Roland®

## AUDIO Canvas

USB PROCESADOR DE AUDIO & MIDI

UA-100

MANUAL de ARRANQUE

Lea Éste Primero!

Antes de utilizar esta unidad, lea cuidadosamente las secciones tituladas: "UTILIZAR LA UNIDAD CON SEGURI-DAD" (p 2, 3) y "NOTAS IMPORTANTES" (página 4). Estas secciones le darán información importante acerca del modo correcto de utilizar la unidad. Además, para poder estar seguro de que ha conseguido un buen dominio de todas las prestaciones de su nueva unidad, debería leer este manual en su totalidad, así como guardarlo y tenerlo a mano para cualquier posible consulta.

> para
> Microsoft® Windows® 98
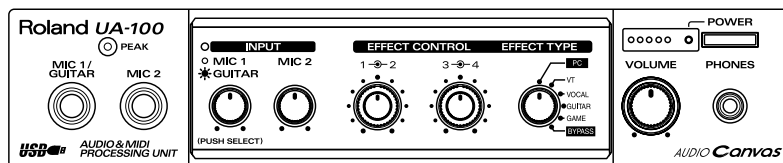
Utilizar la Unidad con Seguridad

INSTRUCCIONES PARA LA PREVENCIÓN DE INCENDIO, DESCARGA ELÉCTRICA O DAÑOS FÍSICOS

Acerca de AVISO y PRECAUCIÓN

⚠ AVISO	Avisa al usuario acerca de las situaciones en que el uso incorrecto de la unidad puede dar lugar a la muerte o a lesiones de gravedad.
⚠ PRECAUCIÓN	Avisa al usuario acerca de las situaciones en que el uso incorrecto de la unidad puede dar lugar a lesiones o a daños materiales. * Los daños materiales se refieren a daños y perjuicios sufridos por la vivienda y su contenido o por los animales domésticos.

Acerca de los Símbolos

⚠	El símbolo Δ advierte al usuario de la existencia de instrucciones importantes o avisos. El gráfico contenido en el símbolo determina el significado del mismo. Por ejemplo, el símbolo mostrado a la izquierda de este texto se utiliza para las precauciones generales, los avisos y las advertencias de peligro.
🚫	El símbolo Ø advierte al usuario de cuáles son las operaciones prohibidas. El gráfico contenido en el círculo cambia según la operación prohibida. Por ejemplo, el símbolo mostrado a la izquierda de este texto significa que nunca debe desmontar la unidad
❗	El símbolo ● advierte al usuario de cuáles son las operaciones que debe efectuar. El gráfico contenido en el círculo cambia según la operación a efectuar. Por ejemplo, el símbolo mostrado a la izquierda de este texto significa que debe desenchufar el cable de alimentación.

----------- **SIEMPRE DEBE OBSERVAR LOS SIGUIENTES PUNTOS** -----------

⚠AVISO

• Antes de utilizar la unidad, lea todas las instrucciones y el manual del usuario ⚠

....

• No debe abrir (ni modificar de ninguna manera) la unidad ni su adaptador AC 🚫

....

• No debe intentar reparar la unidad ni reemplazar elementos internos (excepto donde este manual da instrucciones expresas para hacerlo) Un técnico cualificado o el personal de servicio especializado de Roland debe efectuar todas las demás reparaciones. 🚫

....

• Nunca debe guardar ni utilizar la unidad en lugares: 🚫
  • Expuestos a temperaturas extremas (P. ej., a la luz directa del sol dentro de un vehículo cerrado, cerca de calefactores o encima de aparatos que generan calor)
  • Mojados (P. ej., baños, aseos, suelos mojados).
  • Húmedos
  • Polvorientos
  • Sujetos a altos niveles de vibración.

....

⚠AVISO

• Asegúrese de colocar la unidad siempre de forma que quede nivelada y estable. No la coloque nunca en soportes que podrían tambalearse o en superficies inclinadas ❗

....

