EDIROL
by **Roland**

USB AUDIO INTERFACE
UA-1EX

Owner's Manual
Bedienungsanleitung
Mode d'emploi
Manuale d'uso
Manual del usuario

Thank you, and congratulations on your choice of the UA-1EX USB Audio Interface.

Before using this unit, carefully read the sections entitled: "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (p. 2; p. 4). These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, Owner's manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.

USING THE UNIT SAFELY

INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About ⚠ WARNING and ⚠ CAUTION Notices

⚠ **WARNING**	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.
⚠ **CAUTION**	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly.
	* Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well as to domestic animals or pets.

About the Symbols

⚠	The △ symbol alerts the user to important instructions or warnings.The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger.
⊗	The ◯ symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled.
●	The ● symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.

- **ALWAYS OBSERVE THE FOLLOWING** -

⚠ WARNING

- Before using this unit, make sure to read the instructions below, and the Owner's Manual.

....

- Do not open or perform any internal modifications on the unit.

....

- Do not attempt to repair the unit, or replace parts within it (except when this manual provides specific instructions directing you to do so). Refer all servicing to your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.

....

⚠ WARNING

- Never use or store the unit in places that are:
  - Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are
  - Damp (e.g., baths, washrooms, on wet floors); or are
  - Humid; or are
  - Exposed to rain; or are
  - Dusty; or are
  - Subject to high levels of vibration.

⚠ WARNING

- Make sure you always have the unit placed so it is level and sure to remain stable. Never place it on stands that could wobble, or on inclined surfaces.

....

- This unit, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level, or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should immediately stop using the unit, and consult an audiologist.

....

- Do not allow any objects (e.g., flammable material, coins, pins); or liquids of any kind (water, soft drinks, etc.) to penetrate the unit.

....

- Immediately disconnect the USB cable, and request servicing by your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page when:
  - If smoke or unusual odor occurs
  - Objects have fallen into, or liquid has been spilled onto the unit; or
  - The unit has been exposed to rain (or otherwise has become wet); or
  - The unit does not appear to operate normally or exhibits a marked change in performance.

....

⚠ WARNING

- In households with small children, an adult should provide supervision until the child is capable of following all the rules essential for the safe operation of the unit.

....

- Protect the unit from strong impact. (Do not drop it!)

....

- DO NOT play a CD-ROM disc on a conventional audio CD player. The resulting sound may be of a level that could cause permanent hearing loss. Damage to speakers or other system components may result.

....

⚠ CAUTION

- Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children.

....

- Never climb on top of, nor place heavy objects on the unit.

....

- Disconnect all cords coming from external devices before moving the unit.

....

3

IMPORTANT NOTES

In addition to the items listed under "USING THE UNIT SAFELY" on pages 2 and 3, please read and observe the following:

Placement

• Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference.

• This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.

• Noise may be produced if wireless communications devices, such as cell phones, are operated in the vicinity of this unit. Such noise could occur when receiving or initiating a call, or while conversing. Should you experience such problems, you should relocate such wireless devices so they are at a greater distance from this unit, or switch them off.

• Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Excessive heat can deform or discolor the unit.

• When moved from one location to another where the temperature and/or humidity is very different, water droplets (condensation) may form inside the unit. Damage or malfunction may result if you attempt to use the unit in this condition. Therefore, before using the unit, you must allow it to stand for several hours, until the condensation has completely evaporated.

Maintenance

• For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a cloth impregnated with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.

• Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

Additional Precautions

• Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.

• When connecting / disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.

• To avoid disturbing your neighbors, try to keep the unit's volume at reasonable levels. You may prefer to use headphones, so you do not need to be concerned about those around you (especially when it is late at night).

• When you need to transport the unit, package it in the case that it came in, if possible. Otherwise, you will need to use equivalent packaging materials.

- Use a cable from Roland to make the connection. If using some other make of connection cable, please note the following precautions.
  - Some connection cables contain resistors. Do not use cables that incorporate resistors for connecting to this unit. The use of such cables can cause the sound level to be extremely low, or impossible to hear. For information on cable specifications, contact the manufacturer of the cable.

Handling CD-ROMs

- Avoid touching or scratching the shiny underside (encoded surface) of the disc. Damaged or dirty CD-ROM discs may not be read properly. Keep your discs clean using a commercially available CD cleaner.

Contents

Deutsch

Français

8

Contents of the Package

The UA-1EX includes the following items. When you open the package, first make sure that all items are included. If any are missing, contact the dealer where you purchased the UA-1EX.

USB Audio Interface UA-1EX
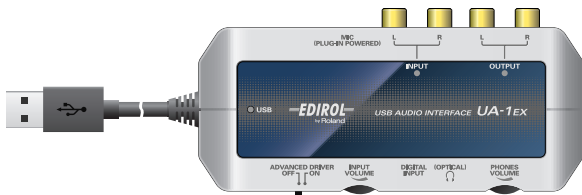
CD-ROM

This contains drivers for using the UA-1EX in Advanced mode.

* *Be careful not to touch or scratch the recorded surface (unprinted surface) of the disc. Doing so may render the disc unreadable. If the disc gets dirty, use a commercially available CD cleaner to clean it.*

* *Do not play back the CD-ROM in a conventional audio CD player. Doing so may produce high-volume sound that can damage your hearing and/or speakers.*

Owner's Manual

This is the manual you are reading. Please keep it on hand for reference.

■ **You'll need to provide the following items**

An external amp, speakers, headphones, microphone, and MD or DAT recorder are not included.

The external amp, speakers, or headphones you'll need in order to hear the sound that is output by the UA-1EX are not included. Also not included are a microphone or an MD or DAT recorder, which you'll need in order to input sound to the UA-1EX. You will need to provide these items separately.

Audio cables for line input/output and digital input/output cables are not included.

The cables you will need to connect the UA-1EX to your audio equipment are not included. You will need to provide these separately.

Names of Things and What They Do
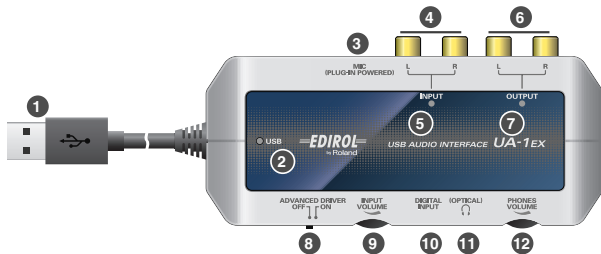
1 USB cable
Connect this to your computer so that audio signals can be transferred.

2 USB Indicator
After the UA-1EX is connected to your computer and your computer has recognized the UA-1EX, this indicator will light.

3 Mic input jack (plug-in powered mic)
Connect a miniature condenser microphone that is designed for connection to a computer or other device that will supply power to the microphone. This jack provides a 3.3 V power supply.
Use the **Input volume** 9 to adjust the volume.
* *You must use a monaural microphone that is designed for plug-in power.*

4 Line input jacks
Connect these when you want to input audio from an audio device or MIDI sound module.
Use the **Input volume** 9 to adjust the volume.

5 Input indicator
This will light when an audio signal is received from the **mic input jack** 3 or the **line input jacks** 4 .

6 Line output jacks
Connect these jacks to your audio system, such as amplified speakers or a stereo set.
* *The volume of the audio output from these jacks cannot be adjusted on the UA-1EX itself. Volume adjustments must be made on the audio device to which the UA-1EX is connected.*

11

⓻ Output indicator

This will light when an audio signal (sound) is being output from the **line output jacks** ⓺ or the **headphone jack** ⓫ .

⓼ ADVANCED (mode select) switch

This switches the driver mode. **Normally, you should leave this ON**.

ON (Advanced mode)	This mode uses a dedicated audio driver created specifically for the UA-1EX. Use this mode when you want to use your sequencer software or audio editing software to record, play, or edit audio with high quality and stable timing.
OFF (Standard driver mode)	This mode uses the standard audio driver provided by the operating system. Use this mode when you want to use software that utilizes the functionality specific to your operating system.

* If you change this setting, you must disconnect the UA-1EX from the computer and then reconnect it.

⓽ Input volume

This adjusts the volume of the audio signal (sound) that is being input to the **mic input jack** ⓷ and **line input jacks** ⓸ .

⓾ Digital input connector (optical)

Connect this when you want to input digital audio from an audio device such as a CD/MD/DAT. Use an optical digital cable for connection.

⓫ Digital output connector (optical) / Headphone jack

The same jacks serves as both the headphone jack and digital output connector.
• You can connect an optical cable here, and output an audio signal in digital form to an MD recorder or other digital audio device.
• You can connect headphones here. Even if headphones are connected, sound will still be output from the **Line output jacks** ⓺

Optical

These are digital input/output jacks for connecting optical cables. Digital input/output jacks for connecting coaxial cables are labeled Coaxial.

⓬ Headphones volume

This adjusts the volume that is output from the **Headphone jack** ⓫ .

** You can't adjust the volume that is output from the **digital output connector** and **line output jacks**.*

12
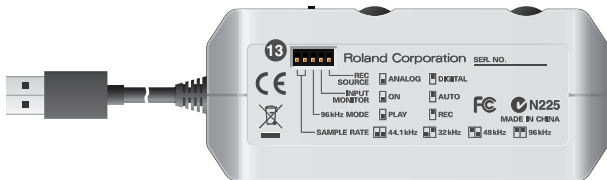
⑬ Setting select switches

These are miniature switches that you can slide up or down to make various settings.

● **Sampling frequency select switch**

 SAMPLE RATE ▟▟ 44.1 kHz ▟▛ 32 kHz ▜▟ 48 kHz ▜▜ 96 kHz

This selects the sampling frequency for recording/playing audio data.

If you've changed the sampling frequency, disconnect the UA-1EX, and then reconnect it.

44.1kHz	Switch A set to the lower position Switch B set to the lower position	Record/play at 44.1 kHz
32kHz	Switch A set to the lower position Switch B set to the upper position	Record/play at 32 kHz
48kHz	Switch A set to the upper position Switch B set to the lower position	Record/play at 48 kHz
96kHz	Switch A set to the upper position Switch B set to the upper position	Record or play at 96 kHz

● **96 kHz play/record select switch**

 96 kHz MODE ▟ PLAY ▜ REC

If the sampling frequency is set to 96 kHz, you can either record or play back (not both). Set this switch to choose either recording or playback.

If you've changed setting, disconnect the UA-1EX, and then reconnect it.

PLAY	Switch set to the lower position	Playback is selected.
REC	Switch set to the upper position	Recording is selected. *You won't be able to play back sound from the computer.*

13

● **Input monitor switch**

 INPUT MONITOR   ☐ ON   ☐ AUTO
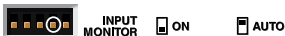
This selects whether or not the audio signals that are input through the **mic input jack** ❸ , **digital input connector** ❿ , and **Line input jacks** ❹ will be output to the **headphone jack** ⓫ and **Line output jacks** ❻ .

ON	Switch set to the lower position	The audio signal being received will be output to the Headphone jack and the Line output jacks.
AUTO (OFF)	Switch set to the upper position	Input monitoring will be switched on/off from your ASIO2.0 compatible sequencer software.(➔**"Using ASIO Direct Monitor (Windows/Mac OS 9)"** (p. 43)) * *The input signal will not be output if you're not using the ASIO driver.*

* *If the recording source select switch is set to DIGITAL, input monitoring will always be ON regardless of the setting of this switch.*

● **Recording source select switch**

 REC SOURCE   ☐ ANALOG   ☐ DIGITAL

This selects the input signal that will be sent via USB to your computer as the recording source.

ANALOG	Switch set to the lower position	The analog audio signal from the mic input jack or line input jacks will be sent to your computer.
DIGITAL	Switch set to the upper position	The sound from the digital input connector will be sent to the computer. * *If the DIGITAL position is selected, and no input signal is being sent to the digital input connector, the audio signal (sound) being output from the computer via USB will pass through the UA-1EX and then return to the computer.*

* *If the recording source select switch is set to DIGITAL and a digital signal is being input to the Digital input connector, audio data from the computer cannot be played back.*

14

Getting Connected and Installing Drivers (Windows)

About the Driver Modes

What is a driver?

A **"driver"** is software that transfers data between the UA-1EX and application software running on your computer, when your computer and the UA-1EX are connected. The driver sends data from your application to the UA-1EX, and from the UA-1EX to your application.

About the driver modes

The UA-1EX has two operating modes, **Advanced mode** and **Standard driver mode**, and a different driver is used by each mode.

ON (Advanced mode)	This mode uses a dedicated audio driver created specifically for the UA-1EX. When this dedicated driver is used, you can record/play/edit audio with high quality and stable timing. **Normally, you should use Advanced Mode.** In **Advanced mode**, audio signals can be transferred between the UA-1EX and the computer at a resolution of **16/24 bits** and sampling frequencies of **32/44.1/48/96 kHz**. Choose **Advanced mode** if you are using sequencer software that supports 96 kHz or 24-bit audio, such as the Cakewalk series; or ASIO-compatible sequencer software that can record, play, and edit high-quality audio, such as Cubase VST or Logic. (→**"Installing the Driver"** (p. 16)).
OFF (Standard driver mode)	This mode uses the standard USB audio driver provided by Windows. You can use this mode without installing the dedicated driver. In **Standard driver mode**, audio signals are transferred between the UA-1EX and the computer at a resolution of **16 bits** and sampling frequencies of **32/44.1/48 kHz**. Choose this mode if you are using sequencer software that uses Window's own functionality, such as sequencer software that uses the CD-ROM drive of your computer to play CD audio, or that uses the software synthesizer included with Windows. (→**"Installing the OS-Standard Driver"** (p. 45)). * *The driver included with Windows does not support ASIO.* * *Standard driver mode does not support 96 kHz or 24-bit. If you want to use 96 kHz or 24-bit audio, turn the ADVANCED (mode select) switch ON.*

Installing the Driver

The installation procedure will differ depending on your system.
Please proceed to one of the following sections, depending on the system you use.

- Windows XP/2000 users.. (p. 16)
- Windows Me/98 users.. (p. 21)

Steps to be performed on the UA-1EX itself are marked by a `Operation of the UA-1EX` symbol.

Windows XP/2000 users

1. With the UA-1EX left unconnected, start up Windows.
Do not connect the UA-1EX to the computer until you reach Step 13 (p. 18).

   * *Disconnect all USB cables except for a USB keyboard and USB mouse (if used).*

   * *Log onto Windows using a user name that has administrative privileges (such as Administrator).*

2. Open the **System Properties** dialog box.

   ### Windows XP users

   1. Click the Windows **start** menu, and from the menu, select **Control Panel**.
   2. In **"Pick a category,"** click **"Performance and Maintenance."**
   3. In **"or pick a Control Panel icon,"** click the **System** icon.
   Depending on your setup, the **System** icon may appear directly in the **Control Panel** (Classic view). If so, double-click the **System** icon.

   ### Windows 2000 users

   1. Click the Windows **Start** menu, and from the menu that appears, select **Settings | Control Panel**.
   2. In **Control Panel**, double-click the **System** icon.
   3. Click the **Hardware** tab, then click **[Driver Signing]**.
   The **Driver Signing Options** dialog box will open.
   4. In the **Driver Signing Options** dialog box, select **"Ignore,"** then click **[OK]**.
   If the current setting is "Warn" or "Block," change this to **"Ignore."** Then, when you've finished installing the driver, change it back to the original setting.

5. Click **[OK]** to close the **System Properties** dialog box.

6. Exit all currently running software (applications).
Also close any currently open windows. If you are using virus checking or similar software, you must exit all of these programs as well.

7. Prepare the CD-ROM.
Insert the CD-ROM into your computer's CD-ROM drive.
If the message **"Windows can perform the same action each time you insert a disk or connect a device with this kind of file"** appears, **[Cancel]**.

8. From the Windows **start** menu, choose **Run...**.
The **"Run..."** dialog box will appear.

9. In the **Open** field of the **Run** dialog box, type the following and click **[OK]**.

   D: \Driver\XP2k\setup.exe

   * *The drive name is "D:" in the example shown here, but may be different on your system. Use the drive name for your CD-ROM drive.*

10. The **Driver Setup** dialog box will appear.
Click **[Next]**.

11. To begin the installation, click **[Next]** once again. Installation will begin.

   Windows XP users

   If **"Driver Signing Options"** in step 4 is set to anything other than **"Ignore,"** a dialog box with an **"!"** or **"x"** symbol will appear. If a **[Continue Anyway]** button is displayed, click **[Continue Anyway]** to proceed with the installation. If you are unable to continue, click **[OK]** and repeat the driver installation from step 1.

   Windows 2000 users

   If **"Driver Signing Options"** in step 4 is set to anything other than **"Ignore,"** a dialog box indicating **"Digital Signature Not Found"** will appear. If a **[Yes]** button is displayed, click **[Yes]** to proceed with the installation. If you are unable to continue, click **[OK]** and repeat the driver installation from step 1.

   The **"Setup is now ready to install the drivers"** dialog box will appear.

12. `Operation of the UA-1EX` Set the UA-1EX's **ADVANCED (mode select) switch** to **ON**.

   * *The driver cannot be installed by means of the following procedure if the switch is set to OFF.*

17

13. `Operation of the UA-1EX` Connect the UA-1EX to your computer.

A message of **"Found New Hardware"** will appear. Please wait.

* *This unit is equipped with a protection circuit. A brief interval (a few seconds) after connecting the UA-1EX is required before the unit will operate normally.*

Windows XP users

  1. The **Found New Hardware Wizard** dialog box will appear.
  If the message **"Connect to Windows Update to search for software?"** appears, choose **"No"** and then click **[Next]**.

  2. Make sure that **"EDIROL UA-1EX"** is indicated. Then, choose **"Install the software automatically (Recommended) "** and click **[Next]**.
  If **"Driver Signing Options"** in step 4 is set to anything other than **"Ignore,"** a dialog box with an **"!"** symbol will appear. Click **[Continue Anyway]** to proceed with the installation.

Windows 2000 users

  If **"Driver Signing Options"** in step 4 is set to anything other than **"Ignore,"** a dialog box indicating **"Digital Signature Not Found"** will appear. Click **[Yes]** to proceed with the installation.

14. The **Completing the Found New Hardware Wizard** dialog box will appear.
Click **[Finish]**.

15. In the **Driver Setup** dialog box, click **[Close]**.

This completes driver installation.
If the **Change System Settings** dialog box appears, click **[Yes]**. Windows will restart automatically.

