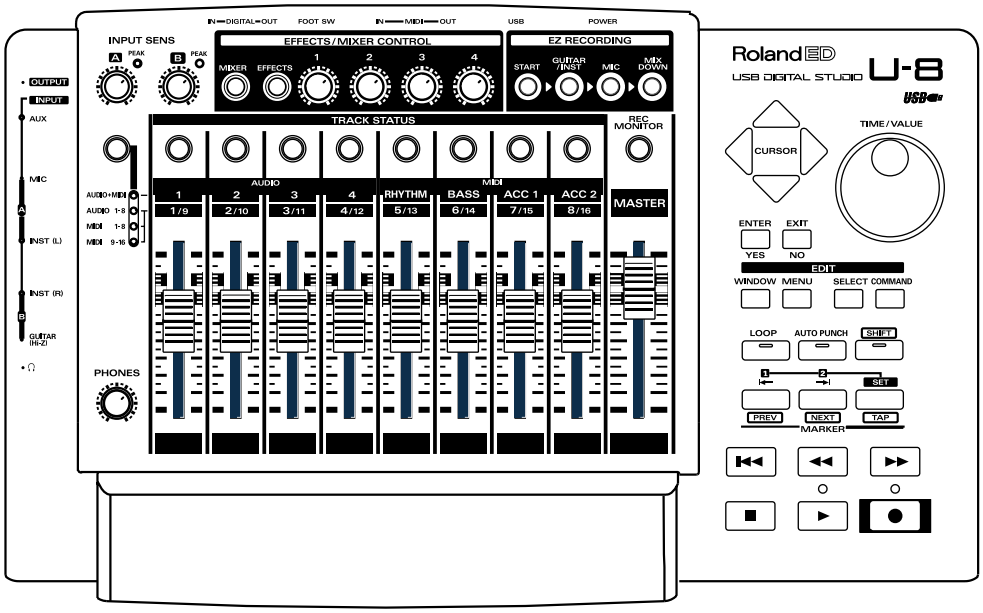
Roland ED

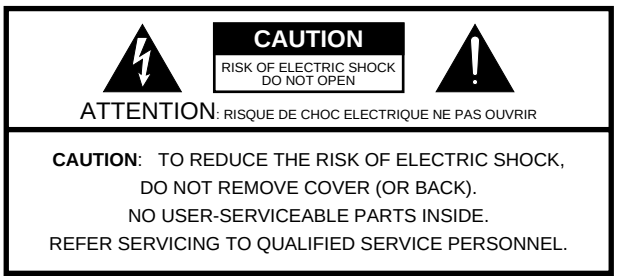
USB

USB DIGITAL STUDIO U-8 ST

Getting Started

Before using this unit, carefully read the sections entitled: "IMPORTANT SAFETY INSTRUCTIONS" (p. 2), "USING THE UNIT SAFELY" (p. 3), and "IMPORTANT NOTES" (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, Getting Started should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.





The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS.

IMPORTANT SAFETY INSTRUCTIONS
SAVE THESE INSTRUCTIONS

WARNING - When using electric products, basic precautions should always be followed, including the following:

1. Read all the instructions before using the product.
2. Do not use this product near water — for example, near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, or the like.
3. This product should be used only with a cart or stand that is recommended by the manufacturer.
4. This product, 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 consult an audiologist.
5. The product should be located so that its location or position does not interfere with its proper ventilation.
6. The product should be located away from heat sources such as radiators, heat registers, or other products that produce heat.
7. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.
8. The power-supply cord of the product should be unplugged from the outlet when left unused for a long period of time.
9. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
10. The product should be serviced by qualified service personnel when:
    A. The power-supply cord or the plug has been damaged; or
    B. Objects have fallen, or liquid has been spilled into the product; or
    C. The product has been exposed to rain; or
    D. The product does not appear to operate normally or exhibits a marked change in performance; or
    E. The product has been dropped, or the enclosure damaged.
11. Do not attempt to service the product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.

For the USA

This product may be equipped with a polarized line plug (one blade wider than the other) . This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician to replace your obsolete outlet. Do not defeat the safety purpose of the plug.

For Canada

For Polarized Line Plug

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU' AU FOND.

For the U.K.

IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.

BLUE: NEUTRAL
BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.
The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.
Under no circumstances must either of the above wires be connected to the earth terminal of a three pin plug.

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 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 Getting Started.
- Do not open or perform any internal modifications on the unit.
- 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.
- Avoid damaging the power cord. Do not bend it excessively, step on it, place heavy objects on it, etc. A damaged cord can easily become a shock or fire hazard. Never use a power cord after it has been damaged.
- 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 force the unit's power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords—the total power used by all devices you have connected to the extension cord's outlet must never exceed the power rating (watts / amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through.
- Before using the unit in a foreign country, consult with your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.

⚠ CAUTION

- Always grasp only the plug on the power-supply cord when plugging into, or unplugging from, an outlet or this unit.
- 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.
- Never handle the power cord or its plugs with wet hands when plugging into, or unplugging from, an outlet or this unit.
- Before moving the unit, disconnect the power plug from the outlet, and pull out all cords from external devices.
- Before cleaning the unit, turn off the power and unplug the power cord from the outlet (p. 20).
- Whenever you suspect the possibility of lightning in your area, pull the plug on the power cord out of the outlet.
- Should you remove the optical connector caps, make sure to put them in a safe place out of children's reach, so there is no chance of them being swallowed accidentally.

IMPORTANT NOTES

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

Power Supply

- Do not use this unit on the same power circuit with any device that will generate line noise (such as an electric motor or variable lighting system).
- Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and / or damage to speakers or other devices.

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.
- 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.
- To avoid possible breakdown, do not use the unit in a wet area, such as an area exposed to rain or other moisture.

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

- Unfortunately, it may be impossible to restore the contents of data that was stored on a storage device (e.g., hard disk or MO disk), in another MIDI device (e.g., a sequencer) once it has been lost. Roland Corporation assumes no liability concerning such loss of data.
- 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.
- A small amount of heat will radiate from the unit during normal operation.
- 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 box (including padding) 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.
- 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.

Copyright

- Unauthorized recording, distribution, sale, lending, public performance, broadcasting, or the like, in whole or in part, of a work (musical composition, video, broadcast, public performance, or the like) whose copyright is held by a third party is prohibited by law.
- When exchanging audio signals through a digital connection with an external instrument, this unit can perform recording without being subjected to some of the restrictions of the Serial Copy Management System (SCMS). This is because the unit is intended solely for musical production, and is designed not to be subject to restrictions as long as it is used to record works (such as your own compositions) that do not infringe on the copyrights of others. (SCMS is a feature that prohibits second-generation and later copying through a digital connection. It is built into MD recorders and other consumer digital-audio equipment as a copyright-protection feature.)
- Do not use this unit for purposes that could infringe on a copyright held by a third party. Roland assumes no responsibility whatsoever with regard to any infringements of third-party copyrights arising through your use of this unit.

Contents

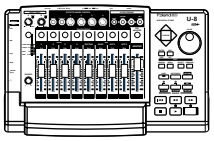
Introduction

We want to thank you for your purchase of the U-8. The U-8 is a digital studio that you can connect to your computer to compose songs using a sequencer program.

Checking What's in the Package

The U-8 includes the following items. When you open the package, first check to make sure that all the included items are present. If something is missing, contact the dealer where you bought it.

U-8 Main Unit



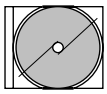
Power Cable

This is used to connect the power supply for the U-8. For more on how to connect it, take a look at "**4. Connecting the Power Supply**" (p. 18).

USB Cable

This is used to connect the USB connector on the U-8 to the USB connector on the computer. For more on how to connect it, see "**5. Connecting to the Computer**" (p. 19).

CD-ROM



The CD-ROM includes the following software.

U-8 Driver

This software is necessary to enable the computer to recognize the U-8. For information on how to install it, see "**Getting Ready to Use the U-8 with a Computer (Installing the U-8 Driver) "**(p. 22).

* *Before you install the U-8 driver, be sure to read "**Before You Install the U-8 Driver**" (p. 20).*

Cubasis VST U-8

Cubasis VST U-8 is digital recording software you can use with the U-8. For information on how to install it, see "**Preparing the Programs for the U-8 (Installing the included software)**" (p. 28).

NOTE

Before opening the included CD-ROM, be sure to read the separate **Roland License Agreement**.

NOTE

Do not touch or scratch the lower (data) surface of the disc. Doing so may make it impossible to read data correctly. If the disc becomes dirty, clean it with a commercially available CD cleaner designed for that purpose.

Cubasis VST U-8 Manual

This describes the details of Cubasis VST U-8. You can view this manual using Acrobat Reader, supplied by Adobe Systems Incorporated.
For more information on how to view this manual, see "**How to View the Online Manuals "**(p. 63).

U-8 Controller

This program controls the U-8's mixer and effects. For information on how to set up the program, see "**Preparing the Programs for the U-8 (Installing the included software)**" (p. 28). Also, for more information, refer to the **U-8 Controller Manual** described below.

U-8 Tuner

This is a special U-8 feature for tuning electronic guitars. For details, refer to the **U-8 Tuner Manual** described below.

Virtual Sound Canvas 3.0

Virtual Sound Canvas 3.0 (VSC 3.0) is a MIDI software synthesizer. When used with the U-8, you can play and record MIDI data without an external sound module, using only your computer.
For how to install VSC 3.0, refer to p.35.

Demo Songs

These are demo songs for Cubasis VST U-8.

Style Data (SMF)

Style data comprise typical performance patterns representing a variety of musical genres that are stored as SMF performance data.

Online Manuals

You can view the online manuals shown below with a Web browser (Internet browser) such as Microsoft Internet Explorer or Netscape Navigator.
For more information about each of the online manuals, please see **"How to View the Online Manuals "**(p. 63).

Troubleshooting

If there's a problem, such as no sound, viewing **Troubleshooting** will give you some possible solutions.

U-8 Technical Guide

This describes the details of effects, special examples of connections with the U-8, exchange of MIDI messages with the U-8, the details of the U-8's on-board digital mixer, and more.

U-8 Controller Manual

This describes how to use the U-8 Controller.

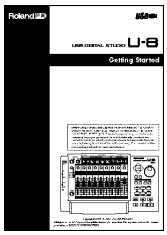
U-8 Tuner Manual

This describes how to use the U-8 Tuner.

Preset Effect Patch List

This is a list of preset data for effects.

Getting Started



This is the document you are reading. Keep it by you for reference whenever you operate the U-8.

Roland License Agreement

These are contracts by which Roland allows you, the customer, to use the software. Be sure to read these before opening the package of the CD-ROM.

Steinberg Product Registration Card

Please fill out and send in the registration card that comes in this package. Doing so will make sure you are entitled to technical suport and kept aware of updates and other news regarding Cubasis VST.

What You Can Do with the U-8

Achieving a Personal Digital Recording Studio in Combination with Your Computer.

You can use the U-8 with a sequencer program to achieve the same range of songmaking operations as a recording studio, including recording, mix-down, and mastering.

Easy Operation Using the U-8 Unit Together with a Sequencer

You can perform practically all tasks quickly and easily using just the U-8 itself, including song playback, recording, rewinding, fast forward, and effect settings.

Professional Effects Processor That Draws on Roland's Experience in Musical Equipment

The high-performance DSP multi-effect processor in the U-8 is provided with carefully selected algorithms for guitar, vocals, and recording.
A special graphical controller enables easily understood control for effect parameters.
The algorithms include **Guitar Multi effects**, allowing you to apply a rich range of guitar effects, **Vocal Multi effects** for a variety of vocal sounds, and finally, **Mastering effects**, which add power to mixed songs.

MIDI Interface

The unit is equipped with a MIDI interface that lets you connect an external MIDI sound module and play backing.

Simple Connection to Your Computer Via USB Cable

You can make connections even when the power is turned on. No special settings are required.

Optical Digital Input/Output

You can digitally acquire sounds from MDs and CDs for use as backing data, or record mastered songs to DAT or MD directly in digital form.

NOTE

About Copyrights

The law prohibits the unauthorized recording, public performance, broadcast, sale, or distribution etc. of a work (CD recording, video recording, broadcast, etc.) whose copyright is owned by a third party. Roland will take no responsibility for any infringement of copyright that you may commit in using the U-8.

NOTE

About SCMS

SCMS stands for Serial Copy Management System. This is a function that protects the rights of copyright holders by prohibiting recording via a digital connection for more than two generations. When digital connections are made between digital recorders that implement this function, SCMS data will be recorded along with the audio data. Digital audio data which contains this SCMS data cannot again be recorded via a digital connection.

■ What Is USB?

USB stands for Universal Serial Bus, and is a new interface used to connect various peripherals to a computer.
USB allows a variety of peripheral devices to be connected via a single USB cable, and is far faster than the earlier serial port, allowing audio to be recorded or played while playing MIDI data.
It also allows peripheral devices to be connected or disconnected while the power is left on, and the computer will automatically recognize such devices. (For some peripherals, it may be necessary to make settings or perform other procedures.)

■ GM/General MIDI

General MIDI is a set of recommendations which seeks to provide a way to go beyond the limitations of proprietary designs, and standardize the MIDI capabilities of sound generating devices. Sound generating devices and music files that meet the General MIDI standard bear the General MIDI logo (GENERAL MIDI).
Music files bearing the General MIDI logo can be played back using any General MIDI sound generating unit to produce essentially the same musical performance.

■ GM 2/General MIDI 2

The upwardly compatible General MIDI 2 (GENERAL MIDI2) recommendations pick up where the original General MIDI left off, offering enhanced expressive capabilities, and even greater compatibility.
Issues that were not covered by the original General MIDI recommendations, such as how sounds are to be edited, and how effects should be handled, have now been precisely defined. Moreover, the available sounds have been expanded.
General MIDI 2 compliant sound generators are capable of reliably playing back music files that carry either the General MIDI or General MIDI 2 logo. In some cases, the conventional form of General MIDI, which does not include the new enhancements, is referred to as “General MIDI 1” as a way of distinguishing it from General MIDI 2.

■ GS

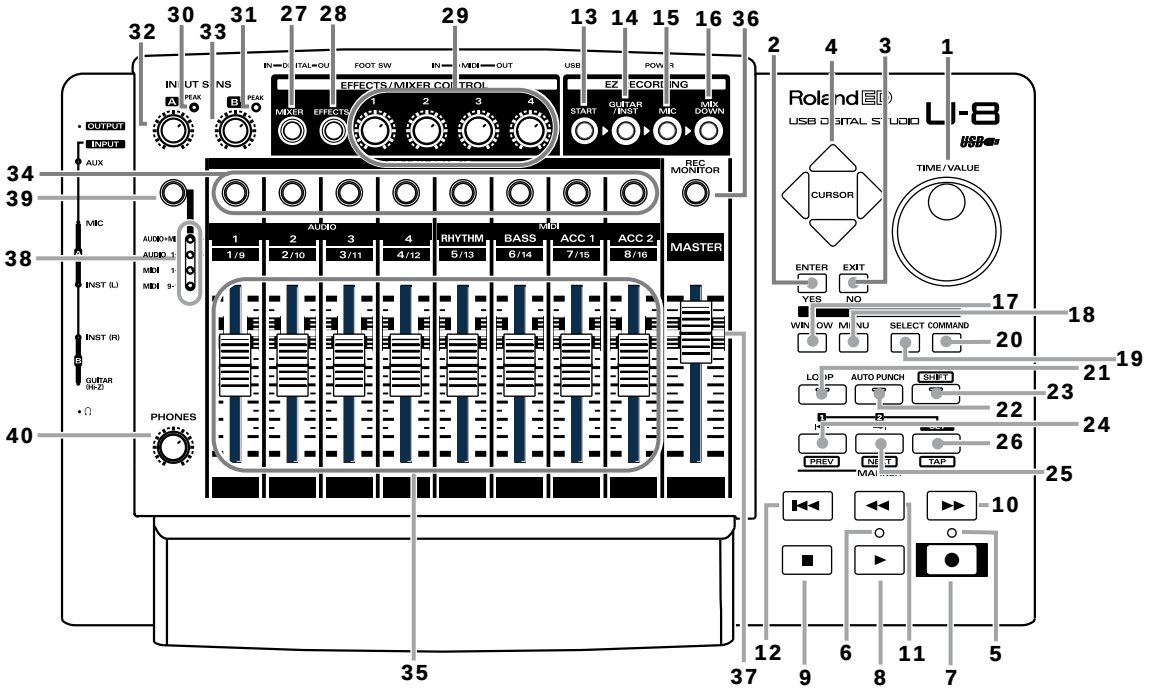
The GS Format ( ) is Roland's set of specifications for standardizing the performance of sound generating devices. In addition to including support for everything defined by the General MIDI, the highly compatible GS Format additionally offers an expanded number of sounds, provides for the editing of sounds, and spells out many details for a wide range of extra features, including effects such as reverb and chorus.
Designed with the future in mind, the GS Format can readily include new sounds and support new hardware features when they arrive.

* *The explanations in this manual include illustrations that depict what should typically be shown by the display. Note, however, that your unit may incorporate a newer, enhanced version of the system (e.g., includes newer sounds), so what you actually see in the display may not always match what appears in the manual.*

Panel Descriptions

Top Panel

** The functions of the top panel controls may differ depending on the sequencer used in conjunction with your U-8. For more detailed information, refer to your sequencer's manual.*



1.TIME/VALUE Dial

Moves the song position (the present time) forward and backward.

When setting a parameter value, turn it clockwise to raise the value or counterclockwise to lower it.

2.ENTER Button

When setting a parameter, this "locks in" the present value as the parameter's new value.

At other times, it's used to answer "yes" to questions or to press the button under the cursor.

3.EXIT Button

When setting a parameter, this cancels the setting.

At other times, it's used to answer "no" to questions.

4.CURSOR Buttons

Move the cursor and item selections up, down, left, and right.

5.Record Indicator

Lights up during recording.

6.Playback Indicator

Lights up to show the progress of playback or recording.

7.Record Button

This initiates recording.

8.Play Button

Starts playback or recording.

9.Stop Button

Stops playback or recording.

10.Fast-forward Button

Fast-forwards the song.

11.Rewind Button

Rewinds the song.

12.To Start of Song Button

Rewinds to the start of the song.

13.START Button

Starts songmaking. A dialog box appears and guides you through the procedure.

14.GUITAR/INST (Guitar/Instrumental) Button

Starts recording for a guitar or another instrument. A dialog box appears and guides you through the procedure.

15.MIC (Microphone) Button

Starts recording with a microphone. A dialog box appears and guides you through the procedure.

16.MIX DOWN Button

Starts mix-down. A dialog box appears and guides you through the procedure.

17.WINDOW Button

Switches the top window displayed with the sequencer program.

18.MENU Button

Displays the menu for the sequencer program.

** Cubasis VST U-8 does not use this button.*

19.SELECT Button

This selects the target of an operation according to circumstances with the sequencer program.

20.COMMAND Button

This calls up editing commands or the like according to circumstances with the sequencer program.

** Cubasis VST U-8 does not use this button.*

21.LOOP Button

When the button has been pressed and the LED is lit up, this performs loop playback or recording in a range specified by Locate points.

22.AUTO PUNCH Button

When the button has been pressed and the LED is lit up, this performs auto punch in / out or recording in a range specified by Locate points.

23.SHIFT Button

After pressing this button to light it up, activates the other button's alternate function.

24.Locator [1] Button (PREV)

This moves the song position to Locate point [1].
When pressed at the same time with the **Locator Set** button, it sets Locate point [1].

What Is a **Locator**?

This is a feature for remembering a song position. For details, see the manual of the sequencer program.

25.Locator [2] Button (NEXT)

This moves the song position to Locate point [2].
When pressed at the same time with the **Locator Set** button, it sets Locate point [2].

26.Locator Set Button (TAP)

Pressing the **Locator [1] or [2]** button while holding down this button sets the present song position as the corresponding Locate point.

27.MIXER Button

Displays the Mixer Control screen.

28.EFFECTS Button

Displays the Effects Edit screen.

29.EFFECTS/MIXER CONTROL 1 to 4 Knobs

When the Effects Edit or Mixer Control screen has been displayed by pressing the EFFECTS or MIXER button, these controls change the values of the parameters assigned to each one.

30.Input A Peak Indicator

Lights up when the signal from A input or Mic input is too high.

31.Input B Peak Indicator

Lights up when the signal from B input or Guitar input is too high.

32.Input A Sensitivity Volume Knob

This adjusts the signal level for A input or Mic input.

33.Input B Sensitivity Volume Knob

This adjusts the signal level for B input or Guitar input.

How to Adjust the Input A / B Level

For instructions on adjusting the Input A / B levels, refer to **"How to Match the Input Levels"** (p. 66).

34.Track Status Buttons

Change the status of the tracks (play, mute, or the like).