• Utilice sólo el adaptador AC suministrado con la unidad. Asegúrese de que el voltaje de línea coincide con el voltaje especificado impreso en el adaptador AC. Otros adaptadores pueden utilizar una polaridad diferente o pueden haber sido diseñados para otro voltaje y, por lo tanto, su uso puede dar lugar a daños, mal funcionamiento o descargas eléctrica ❗⚠

....

• Evite dañar el cable de alimentación. No debe doblarlo excesivamente, pisarlo, colocar objetos pesados sobre él, etc. Un cable que ha sufrido desperfectos puede dar lugar a un shock eléctrico o incendios. No debe utilizar nunca un cable de alimentación que haya sufrido desperfectos. 🚫

....

⚠ WARNING

• Esta unidad, por sí sola o en combinación con un amplificador y auriculares o altavoces, puede producir niveles de volumen que podrían causar la pérdida permanente de oído.No debe hacerla funcionar durante períodos largos a niveles de volumen altos, ni tampoco a un nivel que resulte incómodo. Si Ud. experimenta pérdida en el sentido auditivo o zumbidos en los oídos, debe dejar de utilizar inmediatamente la unidad y consultar con un especialista médico.

....

• Debe evitar que caigan objetos (P. ej., material inflamable, monedas, agujas) o líquidos de cualquier tipo (agua, refrescos, etc.) dentro de la unidad

....

• Immediately turn the power off, remove the AC adaptor from the outlet, and request servicing by your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page when:
  • The AC adaptor or the power-supply cord has been damaged; or
  • Objects have fallen into, or liquid has been spilled onto the unit; or
  • The unit has been exposed to rain (or otherwise has become wet); or
  • The unit does not appear to operate normally or exhibits a marked change in performance.

....

•Si un niño de corta edad utiliza la unidad, un adulto deberá supervisarle hasta que el niño sea capaz de seguir todas las normas esenciales para utilizar la unidad sin peligro

....

• Proteja la unidad de impactos.
  (Que no caiga al suelo!)

....

• No debe conectar la unidad a una toma de corriente donde hallan conectados un número excesivo de aparatos. Tenga un cuidado especial cuando utiliza alargos - el consumo total de todos los aparatos no debe sobrepasar la capacidad en vatios/amperios del cable Las cargas excesivas pueden ocasionar que el cable se sobrecaliente y finalmente que se funda.

....

• Antes de utilizar la unidad en un pais extrajero, consulte con el Servicio Posventa de Roland o con un distribuidor autorizado listado en la página "Información".

....

⚠ WARNING

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

....

⚠ CAUTION

• Debe situar la unidad y el adaptador AC de forma que no interfiera con su ventiación correcta.

....

• Cuando conecte o desconecte el cable de alimentación del enchufe o de la unidad, siempre deberá cogerlo por el extremo

....

• Siempre que no vaya a utilizar la unidad durante un periodo de tiempo largo, desconecte el adaptador AC.

....

• Debe intentar evitar que se enreden los cables y colocarlos de forma que estén fuera del alcance de los niños de corta edad

....

• Nunca debe subirse encima de la unidad ni colocar objetos pesados sobre ella.

....

• Nunca debe manejar el cable de alimentación con las manos mojadas cuando lo conecta o lo desconecta de la red eléctrica o de la unidad.

....

• Antes de limpiar la unidad, apáguela y desconecte el cable de alimentación de la red eléctrica..

....

• Antes de desplazar la unidad, desconéctela de la toma de corriente y desconecte los cables de los aparatos externos conectados.

....

• Si hubiera una tormenta con relámpagos, desconecte el cable de alimentación.

....

• Si quita la tapa del conector óptico, tenga cuidado de que ningún niño lo trage. Manéngala fuera del alcance de los niños.

....

Important Notes

In addition to the items listed under "USING THE UNIT SAFELY" on pages 2 and 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).

● The AC adaptor will begin to generate heat after long hours of consecutive use. This is normal, and is not a cause for concern.

● 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.

Maintenance

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

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

Additional Precautions

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

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

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

● When you need to transport the unit, package it in the box (including padding) that it came in, if possible. Otherwise, you will need to use equivalent packaging materials.

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.