* *If you changed the **"Driver Signing Options"** setting in step 4, restore the original settings after Windows has restarted.*

Next, in order to ensure that audio processing occurs smoothly, you need to make settings so that Background Services is given priority.
(➔ **"Giving priority to Background Services"** (p. 19))

■ Giving priority to Background Services

If you don't make this setting, you may experience problems such as clicks or pops in the sound.
To ensure that audio data is handled smoothly, proceed as follows to make this setting.

Windows XP users

1. Open the **System Properties** dialog box.

   1. From the Windows **start** menu, choose **Control Panel**.

   2. In **"Pick a category,"** click **"Performance and Maintenance."**

   3. In **"or Pick a Control Panel icon,"** click the **System** icon.
      Depending on your setup, the **System** icon may appear directly in the **Control Panel** (Classic view). If so, double-click the **System** icon.

2. Click the **Advanced** tab.

3. In the right side of the **Performance** area, click **[Settings]**.
   The **Performance Options** dialog box will open.

4. Click the **Advanced** tab.

5. In the **Processor Scheduling** area, choose
   "Background services," and click **[OK]**.
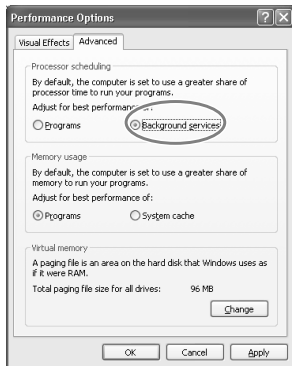
6. In the **System Properties** dialog box, click **[OK]**.
   The **System Properties** dialog box will close.

   Next, you'll make the driver settings. (→ **"Driver Settings"** (p. 22))

19

Windows 2000 users

1. Click the Windows **Start** menu, and from the menu that appears, select **Settings** | **Control Panel**.
2. In **Control Panel**, double-click the **System** icon.
3. Click the **Advanced** tab.
4. Click **[Performance Options]**.
   The **Performance Options** dialog box will appear.
5. Choose **"Background services"** and click **[OK]**.

Performance Options
Application response
Optimize performance for:
○ Applications   ⦿ Background services
Virtual memory
Total paging file size for all drives: 96 MB
Change...
OK   Cancel
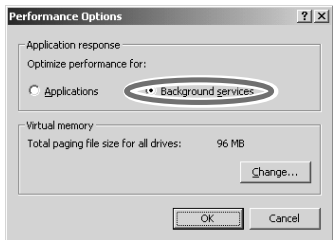
6. Click **[OK]** to close the **System Properties** dialog box.
   The **System Properties** dialog box will close.

   Next, you'll make the driver settings. (➔**"Driver Settings"** (p. 22))

Windows Me/98 users

1. With the UA-1EX left unconnected, start up Windows.
   Do not connect the UA-1EX to the computer until you reach Step 9.

2. Exit all currently running software.
   Also close any open windows. If you are using virus checking or similar software, be sure to exit it as well.

3. Prepare the CD-ROM.
   Insert the CD-ROM into the CD-ROM drive of your computer.

4. Click the Windows **Start** menu. From the menu that appears, select **Run...**.
   The **"Run..."** dialog box will appear.

5. In the dialog box that appears, input the following into the **"Open"** field, and click **[OK]**.
   D: \Driver\Me98\setup.exe

   * *The drive name is "D:" in the example shown here, but may be different on your system. Use the drive name for your CD-ROM drive.*

6. The **Driver Setup** dialog box will appear. Click **[Next]**.

7. To begin the installation, click **[Next]** once again. Installation will begin.
   The **"Setup is now ready to install the drivers"** dialog box will appear.

8. Operation of the UA-1EX Set the UA-1EX's **ADVANCED (mode select) switch** to the **ON** position.

   * *The driver cannot be installed by means of the following procedure if the switch is set to OFF.*

9. Operation of the UA-1EX Connect the UA-1EX to your computer.
   A message of **"Found New Hardware"** will appear. Please wait.

   * *This unit is equipped with a protection circuit. A brief interval (a few seconds) after connecting the UA-1EX is required before the unit will operate normally.*

10. In the **Driver Setup** dialog box, click **[Close]**.

    Next, you'll make the driver settings. (→**"Driver Settings"** (p. 22))

Driver Settings

In order to get the best performance from the software you are using, you must choose the correct device settings.

About the input and output devices

Output device
EDIROL UA-1EX
This sends the audio signal from the computer to the UA-1EX. This is what you will normally use, for example when using the UA-1EX with an sequencer software such as Media Player. You will also use this when using an sequencer software such as SONAR in WDM driver mode, or when using a DirectSound software.
Input device
EDIROL UA-1EX
This receives the audio signal that is sent from the UA-1EX itself to the computer. This is what you will normally use, for example when using the UA-1EX with an sequencer software such as Media Player. You will also use this when using an sequencer software such as SONAR in WDM driver mode.
ASIO device
EDIROL UA-1EX
Use this if you are using the UA-1EX with an ASIO-compatible sequencer software such as Cubase. In the ASIO settings of your sequencer software, choose "EDIROL UA-1EX."
* To prevent audio loop feedback or double monitoring, turn monitoring off in your sequencer software, or set your sequencer software to use ASIO Direct Monitor.*

Input/output device setting

Windows XP users

1. Open the **Sound, Speech, and Audio Devices Properties** dialog box.
   1. From the Windows **start** menu, choose **Control Panel**.
   2. In **"Pick a category,"** click **Sound, Speech, and Audio Devices**.
   3. In **"or Pick a Control Panel icon,"** click the **Sounds and Audio Devices** icon.
2. Click the **Audio** tab.
3. For **Sound playback** and **Sound recording,** click the ▼ located at the right of **[Default device]**, and select **EDIROL UA-1EX**.
4. Click **[OK]** to complete the settings.

Windows 2000/Me users

1. Open the **Sounds and Multimedia Properties** dialog box
   1. Click the Windows **Start** button, and from the menu that appears, select **Settings | Control Panel**.
   2. In **Control Panel**, double-click the **Sounds and Multimedia** icon.
      If the **Sound and Multimedia** icon is not displayed, click **"Show all control panel options"** in the frame at the left.
2. Click the **Audio** tab.
3. For **Sound Playback** (or in Windows Me, **Playback**) and **Sound Recording**, click the ▼ located at the right of **[Preferred device]**, and select **EDIROL UA-1EX**.
4. Click **[OK]** to complete the settings.

Windows 98 users

1. Open the **Multimedia Properties** dialog box.
   1. Click the Windows **Start** button, and from the menu that appears, select **Settings | Control Panel**.
   2. In **Control Panel**, double-click the **Multimedia** icon.
2. Click the **Audio** tab.
3. For **Playback** field and **Recording**, click the ▼ located at the right of **[Preferred device]**, and select **EDIROL UA-1EX**.
4. Click **[OK]** to complete the settings.

This completes the audio input/output settings.
Proceed to **"Checking that you hear sound"** (p. 25).

Sequencer software settings

Before you start up your sequencer software, connect the UA-1EX to your computer.
If your sequencer software allows you to specify audio input/output settings, choose **EDIROL UA-1EX**. For details, refer to the owner's manual for your sequencer software.

Checking that you hear sound

Now let's play back the sample data to verify that the connections and the settings are correct. In order to hear the sample data, you will need approximately 30 MB of free space on the hard disk in which Windows is installed.

You can connect headphones and/or monitor speakers as shown in the diagram, and monitor the playback of your sequencer software.

Stereo set,
Monitor speakers, etc.

LINE IN, AUX IN

Audio cable

Computer

Signal flow

Headphones

NOTE
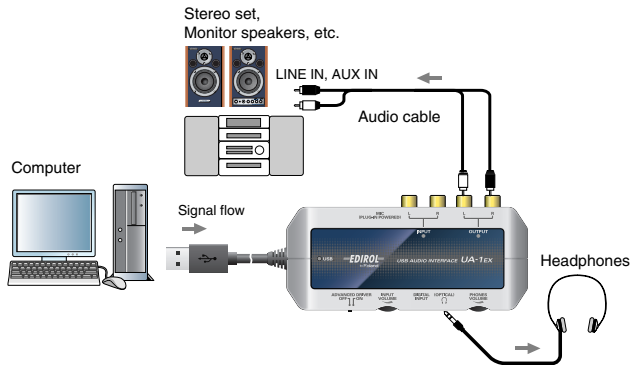
As soon as you connect the UA-1EX to your computer, sound will no longer be output from the speakers of your computer.

- Connect an external monitor system or headphones to the UA-1EX.
- If you want sound to be output from the speakers of your computer, disconnect the UA-1EX from your computer.

■ Playing back the sample data

We will use standard Windows functionality to play back the sample data provided on the included CD-ROM.

*   *Use of the song data supplied with this product for any purpose other than private, personal enjoyment without the permission of the copyright holder is prohibited by law. Additionally, this data must not be copied, nor used in a secondary copyrighted work without the permission of the copyright holder.*

1. Insert the included CD-ROM into the CD-ROM drive of your computer.

2. From the **Sample** folder of the CD-ROM, drag **Alright(.wav)** to your desktop, copying it.

3. Set the UA-1EX's **Sampling frequency select switch** to **44.1kHz**.

*   *If you've changed the sampling frequency, disconnect the UA-1EX, and then reconnect it.*

4. Right-click the copied file **Alright(.wav)**.

Windows XP/2000 users
1. From the menu that appears, choose **Play**.

Windows Me/98 users
1. From the menu that appears, choose **Properties**.
2. Click the **Preview** tab, and then click the ▶ button.

Playback begins.

*   *If the UA-1EX is connected to your computer, sound will not be output from the speakers of your computer, but rather from headphones or speakers connected to the UA-1EX's headphone jack or line output jacks.*
*   *If the record source select switch is set to DIGITAL and a digital signal is being received at the digital input connector, audio data from the computer cannot be played back. Please set the switch to ANALOG.*
*   *If it did not play back correctly, refer to* *to determine the reason. This section contains information on how to solve problems such as no sound, or failure to play back correctly.*

> **Was the sample data played back?**
> If it was played back correctly, this means that the computer and the UA-1EX are connected correctly, and that the drivers have been installed correctly.

Getting Connected and Installing Drivers (Macintosh)

About the Driver Modes

What is a driver?

A **"driver"** is software that transfers data between the UA-1EX and application software running on your computer, when your computer and the UA-1EX are connected. The driver sends data from your application to the UA-1EX, and from the UA-1EX to your application.

About the driver modes

The UA-1EX has two operating modes, **Advanced mode** and **Standard driver mode**, and a different driver is used by each mode.

ON (Advanced mode)	This mode uses a dedicated audio driver created specifically for the UA-1EX. When this dedicated driver is used, you can record/play/edit audio with high quality and stable timing. **Normally, you should use Advanced Mode.** In **Advanced mode**, audio signals can be transferred between the UA-1EX and the computer at a resolution of **16/24 bits** and sampling frequencies of **44.1/48/96 kHz**. Choose **Advanced mode** if you are using software that supports 24-bit or 96 kHz audio such as the Cubase VST or Logic; or ASIO-compatible software that can record, play, and edit high-quality audio, such as Cubase VST or Logic. **Normally, you should use Advanced mode. (→"Installing the Driver"** (p. 16)).
OFF (Standard driver mode)	This mode uses the standard USB audio driver provided by Macintosh. You can use this mode without installing the dedicated driver. In **Standard driver mode**, audio signals are transferred between the UA-1EX and the computer at a resolution of **16 bits** and sampling frequencies of **32/44.1/48 kHz**. Choose this mode if you are using software that uses Mac OS's own functionality, such as software that uses the CD-ROM drive of your computer to play CD audio, or that uses the software synthesizer included with Mac OS. (→**"Installing the OS-Standard Driver"** (p. 45)). * *The driver included with Mac OS does not support ASIO.* * *Standard driver mode does not support 96 kHz or 24-bit. If you want to use 96 kHz or 24-bit audio, turn the ADVANCED (mode select) switch ON.*

Mac OS X Users

Steps to be performed on the UA-1EX itself are marked by a **Operation of the UA-1EX** symbol.

Installing the driver

* *If the **"Authenticate"** dialog box appears during the installation, input the password and click **"OK."***
* *What you actually see on your computer screen may be different, depending on your computing environment and the operating system you're using.*

1. With the UA-1EX disconnected, start up the Macintosh.
* *Disconnect all USB cables except for a USB keyboard and USB mouse (if used).*

2. Exit all currently running software (applications).
If you are using virus checking or similar software, be sure to exit it as well.

3. Prepare the CD-ROM.
Insert the CD-ROM into the CD-ROM drive of your Macintosh.

4. In the **Driver (Mac OS X)** folder of the CD-ROM, double-click **UA1EXUSBDriver.pkg**.
* *A message such as **"This Installer package needs to..."** may appear.*
  *Click **"Continue."***

5. The display will indicate **"Welcome to the EDIROL UA-1EX Driver Installer."**
Click **[Continue]**.

6. The display will indicate **"Select a Destination."**
Click the drive in which the operating system is installed to select it, and then click **[Continue]**.
* *Select your startup disk as the drive.*

7. The display will indicate **"Easy Install."**
Click **[Install]** or **[Upgrade]**.

8. The display will indicate **"Installing this software requires you to restart your computer when the installation is done."**
Click **[Continue Installation]**.

9. The display will indicate **"The software was successfully installed."**
Click **[Restart]** to restart your computer.

This completes installation of the UA-1EX driver.
Next, make audio device settings. (→**"Input/output device settings"** (p. 29))

Input/output device settings

If you want to use the UA-1EX with the iTunes sequencer software included with your Macintosh, specify the input/output devices as follows.
The procedure for making device settings differs depending on the sequencer software you are using. For details, refer to the owner's manual for your software.

* *What you actually see on your computer screen may be different, depending on your computing environment and the operating system you're using.*

1. **Operation of the UA-1EX** Set the UA-1EX's **ADVANCED (mode select) switch** to **ON**.
* *The driver cannot be installed by means of the following procedure if the switch is set to OFF.*

2. **Operation of the UA-1EX** Connect the UA-1EX to your Macintosh.
* *This unit is equipped with a protection circuit. A brief interval (a few seconds) after connecting the UA-1EX is required before the unit will operate normally.*

3. Open **"System Preferences"** and click **"Sound."**

4. In the **Sound Effects** tab, set **"Play alerts and sound effects through"** to **"EDIROL UA-1EX 44.1 kHz."**
* *Although **"44.1 kHz"** is used for the purpose of explanation within this document, this changes depending on the actual setting of the **Sampling frequency select switch** on your UA-1EX.*

5. In the **Output** tab, set **"Choose a device for sound output"** to **"EDIROL UA-1EX 44.1 kHz."**
* *If you want sound to be output from the speakers of your Macintosh, disconnect the UA-1EX from your Macintosh.*

6. In the **Input** tab, set **"Choose a device for sound input"** to **"EDIROL UA-1EX 44.1 kHz."**

7. When you have finished making settings, close the dialog box.

Before you use your sequencer software with the UA-1EX, please note the following

* Before you start up your sequencer software, connect the UA-1EX with your computer.
* Do not disconnect the UA-1EX while your sequencer software is running.
  Close your sequencer software before you unplug the UA-1EX.
* The UA-1EX will not work in the Classic environment of Mac OS X. Use it when the Classic environment is not running.
* For details on how to make settings for your sequencer software, you should also refer to the owner's manual for your sequencer software.

This completes the audio input/output settings.
Proceed to **"Checking that you hear sound"** (p. 32).

Mac OS 9 Users

Installing the UA-1EX driver

1. With the UA-1EX disconnected, start up the Macintosh.
   * *Disconnect all USB cables except for a USB keyboard and USB mouse (if used).*

2. Exit all currently running software (applications).
   If you are using virus checking or similar software, be sure to exit it as well.

3. Prepare the CD-ROM.
   Insert the CD-ROM into the CD-ROM drive of your Macintosh.

4. Double-click the **UA-1EX Driver-E Installer** icon (found in the **Driver E (Mac OS 9)** folder of the CD-ROM) to start up the installer.

5. Verify the **Install Location**, and click **[Install]**.
   * *The installation location will be shown differently depending on your system. Make sure that you have selected the startup disk for the system you are currently using.*

6. If a message like the following is displayed, click **[Continue]**.
   The other currently running applications will exit, and installation will continue.

> This installation requires your computer to restart after installing this software. Click Continue to automatically quit all other running applications. Click Cancel to leave your disks untouched.
>
> Cancel   Continue

7. A dialog box will indicate **Installation was successful.**
   Click **[Restart]** to restart your Macintosh.

Installing the ASIO driver

> **ASIO**
> This is an audio interface standard promoted by the Steinberg Corporation. When the UA-1EX is used with ASIO-compatible software, the synchronization precision will be improved, allowing a more sophisticated music production environment.

This section explains how to install the ASIO driver that allows the UA-1EX to be used by your sequencer software or audio editing software.

For details on installation and settings of the ASIO driver, be sure to also read the **Driver E (Mac OS 9) - Readme_E.htm** document on the CD-ROM.

* *The UA-1EX cannot play back audio data from the Macintosh's sound manager (such as audio CDs and alert sounds)*

The ASIO driver of the UA-1EX supports the following audio input/output channels.

- Audio input   24/16 bit 1 stereo ch. (2 monaural chs.)
- Audio output   24/16 bit 1 stereo ch. (2 monaural chs.)

If your ASIO-compatible software supports ASIO 2.0 or recording/playback of 24 bit audio data, using the following drivers will provide a higher quality environment.

ASIO-compatible software		Driver to use
ASIO2.0-compatible	24 bit compatible	
✕	✕	**UA-1EX ASIO1.0 16bit**
✕	○	**UA-1EX ASIO1.0 24bit**
○	✕	**UA-1EX ASIO2.0 16bit**
○	○	**UA-1EX ASIO2.0 24bit**

Here we will explain how to install the ASIO 1.0 16 bit-compatible driver.

1. From the **Driver E (Mac OS 9) - ASIO** folder of the CD-ROM, copy **[UA-1EX ASIO1.0 16bit]** to the **ASIO Drivers** folder of the ASIO-compatible software you are using (e.g., Cubase VST, Logic, Digital Performer).

