USB2.0-Ultra SCSI

Converter

U2SCXU

User's Guide

March 2003

Rev. 1.0

RATOC Systems, Inc.

U2SCXU

1.Introduction

This User's Guide describes how to install, use, and troubleshoot the USB2.0 -Ultra SCSI Converter U2SCXU(called U2SCXU in this User's Guide).
The information in the README file on the CD-ROM may include the latest information. Be sure to read the file as well.

1-1.Package Confirmation

Check Package Contents:

- •U2SCXU USB2.0-Ultra SCSI Converter
- •U2SCXU CD-ROM
- •User's Guide
- •Software Licence Agreement

NOTE
If any of these items are missing from the U2SCXU retail package, contact your supplier immediately.

1-2.System Requirements and Restrictions

PC

•USB2.0 enabled PC running Windows XP/2000/Me/98SE
 If your PC doesn't have the USB2.0 interface, the U2SCXU works
 as USB1.1 device.

Mac

•USB enabled Apple PowerMac G4/G3, PowerBook G4/G3,
 iMac/iBook running Mac OS 9.2.1 or later/Mac OS X -10.1 or later.
 The U2SCXU works as USB1.1. With Mac OS, the U2SCXU doesn't
 work as USB2.0 device.

SCSI devices

•High-Density 50 pin female SCSI-2 connector on a SCSI device
 •Term-Power output capability
 **(Caution)As U2SCXU gets electric power from Term-Power on
          SCSI bus, Term-Power output capability is required.
          If Term-Power output isn't available at your SCSI
          device such as iomega Zip drive, you must use an
          OPTIONAL AC adapter(sold separately).
          Refer to Chapter 4-10 and 6.**
•Single-End interface
 •Terminator

Restrictions

- PDs, CD Changers aren't supported(LUN isn't supported).
- You can't change file systems, create partitions on a storage device connected to Mac running Mac OS 9.x.
- Software/utility bundled with a SCSI device may not work.
- You can't use USB2.0 on Mac OS. The U2SCXU works as USB1.1 on Mac OS.
- You may connect only one SCSI device and may not daisy-chain SCSI devices on Mac OS.

Supported SCSI devices

PC

- HDD, Zip, Jaz, ORB, CD-ROM
- CD-RW
- DVD-RAM/ROM
- (Film)Scanner
- Printer

Mac

- HDD, Zip, Jazz, ORB, CD-ROM

2.Installation

This chapter explains how to connect a SCSI device to the U2SCXU.

2-1.Connecting the U2SCXU to a SCSI device

Follow the steps through to connect your SCSI device to the U2SCXU:

The fig.1 shows how to connect a terminator and the U2SCXU when you connect only one SCSI device.

Terminator

Fig. 1

The fig.2 shows how to connect a terminator and SCSI cable and the U2SCXU when you connect daisy-chain SCSI devices.

Terminator

Fig. 2

1)Make sure the SCSI device is in Power-OFF state.

2) Decide whether you daisy-chain SCSI devices or not.
2-1)If you connect two or more SCSI devices, set them as follows:
   Daisy-chain them and attach an external active terminator to the last
   SCSI device, as Fig.2 shows. Turn off the terminator switches on all of
   the SCSI devices if the SCSI devices have internal terminator switches.
   If you are not sure how to turn off terminator switches, refer to
   the user's manual that accompanied your SCSI device.

2-2)If you connect only one SCSI device, set it as follows:
   If the SCSI device doesn't have an internal terminator switch, attach an
   external active terminator to the SCSI device; Otherwise, turn on
   an internal terminator switch. If you are not sure how to turn off
   the terminator switch, refer to the user's manual that accompanied your
   SCSI device.

3)Next, connect the U2SCXU to the first(or only) SCSI device.
   If you have a SCSI device with a Low-Density Centronics 50 pin
   or DB25 connector, use an adapter available from us.
   In such a case, **refer to Chapter 6**.

4)Make sure each SCSI device has a SCSI ID except 7. You can usually
   change a SCSI ID with a switch on the back of SCSI devices. For more
   information, refer to the user's manual that accompanied your SCSI device.

5)**If you use a PC, proceed to Chapter 2-2.**
   If you use a Mac, proceed to Chapter 2-8.

2-2.Connecting the U2SCXU to a PC

Follow the steps through to connect the U2SCXU attached to SCSI devices:
NOTE
If you use at least one MO drive on Windows Me, proceed to Chapter 2-4-3 first before connect it, and then follow the steps below. Otherwise, the system will freeze up when you connect the MO to the PC.

1)If your PC is powered down, start it now.
2)Turn on the SCSI devices.
3)Connect the U2SCXU to an available USB port, as Fig.3 shows.
   A LED on the U2SCXU will come on. If the LED doesn't come on, refer to Chapter 4-10.

USB port

Fig. 3

4)**If you use a Windows XP user, proceed to Chapter 2-3.**
   If you use a Windows Me user, proceed to Chapter 2-4.
   If you use a Windows 2000 user, proceed to Chapter 2-5.
   If you use a Windows 98SE user, proceed to Chapter 2-6.

6

2-3.Installing on Windows XP

To install on Windows XP, follow the steps through:

1)Insert the bundled CD-ROM and right-click on **[WNASPI32.INF]** file
at the **[ASPI32]** folder at the **[U2SCX]** folder, and then, select **[Install]** from
the pull-down menu.

2)The next step is different as follows, depending on whether you have daisy-
chained some SCSI devices or not:

2-1)
If you have daisy-chained SCSI devices, or connected only one scanner,
proceed to Chapter 2-3-1 to install a RATOC original driver.
2-2)
If you have connected only one SCSI device such as HDD, Zip, Jaz, CD-
ROM, CD-R/RW, DVD-RAM/ROM/RW, proceed to Chapter 2-3-2 to
install a Microsoft Windows XP standard driver.

2-3-1.Installing a RATOC original driver on Windows XP

To install a RATOC original driver on Windows XP, follow the steps through:

1)The following wizard will appear. Make sure the **[Install the software automatically(Recommended)]** option is selected, and then insert the bundled CD-ROM.

2)The following wizard will appear. Click **[Continue Anyway]**.

8

3)The following wizard will appear. Click **[Finish]**.

4)The following wizard will appear. Make sure the **[Install the software automatically(Recommended)]** option is selected, and then click **[Finish]**.

5)A warning message will appear again. Click **[Continue Anyway]**.

6)The following wizard will appear. Click **[Finish]**.

7)You have now completed installing the RATOC original driver. To confirm the installation is successful, right-click **[My Computer]** from the **[Start]** menu and select **[Properties]** from the pull-down menu. Click the **[Hardware]** tab and click **[Device Manager]**. If you can find a **[RATOC U2SCX USB2-SCSI Converter]** string without any "!" marks or "?" marks under the **[SCSI and RAID controllers],** and **[RATOC USB MassStorage Device WDM(withMPD)]** string without any "!" marks or "?" marks under the **[Universal Serial Bus controllers]**, the installation has completed successfully.

8)If you remove the U2SCXU from a PC, proceed to 2-7. Some utility comes with the U2SCXU. For more information on it, refer to Chapter 3.

10

2-3-2.Installing a Microsoft driver on Windows XP

If you have connected only one HDD, Zip, Jaz, CD-ROM, CD-R/RW, DVD-RAM/ROM/RW, the Windows XP standard driver will be installed automatically.

To confirm the driver installation, follow the steps through:

1)To confirm the installation is successful, right-click **[My Computer]** from the **[Start]** menu and select **[Properties]** from the pull-down menu. Click the **[Hardware]** tab and click **[Device Manager]**. If you can find a **[USB Mass Storage Device]** string without any "!" marks or "?" marks under the **[Uni versal Serial Bus controllers]**, the installation has completed successfully.

8)If you remove the U2SCXU from a PC, proceed to 2-7. Some utility comes with the U2SCXU. For more information on it, refer to Chapter 3.

2-4.Installing on Windows Me

To install on Windows Me, follow the steps through:

The procedure of the driver installation is different as follows, depending on whether you have daisy-chained some SCSI devices, or whether you have connected at least on MO drive:

1)
If you have daisy-chained SCSI devices, or connected only one scanner, proceed to Chapter 2-4-1 to install a RATOC original driver.

2)
If you have connected only one SCSI device such as HDD, Zip, Jaz, CD-ROM, CD-R/RW, DVD-RAM/ROM/RW, proceed to Chapter 2-4-2 to in stall a Microsoft Windows Me standard driver.

3)
If you try to use at least one MO, proceed to Chapter 2-4-3 first to install a RATOC original driver. If you don't install the driver, the system will freeze up. Be sure to proceed to Chapter 2-4-3 before connecting it.