35.Track Volume Faders

Set the volume for tracks.

36.REC (Record) MONITOR Button

Switches the Record monitor (the sound output during recording). When lighted, only the sound being recorded is output. When dark, all sound is output.

37.Master Volume Fader

Adjusts the overall volume level.

38.Track Group Indicators

These show the present assignments of the **Track Volume faders** and the **Track Status buttons**.

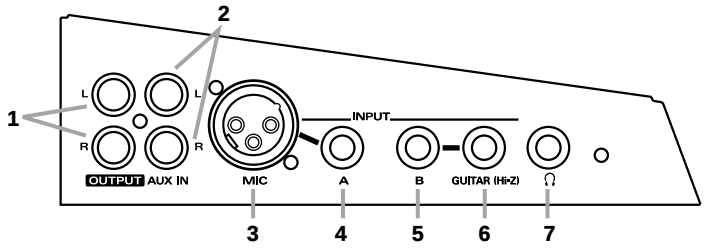
39.Track Group Select Button

Used to select the Track Groups assigned to the **Track Volume faders** and the **Track Status buttons**.

40.Headphones Volume Knob

Adjusts the volume level of the output from the headphones jack. Turn it counterclockwise to lower the volume, or clockwise to raise it.

Side Panel



1.Line Output Jacks

These are for connecting equipment such as an external stereo set or speaker with built-in amplifier.

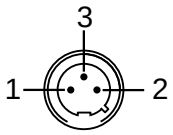
2.AUX Input Jacks

These are for connecting external equipment, such as a MIDI sound module, or CD and MD players.

3.Mic Input Jack

This is for connecting an XLR type (unbalanced input) microphone.

* *The pin assignments for the XLR type connectors are as shown below. Before making any connections, make sure that these pin assignments are compatible with that of all your other devices.*



1:GND
2:HOT
3:GND

* *Because pin 3 is connected to ground (GND), when connecting a balanced-output device, make sure that unbalanced connection is possible.*

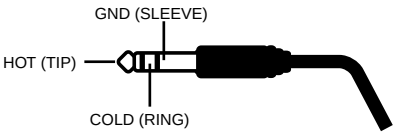
* *When using the A Input jack at the same time, the signal from the A Input jack takes priority, and the signal from the Mic Input jack is not input.*

4.A Input Jack

This is for connecting standard output from a 1/4 inch phone mike, a TRS-phone (unbalanced input) mike, synthesizer, or the like.

* *The pin assignment of a TRS-phone mike is as shown below. Before making any connections, make sure that this pin assignment is compatible with all your other devices.*

* *Because RING is connected to ground (GND), when connecting a balanced-output device, make sure that unbalanced connection is possible.*



5.B Input Jack

Connect the guitar after routing it through your multi-effects processor or similar equipment. It's also for connection to synthesizer output.

6.Guitar Input Jack

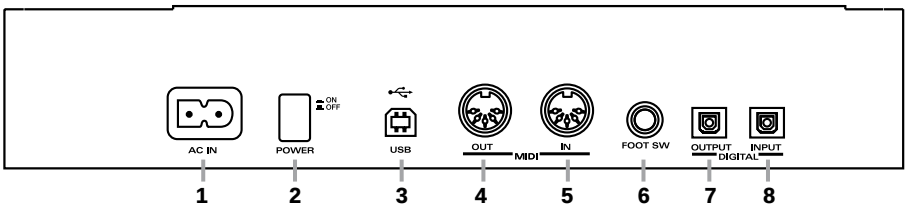
This is for direct high-impedance connection to a guitar.

* *When using the B Input jack at the same time, the signal from the B Input jack takes priority, and the signal from the Guitar Input jack is not input.*

7.Headphones Jack

This is for connecting headphones. Sound is output from the Line Output jacks even when headphones are connected.

Rear Panel



1.AC Inlet

This is for connecting the power cord.

2.Power Switch

This switches the power on and off.

3.USB Connector

By connecting this to a computer using a USB cable, you can exchange audio signals, MIDI signals, and U-8 control signals.

4.MIDI OUT Connector

This is for connecting to the MIDI input on another MIDI instrument to send MIDI messages.

5.MIDI IN Connector

This is for connecting to the MIDI output on another MIDI instrument to receive MIDI messages.

6.Foot Switch Jack

This is for connecting a foot switch. When the U-8 Mixer is activated, you can use this switch to inclement an effect patch in the Effect Patch Manager. Otherwise, this switch works as the same as the Record Button.

7.Digital Output Connector

This is for making the connection for digital output to digital audio equipment such as a DAT or MD device.

8.Digital Input Connector

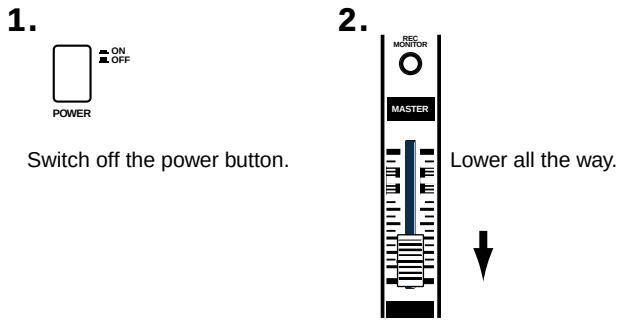
This is for making the connection for digital input from equipment such as a CD, MD, or DAT device.

Getting Ready to Use the U-8

Connecting the Unit

To use the U-8, you need to connect a computer, and headphones or an amplifier. Refer to the explanation below, and make the connections that best suit your setup.

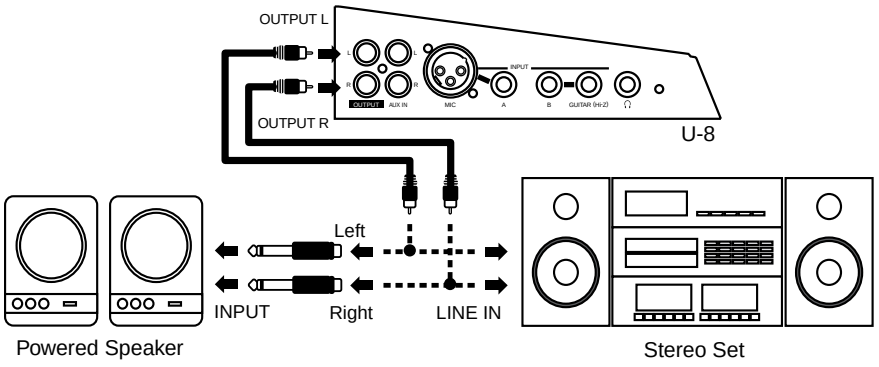
Before making connections, make sure that (1) the power switch is turned off and (2) the Master Volume fader is lowered all the way.



1. Making Connections for Hearing Sound

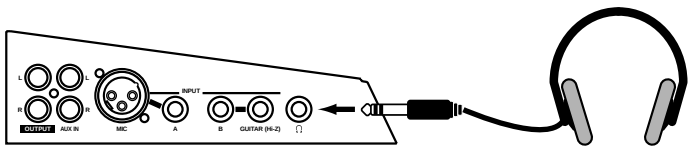
To hear sound from the U-8, use one of the methods below to make the connections.

Connecting a Speaker with a Built-in Amp or a Stereo Set



Use the Master Volume fader on the top panel of the U-8 or the volume knob on the speaker with built-in amp or stereo set to adjust the volume level.

Connecting Headphones



Use the Master Volume fader or the Headphones Volume knob on the top panel to adjust the volume level for headphones.

NOTE

You will need to acquire and have on hand whatever equipment or cables (other than what came with the U-8) that you need. When doing this, take care to ensure that the configuration of the cable connectors is compatible.

NOTE

To prevent malfunction and / or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

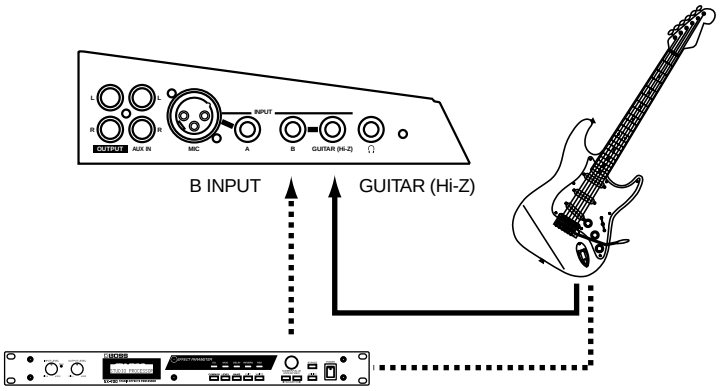
MEMO

When making a digital connection between the U-8 and a stereo set, connect the Digital Output connector on the U-8 to the Digital Input connector on the stereo set. For more information, refer to "**Making a Digital Connection**" in "**U-8 and External Equipment**" in the U-8 Technical Guide.

2. Making Connections for Recording

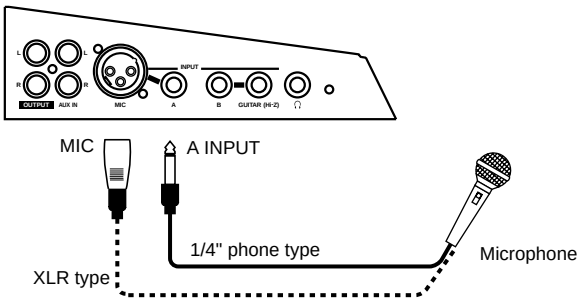
To record sound through the U-8, use one of the methods below to make the connections.

Connecting a Guitar



In general, when connecting a guitar directly, connect it to the **Guitar Input jack**, and when connecting a guitar through an multiple effects processor, or the like, connect it to the **B Input Jack**.

Connecting a Microphone



If the connector on the cable connected to the mike is an XLR one, connect it to the Mic Input jack. If it is a 1/4" phone plug, connect it to the A Input jack.

* *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).

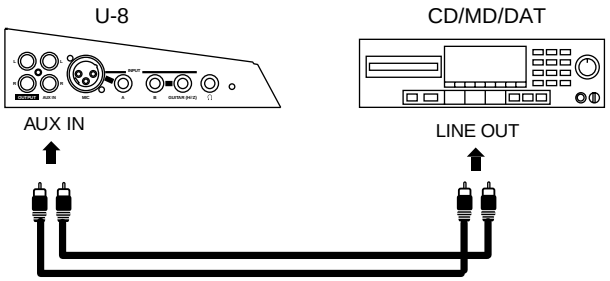
2) Relocating microphone(s) at a greater distance from speakers.

3) Lowering volume levels.

NOTE

Make sure that the microphone you're connecting to the Mic Input jack or the A Input jack complies with the pin assignments described for the **Mic Input jack** or the **A Input jack** under "**Side Panel**" (p. 14).

Connecting a Device Such As a CD Player, MD Player, or DAT Player

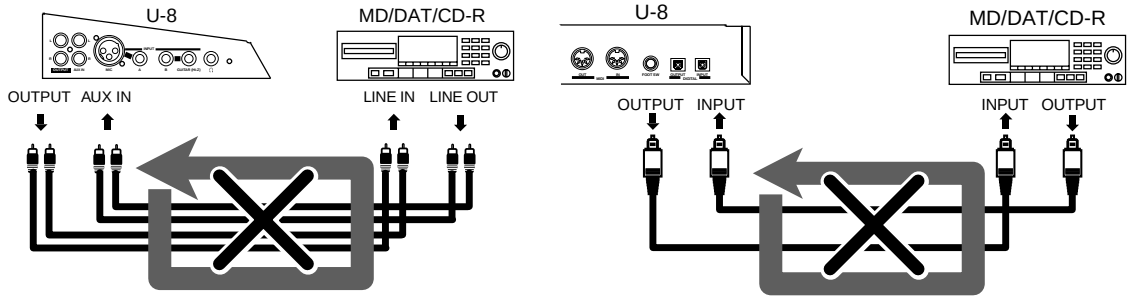


Connect the analog output from the CD player, MD player, DAT player, or the like to the AUX Input jack on the U-8.

MEMO

When making a digital connection between the U-8 and the CD player, MD player, DAT player, or the like, connect the digital output from the CD, MD, or DAT player to the Digital Input connector on the U-8. For more information, refer to "**Making a Digital Connection**" in "**U-8 and External Equipment**" in the U-8 Technical Guide.

NOTE Be careful of loop connections



Example of an Analog Loop Connection

Example of a Digital Loop Connection

When the U-8 is connected as shown in the above diagram to a device that passes the input sound through to its output (an MD / DAT / CD-R that is recording), the U-8 and that device will form a loop that can cause oscillation, producing an unexpectedly loud sound.

This type of connection can cause malfunction and damage to speakers and other equipment; take care to avoid these conditions.

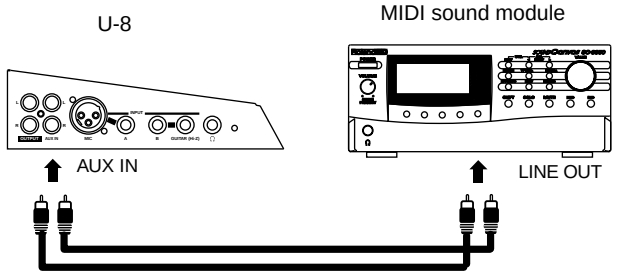
In addition to the above figure, take a moment now to check your connections for the following conditions.

- Could there be a looped connection between the analog and digital realms?
- Has any looped connection resulted from insertion of a mixer or other piece of equipment between the devices?

3. Making Connections for Using an External MIDI Sound Module

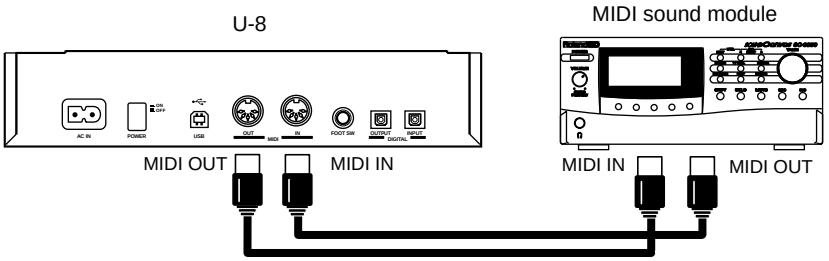
This connection is made when playing MIDI data for backing using an external sound module, such as the SC-8850, SC-8820, or SC-88Pro.

❶ Connecting to the Output on a MIDI Sound Module



Connect the analog output on the external MIDI sound module to the AUX Input jack on the U-8.

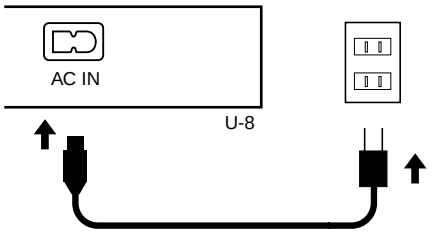
❷ Connecting a MIDI Sound Module and the U-8 with MIDI



Make the connection with a MIDI cable to enable the external MIDI sound module and the U-8 to exchange messages.

4. Connecting the Power Supply

Connect the power cable to the AC inlet and a power outlet.



MEMO

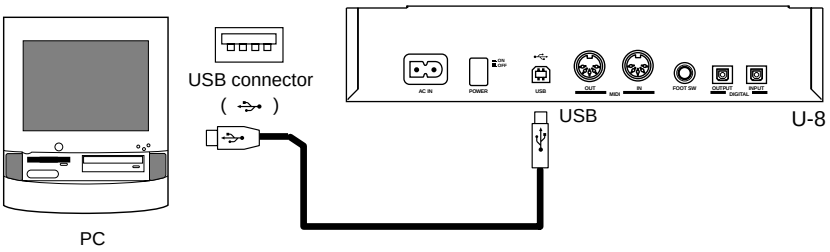
When inputting MIDI messages from another MIDI instrument or controller, refer to the "**Connecting a MIDI Instrument or Controller**" in "**U-8 and External Equipment**" in the U-8 Technical Guide.

NOTE

After properly making the connections explained up to this point in the instructions, be sure to follow the procedure described in "**Turning On the Power**" to turn on the power to the U-8. Errors in this process may result in malfunction or in damage to the connected speakers.

5. Connecting to the Computer

NOTE Making the connections described below while the computer and the U-8 are powered up causes installation of the U-8 driver software to start. If installation starts, follow the steps on p. 20 to install the U-8 driver.



■ What Else You Need to Use the U-8

External Amp, Speakers, Headphones, Microphone, and Cables to Connect Them Are Not Included

The external amp, speakers, or headphones and the cables for connecting them that you will need in order to hear the sound from the U-8 are not included. A microphone for connection to the U-8 to input audio must also be purchased separately. You will need to provide these items yourself.

MIDI Sound Module Is Not Included

A MIDI sound module for playing backing performances using a sequencer is not included.

MIDI performances are also possible with software MIDI synthesizers, but in cases of real-time MIDI input and the like, we recommend connecting a hardware sound module such as the **SC-8850**, **SC-8820**, or the **SC-88Pro**.

CD, DAT, or MD Devices and the Cables for Connecting Them Are Not Included

You can make digital connections to a CD player, DAT recorder, MD recorder, and the like, but these devices and cables for making the analog or digital connections to them are not included. You will need to provide this yourself.

Web Browser (Internet Browser) Is Not Included

In order to read the Online Manuals on the included CD-ROM, an Web browser (Internet browser) such as Netscape Navigator or Microsoft Internet Explorer must be already installed and set up on your computer. You will need to provide this yourself.

■ Turning On the Power

When Turning On the Power for the First Time

If the U-8 and the computer are connected with USB, then when you turn on the power to the U-8 for the first time, a dialog box shown below appears, and preparations for using the U-8 start. Refer to "**Getting Ready to Use the U-8 with a Computer (Installing the U-8 Driver)**" and prepare the U-8 for use.

When Turning Off the Power

Make sure that all the programs on the computer that are using the U-8 and that are using audio or MIDI have finished, then turn off the U-8 unit.

NOTE
Before you turn on the power, follow the steps on p. 15 to make the connections correctly.

NOTE
This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.

NOTE
Always make sure to have the volume level turned down before switching on power. Even with the volume all the way down, you may still hear some sound when the power is switched on, but this is normal, and does not indicate a malfunction.

Preparing for Use of the Included Programs

■ Before You Install the U-8 Driver

Consider the following note before you install the U-8 Driver.

NOTE You cannot use the U-8 with Windows95 and Windows NT.

NOTE If an older version of the U-8 Driver is already installed in your computer, you must delete it as explained in "**Deleting the U-8 Driver**" (p. 67).

NOTE Exit all other Windows applications before you install the U-8 driver.

NOTE If you will be connecting your computer to both the U-8 and another Roland USB-compatible device such as the UM-4 (Super MPU64) and using them at the same time, you must disconnect the other device (UM-4 etc.) from the USB connector before installing the U-8 Driver. If the UM-4 etc. remains connected at the time that the U-8 Driver is installed, the U-8 Driver may not be installed correctly.

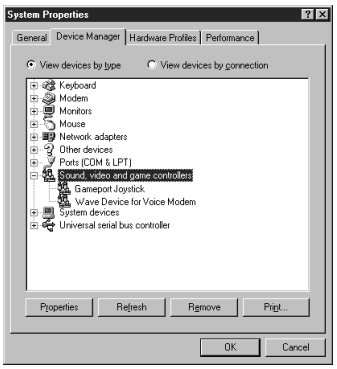
If using a computer upgraded from Windows95 to Windows98, be sure to note the following points.

In the **Control Panel** of your computer, the **Preferred device** list for **Playback** or **Recording** in **Multimedia-Audio** may contain a voice modem device such as **Voice Modem Wave #00 Line** or **Voice Modem Wave #00 Handset**. (The name may differ depending on your computer.)

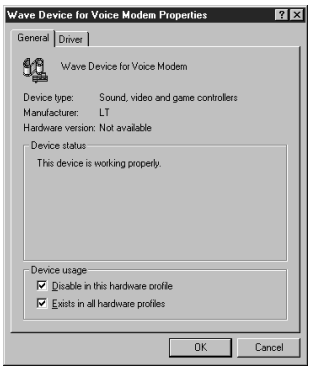
If these are already present when you install the **U-8 Driver** and you re-start Windows, it may be impossible to start (re-start). The operation of your computer may also become unstable.

If using a computer upgraded from Windows95 to Windows98, use the following procedure to first set the **Voice Modem Wave #00 Line** and / or **Voice Modem Wave #00 Handset** devices to the **Disabled** state.

1. Click the Windows **Start** button, point to **Settings** and select **Control Panel**. Next, in the **Control Panel**, double-click **System**.
   The **System Properties** dialog box will appear.
2. Click the **Device Manager** tab.
3. Double-click **Sound, video and game controllers**.
   A list of devices will appear. If the list of devices does not contain **Wave Device for Voice Modem**, click **OK** to end the procedure.



