

UIB-01

Installation Manual



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Safety Precautions

In this manual, important information that is intended to prevent the danger of injury to persons and damage to equipment is marked with special symbols. The meaning of these symbols is explained below.



Warning Disregarding instructions printed here incurs the risk of death or severe injury to persons.



Caution Disregarding instructions printed here incurs the risk of injury to persons and/or damage to peripheral equipment.

Please observe the following safety tips and precautions to ensure hazard-free use of the UIB-01.

■ Handling



● Before installing the UIB-01 in the MRS-1044, be sure to turn the MRS-1044 off and disconnect the AC adapter from the outlet.



● Before handling the UIB-01, touch a grounded metal surface or take other measures to discharge any buildup of static electricity. Otherwise static discharge can damage the UIB-01 or MRS-1044.



● The UIB-01 is a precision product. Do not subject it to strong force when installing it in the MRS-1044. To prevent the possibility of damage, take care not to drop it and protect it from shocks.



● Only install the UIB-01 according to the instructions in this manual. Any damage or malfunction arising from improper installation is not covered by the warranty.



● Never attempt to modify this product in any way. Any damage or malfunction arising from modification attempts is not covered by the warranty.

■ Malfunction

If there is any malfunction or other sign of a problem, immediately turn off the MRS-1044, disconnect the AC adapter from the outlet, and remove the UIB-01.

Note the model number, serial number, symptoms, as well as name of the dealer where the product was purchased, and contact Zoom Corporation, providing your name, address, and telephone number.

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Introduction

Thank you for selecting the ZOOM USB Interface Board UIB-01 (hereafter called the "UIB-01"). To ensure correct use of this product, please read and follow all instructions contained in this manual.

About the UIB-01

The UIB-01 is a Windows compatible USB interface board designed for installation in the ZOOM MultiTrak Recording Studio MRS-1044 (hereafter called "MRS-1044"). When the UIB-01 is installed in the dedicated slot of the MRS-1044, data exchange between a computer and the MRS-1044 becomes possible, and the following functions are available.

● Project backup/restore

You can copy any project of the MRS-1044 to the hard disk of the computer. This is convenient for creating backups of important projects. A backed-up project can be restored to the MRS-1044 at any time.

● V-take/audio file conversion

Using the software on the supplied CD-ROM, you can convert any V-take of the MRS-1044 into a WAV file, or convert existing WAV/AIFF files into V-takes of the MRS-1044.

● MRS-1044 initialization

The supplied CD-ROM contains data about the factory default settings of the MRS-1044. Using software also contained on the CD-ROM, you can reset the MRS-1044 at any time to the factory default condition.

● System update

When there are operating system upgrades for the MRS-1044 in future, you can simply copy the relevant system files from the computer to the MRS-1044, to update the system.

Operating Environment

The UIB-01 has the following hardware and software requirements.

● Computer

Windows computer running Windows 98/Me/2000 and equipped with a USB connector (Pentium 166 MHz or higher recommended)

* The Apple Macintosh series of computers are not supported.

● Free hard disk space

100 MB or more (plus space for converted data etc.)

● RAM

32 MB or more

● Supported operating systems

- Microsoft® Windows® 98 (hereafter called "Windows 98")
- Microsoft® Windows® Millennium Edition (hereafter called "Windows Me")
- Microsoft® Windows® 2000 Professional (hereafter called "Windows 2000")

● Other requirements

- CD-ROM drive x 1
- USB cable x 1



Even when the above requirements are met, correct operation on all types of computers is not assured. Depending on individual specifications and system conditions, there may be cases where incompatibilities exist.

Explanations in the manual

Most explanations in this manual apply equally to all supported operating systems (Windows 98/Windows Me/Windows 2000). In general, explanations are based on Windows 98, and exceptions are noted when there are differences for the other operating systems.

Preparations

This section describes how to install the UIB-01 in the MRS-1044, and how to install the driver software on the computer. These steps are required before the UIB-01 can be used.

