



Intelligent Stick 2.0

User's Manual

VERSION 1.0

Introduction

What is the Intelligent Stick 2.0?

Small, thin, light, powerful and high performance. PQI's Intelligent Stick® is a new standard of a digital memory card. The concept of the Intelligent Stick® was to design a product compatible with traditional USB host devices. PQI's Intelligent Stick® is designed to plug into any standard USB port. It's the first Flash Memory Card compatible with USB host device!

PQI's Intelligent Stick® provides a small form factor and low power consumption. This makes the I-Stick ideal for a portable/embedded/mobile device. With the I-Stick, you can easily transfer data from Digital Still Cameras (DSC), Digital Video Recorders (DVR), Personal Digital Assistants (PDA) or other devices to any PC or computer platform that has a USB port. No card reader is needed!

By complying with the USB 1.1/2.0 protocol of data transferring, PQI's Intelligent Stick® provides a superior data transfer rate of up to 480Mbits/sec(Host side), possibly the fastest system interface of the other miscellaneous digital memory cards.

FEATURES

Small, light, thin, powerful, and high performance

Low profile flash memory card

Host USB 2.0 interface compatible

USB 2.0 High-Speed protocol supported, up to 480Mbits/Sec max.

Over 7MB/sec data transfer rate @ USB 2.0 devices

Suspend and resume mode supported

Low power consumption

High data reliability based on internal ECC function

Full plug and play without extra device driver (Windows 98SE later)

Windows 98SE/ME/2000/XP, Mac OS 9.0 and above supported

USB Bus power supported, +5V DC Supply

X-ray safe. Your data is safe even through airport security.

Three year warranty

Basic Specifications

Interface	Compatible with USB 1.1/2.0 protocol
Capacity	128MB~ 1GB
Power Supply	DC 5V+/-5%
Data Transfer Rate (Host Interface)	Up to 480Mbits/Sec max
Sustained Transfer Rate	7MB/Sec*
Environment	Temperature: 0~60 (Operating) Humidity: RH 80% max, non-condensating (Operating)

Status Indication	LED
Dimension	Head: 0.5”(L) x 0.5”(W) x 1/8”(H)** Body: 1.4”(L) x 5/8”(W) x 1/8”(H)
Weight	3g approx.

* Performance may vary on different environments. Max performance tested under Win2000 test environment

**The thickest part.

Usage & Caution

Product Warning!

Avoid direct exposure to high heat and humidity, as the functionality of this product will be adversely affected by these extreme conditions.

Caution:

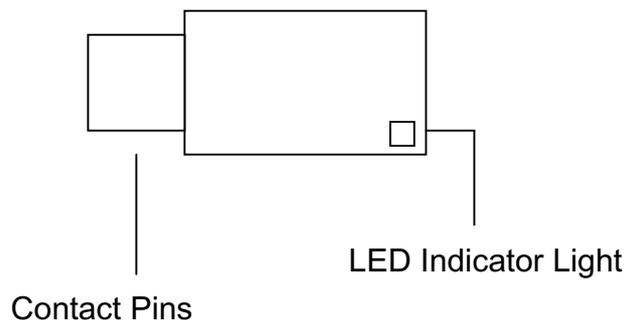
- Do not touch the connectors on the I-Stick, as static electricity may damage the internal components.
 - Be careful not to twist or bend the I-Stick.
 - Write on the memo label before applying it onto the bottom-side of the I-Stick.
 - Do not put any sticker or label on the topside of the I-Stick.
 - Do not drop the I-Stick, as it is not shock resistant.
 - Do not disassemble the I-Stick, as there is no user-serviceable part inside.
Disassembling this product will VOID the warranty!
 - Please store the I-Stick inside the plastic its holder when the I-Stick is not in use.
 - The connector on the I-Stick will not allow the card to be inserted from the wrong end or reversed. Therefore, do not force the card into the peripheral or USB slot. Doing so may result in damage to the I-Stick and will VOID the warranty.
 - Do not store or place the I-Stick in direct sunlight, or a high humid area.
 - When using the adapter, make sure the I-Stick is firmly inserted. Be very careful not to bend or strike it.
 - **KEEP OUT OF REACH FROM CHILDREN!**
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System Requirements

The following system requirements must be met in order to install and operate the Intelligent Stick 2.0 and the applications.

