



INSTALLATION MANUAL

We strongly recommend reading the MANUAL before using the product

FCC Compliance

LABELLING REQUIREMENTS(Part 15, Section 15.19 (a)(3))

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operations.

The instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual.

INFORMATION TO THE USER (Part 15, Section 15.105(b))

INFORMATION TO THE USER

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 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 to correct the interference by one 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 different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING (Part 15, Section 15.21)

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

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Information

1. USB

Fine out the 2 USB port in computer, connect the offered USB power cable

to USB port in computer.

And for another USB port, connect to the USB cable also for supplying the electricity.



2. IEEE 1394

If the IEEE 1394 port of notebook computer is 4 pin port or be used as CardBus way,

the power is not supplied to IEEE 1394 Bus.

So connect the USB power cable like the picture.



2. Contents of FHD-181

- 1) FHD 181
- 2) Driver Installation CD
- 3) Bag
- 4) Interface cable
- 5) Manual
- 6) USB power cable (if USB bus power doesn't work, please connect it)

3. Cautions for USB 2.0

1. If the USB 2.0 product is connected to USB 1.1 Host Adapter,

it will be operated as speed 1.1 (12Mbps)

2. If you want to use USB 2.0 product as USB 2.0 speed(Max.480Mbps),

you have to use USB 2.0 Host Adapter.

4. System Requirement

- 586 Pentium or greater or MAC
- USB port has to be possible to use
- Included CD-ROM drive or the driver should be possible to be downloaded from internet web site.

Caution

Keep away from magnetic substance. Data may be corrupted. Keep away from physical or electric shock, it may cause a malfunction or damage. Be careful not to drop AivX, it may cause HDD malfunction. Keep AivX away from heat or fire. Do not keep AivX in humid place. We recommend you to use provided USB cable with Ferrite core.

5. Driver Installation

5-1 Installation of USB 2.0 driver

Caution

Using below 6GB hard disk can make some troubles like loss of data. We recommend you to use 6GB hard disk or greater

1. Windows 98

- 1) Insert the offered CD into the CD-ROM drive in computer before you connect the product
- 2) Select the "setup.exe" of USB folder under the Windows folder in your CD-ROM

击 Usb					
∫ <u>F</u> ile <u>E</u> dit <u>V</u> iew !	<u>G</u> o F <u>a</u> vorites	Help			-
Back Forward	- L Up) Cut	Copy	Paste	**
Address 🛅 C:\6.4\Wi	ndows\USB				-
Usb PL2507_Drive Application Modified: 4/30/04 6:45 PM Size: 1,881KB	Win98inf				
			🚽 Му Сотри	uter	/

3) Click "Next" button after operates "Install Shield Wizard"



4) Click "Next" button after select "I accept the terms of the license agreement"

peed USB-to-IDE Win98 Driver - InstallShield Wizard	
cense Agreement Please read the following license agreement carefully.	
End User License Agreement ("EULA")	<u>.</u>
Do not install or use the software until you have read and accepted all of the lid terms. Permission to use the software is conditional upon your agreeing to the lit terms. Installation or use of the software by you will be deemed to be acceptan license terms. Acceptance will bind you to the license terms in a legally enforce contract with Prolific Technology Inc. * SOFTWARE LICENSE AND LIMITED WARRANTY This is an agreement between you, the end user, and Prolific Technology Inc. By using this software, you agree to become bound by the terms of this agreem	cense ce of the eable ("Prolific"). nent.
I accept the terms of the license agreement	
C I do not accept the terms of the license agreement	
IIShield	
< <u>Back</u>	Cancel

5) When you see the message of "InstallShield Wizard Complete" then click "Finish" button to complete the driver installation.

Hi-Speed USB-to-IDE Win98 Driver - InstallShield Wizard		
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed Hi-Speed USB-to-IDE Win98 Driver. Click Finish to exit the wizard.	
	< Back Finish Cancel	

- 6) Connect the FHD-181 to the USB port in computer.
- 7) The drive icon will be installed in "My computer"



2. Windows ME

1) Connect the FHD-181 to the USB port in computer

2) Finding out the new hardware "USB Mass Storage Device", the driver will be installed automatically.

3) The drive icon will be installed in "My computer"



4) <usbntmap.sys.> etc..the files can be required.

The files are in the base2.cab in WIN9X folder in Windows ME original CD.