4. Double-click **Wave Device for Voice Modem**.
   The **Wave Device for Voice Modem Properties** dialog box will appear.



5. Click the **General** tab and in the **Device usage** area, click the check box for **Disable in this hardware profile**, and then click **OK**.

MEMO

The name "**Wave Device for Voice Modem**" may differ depending on your computer system. If so, select a device named **Voice Modem**.

■ Getting Ready to Use the U-8 with a Computer (Installing the U-8 Driver)

1

After completing the connections between the U-8 and your computer and peripheral devices (p. 15), turn on your computer and start up Windows, and then turn on the U-8.

Windows will automatically search for unknown devices, and the following dialog box will appear.

* *If the display indicates **Unknown Device** instead of **USB Composite Device**, the installation procedure cannot be continued, so click **Cancel** to terminate the installation procedure.*
Afterwards, while referring to "**If Installation Doesn't Proceed As It Should, Check the Following Points**" (p. 24), proceed to check the status of your computer.

2

Insert the included CD-ROM into your CD-ROM drive, and click **Next**.

3

Select **Display a list of all the drivers in a specific location, so you can select the driver you want**, and click **Next**.

MEMO

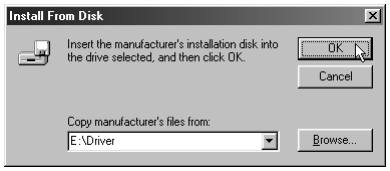
If the U-8 driver is already installed in the computer that you are using, delete the previously installed U-8 driver before performing the installation. For details on deleting the U-8 driver, refer to "**The U-8 Driver**" (p. 67).

4

Click **Have disk ...**.

5

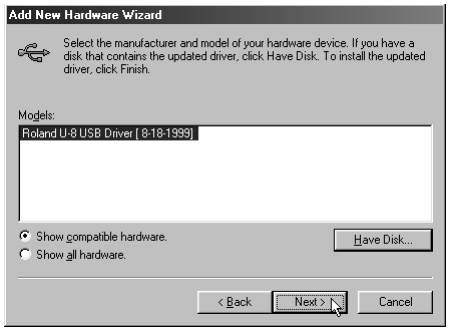
The **Install From Disk** dialog box will appear. input **E:\Driver** in the **Copy manufacturer's files from**, and click **OK**.



Alternatively, you can click **Browse**, select the **Driver** folder on the CD-ROM drive, and click **OK**.

6

Verify that **Roland U-8 USB Driver** is displayed as the model, and click **Next**.



7

Click **Next**.

Installation of the U-8 Driver will begin.

MEMO

In this explanation we are assuming that your CD-ROM drive is drive E:, but the drive letter may differ on your computer. If the drive letter is different on your computer, input the appropriate letter. To check the drive letter of your CD-ROM drive, double-click the **My Computer** icon.

8

When installation is completed, the following dialog box will appear, so click **Finish**.

If Installation Doesn't Proceed As It Should, Check the Following Points

Is the included CD-ROM in the computer's CD-ROM drive?

Make sure the CD-ROM is in the CD-ROM drive.

Is there enough free hard-disk space?

- Free up more hard-disk space.

  Delete unneeded files (move them to the Recycle Bin), then right-click the Recycle Bin and choose **Empty Recycle Bin**.
- Add another hard disk.

  For details on installing an additional hard disk, refer to the owner's manuals for your computer and for Windows.

Was another program running during installation?

Quit all other programs, then repeat the installation.

MEMO For details on deleting the U-8 driver, refer to p. 67. Furthermore, refer to "**Deleting Unneeded Drivers Installed with the U-8 Connection**" (p. 69) before reinstalling the driver.

In addition to this, "**Troubleshooting**" on the included CD-ROM has pointers to remedies for trouble during setup or installation.

1. Place the included CD-ROM in the CD-ROM drive, then use Windows Explorer to go into the **Manual** folder and open the **TechnicalGuide** folder.
2. Start Internet Explorer or Netscape Navigator.

   * *You need to provide for an Web browser separately.*
3. From Windows Explorer, drag **troubleshoot.htm** to the Web browser you started in step 2.
4. Scroll down the window, then view "**Points Involving the USB Connection and Installation of the Driver.**"

MEMO

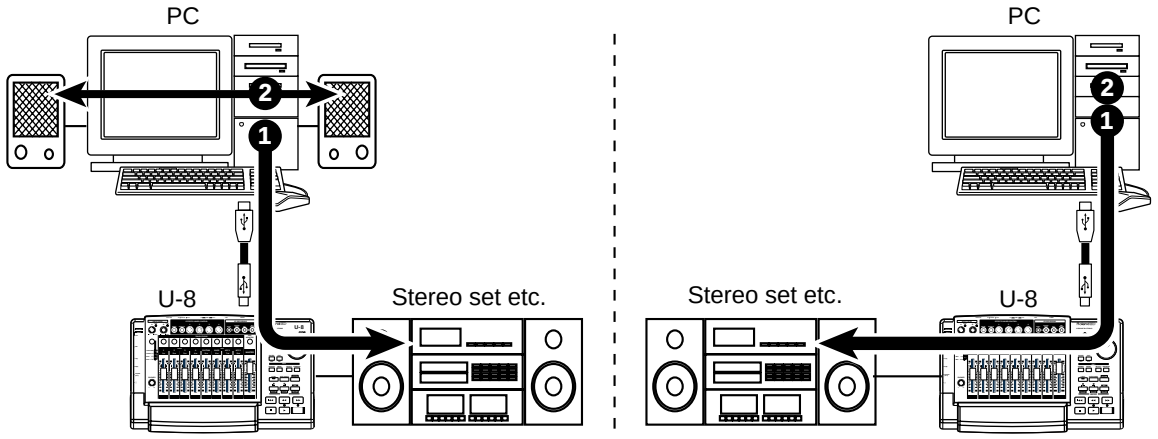
The "U-8 Driver Settings Dialog Box" are described in the "U-8 Driver" section of the U-8 Technical Guide on the included CD-ROM. For information on how to view the U-8 Technical Guide, see "**How to View the Online Manuals**" (p. 63).

■ Making Audio and MIDI Settings in Windows

This section explains the settings according to your computing setup for how the sounds that Windows outputs (warning beeps and audio output from Media Player or the like) are handled.

❶ Audio output from Cubasis VST U-8

❷ Audio output such as warning sounds in Windows



(A) Sounds from Windows are output from the sound card, and sequencer sounds are output from the U-8 (recommended)

(B) Everything is output through the U-8

You can make the settings so that the ❶ sequencer audio and ❷ sound from Windows are both output with the U-8, but when you do this, operation is as follows.

- Playback of audio data with a sampling frequency of other than 44.1 kHz (such as the default warning sounds in Windows) may not be possible.
- Because high-volume audio data is used for warning sounds, when they are output together with the sequencer's audio data, the volume may be very loud.
- While using the U-8's audio with Cubasis VST U-8, warning sounds may not be heard, or effects may be applied to warning sounds, or warning sounds may be produced from the computer's internal sound card.

Issues like the ones just described don't occur for audio input or MIDI output. Follow the steps on the next page to make the settings that correspond to your computing setup.

NOTE

When outputting ❶ and ❷ from the U-8, you need to specify wave files with a sampling frequency of 44.1 kHz for all warning sounds in Windows (From **Control Panel**, double-click **Sounds**, then use the **Sounds Properties** dialog box to make the settings). For more information, refer to the help or documentation of Windows.

Making the Settings for the Input and Output Destinations for the Audio Data That Windows Handles

1

In Windows, click the **Start** Button, and from the list of **Settings** choose **Control Panel**. Then, in **Control Panel**, double-click **Multimedia**.

The **Multimedia Properties** dialog box appears.

2

Click the **Audio** tab.

3

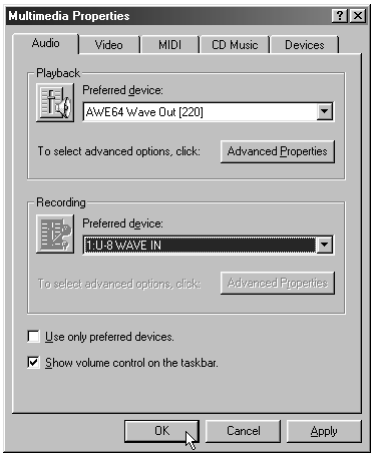
Under **Playback**, the sound card installed in your computer is normally specified, so if you don't want to send the audio data from Windows to the U-8, then you can leave the settings for **Playback** unchanged and jump to step 4.

For **Playback**, at **Preferred device**, click ▼ and choose **1:U-8 WAVE OUT 1 [MASTER]** to output warning sounds from Windows, audio output from **Media Player**, or the like from the U-8.

MEMO Normally, for **Playback**, you should select the sound card installed in the computer. This can avoid problems such as no output of warning sounds from Windows (p. 25). For information about the sound card in your computer, refer to the documentation for the computer.

4

For **Recording**, at **Preferred device**, click ▼, and from the displayed list, select **1:U-8 WAVE IN**.



This causes sounds recorded with **Sound Recorder** and the like in Windows to be input from the U-8.

5

Click **OK** to finish making the settings.

Making the Settings for a MIDI Output Destination

1

In Windows, click the **Start** Button, and from the list of **Settings** choose **Control Panel**. Then, in **Control Panel**, double-click **Multimedia**.

The **Multimedia Properties** dialog box appears.

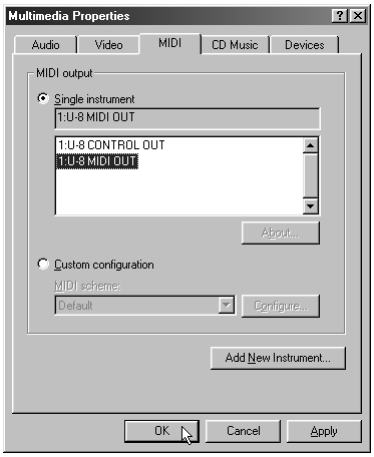
2

Click the **MIDI** tab.

3

At **MIDI Output**, from the **Single Instrument** list, select **1:U-8 MIDI OUT**.

This causes MIDI-data output from **Media Player** and the like to be output from the MIDI OUT connector on the U-8.



4

Click **OK** to finish making the settings.

■ Preparing the Programs for the U-8 (Installing the included software)

Follow the steps below to install U-8 Controller, U-8 Tuner, Cubasis VST U-8, WaveLab Lite, and the online manuals on your computer.

1

Insert the included CD-ROM into your CD-ROM drive.

* *Exit all other Windows applications before you install the software.*

2

Click the Windows **Start** button, and then click **Run**.

The **Run** dialog will appear.

3

In the **Open** text box, input **E:\Setup.exe** and then click **OK**.

Alternatively, you can click **Browse**, then open the CD-ROM drive, select the **Setup.exe** file, and click **Open**. Then click **OK**.

4

The installer will start up. Click **Next**.

NOTE

In this explanation we are assuming that your CD-ROM drive is drive E:, but the drive letter may differ on your computer. If the drive letter is different on your computer, input the appropriate letter. To check the drive letter of your CD-ROM drive, double-click the **My Computer** icon.

NOTE If the "Welcome" Dialog Box Is Not Displayed

In certain computing environments, you may find that the "Welcome" dialog box does not appear in the display.

Case 1

In Step 4, a dialog box with a message telling you to restart your computer may appear instead of the **Welcome** dialog box.
In this case, select **Yes, I want to restart my computer now.** and click **OK**. After restarting your computer, perform the entire installation procedure over again from Step 1.

Case 2

If the **U-8 Driver Not Found** dialog box is displayed instead of the **Welcome** dialog box, you will first need to install the U-8 Driver, by following the procedure on p. 20.

If the **Welcome** dialog box still does not appear, even with the driver installed, then the driver was not installed correctly. Carry out the following steps to reinstall the driver.

1. Following the procedure on p. 67 and p. 69, delete the U-8 Driver and unneeded drivers installed with the U-8 connection.
2. Turn off the U-8's power and restart Windows.
3. Follow the procedure on p. 20 to install the U-8 Driver.

5

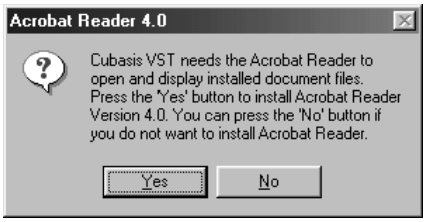
The **Choose Destination Location** dialog box will be displayed. To install to the specified destination, click **Next**. If you want to install to a different folder, click **Browse...** and select another folder.

6

In the **Select Components** dialog box, confirm that the required software has been checked, then click **Next**.

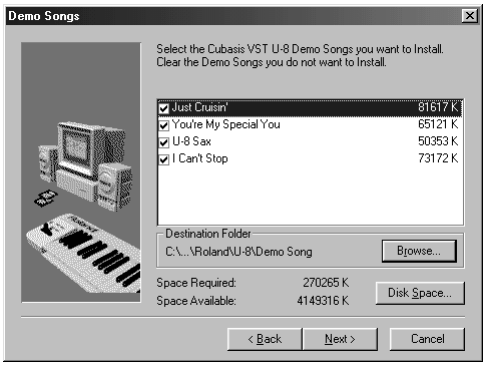
7

If you select Cubasis VST U-8 to be installed, a dialog appears which asks you whether you want to install Acrobat Reader. Acrobat Reader is a program that is necessary for reading document regarding Cubasis VST U-8. If you want to install the program, click **Yes**.



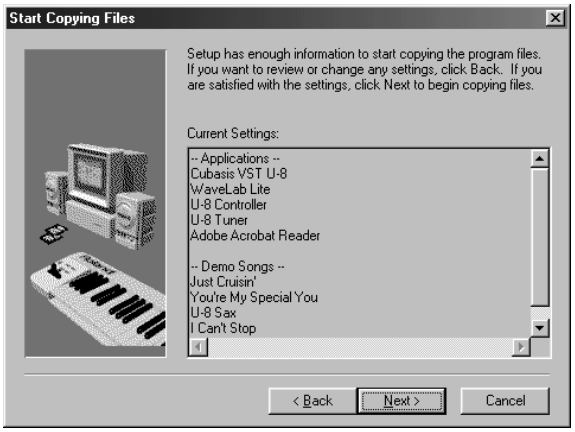
8

If you select Cubasis VST U-8 to be installed, a dialog appears which asks you whether you want to install the demo songs. Check the song names that you want to install, and click **NEXT**. You can also install them later.



9

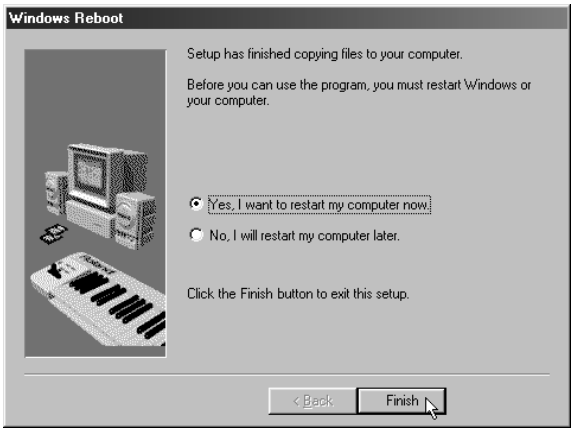
The software to be installed is shown in the **Start Copying Files** dialog box; after confirming what is indicated is correct, click **Next**, and follow the instructions on your screen.



After this, install each component by following the instructions on your screen.

10

You will be asked whether you want to restart your computer. To make the settings effective, choose **Yes, I want to restart my computer now** in the dialog box, then click **Finish**. Windows will restart.



This completes the installation.

NOTE

After you have installed the components of Cubasis VST U-8 and Acrobat Reader, you may be asked whether you want to restart your computer.In this case, click **No** to skip ahead. Even if you press **Yes**, you cannot restart the computer in that stage.

Making the settings for Cubasis VST U-8

After installing Cubasis VST U-8, you need to make the following settings to use the program. If you will be using Cubasis VST U-8 with VSC3.0, skip ahead to p. 35.

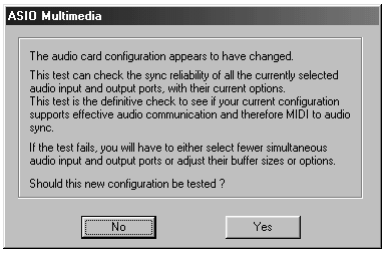
Settings for the AUDIO device

1

From the Windows **Start** menu, select **Programs** - **Steinberg Cubasis VST** - **ASIO Multimedia setup** to execute it.

2

If the following message appears, click **No** to close the dialog.



3

In the **ASIO Multimedia Setup** window, click the **Advanced Options** button to open the **ASIO Multimedia Setup - Advanced Options** dialog.

4

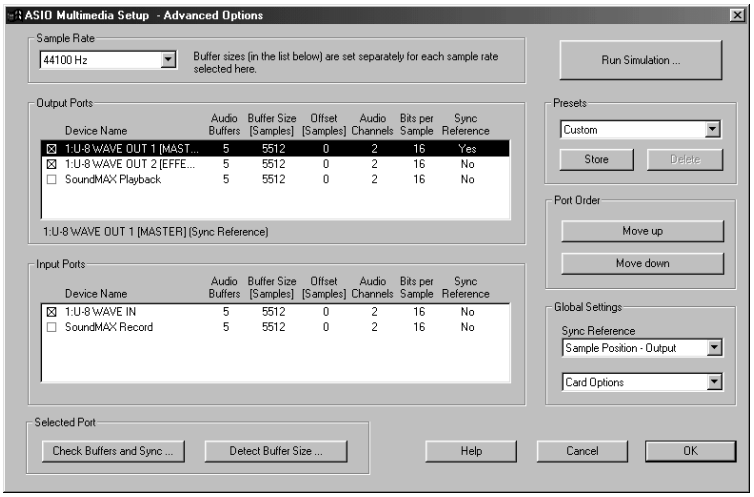
In the **Device Name** for **Output Ports**, check **1:U-8 WAVE OUT 1 [MASTER]** and **1:U-8 WAVE OUT 2 [EFFECTS]**. Clear the check boxes for all the other devices.

Confirm that **Sync Reference** for **1:U-8 WAVE OUT 1 [MASTER]** is set to **Yes**. If not, click **1:U-8 WAVE OUT 1 [MASTER]**, then press the **Move up** button so that it appears at the top of the list.

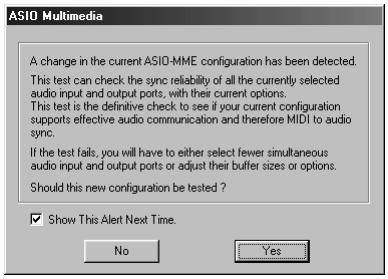
5

In the **Device Name** for **Input Ports**, check **1:U-8 WAVE IN**, then press the **Move up** button so that it appears at the top of the list.

Clear the check boxes for the other devices if you do not need to use them.



6 Click **OK** to finish the settings. If the following dialog appears, press **No**.



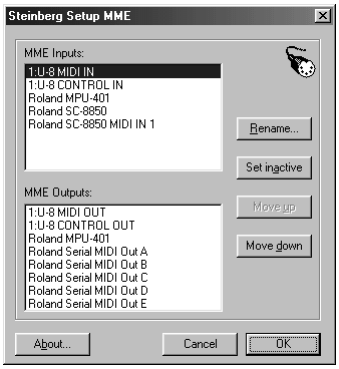
Settings for the MIDI device

1 From the Windows **Start** menu, select **Programs** - **Steinberg Cubasis VST** - **Setup MME** to execute it.

2 Click and select the device to use for MIDI Input from the **MME Inputs**.

If you will be using the MIDI IN Connector on the U-8, click **1:U-8 MIDI IN**.

3 Press the **Move up** button so that it appears at the top of the list.

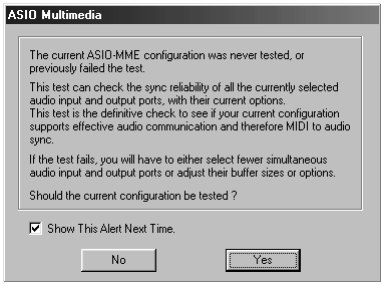


4 Click **OK** to finish the settings.

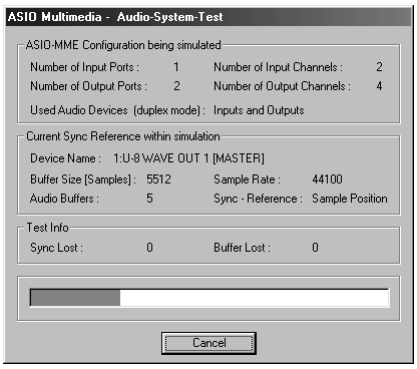
Starting up Cubasis VST U-8

1. Start Cubasis VST U-8.

2. The following dialog appears.



Click **Yes**, then the Audio system test starts.