* *The Audio setting dialog box will be named differently depending on your software. For details refer to the manual of your software.*

2. Operation of the UA-1EX Set the UA-1EX's **ADVANCED (mode select) switch** to **ON**.

* *The driver cannot be installed by means of the following procedure if the switch is set to OFF.*

3. Operation of the UA-1EX Connect the UA-1EX to your Macintosh.

* *This unit is equipped with a protection circuit. A brief interval (a few seconds) after connecting the UA-1EX is required before the unit will operate normally.*

4. Start up your ASIO-compatible software.

5. Open the **Audio setting** dialog box of your ASIO-compatible software, and select **[UA-1EX ASIO1.0 16bit]** as the **ASIO Device**.

* *The Audio setting dialog box will be named differently depending on your software. For details refer to the manual of your software.*
This completes the audio input/output settings.
Proceed to **"Checking that you hear sound"** (p. 32).

Checking that you hear sound

Now let's play back the sample data to verify that the connections and the settings are correct. In order to listen to the sample data, you'll need approximately 30 MB of free space on your system hard disk.

You can connect headphones and/or monitor speakers as shown in the diagram, and monitor the playback of your sequencer software.

NOTE
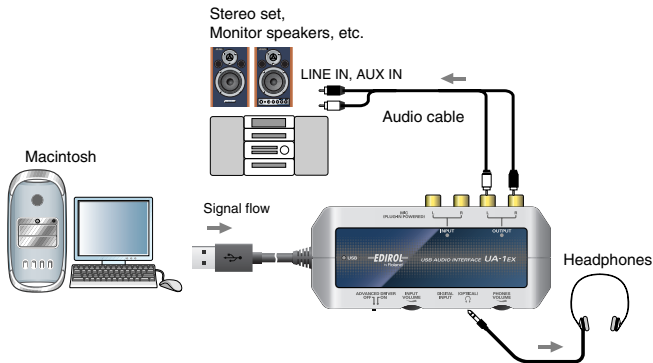
As soon as you connect the UA-1EX to your Macintosh, sound will no longer be output from the speakers of your Macintosh.

- Connect an external monitor system or headphones to the UA-1EX.
- If you want sound to be output from the speakers of your Macintosh, disconnect the UA-1EX from your Macintosh.

■ **Playing back the sample data**

We will use standard Macintosh functionality to play back the sample data provided on the included CD-ROM.

*   *Use of the song data supplied with this product for any purpose other than private, personal enjoyment without the permission of the copyright holder is prohibited by law. Additionally, this data must not be copied, nor used in a secondary copyrighted work without the permission of the copyright holder.*

1. Prepare the CD-ROM.
Insert the CD-ROM into the CD-ROM drive of your Macintosh.

2. From the **Sample** folder of the CD-ROM, drag **Alright(.wav)** to your desktop, copying it.

3. Set the UA-1EX's **Sampling frequency select switch** to **44.1kHz**.

*   *If you've changed the sampling frequency, disconnect the UA-1EX, and then reconnect it.*

4. Start up the **QuickTime Player**, which is included with Mac OS.
The **QuickTime Player** is normally located in **QuickTime** within the **Applications folder** of the hard disk.

5. Open the **Alright** file you copied.

6. Play back the sample data.
Click the **play** button. The sample data playback will be output from headphones or speakers connected to the UA-1EX's headphone jack or line output jacks.

*   *If the record source select switch is set to DIGITAL and a digital signal is being received at the digital input connector, audio data from the Macintosh cannot be played back. Please set the switch to ANALOG.*

*   *If it did not play back correctly, refer to* **"Troubleshooting"** *(p. 55) to determine the reason. This section contains information on how to solve problems such as no sound, or failure to play back correctly.*

> **Was the sample data played back?**
> If it was played back correctly, this means that the computer and the UA-1EX are connected correctly, and that the drivers have been installed correctly.

Basic use

This chapter explains various ways in which you can connect and use the UA-1EX.

Listening to Sound from Your Computer

You can connect your headphones or monitor speakers as shown in the diagram, and listen to the audio playback from your sequencer software. You can also listen to the sound from a microphone or audio device that's connected to the UA-1EX.
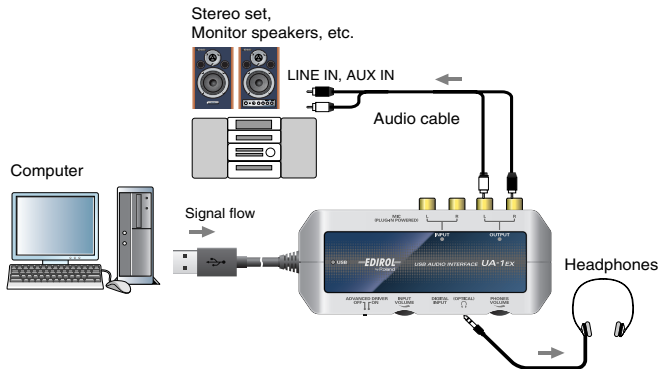
Stereo set,
Monitor speakers, etc.

LINE IN, AUX IN

Audio cable

Computer

Signal flow

Headphones

NOTE

As soon as you connect the UA-1EX to your computer, sound will no longer be output from the speakers of your computer.

- Connect an external monitor system or headphones to the UA-1EX.
- If you want sound to be output from the speakers of your computer, disconnect the UA-1EX from your computer.

Recording a Cassette Tape or LP into Your Computer

Here's how you can record the analog output of an audio device such as a cassette tape or LP (vinyl record) into your computer.

REC SOURCE — Set this to **ANALOG.** (→ p.14)

SAMPLE RATE — Set this to match the sampling frequency of the recording software you are using. (→p.13)
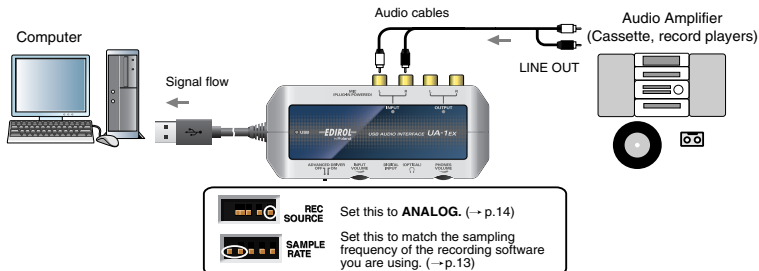
If you are using a record player, use a player that has a built-in phono equalizer. If your record player does not have a phono equalizer, output the sound through a speaker system that has a phono equalizer.

Sampling frequency select switch

Set this to the sampling frequency that is selected in your recording sequencer software.

* *After you change the position of the sampling frequency select switch, you will need to disconnect and reconnect the UA-1EX.*

Recording source select switch

Set this to **ANALOG**.

* *Turn down the volume of your connected monitor speakers (or similar equipment) before you change the setting of the recording source select switch.*

Input volume

Use this to adjust the input level.

■ Be careful of looped connections

Loop Connection
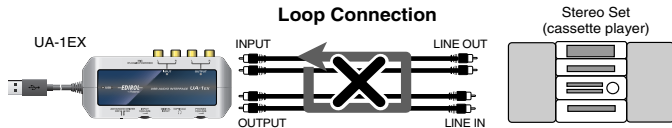
If you connect the UA-1EX as shown in the above diagram with another device that passes the input audio back to the output (e.g., a MD/DAT in recording mode), the sound will loop between the UA-1EX and the other device, causing oscillation and producing an unexpected high volume. Be aware that such connections can cause malfunctions or damage your speakers.

Recording Sound from Your Computer onto MD or DAT

Here's how you can record audio data from your computer onto a digital device such as MD or DAT.
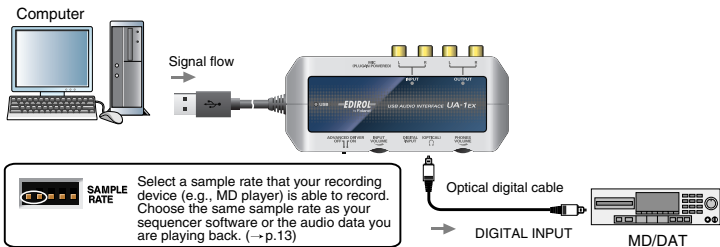
SAMPLE RATE Select a sample rate that your recording device (e.g., MD player) is able to record. Choose the same sample rate as your sequencer software or the audio data you are playing back. (→p.13)

Sampling frequency select switch

Set this to match the sampling frequency of your digital recording device and the sampling frequency of your sequencer software or the audio data you are playing back.

* *After you change the position of the sampling frequency select switch, you will need to disconnect and reconnect the UA-1EX.*

Other notes

• Do not connect anything to input jacks you are not using.
• The UA-1EX does not support professional digital audio device formats.
• The UA-1EX cannot mix the input signals from the various input jacks with the input signal from the digital input connector and output them from the digital output connector.

Recording the Digital Output from a CD/MD/DAT into Your Computer
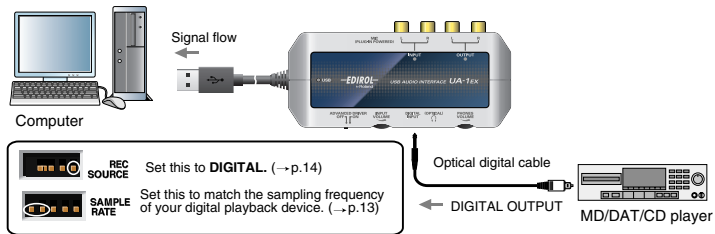
Sampling frequency select switch

Set this to match the sampling frequency of your digital playback device and the sampling frequency of your sequencer software or the audio data you are playing back.
Normally, you will select 48 kHz or 44.1 kHz for DAT, and 44.1 kHz for MD or CD. For details, refer to the owner's manual for your digital audio device and sequencer software.

* *After you change the position of the sampling frequency select switch, you will need to disconnect and reconnect the UA-1EX.*

Recording source select switch

Set this to **DIGITAL**.

* *Turn down the volume of your connected monitor speakers (or similar equipment) before you change the setting of the recording source select switch.*

Other notes

• The UA-1EX complies with **SCMS**. If the audio data that is input from the digital input connector contains copy-prohibit flags (as will be the case if you recorded an MD from a CD), the UA-1EX will not allow this data to be recorded on your computer. (The sound will be output from the line output jacks and headphone jack.)

Recording a Mic

Here's how you can sing along with audio data played back from your computer, and use your sequencer software to record just the sound of the mic.

Monitor speakers

The mic input and the audio data from your computer will be mixed and output.

LINE IN

The mic input will be recorded on your computer.

Audio cables

Computer

Plug-in powered mic

Headphones

REC SOURCE	Set this to **ANALOG**. (→p.14)	
SAMPLE RATE	Set this to match the sampling frequency of your recording software. (→ p.13)	

The mic input and the audio data from your computer will be mixed and output.

← Signal flow of audio data from your computer
← Signal flow of the guitar/mic input

Sampling frequency select switch

Set this to the sampling frequency that is selected on your recording sequencer software.

* *After you change the position of the sampling frequency select switch, you will need to disconnect and reconnect the UA-1EX.*

Recording source select switch

Set this to **ANALOG**.

* *Turn down the volume of your connected monitor speakers (or similar equipment) before you change the setting of the recording source select switch.*

Input volume

Use this to adjust the input level.

Other notes

- Howling could be produced depending on the location of microphones relative to speakers. This can be remedied by:

  1. Changing the orientation of the microphone(s).
  2. Relocating microphone(s) at a greater distance from speakers.
  3. Lowering volume levels.

- The UA-1EX is compatible with plug-in powered mics (miniature condenser mics designed for connection to a computer's mic input or to the recording jack of an MD (Mini Disc) recorder). You must use a plug-in powered mic for connection to the mic input jack (plug-in powered mic). The circuit may be damaged if you connect a conventional stereo mini-type plug or an unsupported type of mic.

Adjusting the Audio Latency

When using the UA-1EX in **Advanced mode**, you can change the driver settings to adjust the latency of the audio. To adjust the **latency**, change the **Buffer Size** in the driver settings dialog box.

* *Latency is the time delay from when an sequencer software plays back audio data until the sound is actually heard from an audio device such as the UA-1EX.*

1. As described in**"Opening the dedicated driver settings dialog box"** (p. 44), open the **"Edirol UA-1EX Driver Settings"** dialog box (or in Mac OS 9, **"ASIO Control Panel"**).

2. Adjust the buffer size.
The following settings will produce the shortest latency.

Windows users
Set **"Audio Buffer Size"** to the far left (Min).

Mac OS X users
Set **"Audio Buffer Size"** to the far left (Min).

Mac OS 9 users
Set **"Buffer Size"** to the far left (Min).

3. Click **[OK]** (or in Mac OS X, **[Apply]**) to close the dialog box.

4. Restart the sequencer software that is using the UA-1EX.

* *If you are using a sequencer software that has a function for testing audio devices, get it to perform its tests.*

5. Play back audio data on your sequencer software.
If interruptions occur in the sound, repeat this procedure, and gradually increase the **buffer size** in step **2** until interruptions no longer occur.

* *Depending on the sequencer software you are using, there may be a **buffer size** or **latency** adjustment function among the audio settings of the sequencer software as well. For details, refer to the operation manual for your sequencer software.*

Decreasing the ASIO Buffer Size (Windows)

If you're using the UA-1EX from ASIO-compatible software, you'll be able to reduce the buffer size further. If clicks or pops occur, uncheck this check box.

* *"**Adjusting the Audio Latency**" (p. 41) must be performed with this check box unchecked.*

1. As described in **"Opening the dedicated driver settings dialog box"** (p. 44), open the **"Edirol UA-1EX Driver Settings"** dialog box.

2. Check the **"Use Smaller ASIO Buffer Size"** check box.

3. Click **[OK]** to close the **"Edirol UA-1EX Driver Settings"** dialog box.

Using ASIO Direct Monitor (Windows/Mac OS 9)

If you are using the UA-1EX from an ASIO2.0-compatible sequencer software in **Advanced mode**, the UA-1EX's direct monitor switch can be controlled automatically from the sequencer software.

1. Set **Input monitor switch** to **AUTO**.

2. As described in **"Opening the dedicated driver settings dialog box"** (p. 44), open the **"Edirol UA-1EX Driver Settings"** dialog box (or in Mac OS 9, **"ASIO Control Panel"**).

3. Make the following settings.
   Check the **"Use ASIO Direct Monitor"** check box.

4. Click **[OK]** to close the **"Edirol UA-1EX Driver Settings"** dialog box.

   * *Depending on your sequencer software, there may also be an ASIO Direct Monitor setting among the audio settings of your sequencer software. For details, refer to the operation manual for your sequencer software.*

   * *When using ASIO Direct Monitor, monitoring may switch on/off at unexpected times, depending on the sequencer software settings and on the recording procedure. If this occurs, uncheck the check box in step 3 to disable ASIO Direct Monitor.*

■Opening the dedicated driver settings dialog box

Windows users

1. Click the Windows **Start** menu, and from the menu that appears, select **Settings** | **Control Panel**.
   Windows XP: Click the Windows **start** menu, and from the menu, select **Control Panel**.

2. In **Control Panel**, double-click the **"EDIROL UA-1EX"** icon.
   The **"Edirol UA-1EX Driver Settings"** dialog box will appear.

* *In Windows XP, click "Switch to Classic View" to select Classic View on your computer. If you're not in Classic View, the EDIROL UA-1EX icon won't be shown.*

* *In Windows Me, click "View all Control Panel options."*

Mac OS X users

Open **"System Preferences"** and click the **"UA-1EX"** icon.
"Edirol UA-1EX Driver Settings" dialog box will appear.

Mac OS 9 users

Open the **ASIO Control Panel** from the **Audio Settings** dialog box of your ASIO-compatible software.

* *The name of the Audio Settings dialog box and the procedure for opening the ASIO Control Panel will differ depending on your software. For details, refer to the operation manual for your software.*

Appendices

Installing the OS-Standard Driver

Standard driver mode uses the standard USB audio driver provided with the operating system.

* *Standard driver mode does not support 96 kHz or 24-bit. If you want to use 96 kHz or 24-bit audio, turn the ADVANCED (mode select) switch ON.*

Windows XP/2000 users

1. With the UA-1EX disconnected, start up Windows.
   * *Disconnect all USB cables except for a USB keyboard and USB mouse (if used).*
2. Exit all currently running software (applications).
   If you are using virus checking or similar software, be sure to exit it as well.
3. Place the UA-1EX's **ADVANCED (mode select) switch** in the **OFF** position.
4. Connect the UA-1EX to the computer.
   The driver is automatically installed.
   If you are using Windows XP, the installation has been completed when the message near the taskbar saying that **"Found New Hardware"** has disappeared.
   * *This unit is equipped with a protection circuit. A brief interval (a few seconds) after connecting the UA-1EX is required before the unit will operate normally.*
5. When installation is complete, restart Windows.

   Next, in order to ensure that audio processing occurs smoothly, you need to make settings so that Background Services is given priority.
   (➜ **"Giving priority to Background Services"** (p. 19))

Windows Me users

1. With the UA-1EX disconnected, start up Windows.
   * *Disconnect all USB cables except for a USB keyboard and USB mouse (if used).*

2. Exit all currently running software (applications).
   If you are using virus checking or similar software, be sure to exit it as well.

3. Place the UA-1EX's **ADVANCED (mode select) switch** in the **OFF** position.

4. Connect the UA-1EX to the computer.
   Windows will detect the UA-1EX, and the **"Add New Hardware Wizard"** dialog box will appear.
   Make sure that **Automatic search for a better driver (Recommended)** is selected, and click **[Next]**.
   * *This unit is equipped with a protection circuit. A brief interval (a few seconds) after connecting the UA-1EX is required before the unit will operate normally.*

5. Driver detection will begin.

6. When the driver has been found, driver installation will begin.

7. Once the driver has been installed, a dialog box will inform you of this.
   Click **[Finish]**.

8. Restart Windows.

   Next, you will need to make audio input/output device settings.
   (→**Input/output device setting** (p. 49))

Windows 98 users

The driver necessary for using the UA-1EX with Windows 98 is provided on the Windows CD-ROM. Make sure that you have the Windows CD-ROM available.

* *Some computers are sold with the contents of the Windows CD-ROM stored on the hard disk, and therefore will not come with a Windows CD-ROM. If this is the case for your computer, you'll be able to install the driver even without the Windows CD-ROM.*

The **USB composite device** driver is installed first, then the **USB audio device** driver is installed. Use the following procedure to install the drivers.