2-4-1.Installing a RATOC original driver on Windows Me

To install a RATOC original driver on Windows Me, follow the steps through:

1)The following wizard will appear. Make sure the **[Automatic search for a better driver(Recommended)]** option is selected, and then insert the bundled CD-ROM.

2)The following wizard will appear. Click **[Finish]**.
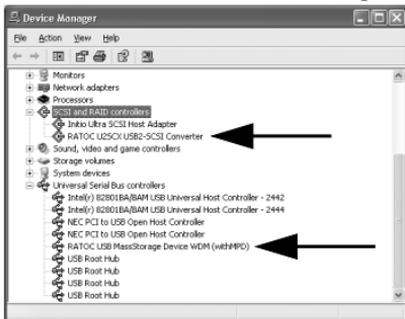
3)The following wizard will appear. Make sure the **[Automatic search for a better driver(Recommended)]** option is selected, and then click **[Next]**.

Add New Hardware Wizard

Windows has found the following new hardware:

RSBULKM - RATOC USB MassStorage Device MPD

Windows can automatically search for and install software that supports your hardware. If your hardware came with installation media, insert it now and click Next.

What would you like to do?

○ Automatic search for a better driver (Recommended)

○ Specify the location of the driver (Advanced)

< Back   Next >   Cancel

4)The following wizard will appear. Click **[Finish]**.

Add New Hardware Wizard

RATOC U2SCX USB2-SCSI Converter

Windows has finished installing the new hardware device.

< Back   Finish   Cancel

14

5)You have now completed installing the RATOC original driver. To confirm the installation is successful, right-click **[My Computer]** and select **[Properties]** from the pull-down menu. Click the **[Device Manager]** tab. If you can find a **[RATOC U2SCX USB2-SCSI Converter]** string without any "!" marks or "?" marks under the **[SCSI controllers],** and **[RATOC USB MassStorage Device WDM(withMPD)]** string without any "!" marks or "?" marks under the **[Universal Serial Bus controllers]**, the installation has completed successfully.
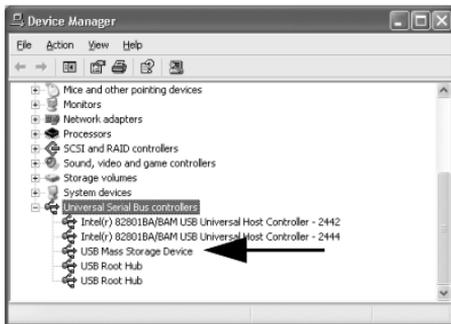

6)If you remove the U2SCXU from a PC, proceed to 2-7. Some utility comes with the U2SCXU. For more information on it, refer to Chapter 3.

15

2-4-2. Installing a Microsoft driver on Windows Me

If you have connected only one HDD, Zip, Jaz, CD-ROM, CD-R/RW, DVD-RAM/ROM/RW, the Windows Me standard driver will be installed automatically.

To confirm a Microsoft driver installation, follow the steps through:

1) To confirm the installation is successful, right-click **[My Computer]** and select **[Properties]** from the pull-down menu. Click the **[Device Manager]** tab. If you can find a **[USB Mass Storage Device]** string under the **[Univer sal Serial Bus controllers]**, the installation has completed successfully. A green "?" mark may appear with the **[USB Mass Storage Device]** string, but it doesn't affect the performance of the U2SCX.

2) If you remove the U2SCXU from a PC, proceed to 2-7. Some utility comes with the U2SCXU. For more information on it, refer to Chapter 3.

16

2-4-3.Using MO drives on Windows Me

If you use at least one MO drive on Windows Me, you need to install a RATOC driver. If you don't install the driver, the system will freeze up. Follow the steps through:

1)Insert the bundled CD-ROM and double-click **[Setup.exe]** at the **[WinMe]** folder at the **[U2SCX]** folder.

2)Select your language.

3)If you agree to the terms and conditions, click **[Yes]**.

4)The following window will appear. Click **[Finish]**.

5)You are now ready to connect the U2SCXU to a PC. Proceed to Chapter 2-2 to connect the U2SCXU.

6)If you remove the U2SCXU from a PC, proceed to 2-7. Some utility comes with the U2SCXU. For more information on it, refer to Chapter 3.

2-5.Installing on Windows 2000

To install on Windows 2000, follow the steps through:

1)Insert the bundled CD-ROM and right-click on **[WNASPI32.INF]** file
   at the **[ASPI32]** folder at the **[U2SCX]** folder, and then, select **[Install]** from
   the pull-down menu.

2)The next step is different as follows, depending on whether you have daisy-
   chained some SCSI devices or not:
   2-1)
   If you have daisy-chained SCSI devices, or connected only one scanner,
   proceed to Chapter 2-5-1 to install a RATOC original driver.
   2-2)
   If you have connected only one SCSI device such as HDD, Zip, Jaz, CD-
   ROM, CD-R/RW, DVD-RAM/ROM/RW, proceed to Chapter 2-5-2 to
   install a Microsoft Windows 2000 standard driver.

2-5-1.Installing a RATOC original driver on Windows 2000

To install a RATOC original driver on Windows Me, follow the steps through:

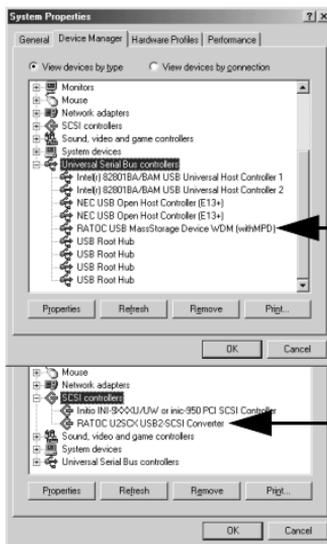1)The following wizard will appear. Insert the bundled CD-ROM, and then, click **[Next]**.

2)The following wizard will appear. Make sure the **[Search for a suitable driver for my device(Recommended)]** option is selected, and then click **[Next]**.

3) The following wizard will appear. Select the **[CD-ROM drives]** option, and then click **[Next]**.

4) The following wizard will appear. Make sure a **[rsbulkm.inf]** file is found, and then click **[Next]**.

5) The following wizard will appear. Click **[Finish]**.

6)The following wizard will appear. Click **[Next]**.

Welcome to the Found New Hardware Wizard

This wizard helps you install a device driver for a hardware device.

To continue, click Next.

< Back   Next >   Cancel

7)The following wizard will appear. Make sure the **[Search for a suitable driver for my device(Recommended)]** option is selected, and then click **[Next]**.

Install Hardware Device Drivers
A device driver is a software program that enables a hardware device to work with an operating system.

This wizard will complete the installation for this device:

RATOC U2SCX/USB2-SCSI Adapter

A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next.

What do you want the wizard to do?

⦿ Search for a suitable driver for my device (recommended)

○ Display a list of the known drivers for this device so that I can choose a specific driver

< Back   Next >   Cancel

8)The following wizard will appear. Select the **[CD-ROM drives]** option, and then click **[Next]**.

Locate Driver Files
Where do you want Windows to search for driver files?

Search for driver files for the following hardware device:

RATOC U2SCX/USB2-SCSI Adapter

The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.

To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.

Optional search locations:

☐ Floppy disk drives
☑ CD-ROM drives
☐ Specify a location
☐ Microsoft Windows Update

< Back   Next >   Cancel

21

9)The following wizard will appear. Make sure a **[rsblkmpd.inf]** file is found, and then click **[Next]**.

10)The following wizard will appear. Click **[Yes]**.

11)The following wizard will appear. Click **[Finish]**.

22

12)You have now completed installing the RATOC original driver. To confirm the installation is successful, right-click **[My Computer]** and select **[Properties]** from the pull-down menu. Click the **[Hardware]** tab and click **[Device Manager]**. If you can find a **[RATOC U2SCX USB2-SCSI Converter]** string without any "!" marks or "?" marks under the **[SCSI and RAID controllers]**, and **[RATOC USB MassStorage Device WDM(withMPD)]** string without any "!" marks or "?" marks under the **[Universal Serial Bus controllers]**, the installation has completed successfully.

13)If you remove the U2SCXU from a PC, proceed to 2-7. Some utility comes with the U2SCXU. For more information on it, refer to Chapter 3.

23

2-5-2.Installing a Microsoft driver on Windows 2000

If you have connected only one HDD, Zip, Jaz, CD-ROM, CD-R/RW, DVD-RAM/ROM/RW, the Windows 2000 standard driver will be installed automatically.
To confirm a Microsoft driver installation, follow the steps through:

1)To confirm the installation is successful, right-click **[My Computer]** and select **[Properties]** from the pull-down menu. Click the **[Hardware]** tab and click **[Device Manager]**. If you can find a **[USB Mass Storage Device]** string without any "!" marks or "?" marks under the **[Universal Serial Bus controllers]**, the installation has completed successfully.