If the test finished successfully, this completes the settings for Cubasis VST U-8.

If it does not finish successfully, exit Cubasis VST U-8, and restart the program to test the sysytem once again.

Installing Virtual Sound Canvas 3.0 (VSC 3.0)

This section describes how to run Virtual Sound Canvas 3.0 (VSC 3.0). More detailed explanations on the VSC 3.0's buttons and operations are featured in VSC 3.0 Help.

Help can be displayed in the following ways:

- Click **Start**, and from the list of **Programs** click **Virtual Sound Canvas 3.0 Help** in the **Virtual Sound Canvas 3.0** group.
- Click the **VSC Helper Icon** () on the Windows taskbar, and select **Help** in the menu.

■ Features

- You can play music files using only your computer, no external sound module is necessary.
- VSC 3.0 is compatible with GM and GM2 System, as well as GS Format, a form of music files conforming to specifications for Roland sound modules. Additionally, VSC 3.0 sounds are compatible with sounds from other models in Roland's line of GS sound modules, including the SC-55(mkII), SC-88, and SC-88Pro (not compatible with the SC-8850), allowing you to play music files exclusive to these devices. (In certain situations, VSC 3.0 may play back the music files differently due to the difference in the specifications.)
- VSC 3.0 is a multitimbral sound module featuring 16 parts, for a maximum of 128voices. In addition, VSC 3.0 comes with 902 sounds and 26 drum sets (using SC-88Pro Map-compatible sound sets) built in, making spectacular ensemble performances possible (you can also switch to SC-55 Map-compatible and SC-88 Map-compatible sound sets).
- VSC 3.0 features audio file conversion, which makes converting Standard MIDI Files to audio files a snap.
- Not only can you play music files in the Player window, you can also change the tempo and key. You can also compile the songs you like in sets and save them as Song Lists.
- In the Controller window, you can easily switch sounds (instruments), adjust volume levels, and change parts in other ways, as well as mute parts.
- Internal reverb, chorus, and delay effects lend greater musical expression to your performances.
- The integrated TVF (Time Variant Filter) provides more natural expression when you play.
- You can display the levels and monitor the processor load for each part, a useful reference when checking on the status of the performance and making custom settings.
- You can freely make settings affecting processor load, sound quality, effects, and more, so you can customize the settings to match the performance capabilities of your computing environment.

- You can also set expression response (however, you may be unable to change the response in certain environments).
- You can use VSC 3.0 as a sound module for a variety of software outputting MIDI messages.
- With a computer equipped with the Intel Pentium III processor, you can enjoy even greater performance.
- VSC 3.0 is compatible with DirectSound, thus allowing synchronization of game sound effects and other sounds with on-screen action (available only with applications compatible with DirectSound).
- The Help icon in the Windows Taskbar lets you make settings for VSC 3.0 easily, right from the desktop.

■ Installing VSC 3.0

1

Start up Windows.

* *If you have already started other software, quit them beforehand.*

2

Insert the included CD-ROM into the CD-ROM drive.

3

Click the Windows **Start** button, and then click **Run...**.

This displays the **Run** dialog box.

4

Type **E:\VSC3.0\SETUP** in the **Open** text box, then click **OK**.

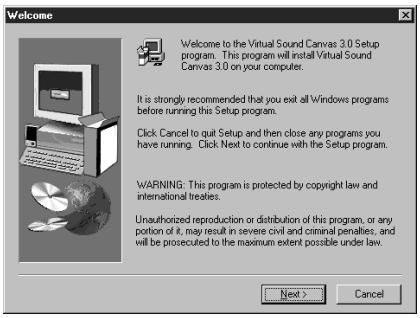
Alternatively, you can click **Browse**, the **Setup** file on the CD-ROM drive, then click on **Open**.

MEMO

In this explanation we are assuming that your CD-ROM drive is drive E:, but the drive letter may differ on your computer. If the drive letter is different on your computer, input the appropriate letter. To check the drive letter of your CD-ROM drive, double-click the **My Computer** icon.

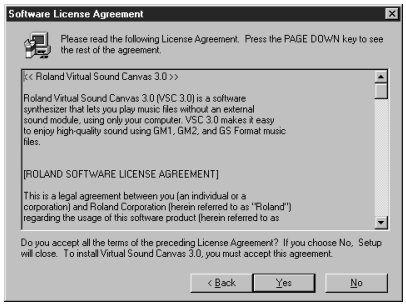
5

The installer will start up. Click **Next**.



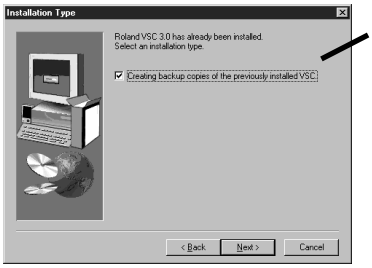
6

A message appears asking you if you agree to the terms of the license agreement. Read the agreement carefully; if you agree to the terms, click **Yes**. Clicking **No** cancels the installation.



7

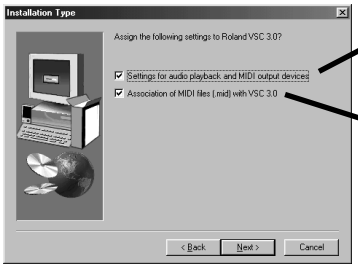
The following confirmation dialog will be displayed if you already have VSC-55/88 installed on your computer. If this message does not appear, then please go to Step 9.



If you want to easily reinstall the currently installed VSC 3.0 or VSC-55/88, choose "Creating backup copies of the previously installed VSC," and click on "Next." After installation, the [VSC Restore] icon is created on the Desktop. You can restore the original conditions by double clicking this icon.
If it is all right to overwrite the currently installed VSC 3.0 or VSC-55/88, clear the check, then click on "Next."

8

The **Installation Type** dialog box is displayed. With both items checked, click on **Next**.

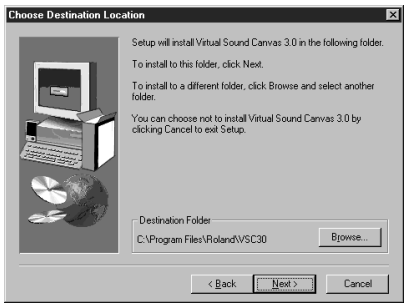


The MIDI output and audio playback device are set to VSC 3.0, so you can use VSC 3.0 from other software.

Check this if you want to open a .mid file using VSC 3.0 from Windows Explorer etc. (When installing other software afterwards, .mid files may be registered to the software other than VSC 3.0.)

9

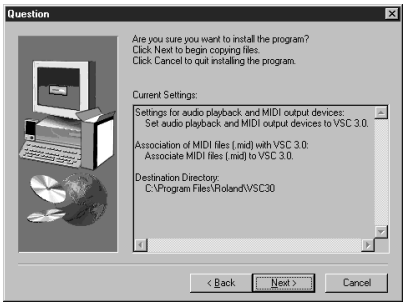
The **Choose Destination Location** dialog box will be displayed. To install to the specified destination, click **Next**. If you want to install to a different folder, click **Browse...** and select another folder.



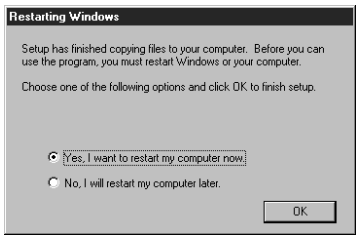
10

The **Question** dialog box will appear. If the displayed settings are correct, click **Next**.

The installation starts.



11 You will be asked whether you restart your computer. To make the settings effective, choose **Yes, I want to restart my computer now** in the dialog box, then click **OK**. Windows will restart.



This completes the installation of VSC 3.0.

Making the settings to use Cubasis VST U-8 with VSC 3.0

After installing VSC3.0, you need to make the following settings to use Cubasis VST U-8 with VSC3.0.

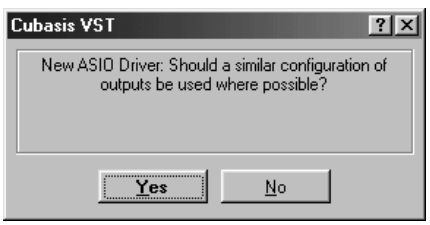
Preparation to use VSC 3.0

1 Make sure that the power on the U-8 is turned on, then start up Cubasis VST U-8.

2 In Cubasis VST U-8, choose **System** from the **Audio** menu to open the **Audio System Setup** dialog. If **Roland U-8 ASIO device** is specified for **ASIO Device**, choose **ASIO Multimedia Driver**. Then, click **OK**.

3 If the following message appears, click **Proceed**, or click **Save Song** if you need to save the song first.

4 If the following message appear, click **YES**.



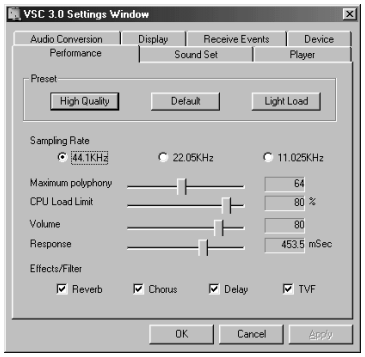
5 Click **OK** to close the **Audio System Setup** dialog.

6 Then exit Cubasis VST U-8.

Settings for VSC 3.0

1 Click the **VSC Helper Icon** ( ) on the Windows taskbar, and select **VSC 3.0 Settings** - **Performance** to open the **VSC 3.0 Settings Window**.

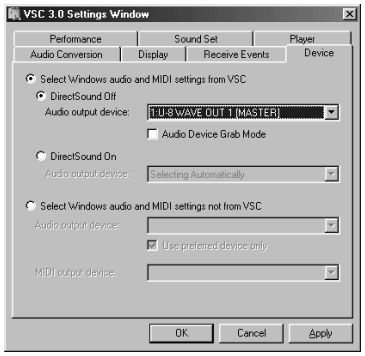
2 Click **44.1KHz** for the **Sampling Rate**.



3 Click the **Device** tab.

4 Click **Select Windows audio and MIDI settings from VSC**.

5 Click **DirectSound Off**, and select **1:U-8 WAVE OUT 1 [MASTER]** for the **Audio output device**.



6 Click the **OK** button to finish the VSC 3.0 settings.

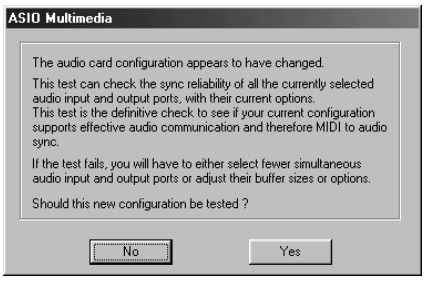
Settings for the AUDIO device

1

Select Windows **Start** - **Programs** - **Steinberg Cubasis VST** - **ASIO Multimedia setup** to open the **ASIO Multimedia Setup** window.

2

If the following message appears, click **No** to proceed.

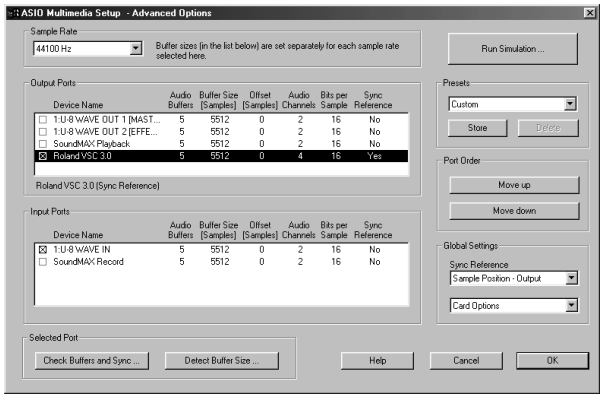


3

Click the **Advanced Options** button to open the **ASIO Multimedia Setup - Advanced Options** dialog.

4

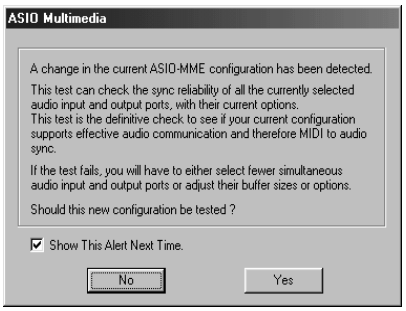
In the **Device Name** for **Output Ports**, click the check box beside **Roland VSC 3.0** and make sure only the **Roland VSC 3.0** is selected. Confirm that **Sync Reference** for **Roland VSC 3.0** is set to **Yes**.



5

Click **OK** to finish the settings, then click **OK** to close the **ASIO Multimedia Setup dialog**.

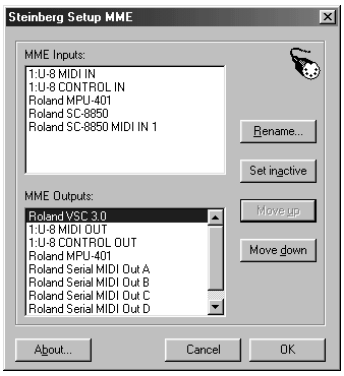
6 If the following dialog appears, press **No**.



Settings for the MIDI device

1 From the Windows **Start** menu, select **Programs** - **Steinberg Cubasis VST**-**Setup MME** to open the **Steinberg Setup MME** dialog.

2 Select **Roland VSC 3.0** for **MME Outputs**, and press the **Move up** button so that it appears at the top of the list.

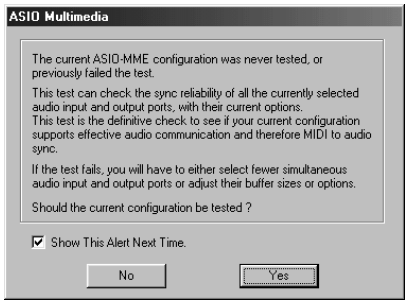


3 Click **OK** to close the dialog.

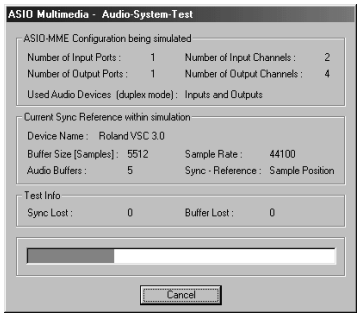
Starting up Cubasis VST U-8

1 Start Cubasis VST U-8.

2 The following dialog appears.



Click **Yes**, then the Audio system test starts.

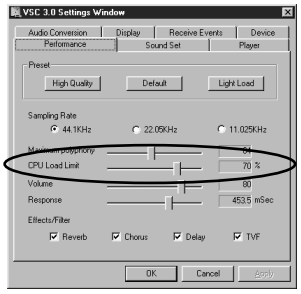


If the test finished successfully, this completes the settings to play songs via VSC 3.0.
If it does not finish successfully, exit Cubasis VST U-8, and restart the program to test the system once again.
Raising the **Buffer Size** (Samples) for **Roland VSC 3.0** in the **ASIO Multimedia Setup - Advanced Options** dialog box (p. 41) may also solve the problem.

MEMO

Pressing the **Detect Buffer Size** button will set a suitable value for the buffer size automatically.

Performance Settings for VSC 3.0



Depending on your computing environment, there may be interruptions in the audio sound or lower performance of the application.
In this case, lower the value for **CPU Load Limit** in the **VSC 3.0 Settings Window** dialog shown below. You can open this dialog by clicking the **VSC Helper Icon** ( ) on the Windows taskbar, and then **Performance** from **VSC 3.0 Settings** group in the list.

■ Making the settings to stop using VSC 3.0

If you want to use other hardware sound module than VSC, while VSC is still installed on your computer, you need to make the following settings.

1

Exit **Cubasis VST U-8**.

2

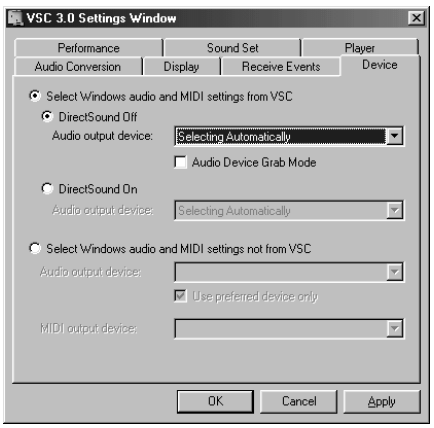
Click the **VSC Helper Icon** ( ) on the Windows taskbar, and select **VSC 3.0 Settings** - **Device**.

3

Click **Select Windows audio and MIDI settings from VSC**.

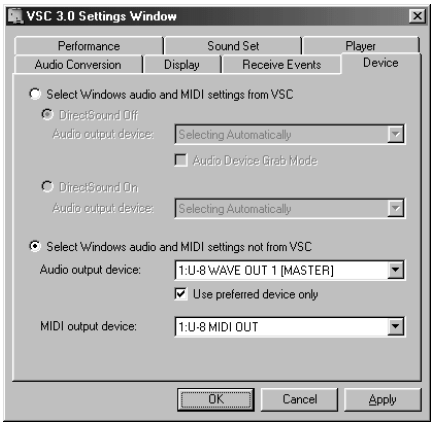
4

Click **DirectSound Off**, and choose **Selecting Automatically**, or a device other than **1:U-8 WAVE OUT1/2**.



5

Check **Select Windows audio and MIDI settings not from VSC**, and set appropriate devices for the **Audio output device** and the **MIDI output** device.



* *This sets the devices that Windows handles and have nothing to do with Cubasis VST U-8. You can set the same devices as Cubasis VST U-8.*

6

Click **OK** to close the dialog.

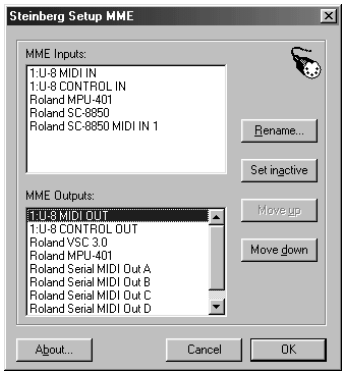
Settings for the MIDI device

1

From the Windows **Start** menu, select **Programs** - **Steinberg Cubasis VST**-**Setup MME** to open the **Steinberg Setup MME** dialog.

2

Select a MIDI device for **MME Outputs**, and press the **Move up** button so that it appears at the top of the list.



3

Click **OK** to close the dialog.

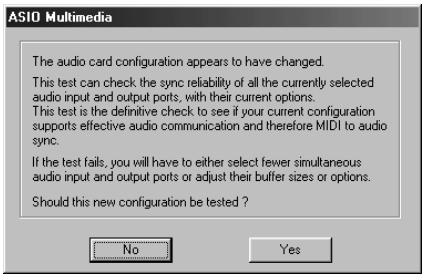
Settings for the AUDIO device

1

Select Windows **Start** - **Programs** - **Steinberg Cubasis VST** - **ASIO** Multimedia setup to open the **ASIO Multimedia Setup** window.

2

If the following message appears, click **No** to proceed.

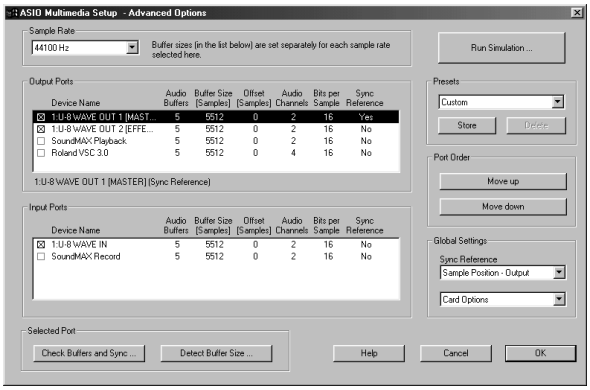


3

Click the **Advanced Options** button to open the **ASIO Multimedia Setup - Advanced Options** dialog.

4

In the **Device Name** for **Output Ports**, click the check box beside **1:U-8 WAVE OUT 1 [MASTER]** and **1:U-8 WAVE OUT 2 [EFFECTS]**. Confirm that **Sync Reference** for **1:U-8 WAVE OUT 1 [MASTER]** is set to **Yes**. If not, click **1:U-8 WAVE OUT 1 [MASTER]**, then press the **Move up** button so that it appears at the top of the list.

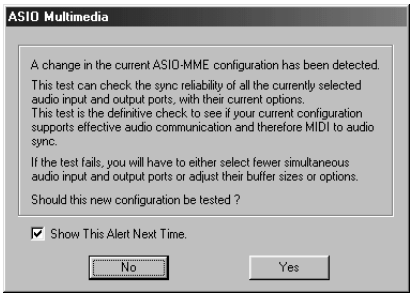


5

Click **OK** to finish the settings, then click **OK** to close the **ASIO Multimedia Setup** dialog.