Computer Model (Any will do)	<ul style="list-style-type: none">● PC● Power Macintosh● PowerBook● iMAC● iBook
Operation system (Any will do)	<ul style="list-style-type: none">● Windows 98 SE● Windows ME● Windows 2000● Windows XP● Mac OS 9.0 or above
Interface	<ul style="list-style-type: none">● Intelligent Stick Interface● USB interface
Free Hard Disk space	<ul style="list-style-type: none">● 5 MB or more

Product Description



Contact Pins	The interface plugs into to your device or the USB port.
LED Indicator Light	The LED Indicator Light shows the status of the device. While you access Intelligent Stick 2.0, the LED Indicator Light will blink.

Setup

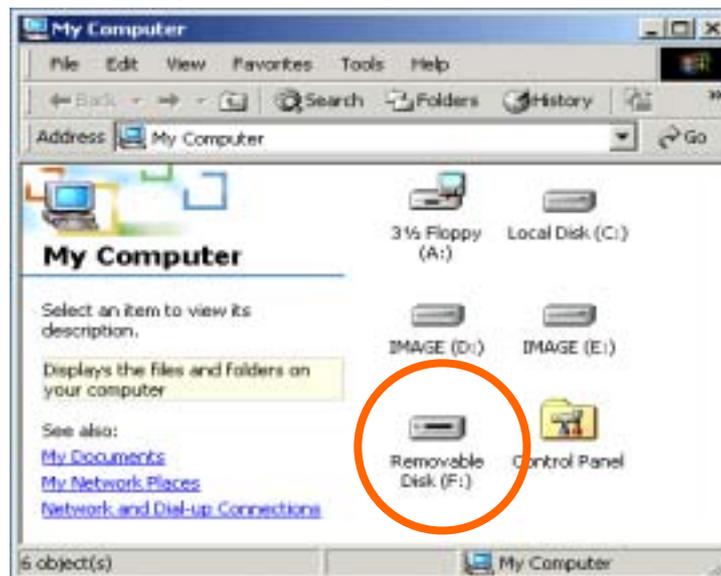
Please carefully read this manual before using PQI's Intelligent Stick 2.0 and the software bundled with it.

Hardware Installation and Operation

1. Intelligent Stick 2.0 Installation

- **Microsoft Windows OS**

(Including Windows 98SE, Windows ME, Windows 2000 and Windows XP)



After inserting PQI's Intelligent Stick 2.0 into the USB Port, you will find a "removable disk" icon in the file manager window. If you are using Windows 2000/ME/XP, you will also find another icon shown on the tool bar as below.



- **Mac OS**

For Macintosh users, please find a new disk icon named "Untitled" on the desktop when inserting the Intelligent Stick 2.0 into the USB port.

2. Unplug/Remove Intelligent Stick 2.0



Warning

When you want to remove PQI's Intelligent Stick 2.0, please make sure that the LED Indicator Light stops flashing. If the LED Indicator Light still flashes, the read/write operation is still going on between the OS and PQI's Intelligent Stick 2.0. Please do not remove the USB Disk at this time. Otherwise, it may cause damage to the data or even the Intelligent Stick 2.0 itself.

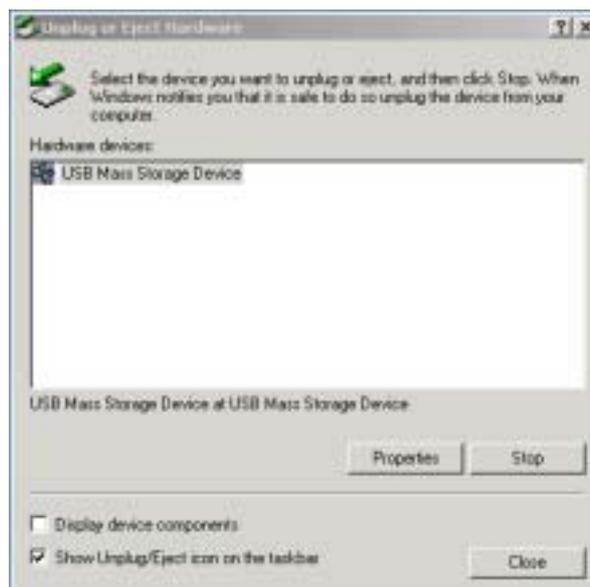
- **Microsoft Windows OS**

(Windows 98SE, Windows ME, Windows 2000 and Windows XP)

You can remove the Intelligent Stick 2.0 after you finish using the device. For Windows 98SE users, please don't remove I-Stick unless the LED stop blinking. However, in Windows ME, Windows 2000 or Windows XP, 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 pop up. You can select the device you want to remove. Then click the "Stop" button. You may now unplug the device from the USB port of your computer.