8)If you remove the U2SCXU from a PC, proceed to 2-7. Some utility comes with the U2SCXU. For more information on it, refer to Chapter 3.

24

2-6.Installing on Windows 98SE

To install a driver on Windows 98SE, follow the steps through:

1)The following wizard will appear. Insert the bundled CD-ROM, and then, click **[Next]**.

2)The following wizard will appear. Make sure the **[Search for the best driver for your device(Recommended)]** option is selected, and then click **[Next]**.

3)The following wizard will appear. Select the **[CD-ROM drives]** option, and then click **[Next]**.

Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.

☐ Floppy disk drives

☑ CD-ROM drive

☐ Microsoft Windows Update

☐ Specify a location:

C:\WINDOWS\CATROOT

Browse...

< Back | Next > | Cancel

4)The following wizard will appear. Make sure a **[RSBULKM.INF]** file is found, and then click **[Next]**.

Windows driver file search for the device:

RATOC USB MassStorage Device WDM (withMPD)

Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.

Location of driver:

E:\RSBULKM.INF

< Back | Next > | Cancel

5)The following wizard will appear. Click **[Finish]**.

RATOC USB MassStorage Device WDM (withMPD)

Windows has finished installing the software that your new hardware device requires.

< Back | Finish | Cancel

26

6)The following wizard will appear. Click **[Next]**.

This wizard searches for new drivers for:

RSBULKM - RATOC USB MassStorage Device MPD

A device driver is a software program that makes a hardware device work.

< Back   Next >   Cancel

7)The following wizard will appear. Make sure the **[Search for the best driver for your device(Recommended)]** option is selected, and then click **[Next]**.

What do you want Windows to do?

⦿ Search for the best driver for your device. [Recommended]

○ Display a list of all the drivers in a specific location, so you can select the driver you want.

< Back   Next >   Cancel

8)The following wizard will appear. Select the **[CD-ROM drives]** option, and then click **[Next]**.

Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.

☐ Floppy disk drives

☑ CD-ROM drive

☐ Microsoft Windows Update

☐ Specify a location:

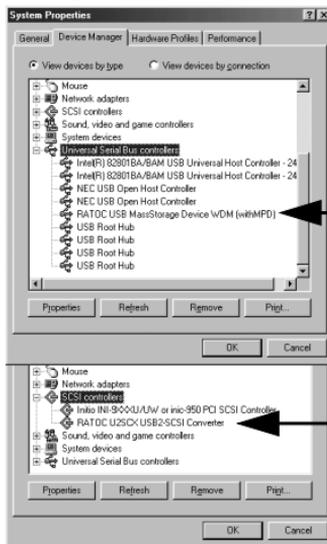C:\WINDOWS\CATROOT

Browse...

< Back   Next >   Cancel

9) The following wizard will appear. Make sure a **[RSBUKMPD.INF]** file is found, and then click **[Next]**.

10) The following wizard will appear. Click **[Finish]**.

28

11) You have now completed installing the driver. To confirm the installation is successful, right-click **[My Computer]** and select **[Properties]** from the pull-down menu. Click the **[Device Manager]** tab. If you can find a **[RATOC U2SCX USB2-SCSI Converter]** string without any "!" marks or "?" marks under the **[SCSI controllers]**, and **[RATOC USB MassStorage Device WDM(withMPD)]** string without any "!" marks or "?" marks under the **[Universal Serial Bus controllers]**, the installation has completed successfully.

12) If you remove the U2SCXU from a PC, proceed to 2-7. Some utility comes with the U2SCXU. For more information on it, refer to Chapter 3.

2-7.Removing the U2SCXU from a PC

In order to remove the U2SCXU, you need to follow the instructions below:

1)Click the removable icon at the task tray located at the lower right corner
  of the desktop.
2)The following pop-up menu will appear. Select it and then you can remove
  the U2SCXU from a PC.

Safely remove RATOC U2SCX USB2-SCSI Converter - Drives(F:, D:) 2:18 PM

[Windows XP Pop-up menu when the RATOC driver was installed]

Safely remove USB Mass Storage Device - Drive(F:) 2:28 PM

[Windows XP Pop-up menu when the Microsoft driver was installed]

Stop RATOC U2SCX USB2-SCSI Converter - Drives(G:, F: 11:22 PM

[Windows 2000 Pop-up menu when the RATOC driver was installed]

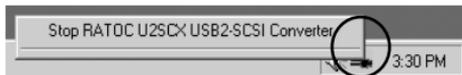Stop USB Mass Storage Device - Drive(F:) 3:09 PM

[Windows 2000 Pop-up menu when the Microsoft driver was installed]

30

[Windows Me Pop-up menu when the RATOC driver was installed]

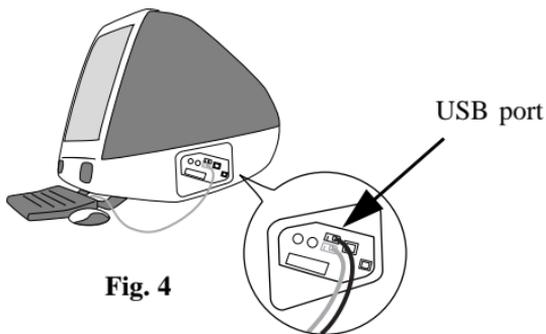[Windows Me Pop-up menu when the Microsoft driver was installed]

[Windows 98SE pop-up menu]

31

2-8.Connecting the U2SCXU to a Mac

Follow the steps through to connect the U2SCXU attached to SCSI devices:

1)If your PC is powered down, start it now.

2)Turn on the SCSI devices.

3)Connect the U2SCXU to an available USB port, as Fig.4 shows.
A LED on the U2SCXU will come on. If the LED doesn't come on,
refer to Chapter 4-10.

4)If you connected a storage device, its icon will mount on the desktop.
If you remove the U2SCXU from a Mac, move the storage device icon to
the trash icon, and then you can remove the U2SCXU from a Mac.
Some utility comes with the U2SCXU. For more information on it, refer to
Chapter 3.

Macintosh

USB port

Fig. 4

3.Utility

You can do the followings with the utility:
-You can configure settings for the SCSI device.
-You can update the firmware on the U2SCXU.
-You can format a HDD, Zip, Jaz, MO, etc.(Windows users only)

If you are a Windows user, proceed to Chapter 3-1.
If you are a Mac user, proceed to Chapter 3-2.

3-1.Using utility on Windows

If you configure settings for a SCSI device or update the firmware on the U2SCXU, proceed to Chapter 3-1-1. But please note you don't need to use this utility if the SCSI device works fine. It is recommended that you use this utility when you have some problem with the U2SCX.

If you format a HDD, Zip, Jaz, MO, etc., proceed to Chapter 3-1-2.
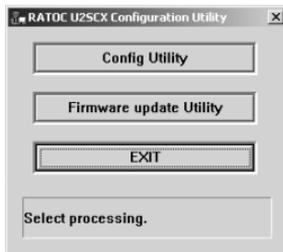
3-1-1.U2SCXUTY.EXE Utility

You can configure settings for a SCSI device or update the firmware on the U2SCXU with this U2SCXUTY.EXE utility. In order to use this utility, follow the steps:

1)Remove the U2SCXU from a PC as described in Chapter 2-7.
 Don't remove the SCSI device from the U2SCXU.
2)Insert the bundled CD-ROM and double-click **[U2SCXUTY.EXE]** at the

 [U2SCX] folder. The following window will appear.

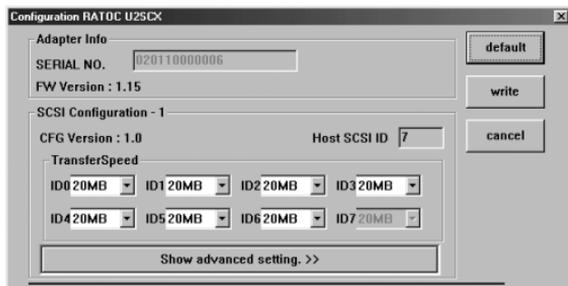3)You will be prompted to connect the U2SCXU to the PC. Connect it.
34

4)The following window will appear. If you configure settings for the SCSI device, select the **[Config Utility]** button. Proceed to <u>Chapter A.Config Utility</u> for the details. If you update the firmware on the U2SCXU, select the **[Firmware update Utility]** button. Proceed to <u>Chapter B.Firmware update Utility</u> for the details.

A.Config Utility

In order to use this config utility, follow the steps:

1)The following window will appear after you have clicked the **[Config Utility]** button. Refer to the next page for the details on each setting.