3. Windows 2000/XP

1) Connect the FHD-181 to the USB port in computer

2) Finding out the new hardware "USB Mass Storage Device", the driver will be installed automatically.

3) The drive icon will be installed in "My computer"



4. MAC

For MAC OS 9.x or greater, the driver will be recognized without any other driver.

5. Checking the driver installation

Make sure if the driver is connected successfully on the OS position.

1) Windows 98

Control panel -> System -> Device manager -> Hard Disk Controller

System Properties
General Device Manager Hardware Profiles Performance
View devices by type C View devices by connection
Monitors Mouse Network adapters Other devices Ports (COM & LPT) System devices Hard Disk Controller Hi-Speed USB-to-IDE Bridge Controller Hi-Speed USB-to-IDE Bridge Controller Intel(R) 82801DB Ultra ATA Storage Controller Primary IDE controller (dual fifo) Secondary IDE controller (dual fifo)
Properties Refresh Remove Print
OK Cancel

2) Windows ME

Control panel -> System -> Device manager -> Universal serial Bus

Controllers

System Properties	<u>?</u> ×
General Device Manager Hard	ware Profiles Performance
• View devices by type	C View devices by <u>c</u> onnection
Monitors Mouse Mouse Ports (COM & LPT) Sound, video and game Storage device Universal Serial Bus col Intel(R) 82801DB/C Intel(R) 82801DB/C USB Not Hub USB Root Hub USB Root Hub	e controllers ntrollers DBM USB Universal Host Controller - 24 DBM USB Universal Host Controller - 24 DBM USB Universal Host Controller - 24 Device
Properties Refresh	Remove Print
	OK Cancel

3) Windows 2000/XP

Control panel -> System -> Hardware -> Device manager -> Universal serial Bus Controllers

B Device Manager	
File Action View Help	
🖃 🖳 SAROTECH-AJHFXU	~
⊡ 🍲 Disk drives	
FUJITSU MHS2040AT D USB Device	
SAMSUNG SP8004H	
EFFE 1394 Bus host controllers	
H- w Keyboards	-
	=
🗄 💆 Monitors	
🛨 🏢 Network adapters	
🗄 🖉 Ports (COM & LPT)	
🕀 🛲 Processors	
😟 👰 Sound, video and game controllers	
🕀 😼 System devices	
🖃 🥰 Universal Serial Bus controllers	
Thtel(r) 82801BA/BAM USB Universal Host Controller - 2442	
Intel(r) 82801BA/BAM USB Universal Host Controller - 2444	
USB Mass Storage Device	~

6. How to stop the product

If you want to stop and separate the product when you are using it, please follow the below 1) Windows 98/ME/2000/XP

Click the "tray icon" under the "start" and then you can find the below drawing



Read the message and click $\ \ \, \text{ok}\ \ \, \text{ok}$. Separate the product from USB port



6-1 Installation of IEEE 1394

Caution

- 1. Turn on the power to satisfy the plug &play function of window and then connect to the IEEE1394 in computer
- If the IEEE 1394 port has 4 pins or using Card Bus way of notebook computer, the power can not be supplied.
 Please connect the power adapter or USB power cable.

1. Windows 98 SE

Caution: Be sure to ready "Window 98 SE CD-ROM" before you install FHD-181

(FHD-181F can be installed only Windows 98 SE or later version)

- 1) Booting Windows 98 SE
- 2) Connect the IEEE 1394 cable to the FHD- 181 of IEEE 1394 port in computer
- Finding the message " insert the disk" --> insert the "Windows 98 SE CD-ROM" in CD-ROM drive --> click "confirmation".

Then the driver will be installed automatically

4) Make sure if the hard disk icon is appearing in "My computer"



Checking the installation : After finishing the installation Control panel

-> System --> Hardware -> Device manager -> Storage device --> IEEE 1394 Disk

System Properties	? ×
General Device Manager Hardware Profiles Performance	
 View devices by type View devices by connection 	_
SAMSUNG SV4002H	
🗄 🖳 Display adapters	
🖻 🚭 Hard disk controllers	
E Monitors	
B Mouse	
Image: Imag	
⊕ ~ V Other devices	
SBP2 Compliant IEEE 1394 device	
Custom devices	-
Properties Refresh Remove Print	
OK Ca	ancel

2. Windows ME

- 1) Booting Windows ME
- 2) Connect the IEEE 1394 cable to the FHD- 255 of IEEE 1394 port in computer3) Make sure if the hard disk icon is appearing in "My computer"



Checking the installation : After finishing the installation, please check if the below things are showing up.