1. With the UA-1EX disconnected, start up Windows.
   * *Disconnect all USB cables except for a USB keyboard and USB mouse (if used).*

2. Exit all currently running software (applications).
   If you are using virus checking or similar software, be sure to exit it as well.

3. Place the UA-1EX's **ADVANCED (mode select) switch** in the **OFF** position.

4. Connect the UA-1EX to the computer.
   * *This unit is equipped with a protection circuit. A brief interval (a few seconds) after connecting the UA-1EX is required before the unit will operate normally.*

5. **USB composite device** will be detected automatically, and the **"Add New Hardware Wizard"** dialog box will appear. Click **[Next]**.

6. When **"What do you want Windows to do?"** appears, select **"Search for the best driver for your device (Recommended) ,"** and click **[Next]**.

7. Check **CD-ROM drive**, and click **[Next]**.
   If the display indicates **"Can't find an updated driver for this device,"** check **"Updated driver,"** and click **[Next]**.

8. Click **[Next]**.
Depending on your system, the **Driver location** may differ from
the illustration, but this is not a problem.

9. File (driver) copying will begin.
If the Windows CD-ROM is not inserted in the CD-ROM drive, a **"Insert Disk"** dialog box may
appear. In this case, insert the Windows CD-ROM into the CD-ROM drive and click **[OK]**.

10. When installation of the **USB Composite Device** driver is
completed, a dialog box like the one shown here will appear.
Click **[Finish].**

11. Next, the **USB audio device** will be detected automatically, and the **"Add New Hardware
Wizard"** dialog box will appear.
Click **[Next]**, and proceed with the installation in the same way as in steps **6–9**.

12. When installation of the **USB audio device** driver is complete, a
dialog box like the one shown here will appear.
Click **[Finish]**.

Installation of the **USB composite device** driver and **USB audio
device** driver has been completed.
Restart Windows.

Next, you will need to make audio input/output device settings.
(→**Input/output device setting** (p. 49))

48

Input/output device setting

Windows XP users

1. Open the **Sound, Speech, and Audio Devices Properties** dialog box.

1. From the Windows **start** menu, choose **Control Panel**.
2. In **"Pick a category,"** click **Sound, Speech, and Audio Devices**.
3. In **"or Pick a Control Panel icon,"** click the **Sounds and Audio Devices** icon.

2. Click the **Audio** tab.

3. For **Sound playback** and **Sound recording,** click the ▼ located at the right of **[Default device]**, and select **UA-1EX**.

4. Click **[OK]** to complete the settings.

5. Next, in order to ensure that audio processing occurs smoothly, you need to make settings so that Background Services is given priority.
(→ **"Giving priority to Background Services"** (p. 19))

Windows 2000/Me users

1. Open the **Sounds and Multimedia Properties** dialog box

1. Click the Windows **Start** button, and from the menu that appears, select **Settings | Control Panel**.
2. In **Control Panel**, double-click the **Sounds and Multimedia** icon.
   If the **Sound and Multimedia** icon is not displayed, click **"Show all control panel options"** in the frame at the left.

2. Click the **AUDIO** tab.

3. For **Sound Playback** (or in Windows Me, **Playback**) and **Sound Recording**, click the ▼ located at the right of **[Preferred device]**, and select **USB Audio Device**.

4. Click **[OK]** to complete the settings.

5. **Windows 2000 users:**
Next, in order to ensure that audio processing occurs smoothly, you need to make settings so that Background Services is given priority.
(→ **"Giving priority to Background Services"** (p. 19))

Windows 98 users

1. Open the **Multimedia Properties** dialog box.

    1. Click the Windows **Start** button, and from the menu that appears, select **Settings | Control Panel**.
    2. In **Control Panel**, double-click the **Multimedia** icon.

2. Click the **Audio** tab.

3. For **Playback** field and **Recording**, click the ▼ located at the right of **[Preferred device]**, and select **USB Audio Device**.

4. Click **[OK]** to complete the settings.

    This completes the audio input/output settings.
    Proceed to **"Checking that you hear sound"** (p. 25).

Volume Control setting

If you have installed the Standard driver, the UA-1EX can use the Windows volume control to adjust the output volume.

1. Open the **Volume Control**.
Click the Windows **Start** menu, and select **Programs** (or in Windows XP, **All programs**) |
Accessories | **Entertainment** | **Volume Control**.

*   *What you actually see on your computer screen may be different, depending on your computing environment and the operating system you're using.*

*   *If the **Volume Control** is not installed on your computer, use the **Control Panel** icon **Add or Remove Programs** to install it. For details on installation, refer to the Windows manual or Help.*

2. Raise or lower the slider to adjust the volume of the UA-1EX.
This will change the volume of the UA-1EX's digital output and analog output.
Items that can be set

WAVE	Controls the volume of sound output from "UA-1EX (or USB Audio Device)" audio output device.
SW Synth	Controls the volume of the software synthesizer built into Windows.
CD Player	Controls the volume of "audio CDs" on the internal CD-ROM drive of the computer. (*1)

*1 If the CD playback volume does not change when you adjust this control, then change the WAVE volume.

*   You will be able to use the UA-1EX at the best audio quality if you set the Volume Control volume to the maximum setting.

*   If **Mute** is checked or if the slider is lowered all the way, no sound will be output from the UA-1EX.

When playing audio CDs from the computer's internal CD-ROM drive, or using the UA-1EX to play game music

Windows XP/2000 users:

1. Open the **System Properties** dialog box.
   Select **Start | Settings | Control Panel**, and in the **Control Panel**, double-click the **System** icon.
   (**Windows XP**– Click the Windows **start** menu, and from the menu that appears, select **Control Panel**.)

2. Open the **Device Manager**.
   Click the **Hardware** tab, and click the **Device Manager**.

3. Open the CD-ROM drive's **Properties**.
   In CD-ROM drive, double-click the CD-ROM drive that you are using.

4. Click the **Properties** tab, and in **Digital CD Playback**, check the **"Enable digital CD audio for this CD-ROM device"** item.

Windows Me users:

1. Open **System Properties** dialog box.
   Select **Start | Settings | Control Panel**, and in **Control Panel**, double-click the **System** icon.

2. Open the **Device Manager**.
   Click the **Device Manager** tab.

3. Open the CD-ROM drive's **Properties**.
   Double-click the **CD-ROM** icon, and then double-click the CD-ROM drive that you are using.

4. Click the **Properties** tab, and in **Digital CD Playback**, check the **"Enable digital CD audio for this CD-ROM device"** item.

Windows 98 users:

1. Open the **Multimedia Properties** dialog box.
   Select **Start | Settings | Control Panel**, and in **Control Panel**, double-click the **Multimedia** icon.

2. Click the **Music CD** tab, and check the **"Enable digital CD audio for this CD-ROM device"** item.

   * *Depending on your system, playback may still not be possible. For details, please contact the manufacturer of your computer. If you are using a PC-card (PCMCIA) type CD-ROM drive, playing back WAVE data from a CD-ROM or playing an audio CD may cause interrupted sound, or possibly no sound at all.*

Mac OS X users

*   * *If the **"Authenticate"** dialog box appears during the installation, input the password and click **"OK."***
*   * *What you actually see on your computer screen may be different, depending on your computing environment and the operating system you're using.*

1. With the UA-1EX disconnected, start up the Macintosh.

* *Disconnect all USB cables except for a USB keyboard and USB mouse (if used).*

2. Exit all currently running software (applications).
    If you are using virus checking or similar software, be sure to exit it as well.

3. Place the UA-1EX's **ADVANCED (mode select)** switch in the **OFF** position.

4. Connect the UA-1EX to your Macintosh.

5. Open the **System Preference** dialog box and click **Sound**.

6. In the **Sound Effects** tab, click **Play alerts and sound effects through** and choose **UA-1EX** as the playback device for sound effects.

* *If you don't want the Macintosh's audio alerts to be heard via the UA-1EX, choose **"Built-in audio controller"** or a similar setting so that the internal speakers will be used.*

7. Click the **Output** tab, and choose **UA-1EX** as the device that will output sound.

* *If you want sound to be output from the speakers of your Macintosh, disconnect the UA-1EX from your Macintosh.*

8. If the **Input** tab is displayed, choose **UA-1EX** as the device for inputting sounds.

* *The output volume of the UA-1EX cannot be adjusted with the Mac OS sound dialog box. Make volume adjustments through other means, such as on the speaker system you are using.*

Please check the following before you use your sequencer software.

*   • If your sequencer software allows you to make audio input/output settings, choose **UA-1EX**. For details, refer to the owner's manual of the sequencer software you are using.
*   • Connect the UA-1EX to your computer before you start up your sequencer software.
*   • Do not disconnect the UA-1EX while your sequencer software is running.
    Exit your sequencer software before you disconnect the UA-1EX.
*   • The UA-1EX will not operate in the Mac OS X Classic environment. You can not use it if the Classic environment is running.

Proceed to **"Checking that you hear sound"** (p. 32).

Mac OS 9 users

1. With the UA-1EX disconnected, start up the Macintosh.
   * *Disconnect all USB cables except for a USB keyboard and USB mouse (if used).*

2. Exit all currently running software (applications).
   If you are using virus checking or similar software, be sure to exit it as well.

3. After starting up Mac OS, select **Apple System Profiler** from the **Apple** menu.
   The **"Apple System Profiler"** dialog box will appear.

4. Click the **Devices and Volumes** tab.

5. Choose **Update all information** from the **Commands** menu.

6. Set the UA-1EX's **ADVANCE (mode select) switch** to the **OFF** position.

7. Connect the UA-1EX to your computer.
   Wait for approximately five seconds.
   UA-1EX uses a driver included with Mac OS.
   * *This unit is equipped with a protection circuit. A brief interval (a few seconds) after connecting the UA-1EX is required before the unit will operate normally.*

   While you are waiting, the screen display will not change, but the UA-1EX is being detected. Do not touch the mouse or keyboard.

8. In order to check that detection has been completed, once again go to **"Apple System Profiler,"** and select **"Update all information"** from the **Commands** menu.
   In the **USB** area, three audio devices will be displayed.

   If these are displayed correctly, driver installation has succeeded. In the **File** menu, click **Quit** to close **"Apple System Profiler."**
   If they are not displayed correctly, disconnect the UA-1EX, wait for about ten seconds, and then repeat the procedure from **step 2**.

Proceed to **"Checking that you hear sound"** (p. 32).

Troubleshooting

If you experience problems, read this chapter first. It contains tips for solving most problems.
* *For details on operating your Windows or Macintosh computer, refer to the owner's manual of the computer and operating system you are using.*

Problems related to the USB driver (Windows)

Can't install the driver correctly

Install the driver once again as described in **"Getting Connected and Installing Drivers (Windows)"** (p. 15).

Does the Device Manager show "Other device," "Unknown device," or any device marked with "?," "!," or "x"? (Windows)
If driver installation did not end successfully, the installed driver may remain in an incomplete state. Install the UA-1EX driver once again as described in **"Getting Connected and Installing Drivers (Windows)"** (p. 15).

Is the UA-1EX connected correctly?
Make sure that UA-1EX is connected to the USB connector of your computer.

Could other USB devices be connected?
When installing, all USB devices other than the UA-1EX should be disconnected from your computer. If you have connected the UA-1EX to an external USB hard disk, please connect the UA-1EX directly to a USB connector on the computer itself.

Could other applications or resident software (such as a virus checking program) be running?
Installation may not occur correctly if other programs are running. Be sure to close all other programs before installing.

Are you attempting to install from a networked CD-ROM drive?
You cannot install from a networked CD-ROM drive.

Is the CD-ROM or the lens of your CD-ROM drive dirty?
If the CD-ROM or the lens of your CD-ROM drive are dirty, the installer may not work correctly. Use a commercially available CD cleaner or lens cleaner to clean the CD-ROM and/or lens.

Are the power conservation settings of your computer turned off?
 If power conservation settings are turned on for your computer, disable these settings. (For details on how to disable them, refer to the owner's manual of your computer.)

Is there enough free space on your hard disk?
 Delete unneeded files to increase the amount of free space.
 After deleting the file(s), empty the recycling bin.

Is the UA-1EX's ADVANCED (mode select) switch set appropriately?
 Set the UA-1EX's ADVANCED (mode select) switch to the appropriate position, then reinstall the driver.

Is the USB connector enabled on your computer?
 Refer to the owner's manual for your computer, and verify that the USB connector of your computer is enabled. The driver cannot be installed unless the USB connector is enabled.

Does your computer or USB hub have a sufficient power supply?
 If you are using bus power, the UA-1EX cannot be connected if insufficient power is being supplied to it. Check whether the following cases might apply.
 • If you are using a notebook computer running on its battery, operation may be unstable with some computers. If this is the case, connect your computer to its AC adaptor.
 • The power conservation mode of your computer may be limiting the power it supplies to the USB connector. Re-examine the settings of your computer.
 • The UA-1EX cannot be used with some bus-powered hubs (hubs that do not have their own power supply). Use a self-powered hub (a hub that has its own power supply).

Does your computer meet the USB specification?
 Operation may be unstable if you are using a computer that does not electrically meet the USB specification. If so, you may be able to solve the problem by connecting a USB hub that has its own power supply.

Can't install/uninstall the driver

Did you log onto Windows as a user with administrative privileges?
 In order to install/uninstall/reinstall the UA-1EX driver in Windows, you must log onto Windows as a user with administrative privileges, such as Administrator.

Did you make the "Driver Signing Options" setting?
 You must set **"Driver Signing Options"** in order to install/reinstall the driver. (p. 16)

Windows displays an "Installing Hardware," "Did not find digital signature" dialog box

Did you make the "Driver Signing Options" setting?
You must set **"Driver Signing Options"** in order to install/reinstall the driver. (p. 16)

You are asked for the driver file even though you installed the driver

Did you connect the UA-1EX to a different USB connector than the one you used when installing the driver?
If your computer or USB hub has two or more USB connectors, and you connect the UA-1EX to a USB connector to which you have not previously connected it, this dialog box may appear even though you have already installed the driver. (This is not a malfunction.)
Use the following procedure to install the driver.

1. Connect the UA-1EX to your computer.

Windows XP users
1. The **Found New Hardware Wizard** dialog box will appear.
   If the message **"Connect to Windows Update to search for software?"** appears, choose **"No"** and then click **[Next]**.
2. Make sure that **"EDIROL UA-1EX"** is indicated. Then, choose **"Search for the best driver in these locations"** and click **[Next]**.
   If **"Driver Signing Options"** in step 4 is set to anything other than **"Ignore,"** a dialog box with an **"!"** or **"x"** symbol will appear. Click **[Continue Anyway]** to proceed with the installation. If you are unable to continue, click **[OK]** and repeat the driver installation. (➔**"Installing the Driver"** (p. 16))

Windows 2000 users
If **"Driver Signing Options"** in step 4 is set to anything other than **"Ignore,"** a dialog box indicating **"Digital Signature Not Found"** will appear. Click **[Yes]** to proceed with the installation. If you are unable to continue, click **[OK]** and repeat the driver installation. (➔**"Installing the Driver"** (p. 16))

2. The **Completing the Found New Hardware Wizard** dialog box will appear.
Click **[Finish]**.

3. If the **Change System Settings** dialog box appears, click **[Yes]**. Windows will restart automatically.

If you are unable to complete driver installation using the above method, repeat the driver installation. (➔**"Installing the Driver"** (p. 16))

No sound

Can't record or play back audio
No sound

Is the UA-1EX's Recording source select switch set to "ANALOG"?
If the recording source select switch is set to "DIGITAL," and an input signal is being received at the digital input connector, the audio signal being input to the digital input connector will be output. The audio data from the computer will not be output.

Are you attempting to use the CD player of your computer to play an audio CD?
If you wish to play an audio CD on the CD-ROM drive of your computer, refer to **When playing audio CDs from the computer's internal CD-ROM drive, or using the UA-1EX to play game music** (p. 52).

Are you running multiple applications?
If multiple applications are running simultaneously, an error message may appear. If this occurs, click **[OK]**, and close the other applications. Even if an application window is closed, it is still running if it remains in the taskbar, so be sure to quit any unneeded applications shown in the taskbar.

Have you specified the audio data output destination for your playback sequencer software?
For some sequencer software such as Cool Edit Pro LE, you must set the audio data output destination as **UA-1EX**. For details on this setting, refer to the owner's manual for the sequencer software.

Have the drivers been installed correctly?
In order to playback audio data using the UA-1EX, the **USB Audio Device driver** must be installed. For details on installation and settings, refer to **Getting Connected and Installing Drivers** (Windows p. 15, Macintosh p. 27).

Are the faders of the Volume Control raised? (Windows)
Adjust the volume of each fader as described in **Volume Control setting** (p. 51).

Can't record from a digital connection

When capturing audio data from a CD or MD into your computer, is the recording source select switch set to "DIGITAL"?

Is the **recording source select switch** set to **"DIGITAL"**?

Does the sampling frequency of your sequencer software match the sampling frequency of the digital audio device connected to the digital in connector?

Set the sampling frequency to the same setting.

If you change the UA-1EX's sampling frequency, you must disconnect the UA-1EX from your computer, and then re-connect the UA-1EX in order for the new setting to take effect.

Recording produces a silent file

Did you specify the correct audio data input source within the operating system?

Depending on the sequencer software you are using, you may need to specify the UA-1EX as the audio data input source for your computer. For details on this setting, refer to **"Driver Settings"** (p. 22), **"Getting Connected and Installing Drivers (Macintosh)"** (p. 27).

Data that contains the SCMS flag cannot be recorded digitally.

The UA-1EX supports **SCMS**, so that if SCMS-flagged data (such as data from an MD that was digitally copied from a commercial music CD) is input to the digital connector, the UA-1EX will not be able to record this on the computer.

The sound will be output from the line output jacks and the headphone jack.

You will become unable to record if you switch the sampling frequency (e.g., switch between digital broadcast mode A and mode B) of your digital device while it is still connected to the digital input connector.

If you switch the sampling frequency, reconnect the digital cable.

Can't play/record 24-bit audio data

Does your sequencer software support 24-bit audio data?

You will need to use sequencer software that supports 24-bit audio data.

**Is your sequencer software set to record/play 24-bit audio data?**

Set your sequencer software to 24-bit.