Warning

Please follow the safe removal procedure in Window ME, Windows 2000 or Windows XP; not complying may damage the Intelligent Stick 2.0 and the loss of your valuable data.

- **Mac OS**

For Mac users, please drag the disk icon to recycle icon, then the device will stop.

Software Installation and Operation

The software is designed for Windows OS, please don't install this software on other OS.

- **Driver Installation**

For WindowsME/2K/XP users, you don't have to install the drivers.

For Windows 98SE users, you can install the Intelligent Stick Manager 2, which contains the 98drivers. You can find it in D:\Manager 2\Setup.exe (Assume your CD-ROM is D:). If you don't want to use the Manager, please execute the D:\98Driver\Setup.exe (Assume your CD-ROM is D:), the driver will be installed automatically. After the Installation is completed, please re-plug the Intelligent Stick 2.0.

- **Intelligent Stick Manager 2 Installation**

Installing/Uninstalling the Application Software:

Install the software:

You must log on as the administrator and then you will be able to 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 the Microsoft Windows XP, you have to install the Intelligent Stick Manager 2 driver again as you plug in the device.
- In Windows 98 SE and Win Me, you need to unplug the Intelligent Stick Manager 2 and plug again after install the driver.

1. Find the “Intelligent Stick Manager 2” program from the attached CD-ROM, the file is located in “D:\Manager 2\Setup.exe” (Assume your CD-ROM is D:).
2. Execute the “Setup.exe” to install the program.
3. Follow the on-screen instructions to proceed.

Uninstall the software:

To remove the installed software, you can click the windows [Start] and select [Setting], [Control Panel] and [Add/Remove Programs].

Notes:

- The USB driver will be required to install, as the device links the PC by the USB port at the first connection. After then, the driver installation is not required.
- Do not cancel the installation during the procedure. The Intelligent Stick Manager 2 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:

For some Windows system, users should log on as the Administrator before installation. Once you have attached the Intelligent Stick Manager 2 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 Intelligent Stick Manager 2 at the first time:



Warning

Due to the Intelligent Stick Manager 2.exe can only handle one Intelligent Stick Manager 2 device at the same time. If you will not use the function of the Intelligent Stick Manager 2.exe, like [Resize], [Change Password], or [Log In], etc., you can insert more than two Intelligent Stick Manager 2 devices. If you want to use the function of the program, remove all other Intelligent Stick Manager 2 device. Otherwise, the Intelligent Stick Manager 2.exe may not perform properly or even cause data loss.

After you install the software and driver correctly, the Intelligent Stick Manager 2 icon will appear at the notification area automatically.



The display will depend on the status of the device.

- You can double-click/right-click the icon to start the Intelligent Stick Manager 2.
The device is non-security for the default setting. So, the “Resize” function will be active when you run this software first time.

Resize:

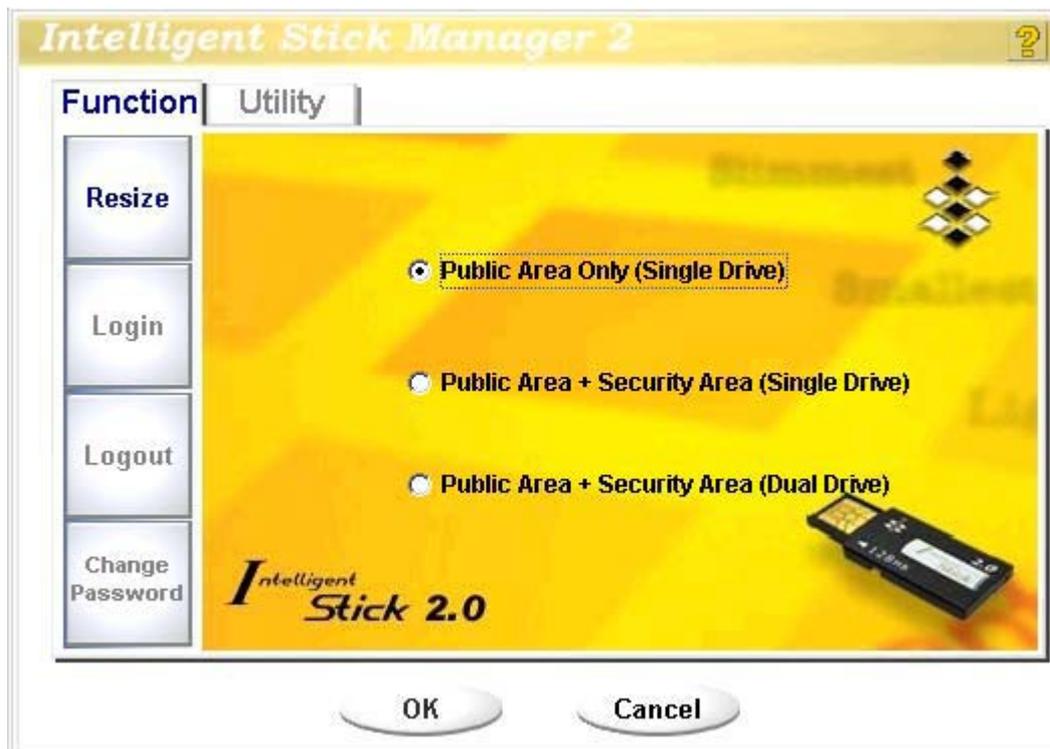
As described in the “Partition Type” section, you can do the [Resize] action to your Intelligent Stick 2.0.