Installing the UIB-01

The UIB-01 is designed for installation in the side panel slot of the MRS-1044.

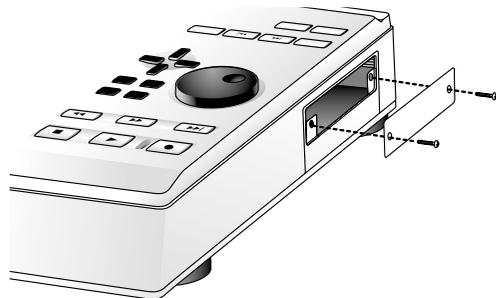


Warning

Before installing the UIB-01 in the MRS-1044, be sure to turn the MRS-1044 off and disconnect the AC adapter from the outlet.

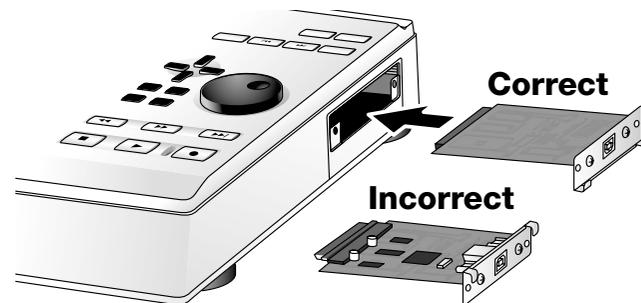
1. Remove the two screws that fasten the cover of the side panel slot, and remove the cover.

These screws will be used to fasten the UIB-01.

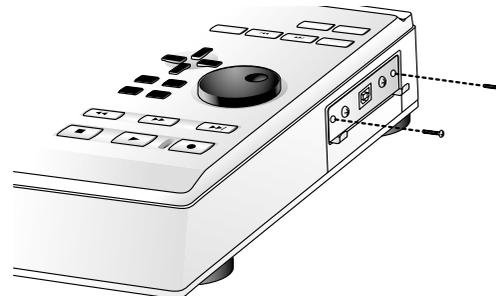


2. With the populated side of the UIB-01 board (the side with IC chips and other components) facing downwards, push the UIB-01 fully into the slot.

Align the board with the rails of the slot, and make sure that it clicks into place. If the board does not go all the way in, check whether the UIB-01 has not been inserted upside down, and whether it is properly aligned with the rails.



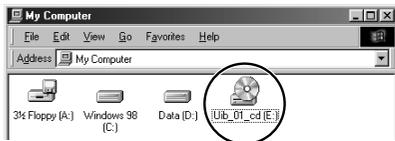
3. Use the screws removed in step 1 to fasten the UIB-01.



Connection between computer and MRS-1044

1. Turn power to the computer on and start Windows 98/Me/2000.
2. Insert the CD-ROM supplied with the UIB-01 into the CD-ROM drive of the computer.
3. Double-click on the "My Computer" icon and check the drive letter of the drive where the CD-ROM (volume label "UIB_01_CD") is inserted.

In the following explanation, the drive will be called "E", but this may be different for your computer.



For systems running Windows 98 or Windows 2000, the CD-ROM drive letter will be required when installing the driver software. Make a note of the drive letter.

4. While holding down the [CLEAR] key of the MRS-1044, press the [POWER] switch on the rear panel to turn the MRS-1044 on.
This starts up a special utility program contained in the internal ROM of the MRS-1044. When the indication "ROM UTILITY MRS-1044" appears on the display of the MRS-1044, release the [CLEAR] key.
5. Press the [AUTO PUNCH IN/OUT] key of the MRS-1044.
The MRS-1044 goes into USB mode, and the indication "USB WORKING" is shown on the display of the MRS-1044. In this mode, the MRS-1044 operates as a USB device.
6. Connect the computer and the MRS-1044 (UIB-01) with a USB cable.

A message for installing the driver appears on the display of the computer.

Installing the driver

To allow the computer to recognize the MRS-1044 properly, a driver must be installed. The steps for installing the driver differ for the various operating systems. Please refer to the appropriate page, as shown below.