Configuration RATOC U2SCX	
Adapter Info	default
SERIAL NO. 020110000006	
FW Version : 1.15	write
SCSI Configuration - 1	
CFG Version : 1.0 Host SCSI ID 7	cancel
TransferSpeed	
ID0 20MB ID1 20MB ID2 20MB ID3 20MB	
ID4 20MB ID5 20MB ID6 20MB ID7 20MB	
Show advanced setting. >>	

2)After you have done your settings, click the **[write]** button.
 The message saying configuration has completed will appear. Click the
 [cancel] button to go back to the main menu and click the **[EXIT]** menu.
3)Remove the U2SCXU from the PC as described in Chapter 2-7 and then
 restart the PC. After the PC finished starting, reconnect the U2SCXU for
 your changes to take effect.

Detailed each setting

[Host SCSI ID] U2SCXU SCSI ID is No. 7.
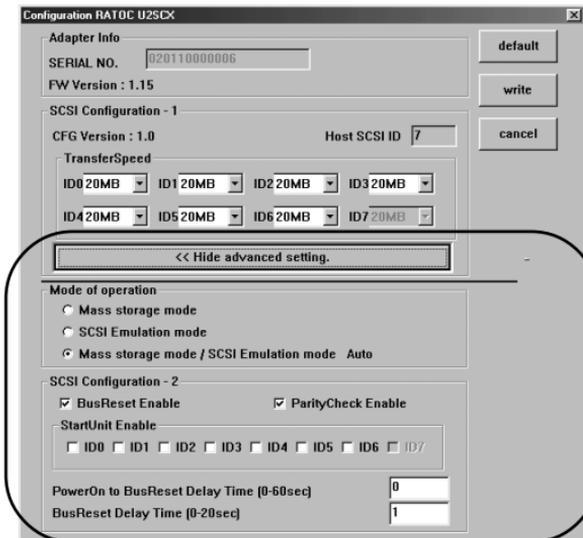**[TransferSpeed]**
Default value is 20MB/s.You can set Max transfer rate from 20,10,5MB/s, Async.
[Show advanced setting]
When you click this button, the advanced setting window will appear.
[default]
When you click this button, the default settings will be loaded.

37

[Mass storage mode]
You can switch from the RATOC original driver to the Microsoft standard driver by clicking this button, when the U2SCXU is using the RATOC original driver.

[SCSI emulation mode]
You can switch from the Microsoft standard driver to the RATOC original driver by clicking this button, when the U2SCXU is using the RATOC original driver.

[Mass storage mode/SCSI emulation mode Auto]
Automatically detects which mode to take.

[Bus Reset Enable]
Default value is enabled.You can set whether or not the U2SCXU issues SCSI bus reset to a SCSI device.

[Parity Check Enable]
Default value is enabled. You can set parity check enable or disable.

[Start Unit Enable]
Default value is disabled. You must enable START UNIT command for some SCSI devices which won't work if they doesn't receive this START UNIT command.

[Power On to Bus Reset Delay Time]
Default value is 0. You can set delay time for some SCSI devices which hang up if SCSI bus reset is issued right after the U2SCXU gets powered. Set this value to 2 sec. for Castle Wood ORB drive, Canon FB620S or Sharp JX-370.

[Bus Reset Delay Time]
Default value is 1. You can set delay time for some SCSI devices which hang up if SCSI command is issued right after SCSI bus resets.

38

B.Firmware update Utility

The latest firmware date file will be available on the web site:
(http://www.ratocsystems.com/english)

In order to update the firmware on the U2SCXU, follow the steps:

1)The following window will appear after you have clicked the **[Firmware update Utility]** button. Click the **[Write Firm]** button.

2)The following window will appear. Select the firmware you want to write and click the **[Open]** button. The extension of a firmware date is "frm".

3)The following window will appear. Click **[OK]**.

U2SCXUty

⚠ Firmware updating completed.

OK

4)Click the **[cancel]** button to go back to the main menu and click the **[EXIT]** menu. The following window will appear.

U2SCXUty

⚠ Please unplug U2SCX from a USB port.

OK

5)Click the removable icon located at the lower right corner of the desktop. The following pop-up window will appear and select it.

Stop USB Mass Storage Device

3:14 PM

6)The message saying you can remove the U2SCXU from the PC and then click **[OK]**.

7)Click **[OK]** on the following window.

U2SCXUty

⚠ Please unplug U2SCX from a USB port.

OK

8)Turn off the SCSI device and restart the PC. After the PC finished starting, reconnect the U2SCXU and turn on the SCSI device for your changes to take effect.

40

3-1-2.Disk formatting and Partitioning Utility

You can format a HDD, Jaz, Zip drive, etc.,with this utility.
(Caution)
You can't format a CD-R/RW or DVD-RAM/ROM/RW, etc.

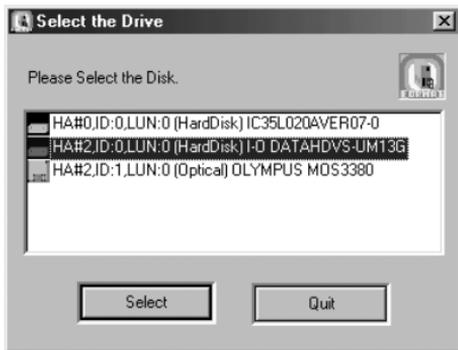If you are a Windows Me or 98SE user, proceed to Chapter A.
If you are a Windows XP or 2000 user, proceed to Chapter B.

A.Format Utility on Windows Me/98SE

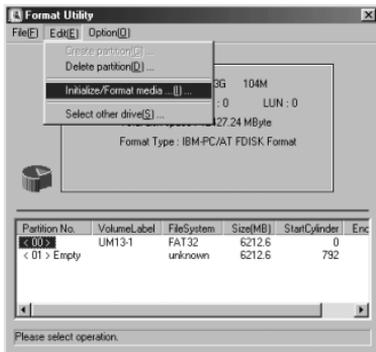Follow the steps through to format your SCSI drive and create partitions:

1)Make sure the SCSI device is connected and powered on.
2)If the device is a removable disk and a media isn't inserted, insert a media.
3)Double-click a **[FRFMTW9X.EXE]** file at the **[U2Format]** folder in the
  bundled CD-ROM.
4)The following window will appear. Select the drive you want to format,
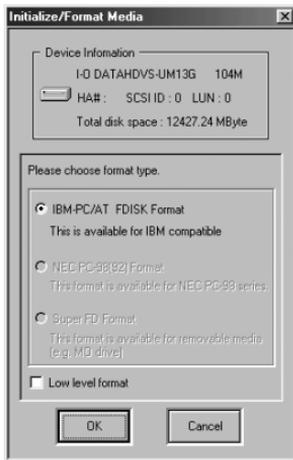 and click the **[Select]** button.

(Caution)
**The drive lists shows all the devices connected to 1394,USB, SCSI port
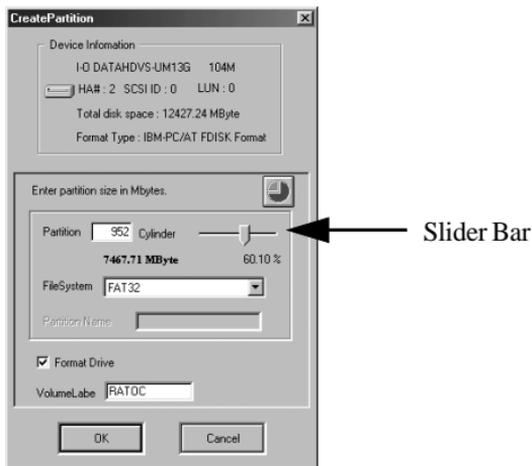on the PC. Be sure to select the drive connected to the U2SCXU.**
42

5) The following window will appear. Select **[Initialize/Format media]** from the **[Edit]** menu.

6) The following window will appear. Select **format type**. If you want to do Low Level Format simultaneously, check the **[Low Level Format]** box. Click **[OK]**.

43

7) If you selected **IBM-PC/AT FDISK format** at step 6), the message box saying **[You should create partition next]** appears. Click **[OK]**. You will see the screen shown in step 5) and select **[Create Partition]** from the **[Edit]** menu. Finally, you will see the screen below. Select **[File System]** from the list box and set Partition size, using the slider bar. Click **[OK]** to create partition. If you selected **Super FD format** at step 6), you will see a screen similar to the following. Select **[File System]** from the list box and click **[OK]**.

Slider Bar

8) Remove the U2SCXU from the PC as described in Chapter 2-7 and then turn off the SCSI device and reconnect the U2SCXU and turn on the SCSI device for your changes to take effect.

If you are using a removable media, the media will be ejected to take effect.

44

B.Disk Utility on Windows XP/2000

With this utility, you can initialize Master Boot Record or do physical format.
You may resolve the following issues with this disk utility:

•Fails to access to a SCSI disk
•Fails to recognize a SCSI disk even if the SCSI disk was formatted
•Fails to format a SCSI disk

Please note you don't need to use this utility when you format a new
disk or change partitions. In this case, you need to use "Disk Management"
in Windows XP/2000.

