functions on Windows ME, 2000, XP, all you have to do is just plug Gripio into PC's USB connector and wait for a while, you can see a removable disk display on explorer and "My computer". You can access this removable disk just like access Floppy disks.

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You don't have to uninstall Gripio driver on Windows ME, 2000, XP.

3.4 Installation & un-installation on Mac OS

Since Gripio supports driverless functions on Mac9.x, 10.x, all you have to do is just plug Gripio into Mac's USB connector and wait for a while, you can see a removable disk display on desktop. You can access this removable disk just like access Floppy disks.

If your Mac OS version is 8.6, you must install USB hardware driver before plug Gripio into Mac. This driver could be downloaded from http://www.apple.com.

You don't have to uninstall Gripio driver on Mac OS.

3.5 Installation & un-installation on Linux OS

Although there are default drivers of USB in Linux OS, you still have to "mount" Gripio manually.

❖ The install (Mount) procedure is:

1. Plug Gripio into PCs USB connector.
2. Launch a command window.
3. Execute "sfdisk –l /dev/sda" command, if Linux detected Gripio successfully, you can see Gripio's information. Remember the disk driver of Gripio, ex:sda1.
4. Create a mount point for Gripio, that is, create an empty directory. Ex:/Gripio
5. Execute "mount /dev/sda1 /Gripio", the sda1 is the driver name recorded in step 3, "/Gripio" is the mount point created in step 4.
6. You can access /Gripio just like access general directories.

   Note: You can't remove Gripio from PC directly; this will cause data serious loss and device damaged. Once you "Mount" a Gripio on Linux, you must "Un-mount" it before you remove it form PC.

❖ The uninstall (Un-Mount) procedure is:

1. Launch a command window.
2. Execute "umount /Gripio", the "/Gripio" is the mount point in the previous example.
3. Remove Gripio form PC's USB connector.

3.6 Install & Uninstall software utility

Software utility is only supported in Windows. When you plug a new Gripio into your PC, double click on "My computer" icon or launch an explorer, browse into Gripio, you will find out an executable file named: "passwd.exe ". 아이콘그림

Passwd.exe is the key of password security as well as the installer of Gripio software utilities.

❖ Install software utility:

1. Double click on Passwd.exe to launch this program.
2. When passwd.exe was launched, it will check if the software utility is already installed. If not, passwd.exe will install the software utility automatically.

❖ Un-install software utility:

1. Put the CD come with Gripio into CD-ROM drive.
2. Launch an explorer, browse the CD-ROM, you will find out an executable file named: "uninstall.exe 아이콘그림".
3. Double click on uninstall.exe to launch it. Uninstall.exe will uninstall software utilities of Gripio as soon as it launches.
4. But remember that when you execute passwd.exe next time, software utility will install to you PC again automatically.

4. Software utility user guide

Gripio software utility is a well-designed windows program; it will add lots of proprietary powerful functions into explorer and "My computer". Whenever you want to do something on Gripio, just right click you mouse button on Gripio disk icon in explorer and "My computer", you will find some

special function icons from the popup menu.

Software utility is carefully tested and verified in Windows 98, ME, 2000, and XP; it is a reliable utility program.

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See section 4.2 for detail

See section 4.4 for detail

See section 4.3 for detail

See section 4.1.2 for detail

There are four major functions in software utility: "Format Disk", "Configuration","Safety eject"," Security Logout". As their names said, "Format" is the format tool, "Configuration" is where you can change some options, "Safety eject" keep you away from data loss, and "Logout" is the reverse function of passwd.exe. Because these functions are proprietary, you can't see them when right click on other disks, even other vendors' USB disks.

Versions of Windows are quietly different with each other; some functions in software utility are disabled because some versions of Windows don't support those functions. For example, you can't make bootable Gripio USB disk in Windows 2000, but you can do this in Windows 98 & ME. You can do basic file management or even format Gripio by windows default "Format" function without installing software utility, but you will miss some advanced features like "PC lock" and "Dynamic disk partition"… and so on.

4.1 Password Security

Documents stored in Gripio maybe very import for you or your company. Once you lost Gripio, to make sure nobody can access the documents stored in Gripio could be major concern of you. Password security is the default setting of Gripio, you can re-format Gripio to disable it. By the way, we suggest that your password should have 8-characters, combination of uppercased and lowercased alphabetical and digits, this is a good way to prevent someone happen to find out your password by guess.

4.1.1 Login

If password security options are enabled, you will have two disk partitions on Gripio. The first partition is [Public Area] and the other is [Security Area]. When you plug Gripio into PC, all you can see is nothing but public area. "passwd.exe 아이콘그림 "
is the key to switch to [Security Area]. The login procedure is:

1. Launch passwd.exe.
2. Input correct password, please notice that password is case-sensitive.
3. Click "Login" button.
4. If login failed, maybe you key in wrong password, please repeat step 1 ~ 3.
5. If login successfully, you can see files in [Security Area].

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4.1.2 Security Logout

You can use logout function to switch back to [Public Area], the logout procedure is:

1. Use right mouse button click on Gripio disk name.
2. From the popup menu, use left mouse button click on "Security Logout".