Windows 98 → this page / Windows Me → p.13 / Windows 2000 → p.15

Windows 98 driver installation

1. Verify that the following indication is shown on the computer display, then click on the [Next] button.



* If the indication is not shown → p.31

2. Place a check mark in "Search for the best driver..." on the next screen, and click on the [Next] button.



- Place a check mark in "Specify a location" on the next screen, enter "[CD-ROM drive letter]:\", and click on the [Next] button.

The following example uses the drive letter "E".



- Verify that the following indication is shown, and click on the [Next] button.



- After a while, the following screen will be shown. Click on the [Finish] button.



- After a while, the following screen will be shown. Click on the [Next] button.



- Place a check mark in "Search for the best driver..." on the next screen, and click on the [Next] button (same as step 2).
- Place a check mark in "Specify a location" on the next screen, enter "[CD-ROM drive letter]:\", and click on the [Next] button (same as step 3).

9. Verify that the following indication is shown, and click on the [Next] button.



10. After a while, the following screen will be shown. Click on the [Finish] button.



This completes the driver installation. Proceed to p.18 to check whether the driver has been correctly installed.

Windows Me driver installation

1. Verify that the following indication is shown on the computer display. Then place a check mark in "Automatic search for ...", and click on the [Next] button.



* If the indication is not shown → p.31

2. After a while, the following screen will be shown. Click on the [Finish] button.



3. After a while, the following screen will be shown. Place a check mark in "Automatic search for...", and click on the [Next] button.



4. After a while, the following screen will be shown. Click on the [Finish] button.



This completes the driver installation. Proceed to p. 18 to check whether the driver has been correctly installed.

Windows 2000 driver installation

1. Verify that the following indication is shown on the computer screen, and click on the [Next] button.

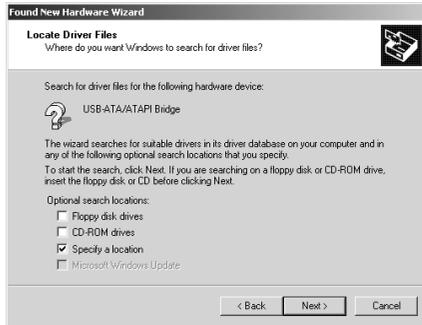


* If the indication is not shown → p.31

2. On the next screen, place a check mark in "Search for a suitable driver...", and click on the [Next] button.



3. On the next screen, place a check mark in "Specify a location", and click on the [Next] button.

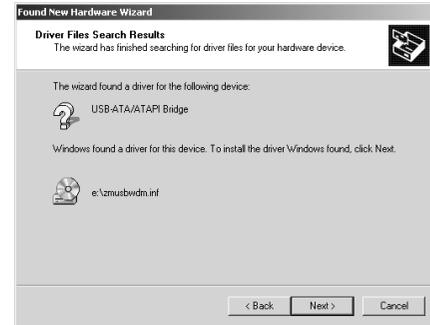


4. Enter "[CD-ROM drive letter]:\", and click on the [OK] button.

The following example uses the drive letter "E".



5. Verify that the following indication is shown, and click on the [Next] button.



6. After a while, the following screen will be shown. Click on the [Finish] button.



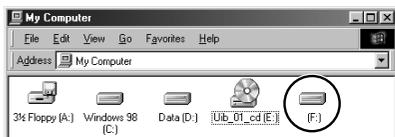
This completes the driver installation. Proceed to the next page to check whether the driver has been correctly installed.

Check whether computer and MRS-1044 are in the online state

Perform the following steps to verify that the driver has been properly installed and that the computer and MRS-1044 are in the online state (communication is possible).

1. Double-click on the "My Computer" icon to open the window.
2. Verify that a new local disk has been added to "My Computer".

If the driver has been properly installed and the computer and MRS-1044 are in the online state, a new local disk will be added to "My Computer". This drive represents the hard disk in the MRS-1044 recognized as local one by the computer. In the example shown below, this is "Drive F". (The actual drive letter may be different on your computer.)