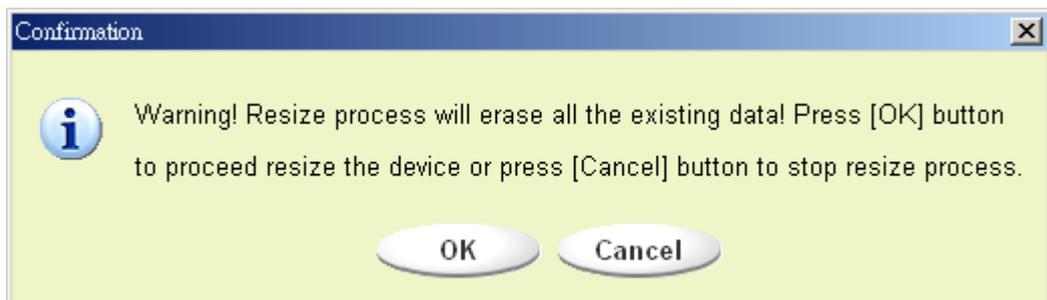
Warning

The [Resize] action will erase all the data or files existing in Intelligent Stick Manager 2. The action is not reversible. You have to backup all the important files or data. Also, please close all the active programs and windows on the screen of your computer.

1. Click the Resize button in the Intelligent Stick Manager 2 manager window. The following “Resize Partition” window pop up.



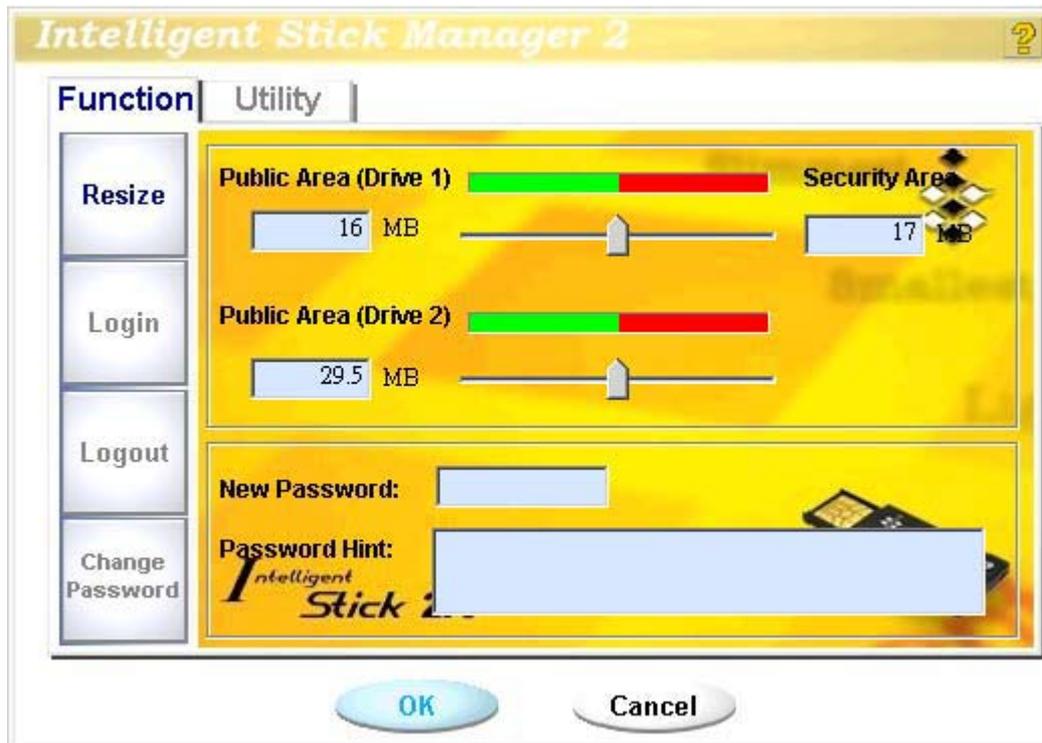
2. Select the partition type you want.
3. If you select the "Public Area Only (Single Drive)", then click the [OK] button. The "Confirmation" window will pop up. Please make sure you already backup all the important files or data.