Noise or pops are heard when recording/playing on your computer

Noise is heard during audio playback
Pops/clicks occur during audio playback
Noise is heard in the recorded sound

In Macintosh, check the Energy Saver settings.
In the Mac OS **System Setup**, set **Energy Saver** as follows.
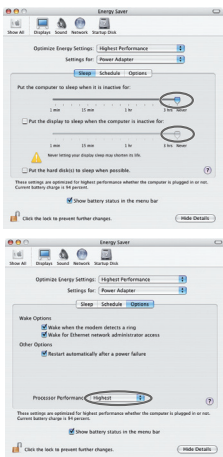
Click the **Sleep** tab.
Set **"Put the computer to sleep when it is inactive for:"** to **Never**.
Set **"Put the display to sleep when the computer is inactive for:"** to **Never**.

Click the **Options** tab.
If there is a **Processor Performance** setting, set it to **Highest**.

In Windows, did you make the setting described in "Giving priority to background services"?

In order to ensure that audio processing occurs smoothly, make the setting described in "Giving priority to background services." (→ **"Giving priority to Background Services"** (p. 19))

In Windows, Power Management settings in the Control Panel may cause clicks or pops to occur in the audio playback.

The power management properties that appear when you double-click Power Management will differ depending on your computer system. The explanation that follows is for a typical situation, but you should refer to the owner's manual for your computer to verify these settings.
Some computers may not have the following items.

1. In the Windows **Control Panel**, double-click the **System** icon. The **System Properties** dialog box will appear.

2. Click the **Hardware** tab.

3. Click **Device Manager** to see the list of devices.

4. From the list, choose **Advanced Power Management Support**, and click **Properties**.
   The **Advanced Power Management Support Properties** dialog box will appear.

5. Click the **Settings** tab, and in **Troubleshooting**, check the **"Don't Poll Power Supply Status"** check box. Then click **[OK]**.

6. In the **System Properties** dialog box, click **[OK]**.

7. Restart Windows.

Could two or more audio devices be connected to your computer?

Try connecting only one UA-1EX to your computer. Check whether the noise disappears when only the UA-1EX is connected to the computer. Connecting numerous audio devices to a computer may produce noise in some situations. If this occurs, connect only the UA-1EX to your computer.

Are you using a USB device in addition to the UA-1EX?

Try switching off USB devices other than the UA-1EX.
If you have connected the UA-1EX to an external USB hard disk, please connect the UA-1EX directly to a USB connector on the computer itself.

Are numerous software programs running?

Playback may be interrupted if numerous software programs are running at the same time, or when you start up another software program. Close any unneeded software, and try again. If this does not solve the problem, try restarting your computer.

You may be able to solve the problem by adjusting the buffer size in the Driver Settings dialog box.

Adjust the buffer size as described in **"Adjusting the Audio Latency"** (p. 41).

If your sequencer software has an audio device test function, execute the test function.

* *After changing the buffer size, you must restart any sequencer software that uses the UA-1EX.*

Clicks or pops may occur in the sound if a LAN is operating.

Try disabling the LAN in the Device Manager. If this eliminates the clicks or pops, you may be able to solve the problem by updating your LAN driver or BIOS.

Try increasing the memory

You can increase the processing power of your computer by adding more memory. For details on how to install more memory, refer to the operation manual for your computer.

Is the UA-1EX connected to a USB hub?

Try connecting the UA-1EX directly to the USB connector of your computer itself.

Try making the following changes to the disk drive settings.

* *Some computers may not have the following settings.*
  1. In the Windows **Control Panel**, double-click **System**.

  2. Click the **Device Manager** tab.

  3. Double-click **Disk Drives** to see the list of devices.

  4. From the list, select **GENERIC IDE DISK TYPE??**, and click **Properties** to access the **GENERIC IDE DISK TYPE?? Properties** dialog box.

  * *In the ?? field of GENERIC IDE DISK TYPE??, there will be a number that differs depending on your computing environment.*

  5. Click the **Settings** tab, place a check mark in the check box for the **DMA** option, and click **[OK]** to close the dialog box.

  * *Depending on your system, a dialog box for DMA settings may appear. Verify the contents of the dialog box, and click **[OK]** or **[Cancel]**.*

  6. In **System Properties** dialog box, click **[OK]** to close the dialog box.

  7. Restart your computer so that the above settings will take effect.

Depending on the virtual memory setting or network-related settings, noise may occur.
Please make the following settings before use.
  • **[Mac OS 9]** In Chooser of the **Apple menu**, set AppleTalk to **"Inactive."**
    (This setting is not changed as a result of turning off AppleTalk, as requested by OMS when sequencer software is started up. You must change the setting yourself using the **"Chooser."**)
  • **[Mac OS 9]** In the **"Memory"** Control Panel, set **Virtual Memory** to **"Off."**
  • Depending on the way in which you connect to the Internet, use the UA-1EX with the following settings.

    If you connect to the Internet via a LAN cable
    Use while the LAN cable is connected.

    If you connect to the Internet via the internal modem port, or are not connected to the Internet
    In the **"TCP/IP"** Control Panel, set **"Connect via"** to **"PPP."**
    After you have made the settings, restart your Macintosh.

* *Do not use software that accesses the network (such as a Web browser) at the same time that you are using sequencer software or audio editing software.*

Playback/recording stops midway, and subsequent playback/recording is not possible

While you were using the UA-1EX, could your computer have performed a task with a heavy processing load, such as accessing a CD-ROM drive or network?
If a heavy processing load occurs while the UA-1EX is being used, it may not work correctly. In this case, stop playback/recording, and then start playback/recording once again. If you are still unable to play/record correctly, close all sequencer software that had been using the UA-1EX, and re-connect the UA-1EX.

Digitally recorded sound has distortion, the wrong pitch, or contains noise

Is the sampling frequency setting in your sequencer software the same as the sampling frequency of the digital device connected to the digital input connector?
Set your software and the UA-1EX to the same sampling frequency.
If you change the UA-1EX's sampling frequency, you must disconnect the UA-1EX, and then re-connect in order for the new setting to take effect.

Noise or distortion occurs when playing back audio
The sound is too weak

Has a mic been left connected?
If a mic is connected to the UA-1EX, disconnect the mic and turn the input sensitivity knob all the way toward the left (lowering the input level).

Have you connected the grounding terminal?
Connecting the chassis of your computer or the grounding terminal of your computer's AC power cord to an electrical ground may solve the problem. Also, make sure that a device that produces a strong magnetic field, such as a television or microwave oven, is not located nearby.

Could numerous audio devices be connected?
Noise may occur if numerous audio devices are connected. Do not connect audio devices you are not using.

Sound from the device connected to the input jacks is distorted

Use the UA-1EX's input volume to reduce the input level.

Insufficient volume from a device connected to the line input jacks

Could you be using a connection cable with a built-in resistor?
Please use a connection cable that does not contain a built-in resistor (such as one from the Roland PCS series).

Is the input volume raised to the appropriate level?
Try using the input volume to raise the input level.

Others

The volume changed when you resumed from Suspend or Hibernation status

When Windows 2000 resumes from Suspend or Hibernation, the output volume setting is changed due to a problem of Windows.

Using the Windows volume controls, adjust the **USB audio (speaker)** volume slider.
(➔**"Volume Control setting"** (p. 51))

Deleting the driver

If you were unable to install the driver according to the procedure given, the UA-1EX may not be recognized correctly by the computer. In this case, use the following procedure to delete the driver, and then follow the procedure in **"Getting Connected and Installing Drivers"** (**Windows** (p. 15), **Macintosh** (p. 27)) to install the driver once again.

Windows users

1. With the UA-1EX disconnected, start up Windows.
   Disconnect all USB cables except for a USB keyboard and USB mouse (if used).

   * *If you are using Windows XP Professional/2000, you must log on using a user name with an administrative account type (e.g., Administrator).*

2. Insert the CD-ROM into the CD-ROM drive of your computer.

3. Click the Windows **Start** button. From the menu that appears, select **"Run...."**
   In the **"Run..."** dialog box, input the following into the **"Open"** field, and click **[OK]**.

Windows XP/2000 users:	**D:\Driver\XP2k\Uninstal.EXE**
Windows Me/98 users:	**D:\Driver\Me98\Uninstal.EXE**

   * *The drive name **D**: may be different on your system. Use the drive name for your CD-ROM drive.*

4. Follow the on-screen instructions to uninstall the driver.
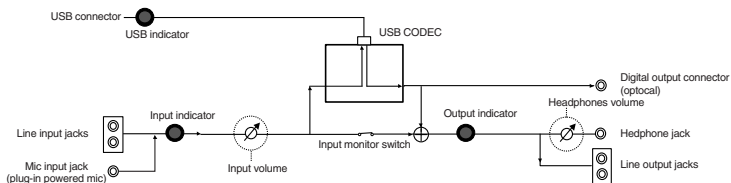
Macintosh users

Macintosh (Mac OS X) users

1. With the UA-1EX disconnected, start up Macintosh.
  * *Disconnect all USB cables except for a USB keyboard and USB mouse (if used).*

2. Exit all currently running software (applications).
  If you are using virus checking or similar software, be sure to exit it as well.

3. Prepare the CD-ROM.
  Insert the CD-ROM into the CD-ROM drive of your Macintosh.

4. In the **Driver (Mac OS X)** folder of the CD-ROM, double-click **"UA1EX_Uninstaller."**
  * *The display will indicate **"This uninstalls EDIROL UA-1EX driver from this Macintosh.",** click **[Uninstall]**.
  The display will indicate **"Are you sure to uninstall the driver?",** click **[OK]**.*

5. The **"Authenticate"** dialog box will appear, enter the password and click **[OK]**.

6. The display will indicate **"Uninstllation is completed.",** click **[Restart]**. Your Macintosh will then restart.
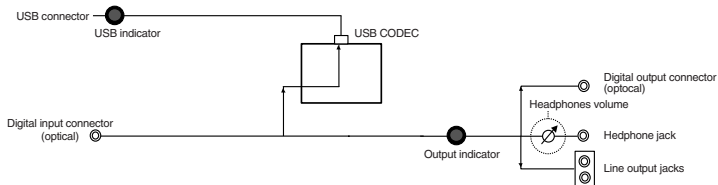
Macintosh (Mac OS 9) users

1. With the UA-1EX disconnected, start up Windows.
  * *Disconnect all USB cables except for a USB keyboard and USB mouse (if used).*

2. Drag **"USB UA-1EX Driver"** from the **Extensions folder** into the **Trash** to delete it.

3. Drag the ASIO driver that you installed in **"Installing the ASIO driver"** (p. 30) into the **Trash** to delete it.
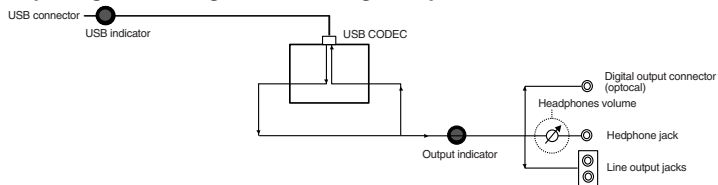
4. Restart the Macintosh.

UA-1EX Block Diagram

■ **When the recording source select switch is set to ANALOG**

USB connector — USB indicator — USB CODEC

Line input jacks

Mic input jack
(plug-in powered mic)

Input indicator

Input volume

Input monitor switch

Output indicator

Digital output connector (optical)

Headphones volume

Hedphone jack

Line output jacks

■ **When the recording source select switch is set to DIGITAL**

USB connector — USB indicator — USB CODEC

Digital input connector
(optical)

Output indicator

Digital output connector (optical)

Headphones volume

Hedphone jack

Line output jacks

■ **When the recording source select switch is set to DIGITAL, and no input signal is being sent to the digital input connector**

USB connector — USB indicator — USB CODEC

Output indicator

Digital output connector (optical)

Headphones volume

Hedphone jack

Line output jacks

Main Specifications

UA-1EX: USB Audio Interface

● **Number of Audio Record/Playback Channels**
Record: 1 pair of stereo
Play: 1 pair of stereo
  REC SOURCE switch = ANALOG:
    Full duplex (except for 96 kHz setting)
  REC SOURCE switch = DIGITAL:
    Recording only

● **Signal Processing**
PC interface: 24 bits
(24-bit operation is available only when ADVANCE switch = ON)
AD/DA Conversion: 24 bits (linear)
 * *ADVANCE switch = OFF: 16 bits*

● **Sampling Frequency**
Digital output: 32/44.1/48/96 kHz
Digital input: 32/44.1/48/96 kHz
AD/DA Conversion: 32/44.1/48/96 kHz
 * *ADVANCE switch = OFF: 32/44.1/48 kHz*

● **Nominal Input Level**
Line input jacks: -10 to +4 dBu
Mic input jack: -40 dBu

● **Nominal Output Level**
Line output jacks: -10 dBu

● **Interface**
USB
Digital input (Optical type)
Digital output (Optical type)
 * *conforms to IEC60958 consumer format*
 * *The same jack serves as both the headphones jack and digital output connector.*

 * *0 dBu = 0.775 Vrms*
 * *In the interest of product improvement, the specifications, appearance, and/or contents of this unit are subject to change without prior notice.*

● **Controllers**
ADVANCED switch
INPUT VOLUME
PHONES VOLUME
SAMPLE RATE switch
96kHz MODE switch
INPUT MONITOR switch
REC SOURCE switch

● **Connectors**
USB Connector (B type)
Line Input jacks (L, R) (RCA phono type)
Line Output jacks (L, R) (RCA phono type)
Headphones jack (Stereo miniature phone type)
Digital Intput connector (Optical type)
Digital Output connector (Optical type)
Mic Input jack (Plug-in powered miniature phone type)
 * *The same jack serves as both the headphones jack and digital output connector.*

● **Power Supply**
Supplied from the computer

● **Current Draw**
200 mA

● **Dimensions**
127 (W) x 61 (D) x 22 (H) mm
5 (W) x 2-7/16 (D) x 7/8 (H) inches

● **Weight**
140 g / 5 oz

● **Accessories**
Owner's Manual
CD-ROM

Anschlüsse herstellen und Treiber installieren (Windows)

Treiber installieren

Schritte, die am UA-1EX selbst durchgeführt werden müssen, sind mit einem `Operation of the UA-1EX` Symbol gekennzeichnet.

Windows XP/2000-Anwender

1. Starten Sie Windows, das UA-1EX ist dabei nicht angeschlossen.
Schließen Sie das UA-1EX erst an den Computer an, wenn Sie Schritt 13 erreicht haben (S. 72).

  * *Entfernen Sie sämtliche USB-Kabel außer denen der USB-Tastatur und der USB-Maus (falls vorhanden).*
  * *Melden Sie sich in Windows mit einem Benutzernamen an, der über Administrationsrechte verfügt (beispielsweise Administrator).*

2. Öffnen Sie das Dialogfeld **Systemeigenschaften**.

  Windows XP-Benutzer

  1. Klicken Sie auf das Windows-**Start**-Menü und wählen Sie im Folgemenü **Systemsteuerung**.
  2. Klicken Sie in **"Wählen Sie eine Kategorie"** auf **"Leistung und Wartung."**
  3. Klicken Sie in **"oder wählen Sie ein Systemsteuerungssymbol"** auf das Symbol **System**.
  Je nach Einstellung wird das Symbol **System** manchmal direkt in der klassischen Ansicht der **Systemsteuerung** angezeigt. Wenn das der Fall ist, klicken Sie auf das Symbol **System**.

  Windows 2000-Anwender

  1. Klicken Sie auf das Windows-**Start**-Menü und wählen Sie im Folgemenü **Systemsteuerung**.
  2. Doppelklicken Sie auf das **System**-Symbol in **Systemsteuerung**.

3. Klicken Sie auf den Reiter **Hardware** und dann auf **[Treibersignatur]**.
Daraufhin werden die **Treibersignaturoptionen** angezeigt.

4. Wählen Sie im Dialogfeld **Treibersignaturoptionen** die Option **"Ignorieren"**, und klicken Sie danach auf **[OK]**.
Wenn aktuell "Warnen" oder "Sperren" gewählt ist, ändern Sie diese Einstellung auf **"Ignorieren".**
Stellen Sie nach der Installation des Treibers die ursprüngliche Einstellung wieder her.

5. Klicken Sie auf **[OK]** zum Schließen des Dialogfelds **Systemeigenschaften**.

6. Beenden Sie alle aktuell ausgeführten Programme (Anwendungen).
Schließen Sie außerdem alle noch geöffneten Programmfenster. Wenn eine Anti-Virus- oder ähnliche Software benutzen, müssen Sie diese Programme ebenfalls beenden.

7. Halten Sie die CD-ROM bereit.
   Legen Sie die CD-ROM in das CD-ROM-Laufwerk Ihres Computers ein. Wenn die Meldung **"Windows kann jedes Mal, wenn Sie eine Diskette einlegen oder ein Gerät mit dieser Dateiart anschließen, die gleiche Aktion ausführen"** angezeigt wird, klicken Sie auf **[Abbrechen]**.

8. Wählen Sie **"Ausführen..."** aus dem Windows-**Start**-Menü.
   Die Dialogbox **"Ausführen..."** erscheint.

9. Geben Sie Folgendes in das **Öffnen**-Feld des Dialogfeldes **Ausführen** ein und klicken Sie auf **[OK]**.

   D: \Driver\XP2k\setup.exe

   * *Der Name des Laufwerks ist "D:" in dem hier gezeigten Beispiel, er kann aber auf Ihrem System anders lauten. Geben Sie den Laufwerknamen Ihres CD-ROM-Laufwerks an.*

10. Daraufhin wird die Dialogbox **Treiber-Setup** angezeigt.
    Klicken Sie auf **[Weiter]**.

11. Um die Installation zu beginnen, klicken Sie noch einmal auf **[Weiter]**. Die Installation beginnt dann.

    Windows XP-Benutzer

    Wenn die **"Treibersignaturoptionen"** in Schritt 4 auf etwas anderes als **"Ignorieren"** eingestellt wurden, erscheint ein **"!"** oder ein **"x"** Symbol. Wenn **[Installation fortsetzen]** angezeigt wird, klicken Sie auf **[Installation fortsetzen]**. Wenn Sie die Installation nicht fortsetzen können, klicken Sie auf **[OK]** und wiederholen die Treiberinstallation ab Schritt 1.