* If no new local disk is shown → p.31

When the computer and MRS-1044 are in the online state, the following icon will be added to the task tray.



This icon accesses the "USB Storage Unplug" program that serves to terminate the USB connection between MRS-1044 and computer.



- The volume label for the MRS-1044 recognized as local disk differs depending on the operating system. In Windows 98, the volume label is shown as "None" and in Windows Me and Windows 2000 as "Local Disk".
- The driver installation process must only be carried out once. The next time you start up the MRS-1044 in USB mode, simply connect the USB cable between the MRS-1044 and the computer, and MRS-1044 and the computer will be automatically online.
- When wishing to uninstall (delete) the driver, use the "UNINST" program on the supplied CD-ROM (→ p.30).

Terminating the connection between computer and MRS-1044

If you unplug the USB cable or turn the MRS-1044 off while the computer and MRS-1044 are still in the online state, malfunction may occur and files may be damaged. To terminate the connection between the computer and the MRS-1044, always use the following steps.

1. Click on the "USB Storage Unplug" icon in the task tray, and select [Stop ZOOM USB-ATA/ATAPI Bridge Mass Storage Controller].

"USB Storage Unplug" is a program for setting the computer and MRS-1044 to the offline state. The icon for the program automatically appears in the task tray when the online state is established.



2. Click on the [OK] button in the dialog box that appears.



This section describes the various uses of the UIB-01.

Project backup/restore

You can copy a project from the MRS-1044 recognized as a local disk to the hard disk of the computer, for creating a backup. A backed-up project can be restored to the MRS-1044 at any time.

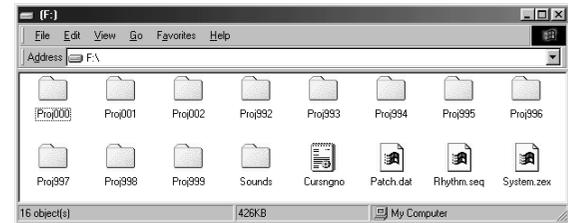
Backing up a project

1. Start up the MRS-1044 in USB mode and connect it to the computer with a USB cable.

Verify that the online state is established.

2. Open "My Computer" and double-click on the local disk representing the MRS-1044.

The contents of the MRS-1044 hard disk are shown. Project data are stored separately in folders named "PROJxxx" (where "xxx" is the project number from 000 - 999).



Other folders and files are used by the system of the MRS-1044. Take care not to accidentally delete these. For information on the contents of the MRS-1044 hard disk, see p. 28.

The computer and MRS-1044 are now in the offline state, and you can terminate the USB connection.



In the offline state, the "USB Storage Unplug" icon should disappear from the task tray. If not, right-click on the icon and select [End of USB Storage Unplug].

3. Push the [POWER] switch of the MRS-1044.

The indication "PowrOFF ENT/EXIT" appears on the display of the MRS-1044.

4. Press the [ENTER] key of the MRS-1044.

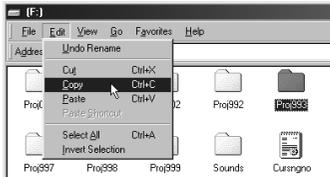
Power to the MRS-1044 is turned off. When you turn the power on again in this state, the unit starts up normally.

5. If necessary, disconnect the USB cable.

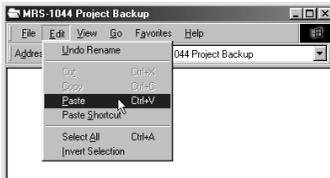


This procedure must be followed every time you wish to terminate the USB connection between the computer and the MRS-1044 to turn the MRS-1044 off.

3. Select the folder of the project you want to back up, and select [Copy] from the [Edit] menu on the menu bar.



4. Open the destination drive/folder and select [Paste] from the [Edit] menu on the menu bar.



Backup of the project data is now complete. If necessary, back up other projects in the same way.