6

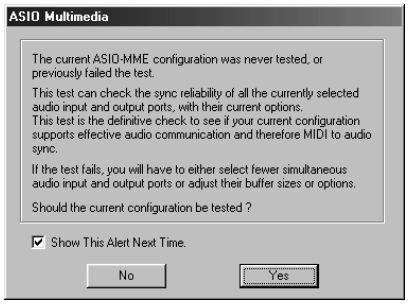
If the following dialog appears, press **No**.



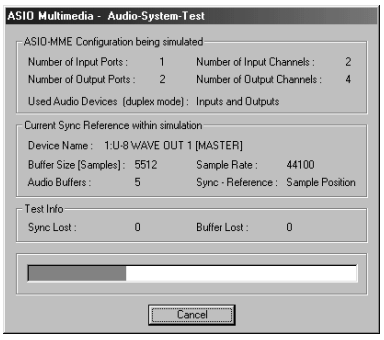
Starting up Cubasis VST U-8

1. Start Cubasis VST U-8.

2. The following dialog appears.



Click **Yes**, then the Audio system test starts.



If the test finished successfully, this completes the settings to play songs via VSC 3.0.

If it does not finish successfully, exit Cubasis VST U-8, and restart the program to test the system once again.

■ Confirming That Sound Is Produced

Loading the demo songs

Follow the steps below to load the demo songs on the included CD-ROM. If you did not install the demo songs, insert the included CD-ROM into the CD-ROM drive.

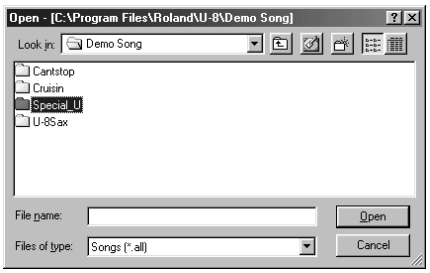
1

Select **Open** from the **File** menu to open the **Open** dialog.

2

Double click the folder for the demo song from the list. Here, you double click "Special_U."

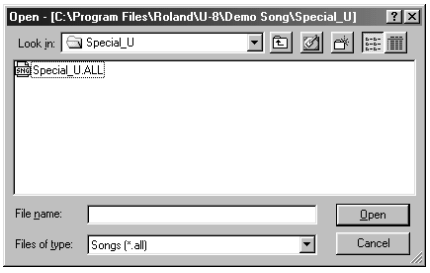
* *If you cannot find the folder for the demo song, go to the folder by clicking the ( ) button to move the folder up one level, or by using* ***Look in****.*



3

(1) Click the demo song from the list. (Here, you select **Special_U.ALL**.)

(2) Click the **Open** button.



The dialog closes, and the demo song you selected is loaded into the application.

* *If the included CD-ROM is not inserted in the CD-ROM drive, a dialog may open that asks you whether to replace the wave files. In that case, insert the included CD-ROM into the CD-ROM drive, then click* ***Retry****.*

NOTE

Follow the instructions below after connecting the U-8, your computer, and other external devices.

MEMO

Usually, the demo songs are located in **C:\Program Files\Roland\U-8\Demo Song**.

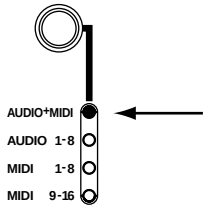
Listening to the Demo Song

After the demo song has loaded, follow the steps below to play it back.

* *The MIDI parts of the demo song use sounds from the **88Pro Map**. To play back the data correctly, use the included **VSC 3.0** software, or a sound module that supports the **88Pro Map**, such as the **SC-88Pro**, **SC-8850**, or **SC-8820**.*

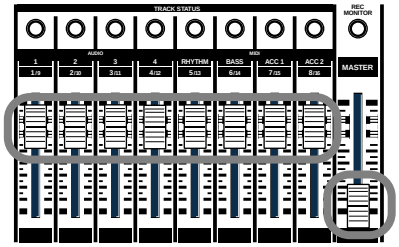
1

Make sure the **Track Group Indicators** are positioned as shown below. If not, press the **Track Group Select button** to position them.



2

Set the **Track Volume Faders** as shown below, and lower the **Master Volume Fader** to the bottom. If you are listening through headphones, raise the **Headphones Volume** to an appropriate level. If you connect the U-8's output to a stereo system or the like, raise its volume to an appropriate level.



3

Press the **Play Button** on the U-8 console, and playback begins.

Raise the **Master Volume Fader** gradually to the level shown below. If the volume is too loud or too low, adjust the **Headphones Volume** or the volume of the stereo system or the like that is connected to the U-8.

4 Press the **Stop Button** to stop play.

5 To quit Cubasis VST U-8, choose **Quit** from the **File** menu.

Is the demo song played back correctly?

If the song is played back correctly, the connection and the software installation have been made successfully. If not, check the following points first.

- Are the **Track Volume Faders** and **Master Volume Fader** turned up?
- If the U-8's output is connected to your stereo system or the like, check its settings. If you are using headphones, check whether the **Headphones** Volume knob is turned up.

If you still do not hear any sound, refer to the "**Points Related to Audio**" under "**Troubleshooting**" in the online manual. You may find items that provide a solution to the problem.

* *If you are using VSC 3.0, lower the **CPU Load**, referring to the "**Performance Settings for VSC 3.0** (p. 43)."*

* *If you load wave data for a song from the CD/DVD-ROM drive, the sound may be cut off, depending on your environment. This is because the speed of loading the data from the CD/DVD-ROM drive is so slow that it cannot keep up with the song. Should this be the case, you can copy the song data in the "**Demosong folder**" to your hard disk before using it.*

MEMO

To learn how to view the troubleshooting, refer to "**How to View the Online Manuals** (p. 63)."

MEMO

For further information on the included demo songs, refer to "**The Included Song Data** (p. 78)."

Creating Songs with the U-8 and Cubasis VST U-8

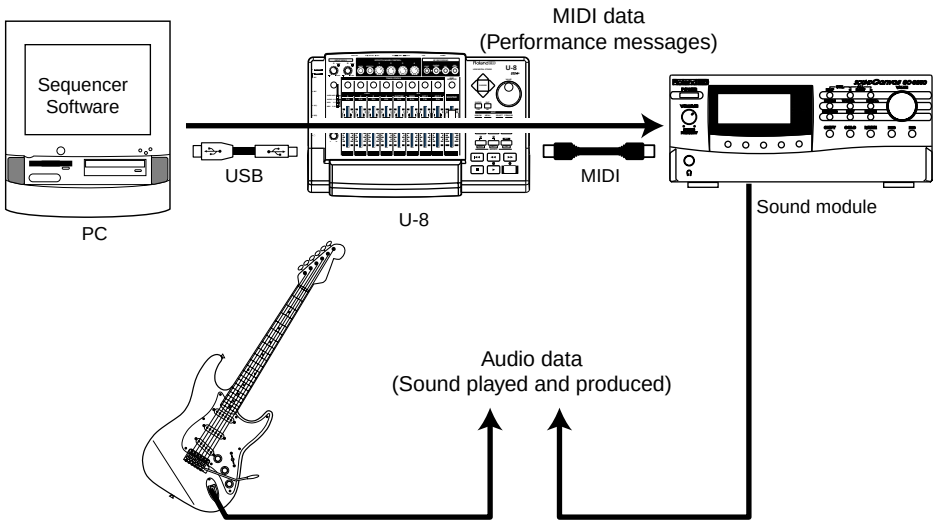
The process used to create songs using the U-8 and Cubasis VST U-8 is as follows:

1) Prepare to create the song data.
2) Create the backing parts using MIDI or audio data.
3) Record the vocals and guitar.
4) Mix down the song.

This section presents an outline of this process of creating songs using Cubasis VST U-8.

■ What Are Audio and MIDI?

Data in each of the two different formats, **Audio** and **MIDI**, has particular characteristics, so when using the U-8 in combination with a sequencer, select either **Audio** or **MIDI** based on the type of recording device being used.



Audio Data

The sound data recorded from microphones, guitars, and devices such as CD players and MD players is called **audio data**.

In addition to what you record through the U-8, you can also work with wave files (files with the extension .WAV) as **audio data**.

One feature of audio data is that, like cassette tapes and MDs, you can faithfully record any sound. However, one minute of audio data in stereo uses up about 10 MB of disk space, so your computer needs to have a large amount of free disk space in order to work with audio data.

MIDI Data

MIDI data is data that records performance messages. Whereas **audio data** is a faithful recording of the sounds of played instruments, **MIDI data** corresponds to the musical score of the played instruments.
Some features of **MIDI data** are that it is much smaller in size than **audio data**, and can also easily be edited later. **MIDI data** is played using a **MIDI sound generator**. A software MIDI synthesizer lets you play **MIDI data** using just your computer, but by using an external MIDI sound module such as the **SC-8850**, **SC-8820** or **SC-88Pro**, you can play sounds of even greater variety and higher quality.

However, since MIDI has trouble handling information about anything other than the pitch, it cannot be used to get realistic sounding vocals.

With the U-8, it's assumed that backings such as drums and bass will be handled as **MIDI data**, and that guitars, vocals, and the like will be recorded with **audio data**.

For more information about MIDI supported by the U-8, see "U-8 and MIDI" in the U-8 Technical Guide.

Getting Ready to Record

This section outlines the preparations made in creating songs, up to the creation of backing parts.

■ Step 1: Use the Start Button to Prepare the Song

Pressing the U-8's **Start Button** initiates the preparations for recording a song.

■ Step 2: Create the Backing Data

Backing parts are created in the following ways.

- The sequencer MIDI editing function is used to add MIDI backing data.
- Backing parts are loaded from commercially available MIDI data collections.
- Backing parts are made from audio data (Wave files).
- Import sound from a CD, MD, or the like to the sequencer program and use it as backing for what you play.

Recording Material from the AUX Input/Digital Input

You can import sound from a CD, MD, or the like to an **audio track** of the sequencer program and use it as backing for what you play.

Connect your CD or MD player to the U-8's **AUX Input jacks** or **Digital Input connector** and record the sound from the CD or MD directly to a track.

This example explains how to make the setting to record the sound from a CD player connected to the **AUX Input jacks (AUX IN)** or the **Digital Input jack (DIGITAL INPUT)**.

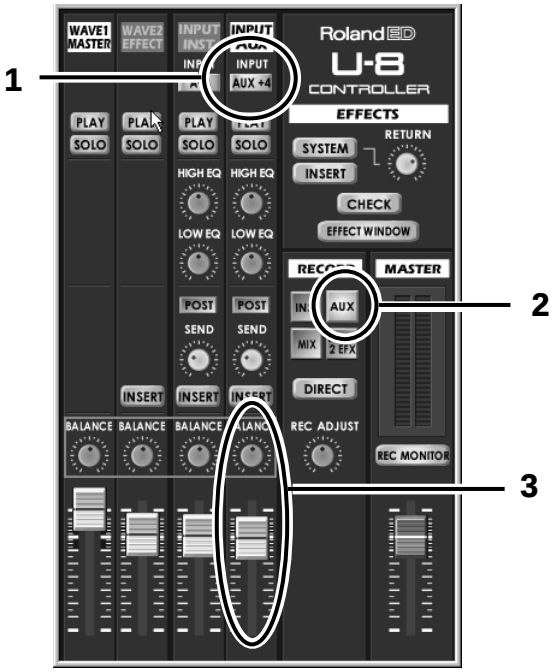
1

From Cubasis VST U-8's **Audio** menu, select **U-8 Mixer**.

The U-8 Mixer will start up.

2

(1) Click **AUX +4** in **INPUT AUX** and select either **AUX +4**, **AUX -10** or **DIGITAL** to match the connector to which the device is connected. (2) Click **AUX** in **RECORD** so that it is lit, selecting **AUX** for recording. (3) Raise or lower the **INPUT AUX** Volume fader to the appropriate level.



3

Set up the sequencer to record audio tracks, select **1:U-8 WAVE IN** for the recording device, and put the sequencer in record standby.

4

The preparation for recording is now complete. Start the recording with the sequencer, and begin playback of the CD, MD, or the like; the sounds input from these gear are recorded to the sequencer.

For more information, refer to the corresponding sections in the online manuals.

- "**Connecting CD, MD, DAT, or Other Audio Equipment**" in "**U-8 and External Equipment**" in the **U-8 Technical Guide**.

MEMO

For more on selecting AUX+4 or AUX-10 to get the proper recording level, refer to "**Selecting the Auxiliary and Digital Inputs and Setting the Levels**" (p. 66).

MEMO

You can also adjust the level with the **ACC2** Track Volume fader.

NOTE

The law prohibits the unauthorized recording, public performance, broadcast, sale, or distribution, etc., of a work (CD recording, video recording, broadcast, etc.) whose copyright is owned by a third party. Roland will take no responsibility for any infringement of copyright that you may commit in using the U-8.

Recording the Guitar, Vocals and Chorus

Now here is an overview of how to record the guitar and vocals, and then add effects to these recorded sounds.

■ Step 3: Press the GUITAR/INST Button or the MIC Button to Get Ready to Record

When the U-8's **GUITAR/INST Button** or **MIC Button** is pressed, a wizard guides you through the recording preparations.
The following preparations for recording of the guitar are made when the U-8 Controller is used.

1

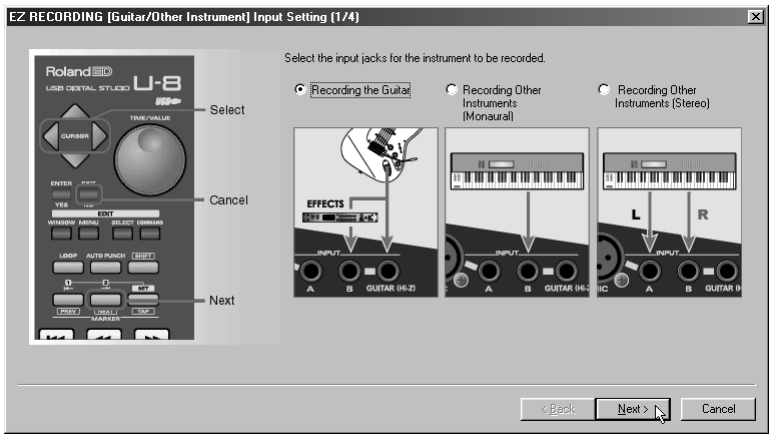
Click and select a recording track in the Arrange Window of Cubasis VST U-8. If you want to record in STEREO, set the track to STEREO in the Inspector.

2

Pressing the GUITAR/INST **GUITAR/INST (Guitar/Instrumental)** button on the U-8 displays the **EZ-RECORDING [Guitar/Other Instrument] Input Setting** dialog box.

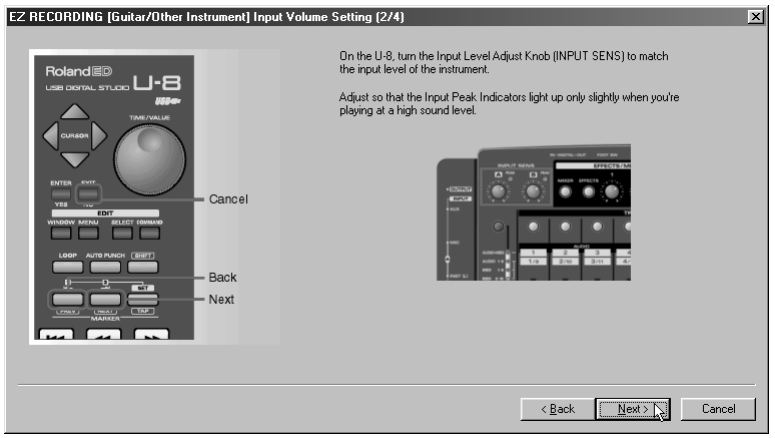
3

At the **EZ-RECORDING [Guitar/Other Instrument] Input Setting** dialog box, connect the guitar to the U-8 as directed. After checking the connections, press the NEXT **NEXT** button or click **Next**.



4

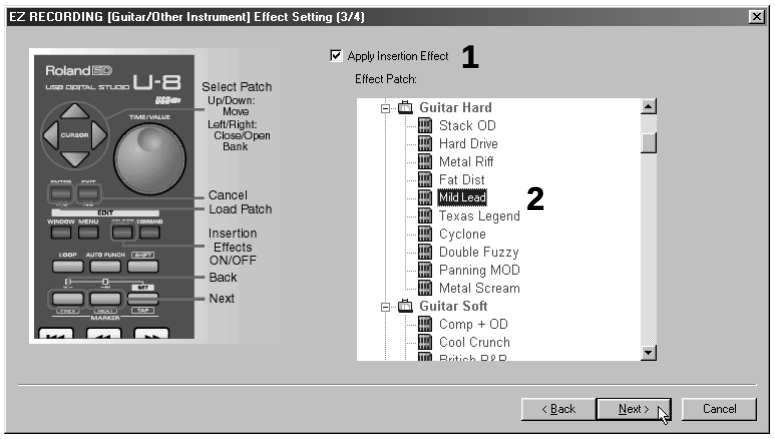
At the **EZ-RECORDING [Guitar/Other Instrument] Input Volume Setting** dialog box, use the **Input B Sensitivity Volume** knob to adjust the input level. After adjusting the level, press the NEXT **NEXT** button or click **Next**.



5

At the **EZ-RECORDING [Guitar/Other Instrument] Effect Setting** dialog box, (1) press the U-8's SELECT **SELECT** button to select whether to apply effects, then (2) press the **CURSOR** buttons or turn the VALUE **TIME/VALUE** dial to move the cursor, and press the ENTER **ENTER** button to select the effect patch. After making the selection, press the NEXT **NEXT** button or click **Next**.

In this example, (1) select **Apply Insertion Effect**, then (2) select the **Mild Lead** patch from **Guitar Hard**.

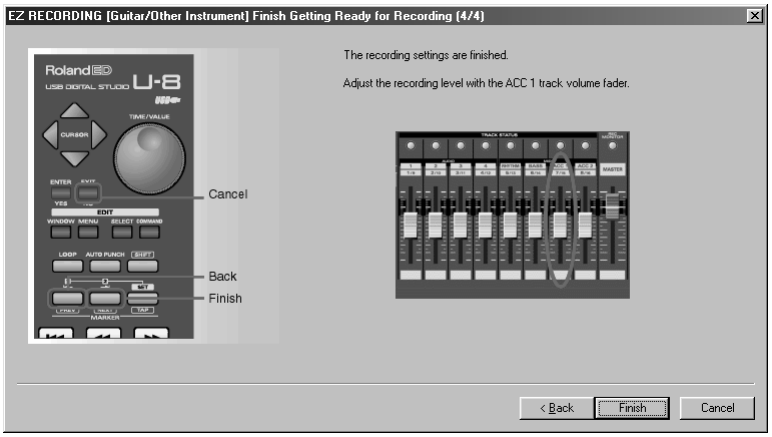


MEMO

For information on how to adjust the **Input B Sensitivity Volume** knob, see the explanation on p. 66.

6

The settings you've made so far complete the preparations. At the **EZ-RECORDING [Guitar/Other Instrument] Finish Getting Ready for Recording** dialog box, press the NEXT **NEXT** button or click **Finish** to close the dialog box.



While the above describes the process of setting up for recording guitars and other instruments, you can set up for recording vocals using the same procedures after pressing the **MIC button**.

■ Using Effects to Create Sounds

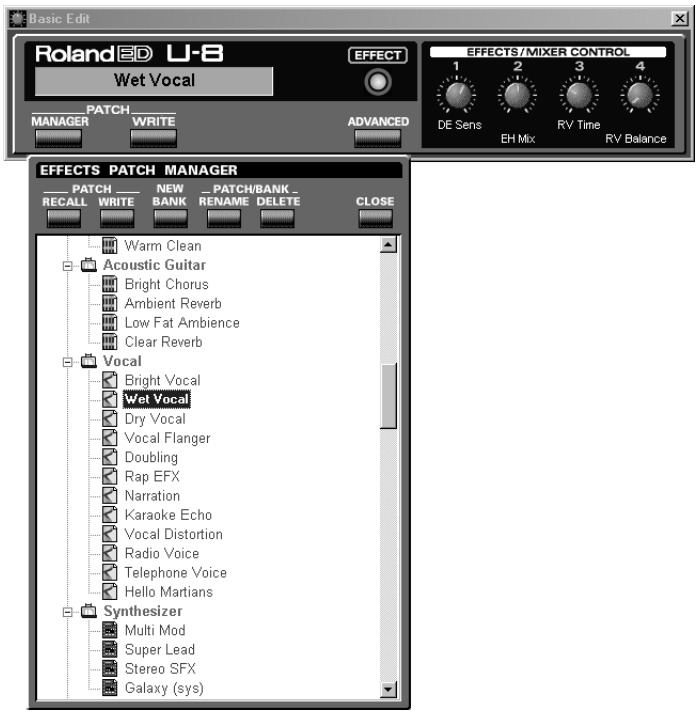
In "Step 3: Press the GUITAR / INST Button or the MIC Button to Get Ready to Record," a patch containing the effect of a guitar distortion sound was selected. Now, we will see how to use the Effects Edit screen.