Follow the steps through to use this utility:

1)Make sure the SCSI device is connected and powered on.
2)If the device is a removable disk and a media isn't inserted, insert a media.
3)Double-click a **[U2SFMT2K.EXE]** file at the **[U2Format]** folder in the
  bundled CD-ROM.

4)The following window will appear. Select the drive you want to format.

(Caution)
The drive lists shows all the devices connected to 1394,USB, SCSI port on the PC. Be sure to select the drive connected to the U2SCXU.

5)Select the **[Initialize MBR]** button or **[Physical Format]** button.
  Please note it will take a very long time, sometime, over one hour, to complete physical format.

6)When completing, the message saying the procedure is finished will appear.

7)Remove the U2SCXU from the PC as described in Chapter 2-7 and then turn off the SCSI device and reconnect the U2SCXUS and turn on the SCSI device for your changes to take effect.

NOTE
1.Some SCSI device can't be done with physical format.
2.After initializing MBR, you need to execute [Disk Management] to create partition and format the SCSI disk. For more information, refer to a Help file in Windows XP/2000.

3-2. Using utility on Mac

If you are a MacOS 9.x user, proceed to Chapter 3-2-1.
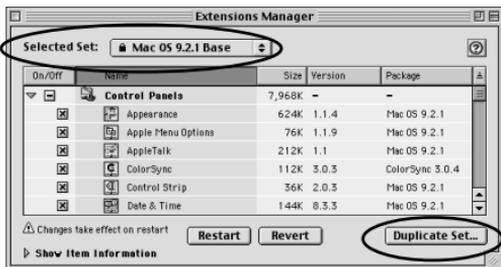If you are a MacOS X user, proceed to Chapter 3-2-2.

NOTE
But please note you don't need to use this utility if the SCSI device works fine. It is recommended that you use this utility when you have some problem with the U2SCX.

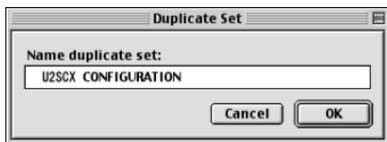**Macintosh**

3-2-1.Installing utility on MacOS 9.x

You can configure settings for a SCSI device or update the firmware on the U2SCXU with this utility. When you update the firmware, don't remove the SCSI device from the U2SCXU. You need to keep connecting the U2SCXU to the SCSI device.

In order to use this utility, you need to duplicate **[Mac OS Base]** with **[Extensions Manager]** first. Secondly, you need to install the utility on Mac and execute it. Thirdly, you need to go back from **[Mac OS Base]** to your settings. In order to use this utility, follow the steps through:

1)Open **[Extension Manager]** at **[Control Panels]**.
2)Set **[Selected Set]** to **[Mac OS Base]** and click **[Duplicate Set]**.

Macintosh

3)The following window will appear. Type a name such as **[U2SCX Configuration]** and click **[OK]**. Next, set disable the following drivers located at the **[Extensions Manager]**.
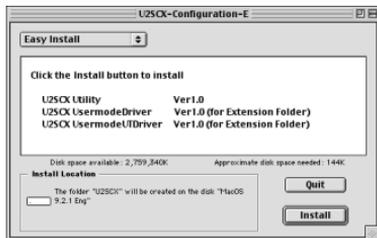

-USB Authoring Support
-Authoring Support
-Disc Banner Extension

4)Insert the bundled CD-ROM.
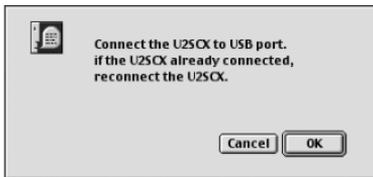5)Double-click **[U2SCX-Configuration-E]** at the **[U2SCX]** folder.
6)Follow the on-screen instructions and the following window will appear. Make sure the destination folder and click **[Install]**.
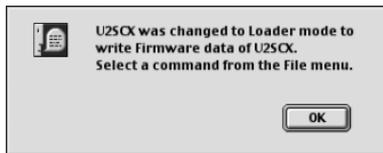
7)The following window will appear. Click **[Quit]**.

> Installation was successful. If you are finished, click Quit to leave the Installer. If you wish to perform additional installations, click Continue.
>
> [Continue] [Quit]

8)You can find the **[U2SCX]** folder created at the destination you have made sure of it at step 6. Start U2SCX utility. The following window will appear. If you have the U2SCXU removed from a Mac, reconnect it. If you have already removed the U2SCXU, connect it. After connecting, click **[OK]**.

> Connect the U2SCX to USB port. if the U2SCX already connected, reconnect the U2SCX.
>
> [Cancel] [OK]

9)The following window will appear. Click **[OK]**.

> U2SCX was changed to Loader mode to write Firmware data of U2SCX. Select a command from the File menu.
>
> [OK]

10)You are now ready to start the utility from the [File] menu.
Select **[Quit]** from the **[File]** menu.

If you want to configure settings for a SCSI device connected to the U2SCXU, you need to select **[Config Utility**] from the **[File]** menu. Proceed to A.
If you want to update a firmware date on the U2SCXU, you need to select **[Firmware update Utility]** from the **[File]** menu. Proceed to B.

Macintosh

50

A.Config Utility

In order to use this config utility, follow the steps:

Don't remove the SCSI device from the U2SCXU.

1)Before you start this utility, you need to make sure of the following points:

  a)Open **[Extensions Manager]** at **[Control Panels]**.
  b)Make sure your setting is **[U2SCX Configuration]** you made at step 3)
    in Chapter 3-2-1.
  c)Make sure the following drivers are enabled.
    -U2SCXUsermodeDriver
    -U2SCXUsermodeUTDriver
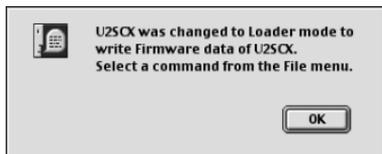 d)Make sure the following drivers are disabled.
    -USB Authoring Support
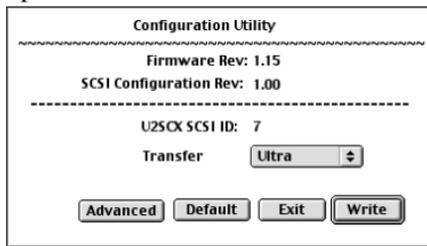   -Authoring Support
    -Disc Banner Extension
2)Make sure the U2SCXU is removed from a Mac and start the U2SCX
  Utility at the **[U2SCX]** folder. The following window will appear. Connect
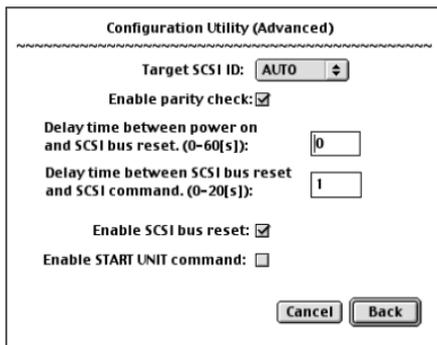 the U2SCXU to the Mac and click **[OK]**.

> Connect the U2SCX to USB port.
> if the U2SCX already connected,
> reconnect the U2SCX.
>
> [Cancel] [OK]

3)The following window will appear. Click **[OK]**.

> U2SCX was changed to Loader mode to
> write Firmware data of U2SCX.
> Select a command from the File menu.
>
> [OK]

4)Select **[Config Utility]** from the **[File]** menu. The following window will appear. Refer to A in Chapter 3-1-1 for each item.

> **Configuration Utility**
> ~~~~~~
> Firmware Rev: 1.15
> SCSI Configuration Rev: 1.00
> ---
> U2SCX SCSI ID: 7
> Transfer   [Ultra   ◆]
>
> [Advanced] [Default] [Exit] [Write]

When you click the **[Advanced]** button, the following window will appear.