Restoring a project

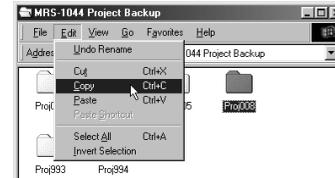
You can restore projects backed up on the hard disk of the computer to the internal hard disk of the MRS-1044.

1. Start up the MRS-1044 in USB mode and connect it to the computer with a USB cable.

Verify that the online state is established.

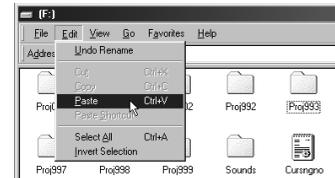
2. Open the drive/folder where the project backup data are stored.

3. Select the folder for the project you want to restore, and select [Copy] from the [Edit] menu on the menu bar.



4. Open "My Computer" and double-click on the local disk representing the MRS-1044.

5. Select [Paste] from the [Edit] menu on the menu bar.



The project is restored to the hard disk on the MRS-1044. If necessary, restore other projects in the same way. If a folder with the same name as the folder selected for restore already exists on the hard disk of the MRS-1044, the following indication appears.



If you click on the [Yes to All] button, existing data on the hard disk of the MRS-1044 will be overwritten by the restored project data. (V-take files for which no restore data are present will remain unchanged.)

Returning the MRS-1044 to the factory default condition

The supplied CD-ROM contains complete data about the factory default settings of the MRS-1044. Using the application program "Factory Recovery Tool", you can automatically copy these data to the hard disk of the MRS-1044, thereby restoring the MRS-1044 to the factory default condition.

Formatting the hard disk of the MRS-1044

Before copying data to the hard disk of the MRS-1044, the hard disk must be formatted (initialized).



- Use this function with care. When you execute the formatting process, all contents of the MRS-1044 will be lost.
- Perform formatting of the hard disk of the MRS-1044 only according to the following steps.
- Never format the hard disk of the MRS-1044 using regular Windows commands. If the hard disk was formatted by the computer as a regular hard disk, it cannot be used by the MRS-1044.

1. Verify that the MRS-1044 is turned off. While holding down the [CLEAR] key of the MRS-1044, press the [POWER] switch on the rear panel to turn the unit on.

2. Verify that "ROM UTY MRS-1044" is shown on the display of the MRS-1044, and press the [MARK] key.

After a while, the indication "Format? ENTER" appears on the display of the MRS-1044.

3. Press the [ENTER] key to execute the formatting process.

Formatting of the internal hard disk of the MRS-1044 begins. When formatting is complete, the indication "Format Done" appears on the display of the MRS-1044.



To abort the formatting, press the [POWER] switch instead of the [ENTER] key, and then press the [ENTER] key or the [EXIT] key. Formatting is canceled and the MRS-1044 is turned off.

4. When formatting is complete, press the [POWER] switch of the MRS-1044 and then the [ENTER] key.

Power to the MRS-1044 is turned off.

Using the Factory Recovery Tool

The supplied Factory Recovery Tool application program can be used to copy the factory default setting data to the hard disk of the MRS-1044.

1. Start up the MRS-1044 with formatted hard disk in USB mode, and connect it to the computer with a USB cable.

Verify that the online state is established.

2. Insert the supplied CD-ROM into the CD-ROM drive of the computer, and double-click on "My Computer".

3. Double-click on the "UIB_01_CD" icon in "My Computer".

4. Double-click on the "FactRcvr" icon.

The Factory Recovery Tool starts up.

5. Open the [FACTORY CD DRIVE] pull-down menu, and specify the CD-ROM drive letter.

6. Open the [MRS-1044 DRIVE] pull-down menu, and specify the drive letter of the MRS-1044 recognized as a local hard disk.

7. Click on the [EXECUTE] button at the right of the screen.

The data copy process starts. The copy progress is indicated by the bar under the screen.