4. If you select the "Public Area + Security Area (Single Drive)", then the following "Security Area" window will pop 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 pop up. Please make sure you already backup all the important files or data.



5. If you select the “Public Area + Security Area(Dual Drive)”, then the following “Public Area(Drive1)/Security Area” window will pop 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 (Drive2)”. The minimum size for each area is 1MB. The maximum size of the “Public Area (Drive2)” is 1/4 of the total size. Once the size of the “Public Area (Drive2)” was set, the scroll bar of the “Public Area (Drive1)” and “Security Area” 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 finish the setting, click the [OK] button. The “Confirmation” window will pop up. Please make sure you already backup all the important files or data.



6. After you finish the “Resize”, the “Setup.exe” program will be copied into the “Public Area (Drive1)” automatically. It’s removable. However, it is needed when you insert your device into another computer. It will install the Intelligent Stick Manager 2 software for you in the computer.

Log-in the Security Area:

If you partition the device with security, you should key in the correct password to log-in the security Area.



Warning

When you log-in or log-out the device, please make sure there is no application, program or document opened on the device. If so, it will cause data loss or damage.

1. Key in the password in the “Password” area.
 - You can create the password hint in the [Resize] or [Change Password] functions. Once you create the password hint, you can click on the “Hint” button in the “Unlock Protect” window to prevent you from forgetting the password. The hint will be shown for three seconds.
 - If you key in the wrong password, the following message will be shown.

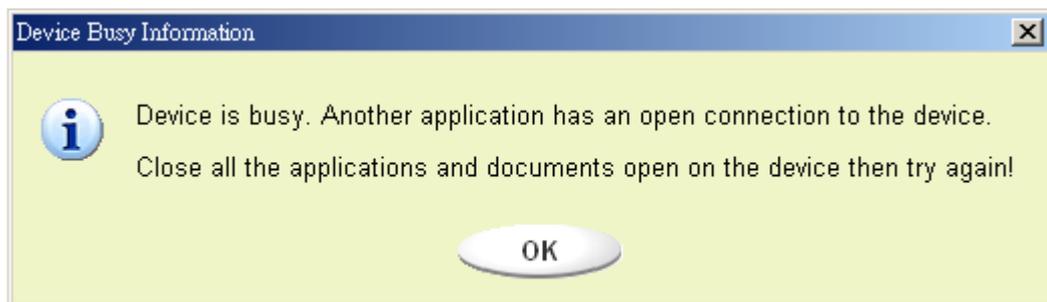


- You have three tries to input the password. After three tries, the following message will

pop up. And you have to unplug and plug the device in order to do future actions.



- When you do the log-in or log-out action, please make sure you close all the programs or documents open connection on the device. If there is some application programs running or documents unclosed on the device, the following message will pop 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 “Log-in”. However, not all the connection could be checked in all kind of OS.



2. Click on the [OK] button.

Once the file manager window contains the “Security Area” pops up, you can do the operation you want with the Security Area.

Log-out the Security Data Zone:

1. Double click the Intelligent Stick Manager 2 icon in the notification window or select the [Log-out] button in the Intelligent Stick Manager 2 manager window.



Warning

Please close all applications, programs, and documents before you log-out the device, or the device may be treated as busy.



2. Once the file manager window contains the “Public Area (Single Drive) ” pop 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 Intelligent Stick Manager 2 menu. You can only select this item in “Security AP Zone”.