> **Configuration Utility (Advanced)**
> ~~~~~~
> Target SCSI ID: [AUTO ◆]
> Enable parity check: ☑
> Delay time between power on
> and SCSI bus reset. (0-60[s]):   [0]
> Delay time between SCSI bus reset
> and SCSI command. (0-20[s]):   [1]
>
> Enable SCSI bus reset: ☑
> Enable START UNIT command: ☐
>
> [Cancel] [Back]

52

5)After you have done settings, click **[Write]**. The message saying updating
 completed will appear. Click **[OK]**. Select **[Quit]** from the **[File]** menu.
 Remove the U2SCXU from the Mac and turn off the SCSI device attached
 to the U2SCXU.
6)Change the settings from **[U2SCX Configuration]** to the previous setting
 with **[Extensions Manager]** and restart your Mac. Turn on the SCSI device
 and connect the U2SCXU to the Mac. Your settings now starts working.
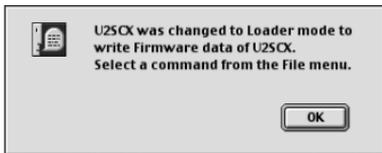
B.Firmware update Utility

The latest firmware date file will be available on the web site:
(http://www.ratocsystems.com/english)

In order to update the firmware on the U2SCXU, follow the steps:
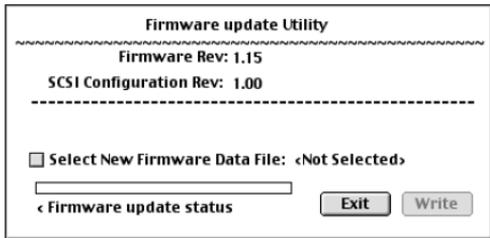
1)Before you start this utility, you need to make sure of the following points:

Macintosh

  a)Open **[Extensions Manager]** at **[Control Panels]**.
  b)Make sure your setting is **[U2SCX Configuration]** you made at step 3)
    in Chapter 3-2-1.
  c)Make sure the following drivers are enabled.
    -U2SCXUsermodeDriver
    -U2SCXUsermodeUTDriver
  d)Make sure the following drivers are disabled.
    -USB Authoring Support
    -Authoring Support
    -Disc Banner Extension

2)Make sure the U2SCXU is removed from a Mac and start the U2SCX
Utility at the **[U2SCX]** folder. The following window will appear. Connect
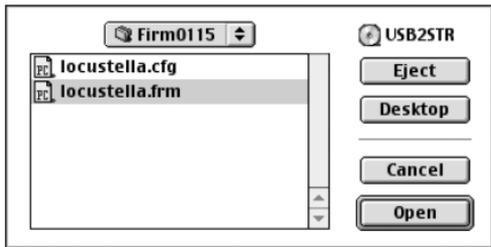the U2SCXU to the Mac and click **[OK]**.

54

3)The following window will appear. Click **[OK]**.

> U2SCX was changed to Loader mode to
> write Firmware data of U2SCX.
> Select a command from the File menu.
>
> OK

4)Select **[Firmware update Utility]** from the **[File]** menu. The following
window will appear. **[Firmware Rev]** means the current revision of the
firmware on the U2SCXU.

> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
> **Firmware update Utility**
> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
> **Firmware Rev: 1.15**
> **SCSI Configuration Rev: 1.00**
> --
>
> ☐ Select New Firmware Data File: ‹Not Selected›
>
> ▢
> ‹ Firmware update status   Exit   Write

5)Select **[Select New Firmware Data File]** and select a new firmware data
file(The extension of a firmware data file is "frm") and then click **[OK]**.
Firmware Rev. on the window means the current revision of the firmware on
the U2SCXU.

> 🖫 Firm0115 ⬦   ⬤ USB2STR
> 🄿 locustella.cfg   Eject
> 🄿 locustella.frm
>   Desktop
>
>   Cancel
>
>   Open

6)The window shown at step 4) will appear. Click **[Write]**.
The message saying updating completed will appear. Click **[OK]**. Select
[Quit] from the **[File]** menu. Remove the U2SCXU from the Mac and turn
off the SCSI device attached to the U2SCXU.
7)Change the settings from **[U2SCX Configuration]** to the previous setting
with **[Extensions Manager]** and restart your Mac. Turn on the SCSI device
and connect the U2SCXU to the Mac. Your settings now starts working.

3-2-2.Using utility on MacOS X

You can configure settings for a SCSI device or update the firmware on the U2SCXU with this utility. When you update the firmware, don't remove the SCSI device from the U2SCXU. You need to keep connecting the U2SCXU to the SCSI device.

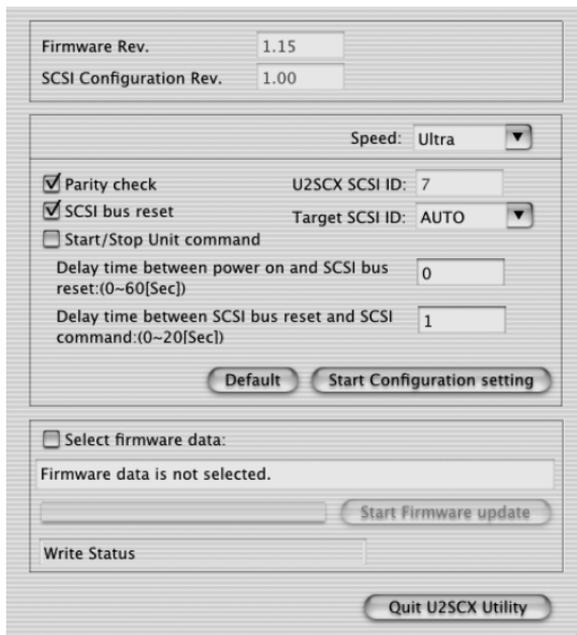In order to use this utility, follow the steps through:

1)Insert the bundled CD-ROM.
2)Make sure the U2SCXU is removed from a Mac and double-click
   [U2SCX Utility] at the **[U2SCX_OSX]** folder at the **[U2SCX]** folder.

U2SCX Utility

3)The following window will appear. Click **[OK]**.

U2SCX Utility

Unmount U2SCX device if your device is mounted.

OK

4)Connect the U2SCXU to the Mac. The following window will appear.

| Firmware Rev. | 1.15 |
| SCSI Configuration Rev. | 1.00 |

Speed: Ultra ▼

☑ Parity check   U2SCX SCSI ID: 7
☑ SCSI bus reset   Target SCSI ID: AUTO ▼
☐ Start/Stop Unit command

Delay time between power on and SCSI bus reset:(0~60[Sec])   0

Delay time between SCSI bus reset and SCSI command:(0~20[Sec])   1

(Default) (Start Configuration setting)

☐ Select firmware data:

Firmware data is not selected.

(Start Firmware update)

Write Status

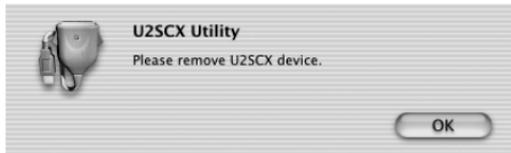(Quit U2SCX Utility)

Macintosh

58

A.Config Utility

You can configure settings for a SCSI device with the utility shown in the previous page. Refer to A in Chapter 3-1-1 for each item.

1)Click the **[Start Configuration setting]** button.
2)The following window will appear. Click **[OK]**.

U2SCX Utility
Update of configuration data was completed normally.

OK

3)Remove the U2SCXU from the Mac and turn off the SCSI device attached to the U2SCXU.
4)Click the **[Quit U2SCX Utility]** button. The following window will appear. Click **[OK]**.

U2SCX Utility
Please remove U2SCX device.

OK

7)Turn on the SCSI device and connect the U2SCXU to the Mac. Your settings now starts working

B.Firmware update Utility

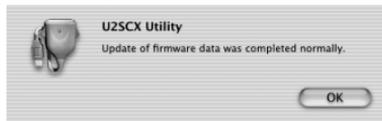The latest firmware date file will be available on the web site:
(http://www.ratocsystems.com/english)
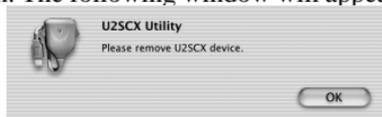In order to update the firmware on the U2SCXU, follow the steps:

1)Click the **[Select firmware data]** button.
2)Select a new firmware data file(The extension of a firmware data file is "frm")
and then click **[Open]**.

3)Click the **[Start Firmware update]** button.
4)The following window will appear. Click **[OK]**.

5)Remove the U2SCXU from the Mac and turn off the SCSI device attached to
the U2SCXU.
6)Click the **[Quit U2SCX Utility]** button. The following window will appear.
Click **[OK]**.

7)Turn on the SCSI device and connect the U2SCXU to the Mac. Your settings
now starts working

60

4.Troubleshooting

4-1.General Hardware Troubleshooting

- Be sure the U2SCXU's power LED comes on. If the LED doesn't come on, your SCSI device may not provide SCSI bus termination power. If the SCSI device can't provide it, an *__OPTIONAL__* AC adapter is required. For purchasing information, **refer to Chapter 6**.
- Be sure the U2SCXU is firmly connected to your SCSI device.
- Be sure the USB cable is firmly connected to a USB port on your PC or Mac.
- Be sure each SCSI device has a SCSI ID except 7.
- Be sure the SCSI power cable is properly connected and the SCSI device is powered.
- Be sure the last SCSI device has a terminator.
- Some SCSI devices may not have the capability of providing enough termination power to the U2SCXU. We recommend you use an *__OPTIONAL__* AC adapter to avoid it. For purchasing information, **refer to Chapter 6**.