8. When the copy process is completed, click on the [CLOSE] box.

The Factory Recovery Tool terminates.



- The copy process takes about 10 minutes. During this interval, you can abort the process by clicking on the [ABORT] button shown on the screen.
- While the data are being copied, do not operate any of the keys and switches of the MRS-1044.



- To return the MRS-1044 to the factory condition, be sure to use the Factory Recovery Tool. Simply copying the FACDAT folder to the MRS-1044 will not perform a restore, and the MRS-1044 will not operate normally.

Using the Audio File Manager

The CD-ROM supplied with the UIB-01 also contains the "Audio File Manager" application program that serves for exchanging audio data between the computer and the MRS-1044. Using this program, you can convert any V-take of the MRS-1044 into a WAV file, or convert existing WAV/AIFF files into V-takes of the MRS-1044.

This section contains a simple description of the Audio File Manager. For details on using the program, please refer to the Operation Manual that is supplied as a PDF file in the same "UTY" folder as the Audio File Manager. This software may be periodically updated without notice. To obtain the latest information, please visit the web site of Zoom Corporation (<http://www.zoom.co.jp>).

Installing the software

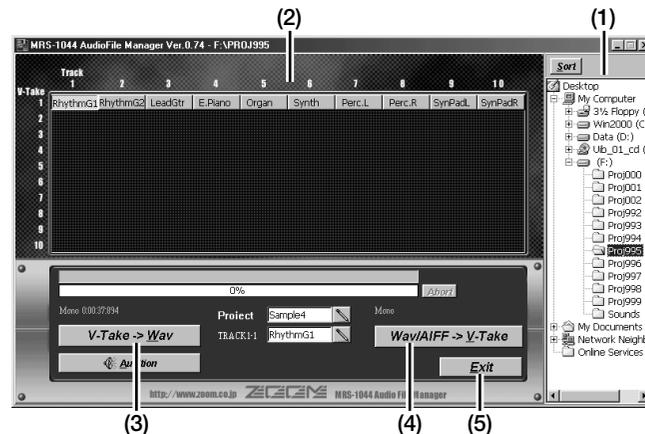
1. Insert the supplied CD-ROM into the CD-ROM drive of the computer, and double-click on the "UIB_01_CD" icon in "My Computer".
2. Click on the "UTY" folder, and select [Copy] from the [Edit] menu on the menu bar.
3. Open the destination drive/folder and select [Paste] from the [Edit] menu on the menu bar.

The "UTY" folder with the Audio File Manager is copied to the hard disk.

Starting the Audio File Manager

1. Open the copied "UTY" folder and double-click on the "TakeWave" icon.

The Audio File Manager program starts up. The program has the following main functions.



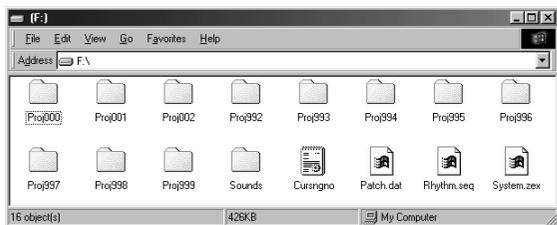
- (1) **Tree view** : Shows all drives connected to the computer as well as any network drives in a tree configuration. From this view, you can select a project in the MRS-1044.
 - (2) **Track/V-take window** : The track/V-take configuration of the currently selected project can be checked here. At V-take positions where audio data are recorded, a button with the name of the V-take is shown.
 - (3) **V-Take → Wav button** : Clicking on this button will cause the audio data of the V-take selected in the track/V-take window (2) to be exported to a WAV file (file extension: WAV).
 - (4) **Wav/AIFF → V-Take button** : Clicking on this button will cause the audio data of a WAV file (file extension: WAV) or AIFF file (file extension: AIF) to be imported to the V-take selected in the track/V-take window (2).
 - (5) **Exit button** : Shuts down the Audio File Manager program.
2. To terminate the Audio File Manager, click on the [Exit] button.