    Windows 2000-Anwender

    Wenn die **"Treibersignaturoptionen"** in Schritt 4 auf etwas anderes als **"Ignorieren"** eingestellt wurden, erscheint die Meldung **"Digitale Signatur nicht gefunden"**. Wenn **[Ja]** angezeigt wird, klicken Sie auf **[Ja]**, um die Installation fortzusetzen. Wenn Sie die Installation nicht fortsetzen können, klicken Sie auf **[OK]** und wiederholen die Treiberinstallation ab Schritt 1.

    Das Dialogfeld **"Setup is now ready to install the drivers"** erscheint.

12. Operation of the UA-1EX Stellen Sie den **ADVANCED (mode select) switch** des UA-1EX in die Position **ON**.

    * *Der Treiber kann gemäß der folgenden Anleitung nicht installiert werden, wenn der Schalter auf OFF steht.*

13. `Operation of the UA-1EX` Schließen Sie das UA-1EX an Ihren Computer an.

Die Meldung **"Neue Hardware gefunden"** wird angezeigt. Bitte warten Sie.

* *Dieses Gerät ist mit einem Schutzschaltkreis ausgestattet. Nach dem Anschluss benötigt das UA-1EX eine kurze Zeitspanne von einigen Sekunden, bis es den normalen Betrieb aufnimmt.*

Windows XP-Benutzer

1. Der **Assistent Neue Hardware gefunden** erscheint.
Wenn die Meldung **"Mit Windows Update verbinden, um neue Software zu suchen?"** erscheint, wählen Sie **"Nein"** und klicken dann auf **[Weiter]**.

2. Stellen Sie sicher, dass **"EDIROL UA-1EX"** angezeigt wird. Danach wählen Sie **"Nach dem besten Treiber an diesen Orten suchen"** und klicken auf **[Weiter]**.
Wenn die **"Treibersignaturoptionen "** in Schritt 4 auf etwas anderes als **"Ignorieren"** eingestellt wurde, erscheint ein Dialogfeld mit einem **"!"** Symbol. Klicken Sie auf **[Installation fortsetzen]**, um die Installation fortzusetzen.

Windows 2000-Anwender

Wenn die **"Treibersignaturoptionen"** in Schritt 4 auf etwas anderes als **"Ignorieren"** eingestellt wurden, erscheint die Meldung **"Digitale Signatur nicht gefunden"**. Klicken Sie auf **[Ja]**, um die Installation fortzusetzen.

14. Es erscheint die Dialogbox **"Abschließen der Installation neuer Hardware"**. Klicken Sie auf **[Fertig stellen]**.

15. Klicken Sie in der Dialogbox **Treiber-Setup** auf **[Schließen]**.

Damit wird die Treiberinstallation abgeschlossen. Wenn die Dialogbox **Systemeigenschaften ändern** erscheint, klicken Sie auf **[Ja]**. Windows startet automatisch neu.

* *Wenn Sie die Einstellungen der **"Treibersignaturoptionen"** geändert haben, stellen Sie wieder die ursprünglichen Einstellungen her, nachdem Windows neu gestartet hat.*

Anschlüsse herstellen und Treiber installieren (Macintosh)

Mac OS X-Anwender

Schritte, die am UA-1EX selbst durchgeführt werden müssen, sind mit einem **Operation of the UA-1EX** Symbol gekennzeichnet.

Treiberinstallation

*   *Geben Sie in das eventuell erscheinende Dialogfeld **"Authenticate"** (Authentifizierung) das Kennwort ein und klicken Sie auf **[OK]**.*
*   *Die aktuelle Anzeige auf Ihrem Computerbildschirm kann anders aussehen und hängt davon ab, welchen Computer und welches Betriebssystem Sie nutzen.*

1. Starten Sie Ihren Macintosh, das UA-1EX ist dabei nicht angeschlossen.
*   *Entfernen Sie sämtliche USB-Kabel außer denen der USB-Tastatur und der USB-Maus (falls vorhanden).*

2. Beenden Sie alle aktuell ausgeführten Programme (Anwendungen).
Wenn Sie ein Virenschutzprogramm oder ähnliche Software verwenden, müssen Sie diese ebenfalls beenden.

3. Halten Sie die CD-ROM bereit und legen Sie sie in das CD-ROM-Laufwerk Ihres Macintosh ein.

4. Doppelklicken Sie im Ordner **Driver (Mac OS X)** auf der CD-ROM auf **UA1EXUSBDriver.pkg**.
*   *Es kann eine Mitteilung wie **"This Installer package needs to..."** erscheinen. Klicken Sie auf **"Continue".***

5. In der Anzeige erscheint **"Welcome to the EDIROL UA-1EX Driver Installer".**
Klicken Sie auf **[Continue]**.

6. In der Anzeige erscheint **"Select a Destination".** Wählen Sie mit einem Mausklick das Laufwerk aus, auf dem das Betriebssystem installiert ist, und klicken Sie dann auf **[Continue]**.
*   *Wählen Sie Ihre Bootfestplatte als Laufwerk.*

7. In der Anzeige erscheint **"Easy Install".**
Klicken Sie auf **[Install]** oder **[Upgrade]**.

8. In der Anzeige erscheint **"Installing this software requires you to restart your computer when the installation is done"** (Neustart nach Installation erforderlich).
Klicken Sie auf **[Continue Installation]**.

9. In der Anzeige erscheint **"The software was successfully installed"** (Die Software wurde erfolgreich installiert).
Klicken Sie auf **[Restart]**, um Ihren Computer neu zu starten.

Damit ist die Installation des UA-1EX-Treibers abgeschlossen.
Als nächstes nehmen Sie die Audiogeräteeinstellungen vor. (**"Einstellungen der Eingabe-/Ausgabegeräte"** (S. 74))

Einstellungen der Eingabe-/Ausgabegeräte

Wenn Sie das UA-1EX mit der iTunes-Sequenzer-Software des Macintosh nutzen wollen, müssen Sie die Ein- und Ausgabegeräte wie folgt spezifizieren.
Das genaue Verfahren zur Durchführung der Geräteeinstellungen hängt von der eingesetzten Sequenzer-Software ab. Einzelheiten finden Sie im Handbuch für Ihre Anwendung.

* *Die aktuelle Anzeige auf Ihrem Computerbildschirm kann anders aussehen und hängt davon ab, welchen Computer und welches Betriebssystem Sie nutzen.*

1. **Operation of the UA-1EX** Stellen Sie den **ADVANCED (mode select) switch** des UA-1EX in die Position **ON**.

* *Der Treiber kann gemäß der folgenden Anleitung nicht installiert werden, wenn der Schalter auf OFF steht.*

2. **Operation of the UA-1EX** Schließen Sie das UA-1EX an Ihren Macintosh an.

* *Dieses Gerät ist mit einem Schutzschaltkreis ausgestattet. Nach dem Anschluss benötigt das UA-1EX eine kurze Zeitspanne von einigen Sekunden, bis es den normalen Betrieb aufnimmt.*

3. Öffnen Sie die **"Systemeinstellungen"** und klicken Sie auf **"Sound"**.

4. Setzen Sie im Register **Sound Effects** (Soundeffekte) die Option **"Play alerts and sound effects through"** (Warntöne und Klangeffekte abspielen über) auf **"EDIROL UA-1EX 44,1 kHz"**.

* *Obwohl hier "44,1 kHz" für die Erklärungen verwendet wird, sind diese Änderungen von der tatsächlichen Einstellung des Sampling frequency select switch Sample-Frequenzschalters Ihres UA-1EX abhängig.*

5. Setzen Sie im Register **Output** die Option **"Choose a device for sound output"** (Gerät für Soundausgabe wählen) auf **"EDIROL UA-1EX 44,1 kHz"**.

* *Wenn Sie Sound über die Lautsprecher Ihres Macintosh wiedergeben möchten, trennen Sie das UA-1EX von Ihrem Macintosh.*

6. Setzen Sie im Register **Input** die Option **"Choose a device for sound input"** auf **"EDIROL UA-1EX 44,1 kHz"**.

7. Nachdem Sie alle Einstellungen vorgenommen haben, schließen Sie das Dialogfeld.
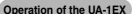

Vor dem Einsatz Ihrer Sequenzer-Software mit dem UA-1EX beachten Sie bitte die folgenden Hinweise:

• Schließen Sie das UA-1EX an Ihren Computer an, bevor Sie die Sequenzer-Software starten.
• Trennen Sie das UA-1EX während des laufenden Betriebs Ihrer Sequenzer-Software nicht vom Computer.
  Beenden Sie Ihre Sequenzer-Software, bevor Sie das UA-1EX ausschalten.
• Das UA-1EX funktioniert nicht in der klassischen Umgebung von Mac OS X. Benutzen Sie das Gerät, wenn die klassische Umgebung nicht läuft.
• Detaillierte Informationen zu den Einstellungen Ihrer Sequenzer-Software finden Sie im Handbuch zu Ihrem Programm.

Damit sind die Einstellungen der Audio-Eingabe/Ausgabe abgeschlossen.

Connexion et installation des pilotes (Windows)

Installation du pilote spécial

Les opérations à exécuter sur l'UA-1EX sont signalées par le symbole **Operation of the UA-1EX** .

Windows XP/2000

1. L'UA-1EX n'étant pas branché, lancer Windows.
   Ne pas raccorder l'UA-1EX à l'ordinateur avant le point 13 (p. 77).
   * *Débrancher tous les câbles USB, sauf ceux d'éventuels clavier ou souris USB.*
   * *Ouvrir une session Windows en tant qu'utilisateur doté de droits d'administration (Administrateur, par exemple).*

2. Ouvrir la boîte de dialogue **Propriétés système**.

   #### Windows XP
   1. Cliquer sur le menu **Démarrer** de Windows et sélectionner **Panneau de configuration**.
   2. Dans **"Choisissez une catégorie"** cliquer sur **"Performances et maintenance."**
   3. Dans **"ou choisissez une icône du Panneau de configuration"** cliquer sur l'icône **Système**.
      Selon la configuration, l'icône **Système** peut s'afficher directement dans le **Panneau de configuration** ("Vue classique"). Dans ce cas, double-cliquer sur l'icône **Système**.

   #### Windows 2000
   1. Cliquer sur le menu **Démarrer** de Windows et sélectionner **Paramètres** | **Panneau de configuration** dans le menu qui s'affiche.
   2. Dans le **Panneau de configuration**, double-cliquer sur l'icône **Système**.

3. Cliquer sur l'onglet **Matériel**, puis cliquer sur **[Signature du pilote]**.
   La boîte de dialogue **Options de signature du pilote** s'affiche.

4. Dans la boîte de dialogue **Options de signature du pilote**, sélectionner **"Ignorer"** et cliquer sur **[OK]**.
   Si le paramètre actuel est "Avertir" ou "Bloquer"), le remplacer par **"Ignorer"**. Rétablir le paramètre précédent après installation du pilote.

5. Cliquer sur **[OK]** pour fermer la boîte de dialogue **Propriétés système**.

6. Fermer tous les logiciels (applications) actifs.
   Fermer également toutes les fenêtres éventuellement ouvertes. Tout programme de type antivirus, etc., en cours d'exécution doit être fermé également.

7. Prendre le CD-ROM.

et l'introduire dans le lecteur de l'ordinateur.

Si le message **"Windows peut effectuer la même action à chaque fois que vous insérez un disque ou connectez un périphérique avec ce type de fichier"** s'affiche, cliquer sur **[Annuler]**.

8. Cliquer sur le bouton **Démarrer** de Windows et sélectionner l'option **Exécuter…**.

La boîte de dialogue **"Exécuter…"** s'affiche.

9. Dans le champ **Ouvrir** de la boîte de dialogue **Exécuter**, saisir le chemin d'accès suivant et cliquer sur **[OK]**.

D: \Driver\XP2k\setup.exe

* *Dans notre exemple, il s'agit de la lettre "D:", mais le nom du lecteur peut varier d'un système à l'autre. Saisir la lettre affectée au lecteur utilisé.*

10. La boîte de dialogue **Driver setup (paramétrage du pilote)** s'affiche.

Cliquer sur **[Suivant]**.

11. Cliquer une nouvelle fois sur **[Suivant]** pour lancer l'installation. L'installation commence.

Windows XP

Si le paramètre **"Options de signature du pilote"** (point 4) est autre que **"Ignorer"**, une boîte de dialogue comportant le symbole **"!"** ou **"x"** s'affiche. Si le bouton **[Continuer]** est présent, il suffit de cliquer sur celui-ci pour poursuivre l'installation. Dans le cas contraire, cliquer sur **[OK]** et reprendre l'installation du pilote à partir du point 1.

Windows 2000

Si le paramètre **"Options de signature du pilote"** (point 4) est autre que **"Ignorer"**, une boîte de dialogue comportant le message **"Signature numérique introuvable"** s'affiche. Si le bouton **[Yes]** est présent, cliquer sur celui-ci pour poursuivre l'installation. Dans le cas contraire, cliquer sur **[OK]** et reprendre l'installation du pilote à partir du point 1.

La boîte de dialogue **"Setup is now ready to install the drivers"** (installation des pilotes prête à démarrer) s'affiche.

12. Operation of the UA-1EX Mettre le commutateur **ADVANCED (mode select) switch** de l'UA-1EX sur **ON**.

* *L'installation du pilote via la marche à suivre ci-après est impossible si le commutateur est en position "OFF".*

13. `Operation of the UA-1EX` Raccorder l'UA-1EX à l'ordinateur.

Le message **"Nouveau matériel détecté"** s'affiche. Veuillez patienter.

* Cet appareil est équipé d'un circuit de protection. Une fois l'UA-1EX raccordé à l'ordinateur, laisser s'écouler quelques secondes avant de l'utiliser.

Windows XP

1. La boîte de dialogue **Nouveau matériel détecté** s'affiche. Si le message **"Connect to Windows Update to search for software?"** s'affiche, sélectionner **"No"** et cliquer sur **[Suivant]**.

2. S'assurer que la mention **"EDIROL UA-1EX"** est présente. Sélectionner alors l'option **"Search for the best driver in these locations"** et cliquer sur **[Next]**.
Si le paramètre **"Options de signature du pilote"** (point 4) est autre que **"Ignorer"**, une boîte de dialogue comportant le symbole **"!"** s'affiche. Cliquer sur **[Continuer]** pour poursuivre l'installation.

Windows 2000

Si le paramètre **"Options de signature du pilote"** (point 4) est autre que **"Ignorer"**, une boîte de dialogue comportant le message **"Signature numérique introuvable"** s'affiche. Cliquer sur **[Yes]** pour poursuivre l'installation.

14. La boîte de dialogue **Completing the found new hardware wizard** (fin Assistant nouveau matériel) s'affiche.
Cliquer sur **[Terminer]**.

15. Dans la boîte de dialogue **Driver setup** (paramétrage du pilote), cliquer sur **[Close]**.

L'installation du pilote est terminée.
Si la boîte de dialogue **"Change System Settings"** (modification des paramètres système) s'affiche, cliquer sur **[Yes]**. Windows redémarre automatiquement.

** Si l'on a modifié les **options de signature du pilote ("Driver Signing Options")** (point 4), rétablir la configuration d'origine après redémarrage de Windows.*

Installation des pilotes et connexions (Macintosh)

Mac OS X

Les opérations à effectuer sur l'UA-1EX sont signalées par le symbole `Operation of the UA-1EX`.

Installation du pilote

* *Si la boîte de dialogue "**Authenticate**" s'affiche pendant l'installation, introduire le mot de passe et cliquer sur "**OK**".*
* *Les données affichées à l'écran peuvent varier selon le type d'ordinateur et de système d'exploitation utilisé.*

1. L'UA-1EX étant déconnecté, démarrer le Macintosh.
  * *Débrancher tous les câbles USB, à l'exception de ceux du clavier et de la souris (le cas échéant).*

2. Fermer tous les logiciels (applications) actifs.
  Si un antivirus ou logiciel de même type est actif, il faut le fermer également.

3. Prendre le CD-ROM.
  et l'introduire dans le lecteur de l'ordinateur.

4. Dans le dossier **Driver (Mac OS X)** du CD-ROM, double-cliquer sur **UA1EXUSBDriver.pkg**.
  * *Un message du genre "**This Installer package needs to..."** s'affiche éventuellement. Cliquer sur "**Continue**".*

5. Le message **"Welcome to the EDIROL UA-1EX Driver Installer"** s'affiche.
  Cliquer sur **[Continue]**.

6. Le message **"Select a Destination"** (sélectionner l'emplacement d'installation) s'affiche.
  Sélectionner le disque dur sur lequel est installé le système d'exploitation, puis cliquer sur **[Continue]**.
  * *Le disque à sélectionner est le disque de démarrage.*

7. **"Easy Install"** s'affiche.
  Cliquer sur **[Install]** ou sur **[Upgrade]**.

8. Le message **"Installing this software requires you to restart your computer when the installation is done"** (redémarrer l'ordinateur à la fin de l'installation) s'affiche.
  Cliquer sur **[Continue installation]**.

9. Le message **"The software was successfully installed"** (installation terminée) s'affiche.
  Cliquer sur **[Restart]** pour redémarrer l'ordinateur.

L'installation du pilote de l'UA-1EX est terminée.
Procéder ensuite au paramétrage audio. (→**"Configuration des périphériques entrée/sortie"** (p. 79))

Configuration des périphériques entrée/sortie

Pour utiliser l'UA-1EX avec le logiciel iTunes fourni avec votre Macintosh, configurer les périphériques entrée/sortie comme suit :
La marche à suivre pour le paramétrage des périphériques dépend du logiciel utilisé. Pour plus de détails sur ces réglages, voir le mode d'emploi du logiciel.

* *Les données affichées à l'écran peuvent varier selon le type d'ordinateur et de système d'exploitation utilisé.*

1. **Operation of the UA-1EX** Mettre le commutateur **ADVANCED (mode select) switch** de l'UA-1EX sur **ON**.

* *L'installation du pilote selon la marche à suivre ci-après est impossible si le commutateur est en position OFF.*

2. **Operation of the UA-1EX** Raccorder l'UA-1EX à l'ordinateur.