4-2.Deleting the RATOC original driver(Windows XP/2000)

Follow the steps to delete the RATOC original driver:
1.Removing the strings from Device Manager as follows:
 a.Right-click on **My Computer**.
 b.Select **Properties**.
 c.Select the **Hardware** tab.
 d.Click the **Device Manager** button.
 e.Double-click **SCSI and RAID controllers**.
 f.Select **RATOC U2SCX USB2-SCSI Converter** and delete it.
 g.Double-click **Universal Serial Bus controllers**.
 h.Select **RATOC USB MassStorage Device WDM(withMPD)** and
   delete it.
2.Removing the INF file:
 a.Double-click the **My Computer** icon.
 b.Select **Folder Options** in the **Tools** menu and select the **View** tab.
 c.Put a check mark at the **Show hidden files and folders**.
 d.Click the **Apply** button and then click the **OK** button
 e.If you are a Windows XP user, open a INF folder at the Windows folder
   in the C drive. If you are a Windows 2000 user, open a INF folder at the
   WINNT folder in the C drive.
 f.Search an oemX.inf(X means a number).
   Open each oemX.inf file to find the file related to the U2SCXU.
   If you found a U2SCX string in the file, delete it. You also need delete the
   file of which extension is PNF and the same file name(oemX).
   For instance, if you found an oem3.inf related to the U2SCX, delete both of
   the oem3.inf and oem3.pnf. Remove the U2SCXU and you have finished it.

4-3. Deleting the RATOC original driver (Windows Me/98SE)

Follow the steps to delete the RATOC original driver:

1. Removing the strings from Device Manager:
  a. Right-click on **My Computer**.
  b. Select **Properties**.
  c. Select the **Device Manager** tab.
  d. Double-click **SCSI controllers**.
  e. Select **RATOC U2SCX USB2-SCSI Converter** and delete it.
  f. Double-click **Universal Serial Bus controllers**.
  g. Select **RATOC USB MassStorage Device WDM(withMPD)** and
    delete it.

2. Removing the INF file:
  a. Double-click the **My Computer** icon.
  b. Select **(Folder)Options** in the **View(Tools)** menu and select the **View** tab.
  c. Put a check mark at the **Show all files(Show hidden files and folders)**.
  d. Click the **Apply** button and then click the **OK** button
  e. Select **Find(Search)** and **(For)Files or Folders** on the **Start** menu.
  f. Type **[RATOC Systems,Inc.RSBLKMPD.INF]**.
  g. Select the drive where Windows Me/98SE is installed in **Look in** box.
  h. Click the **Find Now(Search Now)** button.
  i. If the file appeared, delete it. In the same way, delete an **[RATOC Systems,Inc.RSBLKM.INF]** file.

Remove the U2SCXU and you have finished deleting the drivers.

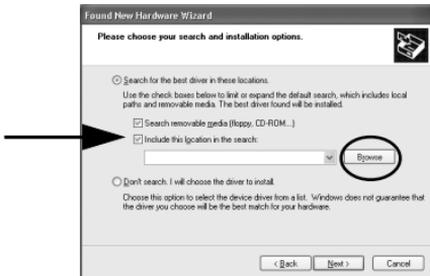## 4-4.Updating the RATOC original driver(Windows XP)

When you have a new driver through our web site, you can update the driver as follows:

1)Delete the old drivers as described in Chapter 4-2.
2)Connect the U2SCXU to an available USB port on your PC.
   The following window will appear. Select the **[Install from a list or specific location(Advanced)]** option and click **[Next]**.
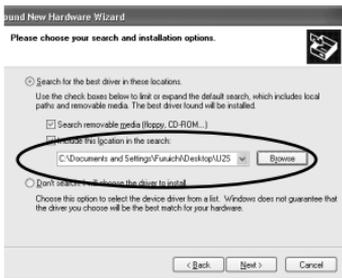

3)Select the **[Include this location in the search]** option and click **[Browse]**.

4)Select the folder containing the U2SCXU driver. Click **[OK]**.

5)The selected location is shown and click **[Next]**.

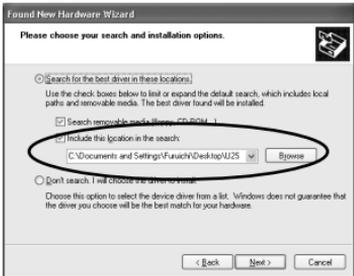6)The following window will appear and click **[Continue Anyway]**.

7)The following window will appear and click **[Finish]**.

8)Select the **[Install from a list or specific location(Advanced)]** option and click **[Next]**.

9)The same location you have selected at step 4 is shown and click **[Next]**.

10)The following window will appear and click **[Continue Anyway]**.

11)The following window will appear and click **[Finish]**.

You have now finished updating the drivers.
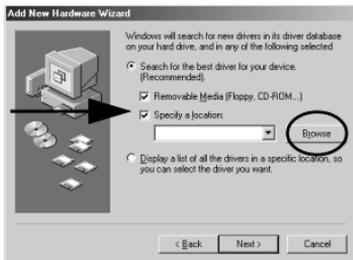
4-5. Updating the RATOC original driver (Windows Me)

When you have a new driver through our web site, you can update the driver
as follows:

1) Delete the old drivers as described in Chapter 4-3.
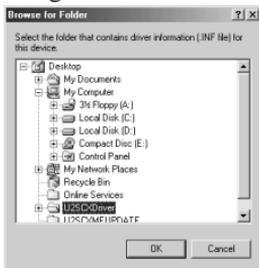2) Connect the U2SCXU to an available USB port on your PC.
   The following window will appear. Select the **[Specify the location of the
   driver(Advanced)]** option and click **[Next]**.

3) Select the **[Specify a location]** option and click **[Browse]**.

4)Select the folder containing the U2SCXU driver. Click **[OK]**.

5)The selected location is shown and click **[Next]**.

6)Click **[Next]**.

7)The following window will appear and click **[Finish]**.

8)The following window will appear. Select the **[Specify the location of the driver(Advanced)]** option and click **[Next]**.

9)The same location you have selected at step 3 is shown and click **[Next]**.

70

10)Click **[Next]**.

11)The following window will appear and click **[Finish]**.

You have now finished updating the drivers.

4-6. Updating the RATOC original driver (Windows 2000)

When you have a new driver through our web site, you can update the driver as follows:

1) Delete the old drivers as described in Chapter 4-2.
2) Connect the U2SCXU to an available USB port on your PC.
   The following window will appear. Click **[Next]**.

3) The following window will appear. Select the **[Search for a suitable driver for my device(Recommended)]** option and click **[Next]**.

4)The following window will appear. Select the **[Specify a location]** option and click **[Next]**.

5)The following window will appear. Click **[Browse]**.

6)Select the folder containing the U2SCXU driver. Click **[Open]**.

7)The selected location is shown and click **[OK]**.

8)Click **[Next]**.

9)The following window will appear and click **[Finish]**.

74

10)Click **[Next]**.

11)The following window will appear. Select the **[Search for a suitable driver for my device(Recommended)]** option and click **[Next]**.

12)The following window will appear. Select the **[Specify a location]** option and click **[Next]**.

13) The same location you have selected at step 6 is shown and click **[OK]**.

14) Click **[Next]**.

15) The following window will appear and click **[Yes]**.

16) The following window will appear and click **[Finish]** and then restart your
PC. You have now finished updating the drivers.

4-7. Updating the RATOC original driver (Windows 98SE)

When you have a new driver through our web site, you can update the driver as follows:

1) Delete the old drivers as described in Chapter 4-3.
2) Connect the U2SCXU to an available USB port on your PC.
   The following window will appear. Click **[Next]**.

3) The following window will appear. Select the **[Search for the best driver for your device(Recommended)]** option and click **[Next]**.

4)The following window will appear. Select the **[Specify a location]** option and click **[Next]**.

5)Select the folder containing the U2SCXU driver. Click **[OK]**.

6)The selected location is shown and click **[Next]**.

7)Click **[Next]**.

8)The following window will appear and click **[Finish]**.

9)The following window will appear and click **[Next]**.

10) The following window will appear. Select the **[Search for the best driver for your device(Recommended)]** option and click **[Next]**.

11) The same location you have selected at step 6 is shown and click **[OK]**.

12) Click **[Next]**.

13)The following window will appear and click **[Finish]**.

4-8.When you fail to copy files or use FUJITSU MO

When you come across an error message while you are copying files or the system locks up, you should phase down transfer rate with the SCSI configuration utility. If you use some older MO models made by FUJITSU such as M2512A, M2513A, the system sometimes locks up.