   Note: If you had enabled PC lock, you will see "PC is locked" message appears for about two seconds when doing "Security Logout" in Windows ME. This is not a software bug, because PC lock can't find USB disk during the transition state of "Security Logout".

4.1.3 Change Password

The default password of Gripio is "0000", it's better for you to change password as soon as you know how to change it. "passwd.exe 아이콘그림 " is still the key to change password. The procedure of changing password is:

1. Launch passwd.exe.
2. Click "Change Password" button.

3. Passwd.exe will popup a message told you to input old password first, click "OK".

4. Input old password, click "OK" button.

5. Now, input new password in [New password] Column, and re-type password in [Confirm] to make sure new password is correct. Click "OK" button.

6. If password is successfully changed, passwd.exe will popup a successful message, otherwise you should repeat step 1~5 to change password again.

7. After password is changed, Gripio is switched to [Security Area] automatically.

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4.1.4 Where am I ?

If you don't know where you are (Public or Security Area)? Follow the steps below:

1. Use right mouse button to click Gripio disk name.

2. Click "Configuration" in popup menu.

3. Look at the top of "Configuration" dialog, you will find where you are.

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4.1.5 Disable password security

If you want to disable password security, you must re-format Gripio with "None security option". See section 4.2 for detail.

4.2 Format Disk

Format functions are used to change the security, bootable, partition settings of Gripio. All data on Gripio will be erased after perform format functions. Since each version of Windows is quit different, some format functions are disabled automatically in some Windows versions. This table shows format functions for each Windows versions.

	Windows 98	Windows ME	Windows 2000	Windows XP
Quick format	☑	☑	☑	☑
Complete format	☑	☑	☑	☑
FDD Bootable	☑	☑	☒	☒
ZIP Bootable	☑	☑	☒	☒
Express security	☑	☑	☑	☑
Dynamic partition	☑	☑	☑	☑

How to launch Format disk dialog and format a disk:

1. Use right mouse button to click Gripio disk in explorer or "My computer".
2. Click "Format Disk" in popup menu.
3. Wait for a while, format disk dialog will popup.
4. Choose format and security options, than click "START" button.
5. Wait for format complete, than click "Cancel" button to return to explorer.

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See section 4.2.1
See section 4.2.2
See section 4.2.3

4.2.1 Quick format & complete format

If you want to delete all files on Gripio, Quick format is a good solution. Quick format will only erase FAT tables, Partition tables; this is a faster method to change security & bootable settings. On the contrast, complete format provide an overall erase, it takes longer time and is suitable for special

conditions. Ex: cleaning virus infected USB Disk; destroy all secret data… and so on.

4.2.2 Express & Dynamic partition security format

If you want to disable password security functions, choose "None" option in "Password Security" settings. You will create a blank disk with only one partition by doing this. If you want to enable password security, there are two options for you to choose: Express or Dynamic partition. This table shows the different points of these two password security functions.

	Express	Dynamic partition
Size of Public Area	Fixed to 2MB (non-bootable), 3MB (bootable)	Set by user
Public Area access policy	Write protected, user can't write data to Public Area.	User can write data to Public Area as long as there is enough free space.

When you choose "Dynamic Partition" password security option, you can adjust the "Size of Public Area" setting to fit your requirement.

4.2.3 USB FDD & USB ZIP bootable

Bootable functions are supported only in Windows 98 & Windows ME. USB FDD bootable configures Gripio to mimic USB Floppy disk when PC boot up. USB ZIP bootable configures Gripio to mimic Iomega ZIP 100 when PC boot up. Enable these functions will make your Gripio become emergency disk when external boot up is necessary. Which bootable functions are suitable for your computer depends on the BIOS supporting of your PC. If your BIOS supports only USB FDD bootable, ZIP Bootable is useless on your computer and vice versa.

Enable bootable functions will occupy 1MB disk space for each function, that is to say, dual bootable will consume 2MB disk space. Software utility will copy bootable functions on Public Area when USB ZIP bootable is enabled. But if you enable USB FDD bootable function, software utility will create a hidden partition to put bootable functions. The external bootable switch is used to switch between ZIP and FDD bootable functions. We discuss the procedure of both bootable functions below:

❖ **USB ZIP bootable**

1. Enable USB ZIP bootable and format Gripio.
2. Make sure the external bootable function is at "ZIP".
3. Change the "boot from" setting of BIOS to "USB ZIP".
4. Plug Gripio into PC and reboot.

❖ **USB FDD bootable**

■ **Enable FDD bootable:**

1. Enable USB FDD bootable and format Gripio.
2. Turn the external bootable function switch to "FDD".
3. Change the "boot from" setting of BIOS to "USB FDD".
4. Remove USB disk from your computer, turn the external bootable function switch on USB disk to FDD mode.
5. Plug Gripio into PC and reboot.

■ **Back to Normal mode :**

1. Remove Gripio from PC, turn the external bootable function switch back to "ZIP" (maybe "Normal", dependents on vender's setting.).
2. Re-plug Gripio into PC, it's no matter whether restart computer or not.
   NOTE: Since FDD bootable and ZIP bootable both require to reconfigure physical data block in USB Disk, only "Complete format" is available when you enable either one of these two functions.