* *Cet appareil est équipé d'un circuit de protection. Une fois l'UA-1EX raccordé à l'ordinateur, laisser s'écouler quelques secondes avant de l'utiliser.*

3. Ouvrir **"System Preferences"** et cliquer sur **"Sound".**

4. Dans l'onglet **Sound Effects**, affecter à l'option **"Play alerts and sound effects through"** (lecture des effets sonores et alarmes par) le paramètre **"EDIROL UA-1EX 44.1 kHz."**

* *La fréquence **"44.1 kHz"** est donnée dans ce document à titre d'exemple ; dans la réalité elle est fonction du réglage du **Sampling frequency select switch** de l'UA-1EX.*

5. Dans l'onglet **Output** (sortie), affecter à l'option **"Choose a device for sound output"** (sélectionner un périphérique de sortie audio) le paramètre **"EDIROL UA-1EX 44.1 kHz."**

* *Si le son doit être diffusé par les haut-parleurs internes de l'ordinateur, déconnecter l'UA-1EX de ce dernier.*

6. Dans l'onglet **Input** (entrée), affecter à l'option **"Choose a device for sound input"** (sélectionner un périphérique d'entrée audio) le paramètre **"EDIROL UA-1EX 44.1 kHz."**

7. Une fois terminée la configuration, fermer la boîte de dialogue.
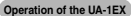
Avant toute utilisation d'un séquenceur logiciel avec l'UA-1EX, prendre en compte les points suivants.

• Avant de lancer le logiciel, brancher l'UA-1EX sur l'ordinateur.
• Ne pas déconnecter l'UA-1EX pendant que le logiciel fonctionne.
  Fermer le logiciel avant de déconnecter l'UA-1EX.
• L'UA-1EX ne fonctionne pas sous l'environnement "Classic" de Mac OS X. Il convient donc de ne l'utiliser que lorsque cet environnement est inactif.
• Pour la configuration du séquenceur logiciel, se reporter à son manuel de l'utilisateur.

La configuration des périphériques entrée/sortie est terminée.

Collegamento e installazione dei driver (Windows)

Installazione del driver

I passi da eseguire sulla UA-1EX stessa sono indicati con il simbolo `Operation of the UA-1EX`.

Utenti Windows XP/2000

1. Avviare Windows con l'UA-1EX scollegato.
   Non collegare l'UA-1EX al computer fino al passo 13 (p. 82).
   * *Scollegare tutti i cavi USB, ad eccezione della tastiera e del mouse USB, se utilizzati.*
   * *Accedere a Windows utilizzando un nome utente con privilegi amministrativi, ad esempio Administrator.*

2. Aprire la finestra di dialogo **Proprietà del sistema.**

   Utenti Windows XP
   1. Dal menu di **avvio** di Windows scegliere **Pannello di controllo**.
   2. In **"Scegliere una categoria"** fare clic su **"Prestazioni e manutenzione".**
   3. In **"o un'icona del Pannello di controllo"** fare clic sull'icona **Sistema**.
      A seconda della configurazione del sistema, l'icona **Sistema** potrebbe essere visualizzata
      direttamente nel **Pannello di controllo** (visualizzazione classica). In questo caso, fare doppio
      clic sull'icona **Sistema**.

   Utenti Windows 2000
   1. Dal menu di **avvio** di Windows scegliere **Impostazioni** | **Pannello di controllo**.
   2. In **Pannello di controllo** fare doppio clic sull'icona **Sistema.**

3. Fare clic sulla scheda **Hardware** e quindi su **[Firma driver]**.
   Verrà visualizzata la finestra di dialogo **Opzioni firma driver.**

4. Nella finestra di dialogo **Opzioni firma driver**, selezionare l'opzione **"Ignora"**, poi fare clic su
   [OK].
   Se l'impostazione corrente è "Avvisa" o "Blocca," modificarla su **"Ignora".** Al termine
   dell'installazione del driver, ripristinare l'impostazione originale.

5. Fare clic su **[OK]** per chiudere la finestra di dialogo **Proprietà del sistema.**

6. Chiudere tutti i programmi in esecuzione.
   Chiudere inoltre tutte le finestre aperte. Se si utilizza un antivirus o un programma simile,
   chiuderlo.

7. Preparare il CD-ROM.

Inserire il CD-ROM nell'apposita unità del computer.

Se viene visualizzato il messaggio **"È possibile eseguire la stessa operazione ogni volta che si inserisce un disco o che si connette una periferica con il seguente tipo di file"** fare clic su **[Annulla]**.

8. Scegliere **Esegui…** dal menu di **avvio** di Windows.

Verrà visualizzata la finestra di dialogo **"Esegui..."**.

9. Nel campo **Apri** della finestra di dialogo **Esegui** immettere la seguente stringa e quindi fare clic su **[OK].**

D: \Driver\XP2k\setup.exe

* *L'identificativo dell'unità è "D:" nell'esempio riportato qui, ma potrebbe essere diverso sul sistema utilizzato. Utilizzare la lettera corrispondente all'unità CD-ROM in uso.*

10. Verrà visualizzata la finestra di dialogo **Installazione driver.**

Fare clic su **[Avanti]**.

11. Per avviare l'installazione, fare di nuovo clic su **[Avanti]** L'installazione avrà inizio.

Utenti Windows XP

Se **"Opzioni firma driver"** al passo 4 è impostato su **"Ignora"** verrà visualizzata una finestra di dialogo con il simbolo **"!"** o **"x"** Se viene visualizzato un pulsante **[Continua]**, fare clic su **[Continua]** per procedere con l'installazione. Se non è possibile continuare, fare clic su **[OK]** e ripetere l'installazione del driver dal passo 1.

Utenti Windows 2000

Se **"Opzioni firma driver"** al passo 4 è impostato su **"Ignora"** verrà visualizzata la finestra di dialogo **"Firma digitale non trovata"**. Se viene visualizzato un pulsante **[Sì]**, fare clic su **[Sì]** per procedere con l'installazione. Se non è possibile continuare, fare clic su **[OK]** e ripetere l'installazione del driver dal passo 1.

Verrà visualizzata la finestra di dialogo **"Setup is now ready to install the drivers"**.

12. Operation of the UA-1EX Spostare l'**ADVANCED (mode select) switch** dell'UA-1EX sulla posizione **ON.**

* *Il driver non può essere installato seguendo la procedura sotto indicata se l'interruttore è impostato su OFF.*

Deutsch

Français

Italiano

Español

81

13. `Operation of the UA-1EX` Collegare l'UA-1EX al computer.

Viene visualizzato il messaggio **"Installazione guidata nuovo hardware"**. Attendere qualche minuto.

* *Questo apparecchio è provvisto di un circuito di protezione. È necessario attendere qualche secondo dopo aver collegato l'UA-1EX prima che l'apparecchio funzioni normalmente.*

Utenti Windows XP

1. Appare la finestra di dialogo **Installazione guidata nuovo hardware.**
   Se viene visualizzato il messaggio **"Consentire la connessione a Windows Update per la ricerca di software?"**, scegliere **"No"** e quindi fare clic su **[Avanti].**

2. Verificare che **"EDIROL UA-1EX"** sia visualizzato, quindi scegliere **"Ricerca il miglior driver disponibile in questi percorsi"** e fare clic su **[Avanti]**.
   Se **"Opzioni firma driver"** al passo 4 è impostato su **"Ignora"** verrà visualizzata una finestra di dialogo con il simbolo **"!"**. Fare clic su **[Continua]** per procedere con l'installazione.

Utenti Windows 2000

Se **"Opzioni firma driver"** al passo 4 è impostato su **"Ignora"** verrà visualizzata la finestra di dialogo **"Firma digitale non trovata"**. Fare clic su **[Sì]** per procedere con l'installazione.

14. Verrà visualizzata la finestra di dialogo **Completamento dell'Installazione guidata nuovo hardware in corso.**
Fare clic su **[Fine]**.

15. Nella finestra di dialogo **Installazione driver** fare clic su **[Chiudi].**

L'installazione del driver è completata.
Se viene visualizzata la finestra di dialogo **Modifica delle impostazioni di sistema**, scegliere **[Sì]**.
Windows verrà riavviato automaticamente.

* *Se è stata modificata l'impostazione nella finestra **"Opzioni firma driver"** al punto 4, ripristinare l'impostazione originale dopo il riavvio di Windows.*

Collegamento e installazione dei driver (Macintosh)

Utenti Mac OS X

I passi da eseguire sulla UA-1EX stessa sono indicati con il simbolo `Operation of the UA-1EX`.

Installazione del driver

*   * *Se durante l'installazione viene visualizzata la finestra di dialogo "**Authenticate**", inserire la password e fare clic su "**OK**".*
*   * *La schermata visualizzata potrebbe variare a seconda dell'ambiente e del sistema operativo installato.*

1. Dopo aver scollegato l'UA-1EX, avviare il Macintosh.
   * *Scollegare tutti i cavi USB, ad eccezione della tastiera e del mouse USB, se utilizzati.*

2. Chiudere tutti i programmi in esecuzione.
   Se si utilizza un programma antivirus o simile, accertarsi che sia anch'esso chiuso.

3. Preparare il CD-ROM.
   Inserire il CD nell'apposita unità del Macintosh.

4. Nella cartella **Driver(Mac OS X)** del CD-ROM, fare doppio clic su **UA1EXUSBDriver.pkg**.
   * *È possibile che venga visualizzato un messaggio simile a "**This Installer package needs to...**"
   Fare clic su "**Continua**".*

5. Sullo schermo comparirà il seguente messaggio: "**Welcome to the EDIROL UA-1EX Driver Installer**".
   Fare clic su **[Continue]**.

6. Sullo schermo verrà visualizzato il messaggio: "**Select a Destination**".
   Selezionare l'unità in cui è installato il sistema operativo e fare clic su **[Continua]**.
   * *Selezionare il disco di avvio come unità.*

7. Verrà visualizzato il messaggio "**Installazione Standard**".
   Fare clic su **[Installa]** o **[Upgrade]**.

8. Verrà visualizzato il messaggio "**Installing this software requires you to restart your computer when the installation is done.**"
   Fare clic su **[Continua installazione]**.

9. Verrà visualizzato il messaggio "**The software was successfully installed**".
   Fare clic su **[Riavvia]** per riavviare il computer.

   L'installazione del driver UA-1EX è giunta al termine.
   Successivamente, configurare il dispositivo audio. (→"**Impostazioni dei dispositivi di ingresso/uscita**" (p. 84))

Impostazioni dei dispositivi di ingresso/uscita

Se si intende utilizzare l'UA-1EX con il sequencer iTunes fornito insieme al proprio Macintosh, specificare i dispositivi di ingresso/uscita come segue.
La procedura per le impostazioni del dispositivo è diversa a seconda del sequencer che si sta utilizzando. Per maggiori informazioni, fare riferimento al manuale utente del programma utilizzato.

* *La schermata visualizzata potrebbe variare a seconda dell'ambiente e del sistema operativo installato.*

1. `Operation of the UA-1EX` Spostare l'**ADVANCED (mode select) switch** dell'UA-1EX sulla posizione **ON.**

* *Il driver non può essere installato seguendo la procedura sotto indicata se l'interruttore è impostato su OFF.*

2. `Operation of the UA-1EX` Collegare l'UA-1EX al Macintosh.

* *Questo apparecchio è provvisto di un circuito di protezione. È necessario attendere qualche secondo dopo aver collegato l'UA-1EX prima che l'apparecchio funzioni normalmente.*

3. Aprire **"System Preferences"** e fare clic su **"Sound"**.

4. Nella scheda **Sound Effects**, impostare **"Play alerts and sound effects through"** su **"EDIROL UA-1EX 44.1 kHz"**.

* *Il valore "44.1 kHz" è utilizzato in queste pagine solo a fini esplicativi; quello reale dipenderà dall'effettiva impostazione dell'Sampling frequency select switch sull'UA-1EX.*

5. Nella scheda **Output**, impostare **"Choose a device for sound output"** su **"EDIROL UA-1EX 44.1 kHz"**.

* *Se si desidera che il suono venga emesso dai diffusori del Macintosh, scollegare l'UA-1EX dal Macintosh.*

6. Nella scheda **Input**, impostare **"Choose a device for sound input"** su **"EDIROL UA-1EX 44.1 kHz"**.

7. Al termine delle impostazioni, chiudere la finestra di dialogo.

Prima di utilizzare il proprio sequencer con l'UA-1EX, si prega di tenere presente quanto segue

• Prima di avviare il software sequencer, collegare l'UA-1EX al computer.
• Non scollegare l'UA-1EX mentre il sequencer è in esecuzione.
  Chiudere il software sequencer prima di scollegare l'UA-1EX.
• L'UA-1EX non funzionerà in ambiente Classic Mac OS X. Utilizzarlo quando l'ambiente Classic non è in esecuzione.
• Per ulteriori informazioni sulle impostazioni, fare riferimento al manuale utente del software sequencer.

La procedura di configurazione delle impostazioni di ingresso/uscita audio è giunta al termine.

Conexión e instalación de los controladores (Windows)

Instalación del controlador

Los pasos que deben realizarse en el propio UA-1EX aparecen marcados con el símbolo
Operation of the UA-1EX.

Usuarios de Windows XP/2000

1. Con el UA-1EX desconectado, inicie Windows.
   No conecte el UA-1EX al equipo hasta que llegue al Paso 13 (pág. 87).
   * *Desconecte todos los cables USB excepto el del teclado USB y el ratón USB (si se utilizan).*
   * *Inicie sesión en Windows utilizando un nombre de usuario con privilegios de administrador (como Administrador).*

2. Abra el cuadro de diálogo **Propiedades del sistema**.

   Usuarios de Windows XP
   1. Haga clic en el menú **Inicio** de Windows y seleccione **Panel de control**.
   2. En **"Elija una categoría"**, haga clic en **"Rendimiento y mantenimiento."**
   3. En **"o elija un icono del Panel de control"**, haga clic en el icono **Sistema**.
      En función de la configuración, puede que el icono **Sistema** aparezca directamente en el **Panel de control** (en la Vista clásica). En este caso, haga doble clic en el icono **Sistema**.

   Usuarios de Windows 2000
   1. Haga clic en el menú **Inicio** de Windows y seleccione **Configuración** | **Panel de control**.
   2. En el **Panel de control**, haga doble clic en el icono **Sistema**.

3. Haga clic en la ficha **Hardware** y, a continuación, en **[Firma de controladores]**.
   Aparecerá el cuadro de diálogo **Opciones de firma del controlador**.

4. En el cuadro de diálogo **Opciones de firma del controlador**, seleccione **"Ninguna",** y a continuación haga clic en **[Aceptar]**.
   Si la opción seleccionada es "Advertir" o "Bloquear", cámbiela a **"Ninguna."** A continuación, cuando haya acabado de instalar el controlador, vuelva a cambiarla a la opción original.

5. Haga clic en **[Aceptar]** para cerrar el cuadro de diálogo **Propiedades del sistema**.

6. Salga de todos los programas de software que esté ejecutando (aplicaciones).
   Cierre todas las ventanas que estén abiertas. Si está utilizando un antivirus o software similar, deberá cerrar todos estos programas.

7. Prepare el CD-ROM.
Inserte el CD-ROM en la unidad de CD-ROM de su PC.Si aparece el mensaje **"Windows puede realizar la misma acción cada vez que inserte un disco o conecte un dispositivo con este tipo de archivo"**, haga clic en **[Cancelar]**.

8. En el menú **Inicio** de Windows, elija **Ejecutar...**.
Aparecerá el cuadro de diálogo **"Ejecutar..."**.

9. En el campo **Abrir** del cuadro de diálogo **Ejecutar**, escriba lo siguiente y haga clic en **[Aceptar]**.

D: \Driver\XP2k\setup.exe

   * En nombre de la unidad es "D": en el ejemplo descriptivo mostrado en esta página, pero puede ser otro en su sistema. Use el nombre de la unidad de CD-ROM.

10. Aparecerá el cuadro de diálogo **Configuración del controlador**.
Haga clic en **[Siguiente]**.

11. Para comenzar la instalación, haga clic en **[Siguiente]** de nuevo. Se iniciará la instalación.

   Usuarios de Windows XP

     Si **"Opciones de firma del controlador"** en el paso 4 es cualquier valor que no sea **"Ninguna",** aparece un cuadro de diálogo con el símbolo **"!"** o **"x"**. Si aparece un botón de **[Continuar]**, haga clic en **[Continuar]** para proseguir con la instalación. Si no puede continuar, haga clic en **[Aceptar]** y repita la instalación del controlador desde el paso 1.

   Usuarios de Windows 2000

     Si **"Opciones de firma del controlador"** en el paso 4 es cualquier valor que no sea **"Ninguna",** aparece un cuadro de diálogo que indica **"Firma digital no encontrada"**. Si aparece un botón de **[Sí]**, haga clic en **[Sí]** para proseguir con la instalación. Si no puede continuar, haga clic en **[Aceptar]** y repita la instalación del controlador desde el paso 1.

   Aparecerá el cuadro de diálogo **"El programa de instalación está preparado para instalar el controlador"**.

12. `Operation of the UA-1EX` Ajuste el **ADVANCED (mode select) switch** del UA-1EX en **ON**.

   * El controlador no se puede instalar mediante el siguiente procedimiento si el interruptor está en OFF.

86

13. `Operation of the UA-1EX` Conecte el UA-1EX al ordenador.

Aparecerá un mensaje de **"Hardware nuevo encontrado"**. Espere.

   * *Esta unidad está provista de un circuito de protección. Es necesario dejar pasar un pequeño intervalo (de unos segundos) después de conectar el UA-1EX para que la unidad funcione correctamente.*

Usuarios de Windows XP

  1. Aparecerá el cuadro de diálogo del **Asistente para hardware nuevo encontrado**. Si aparece el mensaje **"¿Conectar a Windows Update para buscar software?"**, elija **"No"** y a continuación haga clic en **[Siguiente]**.

  2. Asegúrese de que se indica **"EDIROL UA-1EX"**. A continuación, seleccione **"Buscar mejor controlador en estas ubicaciones"** y haga clic en **[Siguiente]**.
Si **"Opciones de firma del controlador"** en el paso 4 es cualquier valor que no sea **"Ninguna",** aparecerá un cuadro de diálogo con el símbolo **"!"** . Haga clic en **[Continuar]** para proseguir con la instalación.

Usuarios de Windows 2000

  Si **"Opciones de firma del controlador"** en el paso 4 es cualquier valor que no sea **"Ninguna",** aparece un cuadro de diálogo que indica **"Firma digital no encontrada"**. Haga clic en **[Sí]** para proseguir con la instalación.

14. Aparecerá el cuadro de diálogo **finalización del Asistente para hardware nuevo encontrado**. Haga clic en **[Finalizar]**.