Applying Delay Effect to Vocals

The U-8 provides **Vocal Multi** allowing you to apply a rich range of effects. In this example, we'll use **Wet Vocal** to add reverberations to vocals.

1

With the U-8 Mixer opened, press the EFFECTS **EFFECTS** button to open **Effects Edit screen**, and press the **CURSOR** buttons to move the cursor to **MANAGER**, then press the **ENTER** button to open the **Effects Patch Manager**.



2

Press the **CURSOR** buttons or turn the **TIME/VALUE** dial to choose the **Wet Vocal** patch from **Vocal**, then press the **ENTER** button to change the sound to the patch. After making the selection, press the **EXIT** button to close the Effect Patch Manager.

3

Use **Effects/Mixer Control** knobs to adjust the parameter value and create the sound. In this example, turn the **EFFECTS/MIXER CONTROL knob 3** to adjust the reverb time, and the **CONTROL knob 4** to adjust the balance between the effect sound volume and the direct sound volume.

There are other patches besides the **Wet Vocal** patch that use **Vocal Multi**. Refer to the settings for these patches when making vocal sounds.

MEMO

To save the sound you've created, click **WRITE** and click **Store into New Patch**, then specify the name of the file to save to. For more information, refer to "**Effects Edit Screen**" in the U-8 Controller Manual.

4

To record the effect-applied sounds without using the EZ RECORDING function, specify the Input source to **MIC/A** and put on the **INSERT** button on the **INPUT INST** track. Press the **INST** button in the **RECORD** section, then record the sounds.

MEMO

You can audition the effect-applied sounds by pressing the **REC MONITOR** button on the U-8 Mixer, and can adjust the final mix level while listening the sounds.

Clicking **ADVANCED** in the effects edit screen opens the **Advanced Edit screen** where you can make adjustments to all of the effect's parameters. If there are more than four parameters, you can freely create the sounds from within this window. For more information, refer to the "Advanced Edit Screen" in "Effects Edit Screen" in the U-8 Controller Manual.

Finishing Up the Song

This outline explains how to get a final mixdown of the song, and then record the song to an external tape recorder, MD, or other device.

■ Step 4: Press the MIX DOWN Button and Mix the Song While Adding System Effects

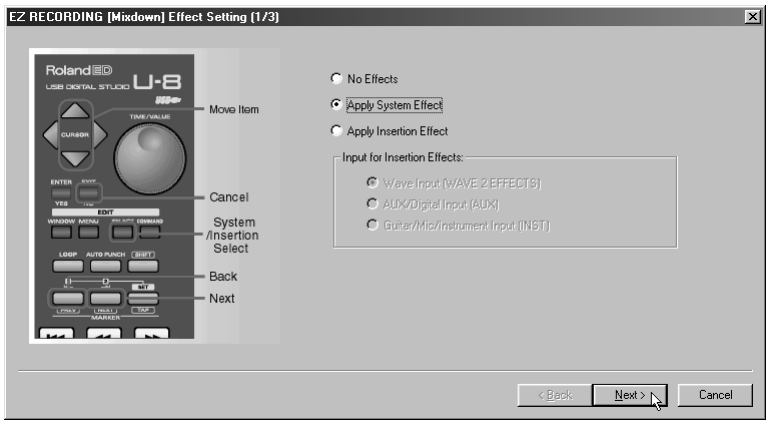
When the U-8's **MIX DOWN Button** is pressed, a wizard guides you through the preparations for mixdown.
The following preparations for mixdown are made when the U-8 Mixer is used.

1

Pressing the MIX DOWN **MIX DOWN** button on the U-8 displays the **EZ-RECORDING [Mixdown] Effect Setting** dialog box.

2

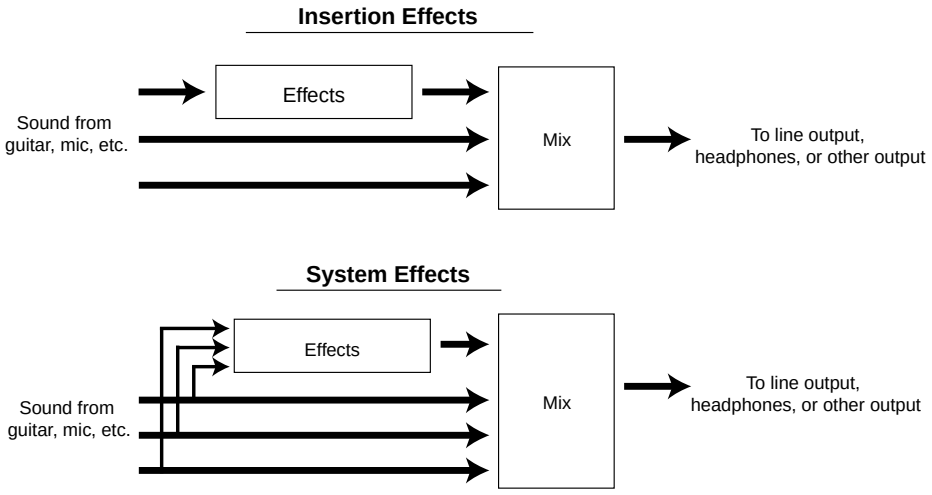
At the **EZ-RECORDING [Mixdown] Effect Setting** dialog box, use the **CURSOR** buttons to select whether to apply effects. After making the selection, press the NEXT **NEXT** button or click **Next**.



In this example, select **Apply System Effect**.

What are Insertion Effects and System Effects?

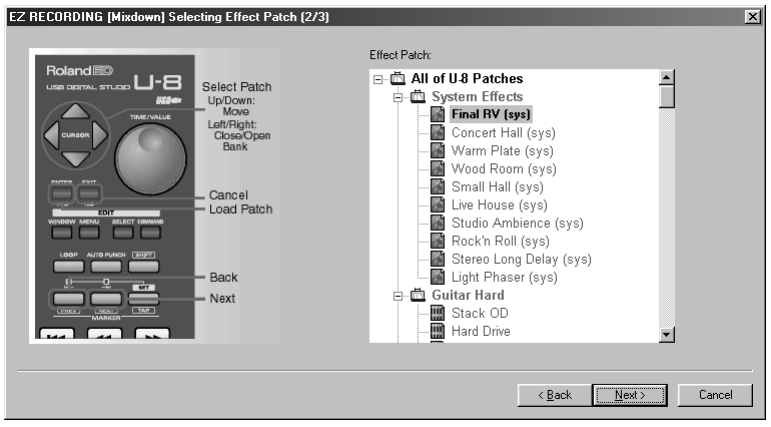
Insertion effects, which are used when recording guitars and mic sources, are applied to a single input, whereas the **System effects** are used for adding effects to the overall mix. As shown in the figure below, when **System effects** are used, the signals are sent to the effect from the inputs little by little, and the effect output is mixed with the source sound.



3

At the **EZ-RECORDING [Mixdown] Selecting Effect Patch** dialog box, use the **CURSOR** buttons or the VALUE **TIME/VALUE** dial to move the cursor, then press the ENTER **ENTER** button to select the effect patch. After making the selection, press the NEXT **NEXT** button or click **Next**.

In this example, select the **Final RV** patch from **System Effects**.



4

At the **EZ-RECORDING [Mixdown] Finish Getting Ready for Recording** dialog box, press the NEXT **NEXT** button or click **Finish** to close the dialog box.

MEMO

Keeping the **INPUT INST** (mic and guitar input) or **INPUT AUX** (auxiliary and digital input) faders raised may allow the introduction of noise into the sound. During mixdown, either mute any unused inputs, or lower the faders for those inputs.

5 Adjust each track's volume in the VST Mixer.

6 If you want to apply effects, put on the effect switch of the tracks.

7 Use the Effect Send knob to adjust the send level to the effect.

The sounds of the track whose effect switch is on are mixed together into the U-8 Mixer's **WAVE 2 EFFECT track**.

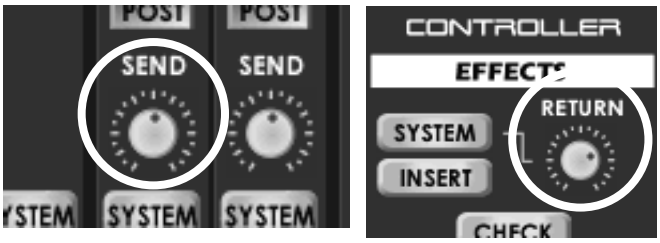
* *If you want to adjust the send level for a monaural track, the sound will be sent from the VST Mixer to the left side of the* ***U-8 Wave2 Effect****.*

* *If you want to adjust the send level for the stereo track separately, rotate the knob using the mouse while holding the* ***ALT*** *key.*

8 After settling the final mix level, select the record track and press the **Record Button** to record the song.

A Note on Adjusting the System Effects

The send level to the effects from each input is adjusted with the **SEND** for each input, while the outputs to which the effects output is mixed is adjusted using the **RETURN** in **EFFECTS**.



MEMO

You can audition the effect-applied sounds by pressing the **REC MONITOR** button on the U-8 Mixer, and can adjust the final mix level while listening the sounds.

MEMO

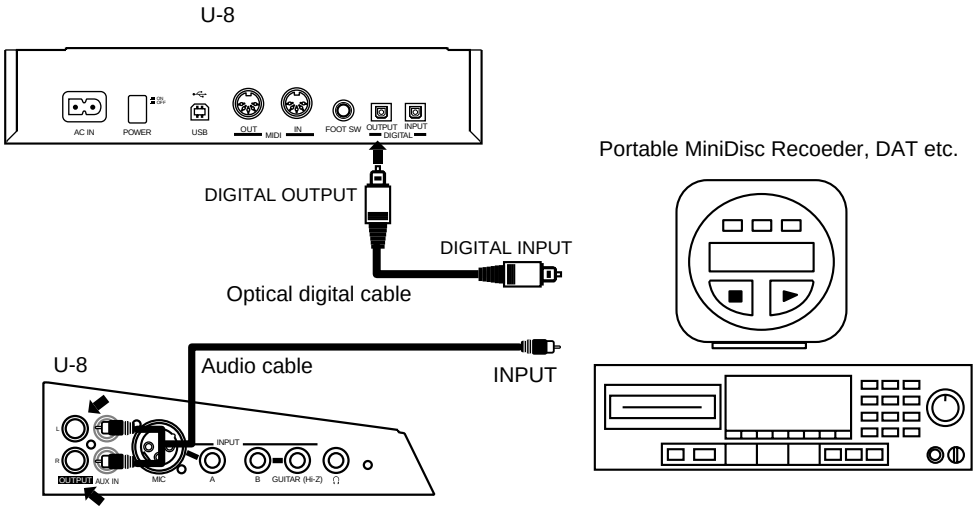
If you change the controllers of a stereo track on the VST Mixer, the two tracks move synchronized. Use the mouse while holding the **ALT** key to separately control the knobs, switches, and faders for the stereo tracks.

■ Step 5: Recording a Song on an MD or DAT Recorder

You can record a mastered song on an MD or DAT recorder connected to the U-8's **Line Output jacks** or **Digital Output connector**.

1

Connect the recording device you're using (MD recorder, DAT recorder, or the like).



2

On the U-8, press the [⏮] **To Start of Song** Button to rewind, or use the sequencer to rewind.

3

Operate the recording device to start recording. When recording starts, press the [►] **Play** button to start playback of the song, or use the sequencer to play back the data.

4

When the song ends, stop recording on the recording device, then press the [■] **Stop** button to stop playback, or use the sequencer to stop playback.

NOTE

Cables for digital output or line output are not included. You'll need to provide cables that match the type of input connectors on the MD recorder, DAT recorder, or other equipment you're using.

How to View the Online Manuals

The included CD-ROM contains manuals that go into greater detail. While using the U-8 itself or if you encounter something you don't understand, take a look at the online manuals.

Viewing the Cubasis VST U-8 manual

■ Installing Acrobat Reader

For more detailed information about Cubasis VST U-8, you can view the online manual using Acrobat Reader, supplied by Adobe Systems Incorporated. Start **Acrobat Reader** and open **Cubasis VST U-8 manual.pdf** to see the manual. If you did not install Acrobat Reader when installing Cubasis VST U-8, follow the steps below to install the program.

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

2 Click the Windows **Start** button, and click **Run**.

The **Run** dialog will appear.

3 In the **Open** text box, input **E:\Acrobat Reader\ar405eng.exe** and then click **OK**.

Alternatively, you can click **Browse**, then open the CD-ROM drive, select the **ar405eng.exe** in the **Acrobat Reader** folder, and click **Open**. Then click **OK**.

4 The installer will start up. After this, install the program by following the instructions on your screen.

MEMO

Usually, **Cubasis VST U-8 Manual.pdf** is located in **C:\Program Files\Steinberg\Cubasis VST U-8\Manual**.

NOTE

In this explanation we are assuming that your CD-ROM drive is drive E:, but the drive letter may differ on your computer. If the drive letter is different on your computer, input the appropriate letter. To check the drive letter of your CD-ROM drive, double click the **My Computer** icon.

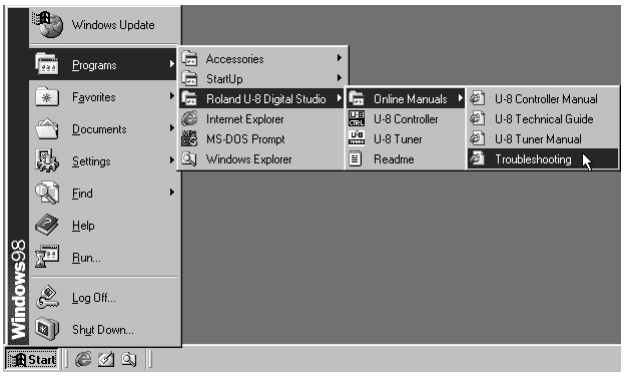
If There's a Problem, Read "Troubleshooting"

If there's a problem, such as no sound, viewing **Troubleshooting** will give you some possible solutions.
Follow the steps below to display "Troubleshooting."

1

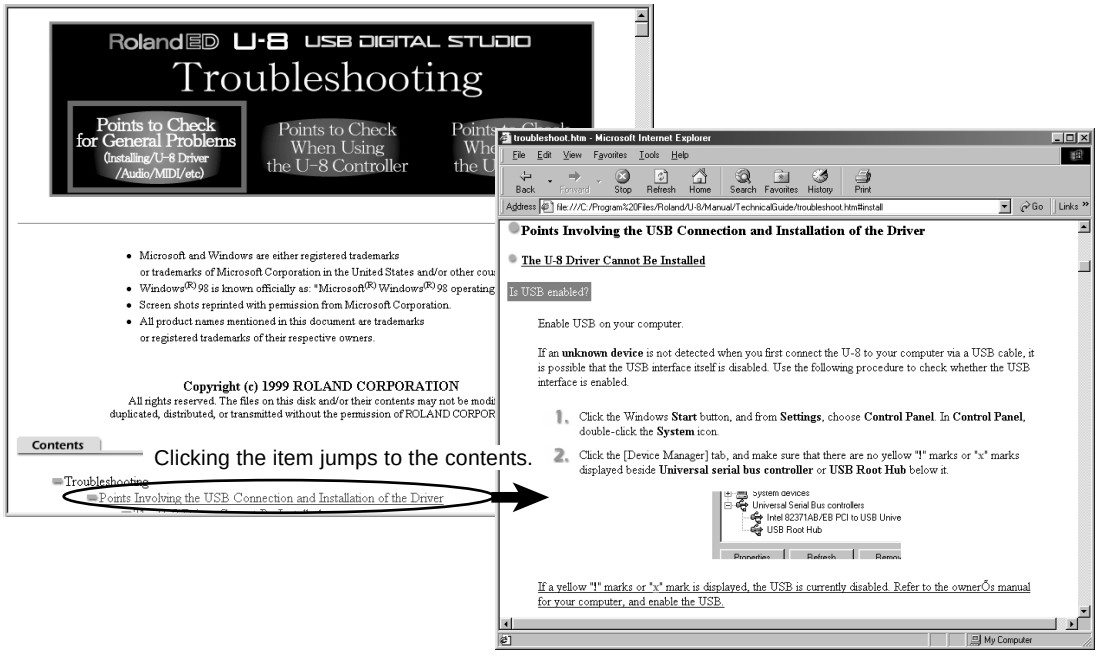
After clicking the Windows **Start** button, go to **Programs** and select **Roland U-8 Digital Studio**, then **Online Manuals**, and then click **Troubleshooting**.

The browser window appears.



2

The web browser screen opens. After the screen title and table of contents is displayed, you can then click to jump to a desired item.



NOTE

A Web browser such as **Netscape Navigator** or **Microsoft Internet Explorer** must be already installed and set up on your computer in order to view the online manuals. You will need to provide this yourself.

NOTE

The way the online manuals appear on screen may vary depending on the Web browser you're using.

Viewing the Other Online Manuals

The other online manuals are the **U-8 Technical Guide**, the **U-8 Controller Manual**, and the **U-8 Tuner Manual**. Take a look at each of these as required.

U-8 Technical Guide

This describes the details of effects, special examples of connections with the U-8, exchange of MIDI messages with the U-8, the details of the U-8's on-board digital mixer, and more.

U-8 Controller Manual

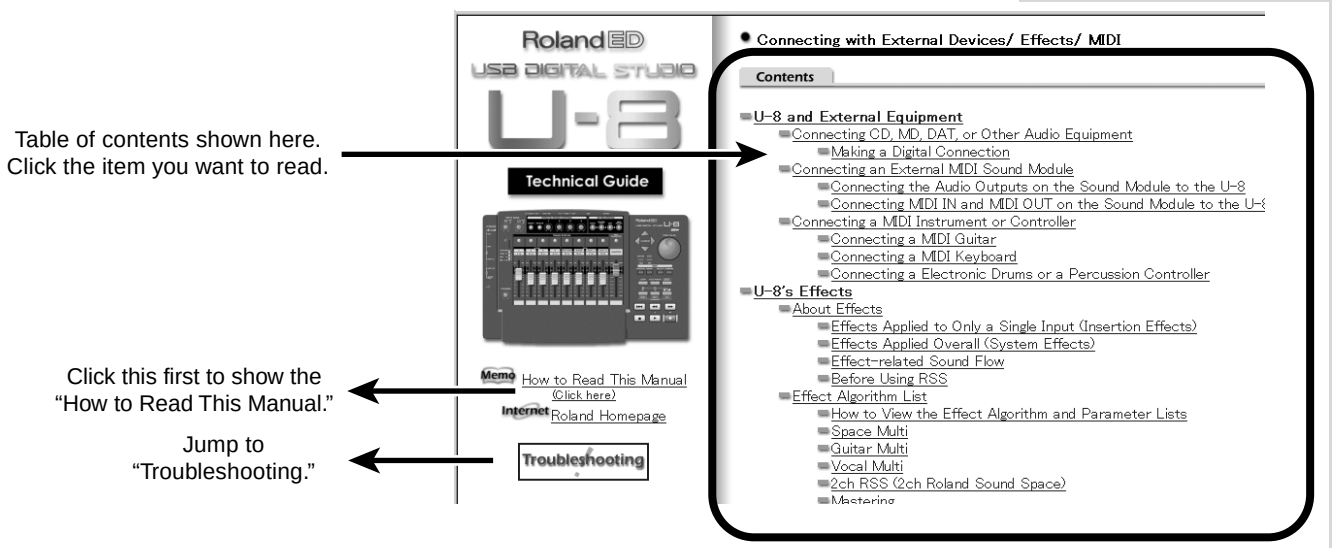
This describes how to use U-8 Controller.

U-8 Tuner Manual

This describes how to use U-8 Tuner.

1 After clicking the Windows **Start** button, go to **Programs** and select **Roland U-8 Digital Studio**, then **Online Manuals**, and then click the manual you want to read.

2 The web browser screen opens. After the screen title and table of contents is displayed, you can then click to jump to a desired item.



Information That You May Find Useful

How to Match the Input Levels

If guitar, mic, or auxiliary input levels are set too low, then the data actually recorded may need to amplified, which may result in noise. At the same time, recording with the input levels set too high may cause the sound to be distorted.

Use the following measures to adjust the inputs to the most appropriate levels.

* *The adjustment is made while playing loudly with a connected instrument or the like, so take care to ensure that the output volume does not become too loud.*

■ How to Adjust the MIC/A and GUITAR/B Input Levels

Carry out this procedure while outputting the highest sound levels to be used by the connected instrument.