1. Key in your current password in the “Current Password” area.
2. Then, key in your new password and confirm in the “Confirm Password” area.
 - The maximum size of the password is 8 characters.
3. 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, XP, and ME. (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) This program only deals with one device at the same time.
- 5) Make sure your Intelligent Stick Manager 2 is in “Public Area” if it is with “Security” function.
- 6) 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 Intelligent Stick Manager 2 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 cannot be run in Windows 2000.

Windows 98 SE and Windows ME:

- 1). You can click the [Utility] button in the Intelligent Stick Manager 2 manager window to execute the BootUp utility.

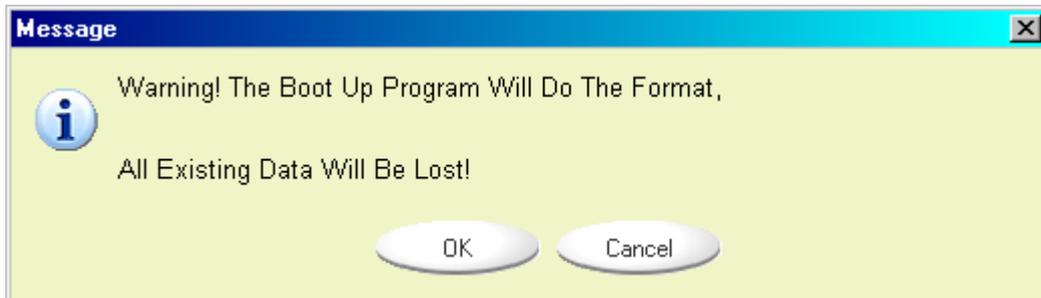


- 2). You can select the type of the boot up method, USB ZIP or USB HDD. The USB HDD is only for Windows 98.
 - If you select “USB HDD”, the computer will get the “C:\>” prompt after you boot from the Intelligent Stick Manager 2.
 - If you select “USB ZIP”, the computer will get the “A:\>” prompt after you boot from the Intelligent Stick Manager 2.
 - If your device is with “Security” function, only USB ZIP can be selected.
- 3). After the selection, click the [OK] button. The following warning message will be shown.

The data in the “Public Area” will be lost. If it is OK, click 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.



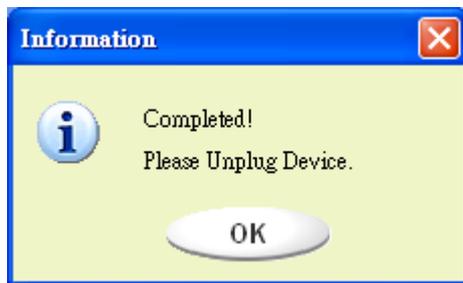
4). After the process is completed done, the finish message will be shown.



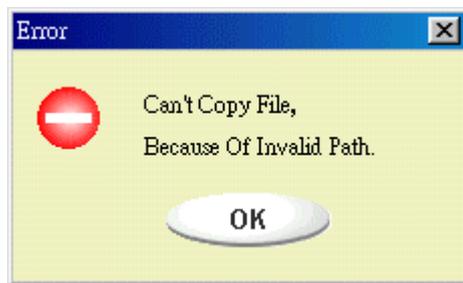
Windows XP:

- 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 Intelligent Stick Manager 2 manager window. Then, select the USB ZIP. Click on the [OK] button.

5). After the process is completed, the finish message will be shown.

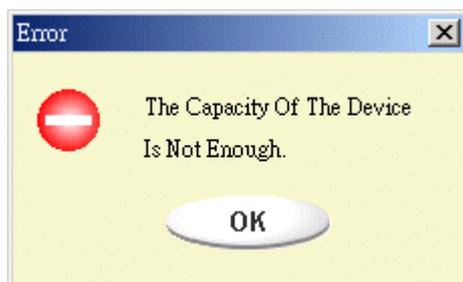


Error Messages:



When this message shows up, the possible reason is your Windows OS installation is 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 capacity of the “Public Area” is enough.



Notes:

- After you finish 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 finish 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 Intelligent Stick Manager 2 to boot up your computer, please select the appropriate setting of the BIOS. Please refer to the user manual of the motherboard.
- Since the BIOS design of each motherboard is quite different, we cannot guarantee the boot up device is suitable for every computer.
- Since Award changed their BIOS spec. In March 2002, the boot up procedure is different from before. We cannot identify if the BIOS is new or old. So, this boot up utility is not suitable for Award's new BIOS if you use USB ZIP boot up option.

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