Reference Information

MRS-1044 hard disk contents

This section describes the contents of the internal hard disk of the MRS-1044 that can be checked from the computer.

Open "My Computer" and double-click on the MRS-1044 recognized as local hard disk. This will display the contents of the disk.



The various files and folders are as follows.

● PROJxxx folders

Data for each project are stored in folders named according to this convention. The "xxx" part stands for the project number from 000 - 999. A project folder contains the following files.

MRKSCENE.INI : Marker and scene setting data

PATCH.DAT : Effect patch setting data

RHYTHM.SEQ : Rhythm song and rhythm pattern data

*.DAT : Individual track/V-take audio data

SONGDATA.INI : Other setting data

● SOUNDS folder

This folder contains drum kit and bass program data. The folder comprises the following files.

*.DRM : Drum kit sound data

*.BAS : Bass program sound data

● SYSTEM.ZEX file

MRS-1044 system file

● CURSNGNO.INI file

Last edited project number data

● PATCH.DAT file

Effect patch data used for new projects

● RHYTHM.SEQ file

Rhythm pattern and rhythm song data used for new projects



- Except for projects, do not unnecessarily delete or overwrite files or folders. Otherwise the MRS-1044 may cease to function properly.
- Never alter the names of folders or files except for projects. Project folders must be named according to the "PROJxxx" convention (where the "xxx" part is the project number from 000 - 999). If the folder has a different name, it will not be recognized as a MRS-1044 project.

Contents of the supplied CD-ROM

This section lists the contents of the supplied CD-ROM. You can display the contents by inserting the supplied CD-ROM into the CD-ROM drive of the computer, opening "My Computer" and double-clicking on the "UIB_01_CD" icon.



The contents of the folders and files on the CD-ROM is as follows.

- **FACDAT folder**

This folder contains the data for returning the MRS-1044 to the factory default settings.

- **UTY folder**

This folder contains the "Audio File Manager" software for exchanging audio data between the computer and the MRS-1044. For information on use of the software, see p.26.

- **FACTRCVR file**

This is the software for copying the data in the FACDAT folder to the hard disk of the MRS-1044 (Factory Recovery Tool). For information on use of the software, see p.25.

- **UNINST file**

This is the software for uninstalling the installed driver. To uninstall, double-click on this file and follow the instructions that appear on the screen.

- **Other files**

These are various files and software components installed together with the driver.

The software and other files included on the supplied CD-ROM may be periodically updated without notice. To obtain the latest information, please visit the web site of Zoom Corporation (<http://www.zoom.co.jp>).

Troubleshooting

If installation of the UIB-01 does not seem to have been successful, or if there are problems during operation, check the following points first.

- **Computer and UIB-01 (MRS-1044) are connected by USB cable, but "Add (Found) New Hardware Wizard" does not appear on the screen.**

- Check whether "USB WORKING" is shown on the display of the MRS-1044, indicating that it is functioning as a USB device.
- Check whether the USB cable has been connected properly. If yes, unplug the USB cable and then plug it in again.
- If the driver has already been installed, the "Add (Found) New Hardware Wizard" screen will not appear.

- **The hard disk of the MRS-1044 is not recognized by the computer.**

- Check whether "USB WORKING" is shown on the display of the MRS-1044, indicating that it is functioning as a USB device.
- Check whether the USB cable has been connected properly. If yes, unplug the USB cable and then plug it in again.
- Use the uninstaller on the supplied CD-ROM (file name: UNINST → p.30) to uninstall the driver and then install the driver once more.

- **When USB cable is unplugged, computer operation becomes instable.**

If the connection is interrupted without first setting the computer and MRS-1044 to the off-line state, computer operation may become instable. Before interrupting the connection, be sure to set the devices to the offline state (→ p.19.)

- **A disk utility of the computer detects errors on the hard disk of the MRS-1044.**

Utilities such as Scandisk may detect apparent errors even if there is in fact no problem with the hard disk of the MRS-1044. There is no need for repair or other countermeasures.



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