15. En el cuadro de diálogo **Configuración del controlador**, haga clic en **[Cerrar]**.

La instalación del controlador ha finalizado.
Si aparece el cuadro de diálogo **Cambio de configuración del sistema**, haga clic en **[Sí]**.
Windows se reiniciará automáticamente.

   * *Si ha cambiado la configuración de **"Opciones de firma de controlador"** en el paso 4, restablezca la configuración original después de reiniciar Windows.*

Conexión e instalación de los controladores (Macintosh)

Usuarios de Mac OS X

Los pasos que deben realizarse en el propio UA-1EX aparecen marcados con el símbolo
Operation of the UA-1EX.

Instalación del controlador

* *Si aparece el cuadro de diálogo **"Authenticate"** durante la instalación, introduzca la contraseña y haga clic en **"OK"**.*
* *En la pantalla del equipo podrá aparecer información diferente, en función de su entorno informático y del sistema operativo que esté utilizando.*

1. Con el UA-1EX desconectado, inicie el Macintosh.
   * *Desconecte todos los cables USB excepto el del teclado USB y el ratón USB (si se utilizan).*
2. Salga de todos los programas de software que esté ejecutando (aplicaciones).
   Si utiliza un programa antivirus o software similar, también deberá cerrarlo.
3. Prepare el CD-ROM.
   Inserte el CD-ROM en la unidad de CD-ROM del Macintosh.
4. En la carpeta **Driver (Mac OS X)** del CD-ROM, haga doble clic en **UA1EXUSBDriver.pkg**.
   * *Es posible que aparezca un mensaje parecido a **"El paquete del programa de instalación necesita..."**. Haga clic en **"Continuar"**.*
5. Aparecerá el mensaje **"Welcome to the EDIROL UA-1EX Driver Installer"**.
   Haga clic en **[Continue]**.
6. La pantalla indicará **"Select a Destination"**.
   Haga clic en la unidad en la que está instalado el sistema operativo y, a continuación, haga clic en **[Continue]**.
   * *Seleccione el disco de inicio como la unidad.*
7. La pantalla indicará **"Easy Install"**.
   Haga clic en **[Install]** o **[Upgrade]**.
8. La pantalla indicará **"Installing this software requires you to restart your computer when the installation is done"**.
   Haga clic en **[Continue Installation]**.
9. La pantalla indicará **"The software was successfully installed"**.
   Haga clic en **[Restart]** para reiniciar el equipo.

   Con esto finaliza la instalación del controlador UA-1EX.
   A continuación, configure los dispositivos de audio. (→**"Configuración de dispositivos de entrada/salida"** (pág. 89))

Configuración de dispositivos de entrada/salida

Si desea utilizar la unidad UA-1EX con el software del secuenciador iTunes incluido en su Macintosh, especifique los dispositivos de entrada y salida tal como se explica a continuación. El procedimiento para configurar los dispositivos depende del software del secuenciador que utilice. Para obtener más información, consulte el manual del software.

* *En la pantalla del equipo podrá aparecer información diferente, en función de su entorno informático y del sistema operativo que esté utilizando.*

1. **Operation of the UA-1EX** Ajuste el **ADVANCED (mode select) switch** del UA-1EX en **ON**.

* *El controlador no se puede instalar mediante el siguiente procedimiento si el interruptor está en OFF.*

2. **Operation of the UA-1EX** Conecte el UA-1EX al Macintosh.

* *Esta unidad está provista de un circuito de protección. Es necesario dejar pasar un pequeño intervalo (de unos segundos) después de conectar el UA-1EX para que la unidad funcione correctamente.*

3. Abra **"System Preferences"** y haga clic en **"Sound"**.

4. En la ficha **Sound Effects**, establezca **"Play alerts and sound effects through"** en **"EDIROL UA-1EX 44.1 kHz"**.

* *Aunque en este documento se utiliza el valor de **"44,1 KHz"** a modo de ejemplo, éste variará en función de la configuración actual del **Sampling frequency select switch** del UA-1EX.*

5. En la ficha **Output**, establezca **"Choose a device for sound output"** en **"EDIROL UA-1EX 44.1 kHz."**

* *Si desea que el sonido salga de los altavoces del Macintosh, desconecte el UA-1EX del Macintosh.*

6. En la ficha **Input**, establezca **"Choose a device for sound input"** en **"EDIROL UA-1EX 44.1 kHz."**

7. Cuando haya acabado la configuración, cierre el cuadro de diálogo.

Antes de utilizar el software del secuenciador con la unidad UA-1EX, tenga en cuenta lo siguiente

- Antes de iniciar el software del secuenciador, conecte el UA-1EX a su equipo.
- No desconecte el UA-1EX mientras se esté ejecutando el software del secuenciador.
  Cierre el software del secuenciador antes de desenchufar el UA-1EX.
- La unidad UA-1EX no funcionará en el entorno Classic de Mac OS X. Utilícelo cuando el entorno Classic no se esté ejecutando.
- Para obtener información sobre cómo realizar ajustes para el software del secuenciador, deberá consultar asimismo el manual del usuario del software del secuenciador.

De esta forma, finaliza la configuración de entrada/salida de audio.

Information

When you need repair service, call your nearest EDIROL/Roland Service Center or authorized EDIROL/Roland distributor in your country as shown below.

EDIROL

EUROPE

EDIROL (Europe) Ltd.
Studio 3.4 114 Power Road
London W4 5PY U. K.
TEL: +44 (0)20 8747 5949
FAX:+44 (0)20 8747 5948
http://www.edirol.com/europe

Deutschland
TEL: 0700 33 47 65 20
France
TEL: 0810 000 371
Italia
TEL: 02 93778329

Roland

NORTH AMERICA

CANADA
**Roland Canada Music Ltd.
(Head Office)**
5480 Parkwood Way Richmond
B. C., V6V 2M4 CANADA
TEL: (604) 270 6626

U. S. A.
Roland Corporation U.S.
5100 S. Eastern Avenue
Los Angeles, CA 90040-2938,
U. S. A.
TEL: (323) 890 3700

AFRICA

EGYPT
Al Fanny Trading Office
9, EBN Hagar A1 Askalany
Street,
ARD E1 Golf, Heliopolis,
Cairo 11341, EGYPT
TEL: 20-2-417-1828

REUNION
Maison FO - YAM Marcel
25 Rue Jules Hermann,
Chaudron - BP79 97 491
Ste Clotilde Cedex,
REUNION ISLAND
TEL: (0262) 218-429

SOUTH AFRICA
Paul Bothner(PTY)Ltd.
Royal Cape Park, Unit 24
Londonderry Road, Ottery 7800
Cape Town, SOUTH AFRICA
TEL: (021) 799 4900

ASIA

CHINA
**Roland Shanghai Electronics
Co.,Ltd.**
5F. No.1500 Pingliang Road
Shanghai 200090, CHINA
TEL: (021) 5580-0800

**Roland Shanghai Electronics
Co.,Ltd.
(BEIJING OFFICE)**
10F. No.18 3 Section Anhuaxili
Chaoyang District Beijing
100011 CHINA
TEL: (010) 6426-5050

**Roland Shanghai Electronics
Co.,Ltd.
(GUANGZHOU OFFICE)**
2/F., No.30 Si You Nan Er Jie
Yi Xiang, Wu Yang Xin Cheng,
Guangzhou 510600, CHINA
TEL: (020) 8736-0428

HONG KONG
Parsons Music Ltd.
8th Floor, Railway Plaza, 39
Chatham Road South, T.S.T,
Kowloon, HONG KONG
TEL: 2333 1863

INDIA
Rivera Digitec (India) Pvt. Ltd.
409, Nirman Kendra
Mahalaxmi Flats Compound
Off. Dr. Edwin Moses Road,
Mumbai-400011, INDIA
TEL: (022) 2493 9051

INDONESIA
PT Citra IntiRama
J1. Cideng Timur No. 15J-150
Jakarta Pusat
INDONESIA
TEL: (021) 6324170

KOREA
Cosmos Corporation
1461-9, Seocho-Dong,
Seocho Ku, Seoul, KOREA
TEL: (02) 3486-8855

MALAYSIA/
SINGAPORE
Roland Asia Pacific Sdn. Bhd.
45-1, Block C2, Jalan PJU 1/39,
Dataran Prima, 47301 Petaling
Jaya, Selangor, MALAYSIA
TEL: (03) 7805-3263

PHILIPPINES
G.A. Yupangco & Co. Inc.
339 Gil J. Puyat Avenue
Makati, Metro Manila 1200,
PHILIPPINES
TEL: (02) 899 9801

TAIWAN
**ROLAND TAIWAN
ENTERPRISE CO., LTD.**
Room 5, 9fl. No. 112 Chung
Shan N.Road Sec.2, Taipei,
TAIWAN, R.O.C.
TEL: (02) 2561 3339

THAILAND
Theera Music Co. , Ltd.
330 Verng NakornKasem, Soi
2, Bangkok 10100, THAILAND
TEL: (02) 2248821

VIETNAM
**SAIGON MUSIC
DISTRIBUTOR
(TAN DINH MUSIC)**
138 Tran Quang Khai Street
Dist. 1, Ho Chi Minh City
VIETNAM
TEL: (08) 848-4068

AUSTRALIA/
NEW ZEALAND

AUSTRALIA/
NEW ZEALAND
**Roland Corporation
Australia Pty.,Ltd.**
38 Campbell Avenue
Dee Why West. NSW 2099
AUSTRALIA

For Australia
Tel: (02) 9982 8266
For New Zealand
Tel: (09) 3098 715

CENTRAL/LATIN
AMERICA

ARGENTINA
Instrumentos Musicales S.A.
Av.Santa Fe 2055
(1123) Buenos Aires
ARGENTINA
TEL: (011) 4508-2700

BARBADOS
A&B Music Supplies LTD
12 Webster Industrial Park
Wildey, St.Michael, Barbados
TEL: (246)430-1100

BRAZIL
Roland Brasil Ltda.
Rua San Jose, 780 Sala B
Parque Industrial San Jose
Cotia - Sao Paulo - SP, BRAZIL
TEL: (011) 4615 5666

CHILE
Comercial Fancy II S.A.
Rut.: 96.919.420-1
Nataniel Cox #739, 4th Floor
Santiago - Centro, CHILE
TEL: (02) 688-9540

COLOMBIA
Centro Musical Ltda.
Cra 43 B No 25 A 41 Bododega 9
Medellin, Colombia
TEL: (574)3812529

CURACAO
Zeelandia Music Center Inc.
Orionweg 30
Curacao, Netherland Antilles
TEL:(305)5926866

DOMINICAN
REPUBLIC
**Instrumentos Fernando
Giraldez**
Calle Proyecto Central No.3
Ens.La Esperilla
Santo Domingo,
Dominican Republic
TEL:(809) 683 0305

ECUADOR
Mas Musika
Rumichaca 822 y Zaruma
Guayaquil - Ecuador
TEL:(593-4)2302364

GUATEMALA
Casa Instrumental
Calzada Roosevelt 34-01,zona 11
Ciudad de Guatemala
Guatemala
TEL:(502) 599-2888

HONDURAS
Almacen Pajaro Azul S.A. de C.V.
BO.Paz Barahona
3 Ave.11 Calle S.O
San Pedro Sula, Honduras
TEL: (504) 553-2029

MARTINIQUE
Musique & Son
Z.I.Les Mangle
97232 Le Lamantin
Martinique F.W.I.
TEL: 596 596 426860

Gigamusic SARL
10 Rte De La Folie
97200 Fort De France
Martinique F.W.I.
TEL: 596 596 715222

MEXICO
Casa Veerkamp, s.a. de c.v.
Av. Toluca No. 323, Col.
Olivar de los Padres 01780
Mexico D.F. MEXICO
TEL: (55) 5668-6699

NICARAGUA
**Bansbach Instrumentos
Musicales Nicaragua**
Altamira D'Este Calle Principal
de la Farmacia 5ta.Avenida
1 Cuadra al Lago.#503
Managua, Nicaragua
TEL: (505)277-2557

PERU
Audionet
Distribuciones Musicales SAC
Juan Fanning 530
Miraflores
Lima - Peru
TEL: (511) 4461388

TRINIDAD
AMR Ltd
Ground Floor
Maritime Plaza
Barataria Trinidad W.I.
TEL: (868)638 6385

URUGUAY
Todo Musica S.A.
Francisco Acuna de Figueroa 1771
C.P.: 11.800
Montevideo, URUGUAY
TEL: (02) 924-2335

VENEZUELA
Instrumentos Musicales
Allegro,C.A.
Av.las industrias edf.Guitar
import
#7 zona Industrial de Turumo
Caracas, Venezuela
TEL: (212) 244-1122

(EUROPE)

AUSTRIA
Roland Elektronische
Musikinstrumente HmbH.
Austrian Office
Eduard-Bodem-Gasse 8,
A-6020 Innsbruck, AUSTRIA
TEL: (0512) 26 44 260

**BELGIUM/FRANCE/
HOLLAND/
LUXEMBOURG**
Roland Central Europe N.V.
Houtstraat 3, B-2260, Oevel
(Westerlo) BELGIUM
TEL: (014) 575811

CZECH REP.
K-AUDIO
Kardasovska 626.
CZ-198 00 Praha 9,
CZECH REP.
TEL: (2) 666 10529

DENMARK
Roland Scandinavia A/S
Nordhavnsvej 7, Postbox 880,
DK-2100 Copenhagen
DENMARK
TEL: 3916 6200

FINLAND
Roland Scandinavia As, Filial
Finland
Elannontie 5
FIN-01510 Vantaa, FINLAND
TEL: (0)9 68 24 020

GERMANY
Roland Elektronische
Musikinstrumente HmbH.
Oststrasse 96, 22844
Norderstedt, GERMANY
TEL: (040) 52 60090

GREECE
STOLLAS S.A.
Music Sound Light
155, New National Road
Patras 26442, GREECE
TEL: 2610 435400

HUNGARY
Roland East Europe Ltd.
Warehouse Area 'DEPO' Pf.83
H-2046 Torokbalint,
HUNGARY
TEL: (23) 511011

IRELAND
Roland Ireland
G2 Calmount Park, Calmount
Avenue, Dublin 12
Republic of IRELAND
TEL: (01) 4294444

ITALY
Roland Italy S. p. A.
Viale delle Industrie 8,
20020 Arese, Milano, ITALY
TEL: (02) 937-78300

NORWAY
Roland Scandinavia Avd.
Kontor Norge
Lilleakerveien 2 Postboks 95
Lilleaker N-0216 Oslo
NORWAY
TEL: 2273 0074

POLAND
MX MUSIC SP.Z.O.O.
UL. Gibraltarska 4.
PL-03664 Warszawa POLAND
TEL: (022) 679 44 19

PORTUGAL
Roland Iberia, S.L.
Portugal Office
Cais das Pedras, 8/9-1 Dto
4050-465, Porto, PORTUGAL
TEL: 22 608 00 60

ROMANIA
FBS LINES
Piata Libertatii 1,
535500 Gheorgheni,
ROMANIA
TEL: (266) 364 609

RUSSIA
MuTek
Dorozhnaya ul.3,korp.6
117 545 Moscow, RUSSIA
TEL: (095) 981-4967

SPAIN
Roland Iberia, S.L.
Paseo García Faria, 33-35
08005 Barcelona SPAIN
TEL: 93 493 91 00

SWEDEN
Roland Scandinavia A/S
SWEDISH SALES OFFICE
Danvik Center 28, 2 tr.
S-131 30 Nacka SWEDEN
TEL: (0)8 702 00 20

SWITZERLAND
Roland (Switzerland) AG
Landstrasse 5, Postfach,
CH-4452 Itingen,
SWITZERLAND
TEL: (061) 927-8383

UKRAINE
TIC-TAC
Mira Str. 19/108
P.O. Box 180
295400 Munkachevo,
UKRAINE
TEL: (03131) 414-40

UNITED KINGDOM
Roland (U.K.) Ltd.
Atlantic Close, Swansea
Enterprise Park, SWANSEA
SA7 9FJ,
UNITED KINGDOM
TEL: (01792) 702701

(MIDDLE EAST)

BAHRAIN
Moon Stores
No.16, Bab Al Bahrain Avenue,
P.O.Box 247, Manama 304,
State of BAHRAIN
TEL: 17 211 005

CYPRUS
Radex Sound Equipment Ltd.
17, Diagorou Street, Nicosia,
CYPRUS
TEL: (022) 66-9426

IRAN
MOCO INC.
No.41 Nike St., Dr.Shariyati Ave.,
Roberoye Cerahe Mirdamad
Tehran, IRAN
TEL: (021) 285-4169

ISRAEL
Halilit P. Greenspoon & Sons
Ltd.
8 Retzif Ha'aliya Hashnya St.
Tel-Aviv-Yafo ISRAEL
TEL: (03) 6823666

JORDAN
MUSIC HOUSE CO. LTD.
FREDDY FOR MUSIC
P. O. Box 922846
Amman 11192 JORDAN
TEL: (06) 5692696

KUWAIT
EASA HUSAIN AL-YOUSIFI
& SONS CO.
Abdullah Salem Street,
Safat, KUWAIT
TEL: 243-6399

LEBANON
Chahine S.A.L.
Gerge Zeidan St., Chahine
Bldg., Achrafieh, P.O.Box: 16-
5857
Beirut, LEBANON
TEL: (01) 20-1441

OMAN
TALENTZ CENTRE L.L.C.
Malatan House No.1
Al Noor Street, Ruwi
SULTANATE OF OMAN
TEL: 2478 3443

QATAR
Badie Studio & Stores
P.O. Box 62,
Doha, QATAR
TEL: 423554

SAUDI ARABIA
aDawliah Universal
Electronics APL
Corniche Road, Aldossary
Bldg., 1st Floor, Alkhobar,
SAUDI ARABIA

P.O.Box 2154, Alkhobar 31952
SAUDI ARABIA
TEL: (03) 898 2081

SYRIA
Technical Light & Sound
Center
Rawda, Abdul Qader Jazairi St.
Bldg. No. 21, P.O.BOX 13520,
Damascus, SYRIA
TEL: (011) 223-5384

TURKEY
ZUHAL DIS TICARET A.S.
Galip Dede Cad. No.37
Beyoglu - Istanbul / TURKEY
TEL: (0212) 249 85 10

U.A.E.
Zak Electronics & Musical
Instruments Co. L.L.C.
Zabeel Road, Al Sherooq Bldg.,
No. 14, Grand Floor, Dubai,
U.A.E.
TEL: (04) 3360715

Index