1. Rotate the **INPUT A and B Sensitivity Volume knobs** clockwise until the **INPUT A and B Peak Indicators** light up.

2. Gradually rotate the **INPUT A and B Sensitivity Volume knobs** counterclockwise to the position at which the **INPUT A and B Peak Indicators** are no longer lit.

MEMO

If the indicator stays lit even when you turn the **INPUT A/B adjustment knob** completely counterclockwise, lower the output volume of the connected device.

■ Selecting the Auxiliary and Digital Inputs and Setting the Levels

When Connected to the Digital Input

In the Mixer window of the **U-8 Controller**, select **DIGITAL** for the **INPUT** setting in **INPUT AUX**.

NOTE

Raising the input faders too high when inputting digital signals may cause the signal to become distorted.

When Connected to the Auxiliary Input (AUX IN)

In the Mixer window of the **U-8 Controller**, make the **INPUT** setting in **INPUT AUX** according to the device you have connected.

- Generally, when connecting to a component CD, MD, DAT, or similar digital device, select **AUX+4**.
- Generally, when connecting to a portable CD or MD player, or other such device, select **AUX-10**.

NOTE

To confirm which setting, **AUX+4** or **AUX-10**, is used for the output of the device you actually are using, check the related information in the owner's manual for the device.

When setting to **AUX-10**, used the following procedure to match the levels.

1. Open **U-8 Controller**.

2. Select **AUX -10** for **INPUT** in **INPUT AUX** in the Mixer screen.

3. Bring up the **INPUT AUX** fader and the **Master Volume** fader to 100.

4 Confirm that **CHECK** and **REC MONITOR** are not lit, and output the highest sound level of the MIDI sound module or other connected device.

5 Adjust the output volume of the connected device so that the **Peak Indicator** occasionally lights in red.

The U-8 Driver

The U-8 driver is software that receives information sent from the U-8, and sends audio and MIDI data output by a program to the U-8. It must be installed correctly when using the U-8 connected to a computer.
To reinstall it, first follow the steps described below in "**Deleting the U-8 Driver**" to delete the driver, and follow the steps in "**Deleting Unneeded Drivers Installed with the U-8 Connection**" (p. 69), then follow the steps in "**Getting Ready to Use the U-8 with a Computer (Installing the U-8 Driver)**" (p. 22) to install the driver.

■ Settings for the U-8 Driver

Depending on your computing setup, problems may occur in audio and MIDI playback.
The U-8 driver provides several items you can make settings for to correct such problems. For more information, check "**U-8 Driver Settings Dialog Box**" in the "**U-8 Driver**" section of the U-8 Technical Guide.

MEMO

For information on how to view the U-8 Technical Guide, take a look at p. 65.

■ Deleting the U-8 Driver

NOTE

The explanations in this section assume an ordinary Windows environment. Please be aware that some folder names may be different on your computer.

1 Connect the U-8 unit and the computer with a USB cable.

2 Turn on the U-8.

3 First delete the U-8 driver. In Windows, open **Control Panel** and double-click **System**.

The **System Properties** dialog box appears.

4 Click the **Device Manager** tab.

5 Double-click **Sound, video and game controllers** to display the list of devices.

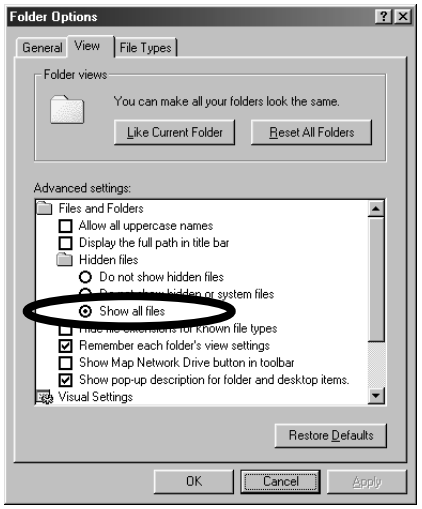
Continued on the next page

6 From the list, choose **Roland U-8 USB Driver**, then click **Remove**. At the **Confirm Device Removal** dialog box, click **OK**.

7 In **Sound, video and game controllers**, make sure that **Roland U-8 USB Driver** is not listed, then click **Close** to close the dialog box.

8 Next, from the **Start** menu, start **Windows Explorer**, and from **Windows Explorer**'s **View** menu, choose **Folder Options**.

9 Click the **View** tab, and under **Files and Folders (Advanced settings)**, in **Hidden Files**, click **Show all files**, then click **OK**.



10 In **Windows Explorer**, open the hard drive where the system is installed (usually the **C:** drive), and open the **\Windows\Inf\Other** folder. Next, Right-click **Rolandrdif0002.inf** to display the menu, and choose **Delete**.

11 In the same way, open the **\Windows** folder and delete **rdin0002.ini**.

12 Turn off the U-8 and restart Windows.

■ Deleting Unneeded Drivers Installed with the U-8 Connection

If, after connecting the U-8 to your computer, you respond to the questions presented by Windows, the U-8 ends up being registered as a **USB Composite Device** in **Universal Serial Bus Controllers**.
In addition, if the installation is cancelled due to a disconnected cable or other kind of trouble while the installation is in progress, then the U-8 is registered as **Unknown Device** or **Composite USB Device** in **Other Devices**.

Installation of these unnecessary drivers may make it impossible to make later installations.

If this occurs, use the following procedure to delete the **USB Composite device**, **Composite USB device** and **Unknown Device** below **Other Devices** and **Universal Serial Bus Controllers**, then install the driver once again.

1

Disconnect all USB devices connected to the computer except the U-8, USB mouse, and USB keyboard.

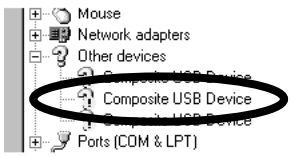
* *The following procedure may delete drivers for USB devices that were not disconnected. Be sure to disconnect such devices.*

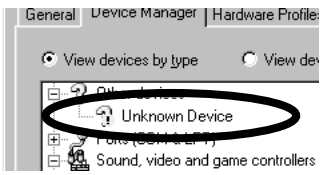
2

Click the Windows **Start** button, and from **Settings**, choose the **Control panel**. In **Control Panel**, double-click the **System** icon.

3

Click the **Device Manager** tab, and with **View devices by type** selected, make sure that there is no **Other devices**. If there is, double-click it, and if there are any **USB Composite device**, **Composite USB device**, or **Unknown Device** below it, click to select them, and then click the **Remove** button to delete them.





4

In the **Delete Device?** dialog box, click **OK**.

5

Make sure that **Other Devices**, **USB Composite Device**, **Composite USB Device**, or **Unknown Device** are not displayed in the list.

6

Double-click **Universal Serial Bus Controllers**, and if there are any **USB Composite Devices** below it, click to select them, and then click the **Remove** button to delete them.

7

Make sure that there is no **USB Composite Device** below **Universal Serial Bus Controllers**, and click **Close** to close the dialog box.

Removing (Uninstalling) a Program

The programs on the included CD-ROM are compatible with the **Add/Remove Programs** feature in Windows. If you no longer need a particular program, you can remove it using the method described below.

1

Click the **Start** button, and from **Settings**, click **Control Panel** to open it.

Control Panel will appear.

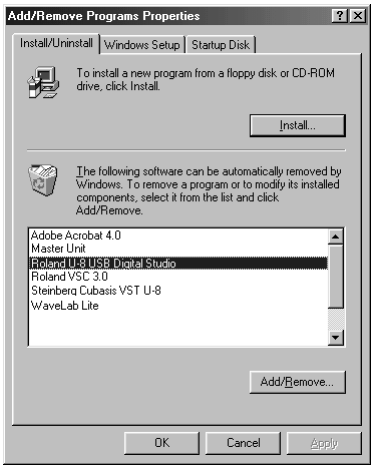
2

Double-click the **Add/Remove Programs** icon.

The **Add/Remove Programs Properties** dialog box will appear.

3

Click the **Install/Uninstall** tab.



4

From the list displayed in the dialog box, click the name of the program you want to remove.

- To uninstall Cubasis VST U-8, select **Cubasis VST U-8**.
- To uninstall the U-8 Controller and U-8 Tuner, select **Roland U-8 USB Digital Studio**.

  In this case, you cannot uninstall one of the two programs. If you installed both of the programs, they are all uninstalled at the same time.

- To uninstall VSC 3.0, select **Roland VSC 3.0**.
- To uninstall Adobe Acrobat, select **Adobe Acrobat 4.0**.
- To uninstall WaveLab Lite, select **WaveLab Lite**.

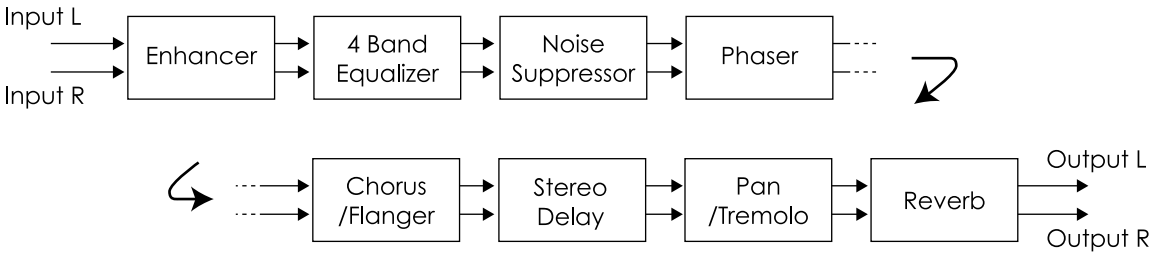
5

At the lower-right area of the dialog box, click **Add/Remove**.

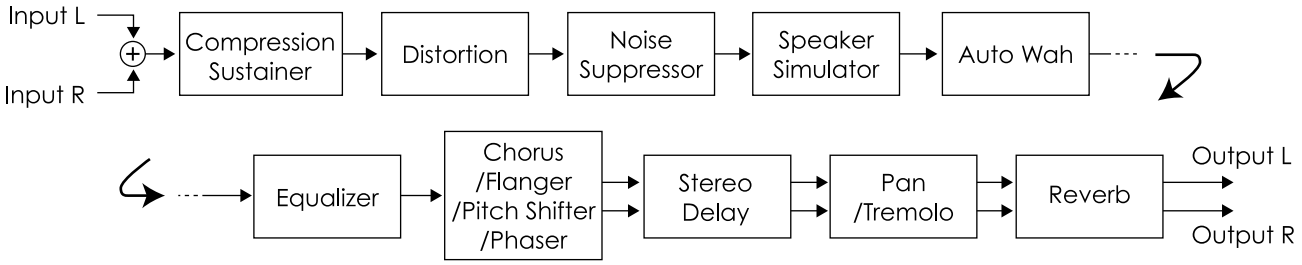
The program you specified in step 4 will be removed.

Effect Algorithm List

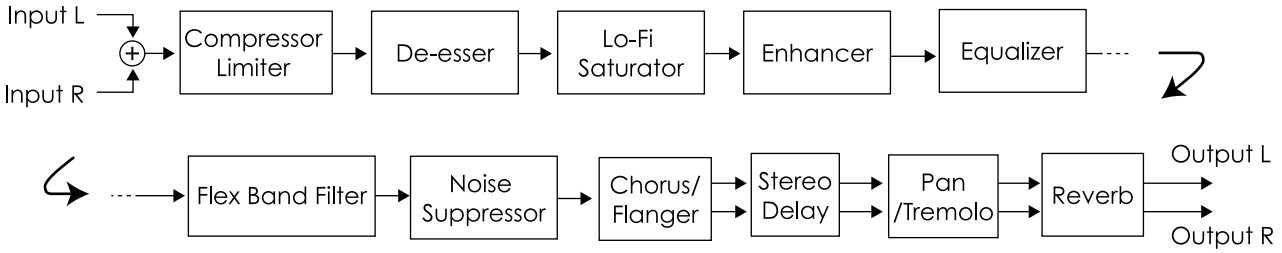
■ Space Multi



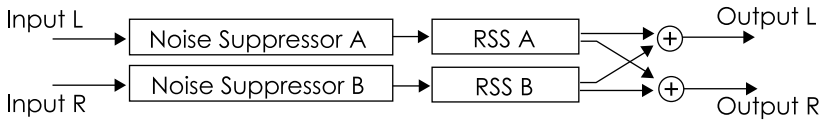
■ Guitar Multi



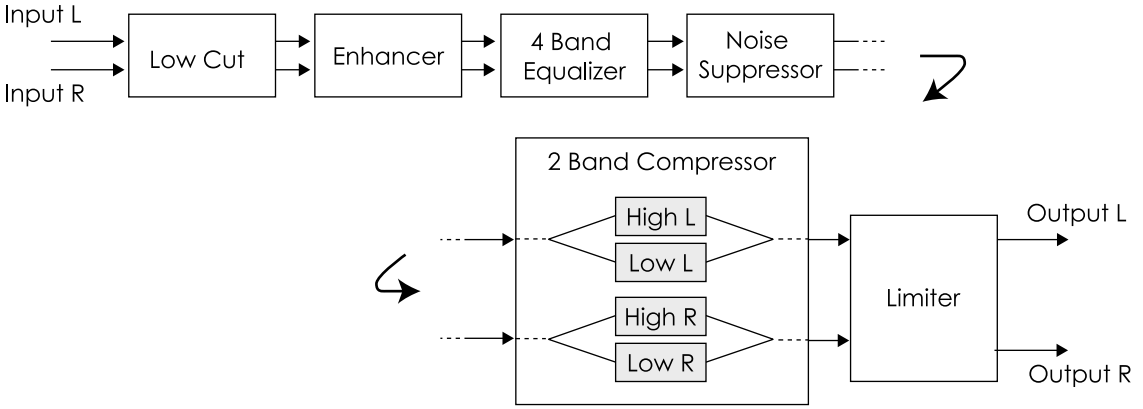
■ Vocal Multi



■ 2ch RSS



■ Mastering



Effect Parameter List

■ Auto Wah

The wah effect creates a unique tone by changing the frequency response characteristics of a filter. Auto wah creates an automatic wah by cyclically changing the filter, or by changing the filter in response to the volume of the input.

AW Sw (switch)	Turns the auto wah effect on / off.
AW Polarity	Selection for the direction in which the filter will change in response to the input. Up: The frequency of the filter will rise. Down: The frequency of the filter will fall.
AW Sens (sensitivity)	Adjusts the sensitivity at which the filter will change in the direction determined by the polarity setting. Higher values will result in a stronger response. With a setting of "0" the strength of picking will have no effect.
AW Manual (manual frequency)	Adjusts the frequency at which the wah effect will apply.
AW Peak	Adjusts the way in which the wah effect applies to the area around the center frequency. Lower values will produce a wah effect over a wide area around the center frequency. Higher values will produce a wah effect in a narrow area around the center frequency.
AW Rate	Adjusts the rate at which the wah effect will be cyclically modulated.
AW Depth	Adjusts the depth at which the wah effect will be cyclically modulated. If you do not want the wah effect to be cyclically modulated, set this to 0.
AW Level	Adjusts the volume.

■ 2 Band Compressor

A compressor holds down high-level signals and boosts low-level signals, evening out the volume. With the 2 band compressor, you can split the frequency components of the direct sound into two bands, high and low, and make different settings for each band.

BC Sw (switch)	Turns the 2 band compressor effect on / off.
BC High Stereo Link BC Low Stereo Link	Select the input source which will control the high / low compressor. Off: The channel L and R compressors will be controlled independently. L: The input source of channel L will control the compressor limiter. R: The input source of channel R will control the compressor limiter. Mix: The input source whose level is higher will control the compressor limiter. InvMix: The highest level input source (either channel L or inverse-phase channel R) will control the compressor limiter.
BC Crossover L BC Crossover R	Adjusts the frequency at which the frequency components of the direct sound are split into high and low bands and the compressor is applied.
BC Master Level	This adjusts the volume of the 2 band compressor.

BCH Threshold BCHL Threshold BCHR Threshold BCL Threshold BCLL Threshold BCLR Threshold	Adjust the level at which the effect will begin to apply. BCH: Both channel L / R of the high compressor BCHL: Channel L of the high compressor BCHR: Channel R of the high compressor BCL: Both channel L / R of the low compressor BCLL: channel L of the low compressor BCLR: channel R of the low compressor
BCH Ratio BCHL Ratio BCHR Ratio BCL Ratio BCLL Ratio BCLR Ratio	Select the compression ratio that will apply when the Threshold Level is exceeded. BCH: Both channel L / R of the high compressor BCHL: Channel L of the high compressor BCHR: Channel R of the high compressor BCL: Both channel L / R of the low compressor BCLL: channel L of the low compressor BCLR: channel R of the low compressor
BCH Attack BCHL Attack BCHR Attack BCL Attack BCLL Attack BCLR Attack	Adjust the time from when the input level exceeds the threshold level to when the effect begins to apply. BCH: Both channel L / R of the high compressor BCHL: Channel L of the high compressor BCHR: Channel R of the high compressor BCL: Both channel L / R of the low compressor BCLL: channel L of the low compressor BCLR: channel R of the low compressor
BCH Release BCHL Release BCHR Release BCL Release BCLL Release BCLR Release	Adjust the time from when the input level drops below the threshold level to when the effect ceases to apply. BCH: Both channel L / R of the high compressor BCHL: Channel L of the high compressor BCHR: Channel R of the high compressor BCL: Both channel L / R of the low compressor BCLL: channel L of the low compressor BCLR: channel R of the low compressor
BCH Post Gain BCHL Post Gain BCHR Post Gain BCL Post Gain BCLL Post Gain BCLR Post Gain	Adjusts the output gain. BCH: Both channel L / R of the high compressor BCHL: Channel L of the high compressor BCHR: Channel R of the high compressor BCL: Both channel L / R of the low compressor BCLL: channel L of the low compressor BCLR: channel R of the low compressor

■ Chorus

A sound with a subtly shifted pitch is added to the direct sound, making the final output sound thicker and broader.

CH Pre Filter	Select the type of filter. Off: a filter will not be used LPF: cut the frequency range above the Cutoff parameter HPF: cut the frequency range below the Cutoff parameter
CH Cutoff	Adjusts the cutoff frequency of the filter.
CH Pre Delay	Adjusts the time needed for the effect sound to be output after the direct sound has been output. By setting a longer Pre Delay time, you can obtain an effect that sounds like more than one sound is being played at the same time (doubling effect).
CH Rate	Adjusts the rate at which the chorus is modulated.
CH Depth	Adjusts the depth of the Chorus effect. To use it for doubling, set the value to "0".
CH Phase	Adjusts the spatial spread of the sound.
CH Balance	Adjust the balance between the chorus volume and the direct sound volume.
CH Level	Adjusts the volume.

■ Compressor Limiter

Depending on the setting of the parameters, this effect can be used as a compressor or as a limiter. A compressor holds down high-level signals and boosts low-level signals, evening out the volume. A limiter is used when you wish to hold down excessive input levels.

CL Sw (switch)	Turns the compressor limiter effect on / off.
CL Threshold	Adjusts the level at which the effect will begin to apply. To use this effect as a limiter, set a high Threshold Level.
CL Ratio	Select the compression ratio that will apply when the Threshold Level is exceeded. When using the effect as a limiter, you will normally set this to "inf.:1."
CL Attack	Adjust the time from when the input level exceeds the threshold level to when the effect begins to apply. When using the effect as a limiter, set a short Attack Time.
CL Release	Adjust the time from when the input level drops below the threshold level to when the effect ceases to apply. When using the effect as a limiter, set a short Release Time.
CL Post Gain	Adjusts the output gain.
CL Level	Adjusts the volume.

■ Compression Sustainer

The compression sustainer is an effect that attenuates loud input levels and boosts soft input levels, thus evening out the volume to create sustain without distortion.

CS Sw (switch)	Turns the compression sustainer effect on / off.
CS Sustain	Adjusts the range (time) over which low-level signals are boosted. Larger values will result in longer sustain.
CS Attack	Adjust the time from when the input level exceeds the threshold level to when the effect begins to apply.
CS Level	Adjusts the volume.

■ De-esser

A de-esser cuts the sibilant sounds of a voice, producing a gentler tone.

DE Sw (switch)	Turns the de-esser effect on / off.
DE Sens (sensitivity)	Adjusts the degree to which the de-esser effect will affect the input signal.
DE Level	Adjusts the volume.

■ Distortion

This effect distorts the sound to create long sustain.

DS Sw (switch)	Turns the distortion effect on / off.
DS Type	Selects the type of distortion. OD-1: A natural overdrive sound is obtained. OD-2: Allows you to obtain a rich effect just like distortion, without losing the subtle nuance of the overdrive. Blues: The processed distortion can faithfully reproduce the tone changes created by picking nuances, or controlling the knobs on the guitar. Hard Dist: Allows you to obtain a distortion sound with a rich middle. Metal: A distortion for a powerful metal sound. Crunch: Allows you to obtain a crunch effect that creates a natural distortion. Fuzz: This produces a basic fuzz sound with.
DS Drive	Adjusts the depth of distortion. A higher value will emphasize the distortion.
DS Presence	Adjusts the tone for the ultra high frequency range.
DS Level	Adjusts the volume.