If you use these old FUJITSU MO models, remove the U2SCXU from the SCSI device and attach the U2SCXU to another SCSI device to set transfer rate to **10MB/sec** with the SCSI configuration utility. Please note you can't execute the SCSI configuration utility with the older FUJITSU MO models attached to the U2SCXU. You must attach the U2SCXU to another SCSI device.

If you are a Windows user, proceed to section A in Chapter 3-1-1. With the SCSI configuration utility, phase down the transfer rate to see if it is successful.

If you use Mac OS 9.x, proceed to section A in Chapter 3-2-1. With the SCSI configuration utility, phase down the transfer rate to see if it is successful.

If you use Mac OS X, proceed to section A in Chapter 3-2-2. With the SCSI configuration utility, phase down the transfer rate to see if it is successful.

4-9.When a new drive letter isn't assigned(Windows)

When you connect a HDD which isn't formatted or doesn't have partitions, a new drive letter won't be assigned in **[My Computer]**. You need to format or create partitions on the HDD.
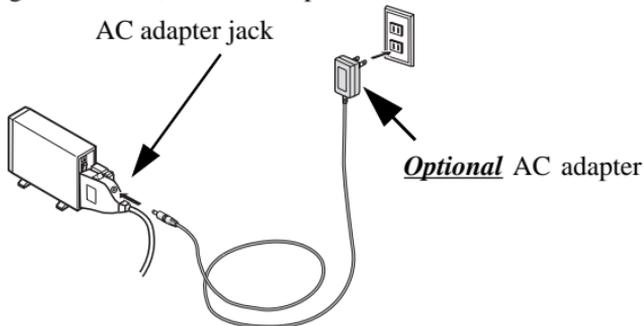
1.When you use Windows Me/98SE, you can format your HDD and create partitions with the bundled "Format Utility". You have to **format** and **create partition** for your HDD. You must do both of them for your HDD. For more information, **refer to section A in Chapter 3-1-2**.

2.When you use Windows XP/2000, you can format your HDD and create partitions with **Disk Management** in Windows XP/2000. For more information, refer to a Windows XP/2000 help file. If a new drive letter won't be assigned yet or you still fail to format the HDD after you have done **Disk Management**, you should do Low Level Format, using with the bundled "Disk Utility", and then do the **Disk Management**. For more information, **refer to section B in Chapter 3-1-2**.

4-10.When the power LED doesn't come on(Win/Mac)

Check the following points:
1)Be sure the SCSI device is powered on properly.
2)Turn off the SCSI device and make sure the U2SCXU is attached firmly, and
turn on the device again.

If the LED doesn't come on even if you have done the above checking,
refer to the user's document on the SCSI device. Though SCSI specifications
require Term-Power output capability as an optional, some SCSI devices
such as iomega Zip drive may not be implemented this capability. If your
SCSI device doesn't have this Term-Power output capability, you must
connect an OPTIONAL AC adapter(sold separately) as shown below or
daisy-chain a SCSI device which has this Term-Power output capability.
But, if you are a Mac user, don't daisy-chain another SCSI device. Windows
users only can daisy-chain another SCSI device. If you are a Mac user, you
must connect the optional AC adapter.
For purchasing information, refer to Chapter 6.

AC adapter jack

Optional AC adapter

4-11. A message saying [Scanning failed] appears when you removed the U2SCXU removable icon(RATOC U2SCX-USB2 SCSI Converter)(Win/Mac)

This problem is caused by the specifications of the U2SCXU. Don't remove the U2SCXU while a scanner is scanning.

4-12. A message saying [The device "RATOC USB Mass Storage Device WDM (withMPD) cannot be stopped because a program is still running"] appears when you try to remove the CBU2U removable icon(RATOC CB USB Enhanced Host Controller)(Win/Mac)

This problem is caused by the specifications of the U2SCXU. Remove the U2SCXU first before the CBU2U.

4-13.Wizard starts up with a scanner connected(Windows)

When you connect the U2SCXU connected to scanner to a PC, wizard will start up because the driver of the scanner is required. In this case, specify the driver provided by its manufacturer.
Here is the procedures for Windows XP or Me users. If you are a Windows 2000 or 98SE user, you can nearly follow the same procedure to install the driver.

[For Windows XP users]
1. A wizard will appear after you have finished installing the driver for the U2SCXU. Select the **[Install from a list or specific location(Advanced)]** option and click **[Next]**.
2. Select the **[Don't search. I will choose the driver to install]** option and click **[Next]**.
3. Select **[Imaging Device]** from the list and click **[Next]**.
4. Click the **[Have disk]** button.
5. Specify the location where the scanner driver exists and then click **[OK]**.
6. Make sure the model name you have specified is shown on the list and then click **[Next]**.
7. A warning message will appear. Click **[Continue Anyway]**.
8. Click **[Finish]**. You have now completed the driver.

[For Windows Me users]

1. A wizard will appear after you have finished installing the driver for the U2SCXU. Select the **[Specify the location of the driver(Advanced)]** option and click **[Next]**.
2. Select the **[Display a list of all the drivers in a specific location, so you can select the driver you want]** option and click **[Next]**.
3. Select **[Imaging Device]** from the list and click **[Next]**.
4. Click the **[Have disk]** button.
5. Specify the location where the scanner driver exists and then click **[OK]**.
6. Make sure the model name you have specified is shown on the list and then click **[Next]**.
7. Click **[Next]**.
8. Click **[Finish]**. You have now completed the driver.

5.Registration and Tech-Support

5-1. How to Register

We highly recommend to register yourself as our customer through our
on-line registration. (**http://www.ratocsystems.com/english**/)

5-2. Software Update and Support

-Utility Update-

The latest utility is subject to change for improvement or bug fix.You can
download the latest version from our web site.

-Technical Support-

You can get a Tech support from RATOC at the following:

(Open Monday - Friday,9:30A.M. to 5:00P.M.(PST))

RATOC Systems International,Inc. Tech support

Address: 1933 O'Toole Avenue Suite A109

SanJose, CA 95131, U.S.A.

Phone : (408)955-9400 Fax : (408)955-9402

E-mail : int-support@rexpccard.co.jp

Web : http://www.ratocsystems.com/english/

Please include the following information:

•Our product name, serial number, and product description

•Host Computer Name, OS version,CD-ROM version

6.Options

Optional AC adapters, etc. are available (sold separately) at the web site:

　1.http://www.ratocsytems.com/english/
　2.http://www.firewireshop.com

　-RCL-3005　(HD50F to C50P adapter)
　-RCL-3025　(HD50F to DB25P adapter)
　-AC05　　(AC Adapter:Input AC100-240V, Output DC 5V, 2A)

If you have any questions about these options, contact to:

RATOC Systems International, Inc. Tech support:

　Tel　　: (408)955-9400
　Fax　　: (408)955-9402
　E-mail: int-sales@rexpccard.co.jp

7.Specifications

Product Name :U2SCXU

Transfer　　:SCSI

　　　　　　　•Max synchronous transfer 20MBytes/sec

　　　　　　　(When you connect an Ultra SCSI device)

　　　　　　　•Max synchronous transfer 10MBytes/sec

　　　　　　　(When you connect a SCSI-2 device)

　　　　　　　•Max asynchronous transfer 5MBytes/sec

　　　　　USB

　　　　　　•480/12/1.5Mbps

SCSI connector: High-Density 50 pin male SCSI-2 connector x 1
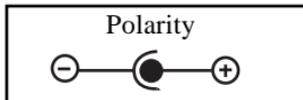
USB connector: USB Type A x 1

Size:2.01 in (51 mm) (W) x 2.05 in (52 mm) (L) x 0.71 in (18 mm) (H)

Power Requirements :+5V

(SCSI Term Power must provide, if the SCSI Term Power can't provide, an
optional adapter is required)

Power Consumption: USB BUS 2mA or below, Term Power 300 mA MAX

Optional AC Adapter:**Input AC100-240V, Output DC 5V, 2**

Polarity

⊖——◉——⊕

90

Appendix

Trademarks

-Windows is a registered trademark of Microsoft Corporation.

-MacOS, PowerMacintosh, PowerBook and Mac logo are registered trademarks
 of Apple Computer,Inc.

-Other brand and product names may be registered trademarks or trademarks of
 their respective holders.

Regulatory Agency Notices

FCC Compliance Statement

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 or more of the
following measures:

(1) Reorient or relocate the receiving antenna.

(2) Increase the separation between the equipment and receiver.

(3) Connect the equipment into an outlet on a circuit different from that to which the receiver is
    connected.

(4) Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance may
result in this unit not complying with FCC Rules Part 15.

Manufacturer declaration

This certifies that the U2SCXU complies with the EN55022(Class B) and EN55024 requirements.

RATOC
Systems, Inc.