Control panel --> System --> Device manager -> Hard disk model in Disk drive Control panel -> System -> Device manager --> Storage device --> IEEE 1394 Disk

Control panel -> System -> Device manager --> SBP2 --> SBP2 Compliant IEEE1394 device

System Properties	? ×	
General Device Manager Hardware Profiles Performance		
• View devices by type • View devices by connection		
CDROM Disk drives FUJITSU MHR2020AT SAMSUNG SV4002H CUB Display adapters Hard disk controllers Hard disk controllers Monitors Monitors Mouse Monitors Provide Mouse Provide Mouse Provide Mouse Provide Mouse Provide Mouse Provide Mouse Provide Mouse Provide Mouse Provide Mouse Provide Mouse Provide Mouse Provi		
SBP2 Compliant IEEE 1394 device		
Properties Refresh Remove Print.		
OK	Cancel	

3. Windows 2000/XP

- 1) Booting Windows 2000/XP
- 2) Connect the IEEE 1394 cable to the FHD- 181 of IEEE 1394 port in computer
- 3) Make sure if the hard disk icon is appearing in "My computer"



Checking the installation : After finishing the installation Control panel ->

System --> Hardware -> Device manager -> Disk drive --> Sarotech Co._Ltd. FLEX IEEE 1394 SBP2 Device

🖴 Device Manager	
File Action View Help	
← → 🗉 🖆 🔮 😫 🗮 🥪 🛃	
E SAROTECH-L31TPQ	
E S Disk drives	
Sarotech CoLtd. FLEX IEEE 1394 SBP2 Device ST380011A Display adapters Floppy disk controllers Floppy disk drives DIDE ATA/ATAPI controllers Floppy disk drives Floppy disk drives	
🛨 🦉 System devices 🕂 🖨 Universal Serial Bus controllers	

4. MAC OS

If it is over MAC 8.6 and over Firewire enabler 2.7, it will be installed automatically without any special driver.

Caution: 1. Should be over MAC OS 8.6

- 2. The hard disk which doesn't have FDISK and FORMAT, can not be recognized
- 3. If you want to use it in MAC and IBM, please carry out the FDISK and FORMAT in IBM computer.

MAC OS 8.6 and 9X version

- 1) Booting MAC OS before connecting the product
- 2) Install the driver on the below part of offered driver CD
 - Carry out MAC OS \ Firewire \ OS 8.6-9.X \ English \ Bs Crew mini Install
- 3) Re-booting the computer and connect FHD-181

MAC X version

It will be recognized without any special driver

5-3 Driver installation of IEEE 1394 + USB Combo

Please refer to the USB 2.0 driver installation on "No. 5 - Driver installation" and also refer to the driver installation of IEEE 1394

6. Please check when you have some troubles

1. Loss of data

Completing the disk slice assemble or checking the disk error with "precision", the data can bring a loss. Please avoid above operations.

2. Finding the message "HI-SPEED USB INSTALLATION is fixed incorrectly to HI-SPEED USB INSTALLATION herb"

It means the USB 2.0 product is connected to USB 1.1 Host Adapter on Windows XP. USB 2.0 product(max. 480Mbps) is connected to USB 1.1 Host Adapter and it works USB 1.1 speed(max. 12Mbps)

3. When you connect the product in your computer and if it is making a rattling sound, it means the lack of power.

Connect the offered USB power cable to the other USB port and then connect the power cable to FHD-181 (In this case, please connect the USB power cable or power adapter)

- 4. When you leave the product with lack of power condition that connect with USB cable, it may cause of the damage of HDD.Please connect with a spare USB power cable or a separate adapter.
- 5. You should connect the FHD-181 to your system after booting up, otherwise it may not be detected or you can not boot up your system.
- 6. FHD-181 does not support network sharing on Windows XP.

Specification

Model : FHD-181 Interface : USB 2.0 / IEEE 1394a Data transmission speed : 480Mbps(Max) / 400Mbps(Max) Size : : 61.4mm x 16.3mm x 104mm(W x H x D) Weight : 120g(with HDD) Power : Interface power or Adapter Support OS : USB 2.0 - Windows 98/98 SE/ME/2000/XP, Mac OS 9.x/X.x IEEE 1394 a - Windows 98 SE/ME/2000/XP, Mac OS 8.6/9.x/X.x