■ Enhancer

By adding sounds which are out-of-phase with the direct sound, this effect enhances the definition of the sound, and pushes it to the forefront.

EH Sw (switch)	This parameter turns the enhancer effect on / off.
EH Sens (sensitivity)	Adjusts the manner in which the enhancer will be applied relative to the input signals.
EH Mix (mix level)	Adjust the amount of the phase-shifted sound that is mixed into the input.
EH Level	Adjusts the volume.

■ Equalizer

Adjusts the tone. Parametric control is provided for the middle range.

EQ Sw (switch)	Switches the equalizer effect on / off.
EQ High Gain	Adjusts the high frequency range tone.
EQ Mid Freq (middle frequency)	Specify the center of the frequency range that will be adjusted by the "EQ Mid Gain."
EQ Mid Q (middle Q)	Adjusts the width of the area affected by the EQ centered at the "EQ Mid Freq." Higher values will narrow the area.
EQ Mid Gain (middle gain)	Adjusts the middle frequency range tone.
EQ Low Gain	Adjusts the low-middle frequency range tone.
EQ Level	Adjusts the volume.

■ Flanger

The flanging effect gives a twisting, jet-airplane-like character to the sound.

FL Pre Filter	Select the type of filter. Off: a filter will not be used LPF: cut the frequency range above the Cutoff parameter HPF: cut the frequency range below the Cutoff parameter
FL Cutoff (cutoff frequency)	Adjusts the frequency where the harmonics contents of the sound is cut off.
FL Manual	Adjusts the center frequency at which the flanging effect will be applied.
FL Rate	Adjusts the rate at which flanger is modulated.
FL Depth	Adjusts the depth of modulation for the flanger.
FL Phase	Adjusts the spatial spread of the sound.
FL Resonance	Determines the amount of resonance (feedback). Increasing the value will emphasize the effect, creating a more unusual sound.
FL Balance	Adjust the balance between the effect sound volume and the direct sound volume.
FL Level	Adjusts the volume.

■ Flex Band Filter

The flex band filter cuts the high and low frequency range, and the frequencies for each range are freely adjustable. This is suitable for making lo-fi sounds such as radio tone.

BF Sw (switch)	Turns the flex band filter effect on / off.
BF High Cut	Adjusts the frequency above which the flex band filter cut the high frequency range.
BF Low Cut	Adjusts the frequency below which the flex band filter cut the low frequency range.
BF Level	Adjusts the volume.

■ Lo-Fi Saturator

This produces natural distortion like that obtained with older audio equipment or an AM radio.
It's ideal for creating lo-fi sounds.

ST Sw (switch)	Turns the lo-fi saturator effect on / off.
ST Drive	This parameter adjusts the amount of distortion.
ST Color	Adjusts the sound brilliance. Smaller values produce a rougher sound, and larger values produce a clearer sound.
ST Level	Adjusts the volume.

■ Low Cut Filter

This is a filter that cuts unwanted low range noise, such as pops.

LC Sw (switch)	Turns the low cut filter effect on / off.
LC Low Cut	Adjusts the frequency at which the low cut filter will begin to take effect.

■ Limiter

The limiter attenuates loud input levels to prevent distortion.

LM Sw (switch)	Turns the limiter effect on / off.
LM Threshold	Adjust this as appropriate for the input signal from your guitar. When the input signal level exceeds this threshold level, limiting will be applied.
LM Release	This adjusts the time from when the signal level drops below the threshold until when limiting is removed.
LM Post Gain	Adjusts the output gain.
LM Level	Adjusts the volume.

■ Noise Suppressor

The noise suppressor leaves the original sound unmodified, but mutes only the noise during the silent intervals.

NS Sw (switch)	Turns the noise suppressor effect on / off.
NS Threshold	Adjusts the level at which the noise suppressor will begin to take effect. When the signal drops below the specified level, it will be muted.

■ Phaser

Phaser is an effect that adds a phase-shifted sound to the direct sound, making the sound more spacious.

PH Sw (switch)	Turns the phaser effect on / off.
PH Manual	Adjust the center frequency at which the phaser effect will apply.
PH Rate	Adjust the rate at which the phaser will modulate.
PH Depth	Adjust the depth of the phaser effect.
PH Phase	Adjusts the spatial spread of the sound.
PH Resonance	Adjust the amount of resonance. Raising this value will produce a more distinctive tone.
PH Balance	Adjust the balance between the effect sound volume and the direct sound volume.
PH Level	Adjusts the volume.

■ Pan

Pan cyclically moves the stereo position between left and right (when stereo output is used).

PN Waveform	Select the type of modulation. Tri: The sound will be modulated like a triangle wave. Sqr: The sound will be modulated like a square wave. Sin: The sound will be modulated like a sine wave. Saw1, 2: The sound will be modulated like a sawtooth wave. * *The [teeth] in Saw1 and Saw2 point at opposite direction.*
PN Rate	Adjusts the frequency (speed) of the change.
PN Depth	Adjusts the depth of the effect.
PN Level	Adjusts the volume.

■ Pitch Shifter

A Pitch Shifter shifts the pitch of the original sound. This 2-voice pitch shifter has two pitch shifters, and can add two pitch shifted sounds to the original sound.

PS Pre Delay	Adjusts the time from when the direct sound is heard until the pitch shifted sounds are heard. Normally you can leave this set at "0 ms."
PS Pitch	Adjusts the amount of pitch shift (the amount of pitch change) in semitone steps.
PS Fine	Make fine adjustments to the pitch shift. * *The amount of the change in the Fine "100" is equivalent to that of the Pitch "1."*
PS Mode	Higher settings of this parameter will result in slower response, but steadier pitch.
PS Feedback	Adjusts the amount of feedback for the pitch shifted sound. Changing the feedback amount will affect the number of repeats of the pitch shifted sound.
PS Balance	Adjust the balance between the effect sound volume and the direct sound volume.
PS Level	Adjusts the volume.

■ RSS (2ch)

RSS (Roland Sound Space) is an effector that creates a three-dimensional sonic field. RSS can let you orient the sonic image at a position above, below, before, behind, or to one side or the other of the listener.

* *To get the most out of the effects that RSS can provide, be sure to read "Before using RSS" in the U-8 Technical Guide.*

RSS Output Mode	Specify the method that will be used to hear the sound. The optimal 3D effect will be achieved if you select Speaker when using speakers, or Phones when using headphones.
RSS Azimuth	This parameter moves the sound horizontally along the perimeter of an imaginary sphere. The setting can be made within a range of about 180 degrees to the left or right, with the standard setting ("0") indicating a position directly in front of the listener.
RSS Elevation	This parameter moves the sound vertically along the perimeter of an imaginary sphere. The setting is made as the number of degrees from the front of the listener (0).
RSS Level	Adjusts the volume.

■ Reverb

Reverberation (or reverb) is the effect caused by sound waves decaying in an acoustic space, or a digital simulation thereof. This decay occurs because sound waves bounce off many walls, ceilings, objects, etc. in a very complex way. These reflections, coupled with absorption by various objects, dissipate the acoustic energy over a certain period of time (called the decay time). The ear perceives this phenomenon as a continuous wash of sound.

RV Sw (switch)	Switches the reverb effect on / off.
RV Type	This selects the Reverb Type. Various different simulations of space are offered. * *The available types will depend on the algorithm which is used.* Room: Simulates the reverberation in a small room. Hall: Simulates the reverberation in a concert hall. Plate: Simulates plate reverberation (a reverb unit that uses the vibration of a metallic plate). Provides a metallic sound with a distinct upper range.
RV Time	This parameter adjusts the duration (time) of the reverb.
RV Pre Delay	This parameter adjusts the time interval between the direct sound and the beginning of the reverb sound.
RV HF Damp	This parameter adjusts the amount of damping for High Damp. No high-frequency damping occurs when set to "0."
RV Density	Adjust the density of the sound (Early Reflections) that arrives at the listener.
RV Tone High	Adjusts the tone for the high frequency range.
RV Tone Low	Adjusts the tone for the low frequency range.
RV Balance	Adjust the balance between the effect sound volume and the direct sound volume.
RV Level	Adjusts the volume.

■ Speaker Simulator

This simulates the characteristics of various types of speakers.

SP Sw (switch)	Turns the speaker simulator effect on / off.
SP Type	Selects the type of speaker that will be simulated. Small: small amp BuiltIn: single-unit type amp 2-Stack: large double stack amp 3-Stack: large triple stack amp
SP Level	Adjusts the volume.

■ Stereo Delay

The delay effect adds delayed sound to the direct sound, giving more body to the sound or creating special effects.

This is a delay with stereo input and output that lets you set parameters separately for channels L and R.

DL Sw (switch)	Turns the stereo delay effect on / off.
DL Time L DL Time R	This parameter adjusts the delay time (i.e., the interval for which sound is delayed).
DL Fine L DL Fine R	Performs fine adjustment of the delay times. It's possible to vary the delay times for DL Time L and R by up to + / -5 ms, in steps of 0.1 ms.
DL Fbk L DL Fbk R	This parameter adjusts the amount of feedback. Changing the amount of feedback causes the number of time the delayed sound is repeated to change as well.
DL HF Damp L DL HF Damp R	Adjust the degree of HF damping. With a setting of 0, there will be no damping. As the value is decreased, damping will become more pronounced.
DL Balance L DL Balance R	Adjust the balance between the effect sound volume and the direct sound volume.
DL Level L DL Level R	Adjusts the volume.

■ Tremolo

Tremolo is an effect that creates a cyclic change in volume.

TR Waveform	Select the type of modulation. Tri: The sound will be modulated like a triangle wave. Sqr: The sound will be modulated like a square wave. Sin: The sound will be modulated like a sine wave. Saw1, 2: The sound will be modulated like a sawtooth wave. * *The [teeth] in Saw1 and Saw2 point at opposite direction.*
TR Rate	Adjusts the frequency (speed) of the change.
TR Depth	Adjusts the depth of the effect.
TR Level	Adjusts the volume.

The Included Song Data

The CD-ROM that comes with the U-8 contains demo songs in the "**Demosong**" folder that you can enjoy with CubasisVST U-8.
For a list of song and details about each one, see "**Songlist.htm**" with the web browser in the same folder.

* *88Pro Map tones are used in the demo song MIDI parts. For proper playback of the MIDI parts, use the SC-88Pro, SC-8850, SC-8820, VSC 3.0, or other sound module featuring the 88Pro Map.*

NOTE

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.

The Preset Effect Patch List

For a list of preset data for effects, in the included CD-ROM, go into the **Manual** folder, open the **EffectPatchList** folder, and view "**index.htm**."
At the list, you can listen to sample sounds for some patches.

The Style Data (SMF)

Style data comprise typical performance patterns representing a variety of musical genres that are stored as SMF performance data in the "**\Data\Style**" folder in the included CD-ROM which can be used when loaded by a sequencing program.
For details, refer to "**Style Data**" in "**Supplementary Material**" in the U-8 Technical Guide.

MEMO

For information on how to view the U-8 Technical Guide, take a look at p. 65.

System Requirements

Compatible Operating System:

Microsoft® Windows® 98 and Microsoft® Windows® 98 Second Edition

Compatible Computer Hardware:

Windows® 98-compatible PCs equipped with one of the USB Host Controllers that we've tested successfully for compatibility, as listed on the package.

CPU/Clock Speed:

Pentium® II 300MHz (recommend: Pentium II 400MHz or higher)

Screen Resolution/Number of Colors:

800 x 600 or higher with 65,536 colors (16 bit High Color) or more

Memory:

64MB (recommend: 128MB or more)

Required Free Hard-disk Space:

100 MB or more

Hardware requirements:

CD-ROM Drive

Required Software:

Netscape Navigator version 4.0 or later
Microsoft® Internet Explorer version 4.0 or later

* *Although Roland has tested numerous configurations, and has determined that on average, a computer system similar to that described above will permit normal operation of the U-8, Roland cannot guarantee that a given computer can be used satisfactorily with the U-8 based solely on the fact that it meets the above requirements. This is because there are too many other variables that may influence the processing environment, including differences in motherboard design and the particular combination of other devices involved.*

System Requirements for VSC 3.0

Operating System:

Microsoft® Windows® 98 / Windows® 95

* *You cannot use with Windows® NT.*

Computer:

IBM PC or compatible computers

* *You cannot use with MWave audio device which is equipped on IBM PC.*

CPU/Clock:

Pentium® processor with MMX® technology 166 MHz or higher, Pentium® II processor or Pentium® III processor

Memory(RAM):

32 MB or more

Hard Disk:

20 MB of free space

Resolution/Colors of Display:

640 x 480 or higher / 32,000 colors or higher

Audio Device:

A built-in sound device or a sound card supporting Windows® 98 / Windows® 95 (16-bit stereo, 44.1 / 22.05 / 11.025 kHz sampling rate.)

CD-ROM drive

Microsoft® Internet Explorer (version 3.01 or later) or Netscape Navigator (version 3.01 or later)

* *Although Roland has tested numerous configurations, and has determined that on average, a computer system similar to that described above will permit normal operation of the software, Roland cannot guarantee that a given computer can be used satisfactorily with the software based solely on the fact that it meets the above requirements. This is because there are too many other variables that may influence the processing environment, including differences in motherboard design and the particular combination of other devices involved.*

Specifications

U-8: USB Digital Studio

●USB Audio Port

Record: 1 ch, Stereo
Playback: 2 ch, Stereo Full Duplex
Data format: 16 bit / 44.1 kHz

●DSP Effects

Effect Modules: 23
Effect Algorithms: Guitar Multi, Vocal Multi, Space Multi, 2ch RSS, Mastering
Effects Patches: 136 (preset)

●Signal Processing

AD Conversion: 20 bit linear (64 times oversampling)
DA Conversion: 20 bit linear (128 times oversampling)
Internal Processing: 24 bit linear

●Sampling Frequency

Internal Sampling Rate: 44.1 kHz
Digital Input Sampling Rate: 32 kHz / 44.1 kHz / 48 kHz
Digital Output Sampling Rate: 44.1 kHz

●Frequency Response

20 Hz to 20 kHz (±1 dB)

●Total Harmonic Distortion

0.04 % or less
(Input sens.: min, +4 Hz to 1 kHz at nominal output)

●Nominal Input Level

Mic Input jack / A Input jack / B Input jack: -50 to +4 dBm
AUX Input jacks: -10 / +4 dBm

●Nominal Output Level

Line Output jacks: -10 dBm

●Input Impedance

Mic Input jack / A Input jack / B Input jack / AUX Input jacks: 20 k ohms
Guitar Input jack: 680 k ohms

●Output Impedance

Line Output jacks: 1 k ohms

●Recommended Load Impedance

Line Output jacks: 10 k ohms or greater
Headphones jack: 20 to 50 ohms

●Residual Noise Level (input terminated with 1 k ohms, A/B Input Sensitivity Volume Knob: min, Line Input jack: +4 dBm, IHF-A, typ.)

Line Output jacks: -96.0 dBm or less

●Connectors

Mic Input jack (XLR type, unbalanced)
A Input jack (1 / 4 inch TRS phone type, unbalanced)
B Input jack (1 / 4 inch TRS phone type, unbalanced)
Guitar (Hi-Z) Input jack (1 / 4 inch phone type)
AUX Input jacks (RCA phono type)
Line Output jacks (RCA phono type)
Headphones jack (stereo 1 / 4 inch phone type)
Foot Switch jack (1 / 4 inch phone type)
USB connector (USB TYPE B)
MIDI connectors (in: 1, out: 1)
Digital Input connector (Optical type)
Digital Output connector (Optical type)

●Power Supply

AC 117 V, AC 230 V, or AC 240 V

●Power Consumption

11 W

●Dimensions

379 (W) x 239 (D) x 79 (H) mm
14-1 / 16 (W) x 9-9 / 16 (D) x 3-7 / 8 (H) inches

●Weight

1.9 kg / 4 lbs 12 oz

●Accessories

Getting Started
USB cable
Power cord
CD-ROM

●CD-ROM Contents

Cubasis VST U-8
Cubasis VST U-8 manual (PDF)
U-8 Controller
U-8 Tuner
Virtual Sound Canvas 3.0
Driver for Windows® 98
Online Manuals (HTML)
Demo Songs

●Options

Pedal switch: DP-2
Microphone: DR-20

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

0 dBm = 0.775 V rms

Information

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

Roland

AFRICA

EGYPT
Al Fanny Trading Office
P.O. Box 2904,
El Horrieh Heliopolos, Cairo,
EGYPT
TEL: (02) 4185531

REUNION
Maison FO - YAM Marcel
25 Rue Jules MermanZL
Chaudron - BP79 97491
Ste Clotilde REUNION
TEL: 28 29 16

SOUTH AFRICA
That Other Music Shop (PTY) Ltd.
11 Melle Street (Cnr Melle and Juta Street)
Braamfontein 2001
Republic of SOUTH AFRICA
TEL: (011) 403 4105

Paul Bothner (PTY) Ltd.
17 Werdmuller Centre Claremont 7700
Republic of SOUTH AFRICA

P.O. Box 23032
Claremont, Cape Town
SOUTH AFRICA, 7735
TEL: (021) 64 4030

ASIA

CHINA
Beijing Xinghai Musical Instruments Co., Ltd.
6 Huangmuchang Chao Yang District, Beijing, CHINA
TEL: (010) 6774 7491

HONG KONG
Tom Lee Music Co., Ltd. Service Division
22-32 Pun Shan Street, Tsuen Wan, New Territories,
HONG KONG
TEL: 2415 0911

INDIA
Rivera Digitec (India) Pvt. Ltd.
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J1. Cideng Timur No. 15J-150
Jakarta Pusat
INDONESIA
TEL: (021) 6324170

KOREA
Cosmos Corporation Service Station
261 2nd Floor Nak-Won Arcade
Jong-Ro ku, Seoul, KOREA
TEL: (02) 742 8844

MALAYSIA
Bentley Music SDN BHD
140 & 142, Jalan Bukit Bintang
55100 Kuala Lumpur, MALAYSIA
TEL: (03) 2443333

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

SINGAPORE
CRISTOFORI MUSIC PTE LTD
Blk 3014, Bedok Industrial Park E,
#02-2148, SINGAPORE 489980
TEL: 243 9555

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ROLAND TAIWAN ENTERPRISE CO., LTD.
Room 5, 9fl. No. 112 Chung Shan N.Road Sec.2, Taipei, TAIWAN, R.O.C.
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330 Verng NakornKasem, Soi 2,
Bangkok 10100, THAILAND
TEL: (02) 2248821

VIETNAM
Saigon Music
138 Tran Quang Khai St.,
District 1
Ho Chi Minh City
VIETNAM
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97 Mt. Eden Road, Mt. Eden,
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Florida 656 2nd Floor
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Buenos Aires
ARGENTINA, CP1005
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Roland Brasil Ltda.
R. Coronel Octaviano da Silveira 203 05522-010
Sao Paulo BRAZIL
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Av. Toluca No. 323 Col. Olivar de los Padres 01780 Mexico D.F.
MEXICO
TEL: (525) 668 04 80

La Casa Wagner de Guadalajara s.a. de c.v.
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Guadalajara, Jalisco Mexico
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Av. Francisco de Miranda,
Centro Parque de Cristal, Nivel C2 Local 20 Caracas
VENEZUELA
TEL: (02) 285 9218

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A-6063 RUM, AUSTRIA
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Houtstraat 3 B-2260 Oevel
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Nordhavnsvej 7, Postbox 880
DK-2100 Copenhagen
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Lauttasaarentie 54 B
Fin-00201 Helsinki, FINLAND
TEL: (9) 682 4020

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

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Music Sound Light
155, New National Road
26422 Patras, GREECE
TEL: 061-435400

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Lilleakerveien 2 Postboks 95
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PL-03664 Warszawa POLAND
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Roland Scandinavia A/S SWEDISH SALES OFFICE
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S-131 30 Nacka SWEDEN
TEL: (08) 702 0020

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Gerberstrasse 5, CH-4410 Liestal,
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SAUDI ARABIA
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Khaled Ibn Al Walid St.
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TEL: +44 (0) 181 956 2224

As of June 11, 1999 (EDIROL)

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For EU Countries

CE

This product complies with the requirements of European Directives EMC 89/336/EEC and LVD 73/23/EEC.

For the USA

FEDERAL COMMUNICATIONS COMMISSION
RADIO FREQUENCY INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Unauthorized changes or modification to this system can void the users authority to operate this equipment.
This equipment requires shielded interface cables in order to meet FCC class B Limit.

For Canada

NOTICE

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

AVIS

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Roland Corporation

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