4.3 Safety Eject

Many users complain about USB disk may cause data loss, because they don't "eject" USB disk before remove it form PC. When you copy files from or to Gripio,
operation systems (ex: Windows 2000) will create a memory area called "buffer" to manage file I/O on Gripio. If you suddenly remove Gripio from PC, data in "buffer" would be lost because there is no time for Windows to flush the data in buffer into Gripio. To avoid data loss, "Safety Eject" is a good solution.
The procedure of safety eject is:

1. Use right mouse button to click Gripio disk in explorer or "My computer".
2. Click "Safety Eject" in popup menu.
3. In "Remove or Eject hardware" dialog, click [Stop] button

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4. Choose the device you want to stop, than click [OK] button.

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5. When you see this message, the Gripio disk has been safely ejected form Windows. You can remove it form your PC now.

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4.4 Configuration

"Configuration" dialog collected all special functions and integrated in a dialog. These functions are "Disk information", "Security & write protect information", "Short Cuts","PC lock" and "File Compression". The disk information of Gripio is displayed in "Disk information", this section also shows which area you are if you enabled password security functions.

"Used Space " item tell you how many disk space was consumed, and "Free Space" item shows the rest size of disk space. Total Space is equal to the sum of "Used Space" and "Free Space"; it is the total disk space of current partition.

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See section 4.4.1
See section 4.4.2
See section 4.4.3
See section 4.4.5

4.4.1 Write Protection

Gripio supports two types of write protection: software mode and hardware mode. Software write protect lets you temporally set Gripio to Read-Only. Hardware write protect works like floppy disk write protect switch, when you turn on the switch, Gripio was write protected.

Hardware write protect is more simple than software one, just turn ON/OFF external switch. "Hardware write protection" item shows the status of hardware write protection. If you had enabled password security, the "Password Security" item of "Security & write protection Information" will change to "ON", otherwise shows "OFF". If the "Software write protection" checkbox was checked, this means software write protection was enabled, you can click on checkbox and click OK button to disable it.

4.4.2 Short Cuts

If "Enable Send To Short Cut" is checked, software utility will place a short cut of Gripio disk on "Send To" popup menu when you click right mouse button on a document in explorer or "My Computer".

If "Enable Desktop Short Cut" is checked, software utility will place a short cut of Gripio disk on desktop of Windows.

These two functions help you to access Gripio more efficiently.

4.4.3 PC Lock

Another new concept of Gripio application is PC Lock. Gripio works like a key of your PC, if the key doesn't exist, PC Lock will lock the mouse and keyboard to prevent others to access your PC without permission. When PC is locked, no one can unlock the mouse and keyboard except reboot your PC. If you want to lock your PC forever, even though reboot it, the advanced mode of PC Lock is what you need. If you just want to lock your PC temporarily, "Basic" mode is enough. Please notice that PC Lock doesn't allow runtime mode changes, you must stop PC Lock and re-Start at the mode you want.

❖ The procedure of setting PC Lock is:

1. Click on the lock option. (Ex: basic or advanced)
2. If you choose advanced mode, you can set a count down timer, PC will unlock when timer is up after reboot.

3. Click OK button to start PC Lock.

❖ To disable PC Lock, just click "None" option than Click OK button.

Note:
1. If you had enabled PC lock, you will see "PC is locked" message appears for about two seconds when doing "Security Logout" in Windows ME. This is not a software bug, because PC lock can't find USB disk during the transition state of "Security Logout".
2. If you had enabled PC lock, you will see "PC is locked" message appears during file "copy & paste" process in Windows ME. This is not a software bug, because PC lock can't find USB disk when USB disk is busy in I/O operation

4.4.4 File Compression

To be defined.

4.4.5 Personalize Gripio

Gripio supports personalization setting, you can change the background image of folder, text color, background color or even use a HTML file as folder background. Please notice that this function doesn't support in Windows XP.
The procedure of launching personalization wizard is:

1. Click [Personalize] button to launch personalization wizard.
2. Choose customization items, click [Next].

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3. Choose background image, text color and text background color. You can import your own background by clicking [Browsing] button. Click [Next] to enable your settings.

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5. Frequently Asked Question

Q1. My software utility disappear after format Gripio disk, how to recover it?

This is an explorer problem, you can try this three methods to solve it.

1. Close all explorer and "My computer" windows on desktop, and launch a new one to see if software utility recovered or not.
2. Remove Gripio from PC and plug in again.
3. Reboot.

Q2: If I don't want to install software utility, how could I eject my Gripio safely?

You can use windows default device manager instead of the "Safety Eject" function of Gripio software utility. Look at the right – bottom corner of Windows desktop, you can find out an icon like " ", double click on it to launch safety eject wizard.

Q3: Can I use the default format functions in Windows to format Gripio?

Gripio is fully compatible with Windows utility, the answer is yes. But if you don't use software utility of Gripio, you can't enable password security functions.