Features of This Product

Thank you, and congratulations on your choice of the UA-100. The UA-100 is an audio/MIDI processor which can be connected to your computer to allow recording and playback of high-quality audio when used in conjunction with sequencing software.

Here's What You Can Do

Use in Conjunction with Your Computer to Create a Personal Recording Studio

When the UA-100 is used in conjunction with audio editing software, you can perform all steps in the song production process—from mixing, recording, and overdubbing, through to mixdown— in the same way as in a recording studio.

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

The multi-effects processor provides carefully selected effects that meet the needs of the professional. In addition to high-quality spatial type effects such as reverb, chorus and delay, and effects equivalent to the SC-88Pro (the standard for desktop music), superb effects for vocal and guitar are also provided.

MIDI Interface with Two Outputs

MIDI interface functionality allows for expansion with a MIDI sound source.

DirectSound Compatible, with Awesome Dedicated Game Effects

You can enjoy game sound with convincing presence.

Optical Type Digital Output

You can record to MD or DAT directly in digital form.

Simple Connection to Your Computer Via USB Cable

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

MEMO   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/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.)

Here's What Else You Need

External Amp, Speakers, Headphones and Microphone Are Not Included

The external amp, speakers, or headphones that you will need in order to hear the sound that is output through the UA-100 are not included. A microphone for connection to the UA-100 to input audio must also be purchased separately. You will need to provide these items yourself.

Sound Module Is Not Included

The **VSC-88** on the included CD-ROM can be used as the sound module. However, if you intend to use a MIDI keyboard to input data in real time, or to play higher quality sounds, we recommend that you connect a sound module such as the **SC-88Pro**.

Cables for Connecting to MD or DAT Recorders, or for Digital Output Are Not Included

You can use a digital recorder such as an MD or DAT to record digitally, but the digital recorder and cables for connection are not included. You will need to provide these separately.

A Web Browser Is Not Included

In order for you to read the reference manual and the help file for the UA-100 Controller on the included CD-ROM, a web browser such as Microsoft Internet Explorer or Netscape Navigator must be installed in your computer.

Contents

Check the Contents of the Package

The following items are included with the UA-100. After opening the package, first check that all included items are present. If any items are missing, please contact the dealer where you purchased the UA-100.

UA-100
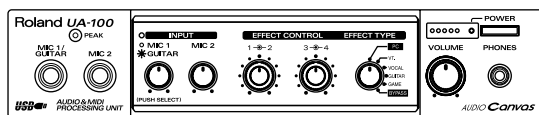
AC Adaptor
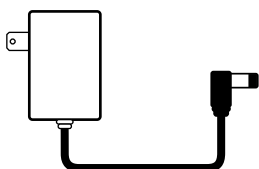
This is the adaptor that supplies power to the UA-100. Refer to "Making the Connections" (p. 18) for information on how it should be connected.

USB Cable (2 m)
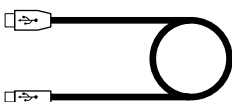
This cable is used to connect between the USB connector on your computer to the USB connector on the UA-100. How to do this is explained in "Making the Connections" (p. 18).

NOTE *Use only the included USB cable.*

CD-ROM

This contains various software that will help you use the UA-100. For details on the software, refer to "About the Included Software" (p. 28).

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

NOTE *Do not touch the recorded surface of the disc or allow it to be scratched. Doing so may make it impossible to read the data correctly. If the disc gets dirty, use a commercially available CD cleaner to clean it.*

⚠ **WARNING** *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.*

Startup Manual
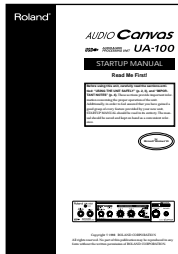
This is the document you are reading. Keep it by you for reference whenever you operate the UA-100.

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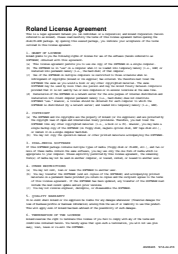
These are contracts by which Roland allows you, the customer, to use the software. Be sure to read these before opening the package of the CD-ROM.

Front and Rear Panels

Front Panel
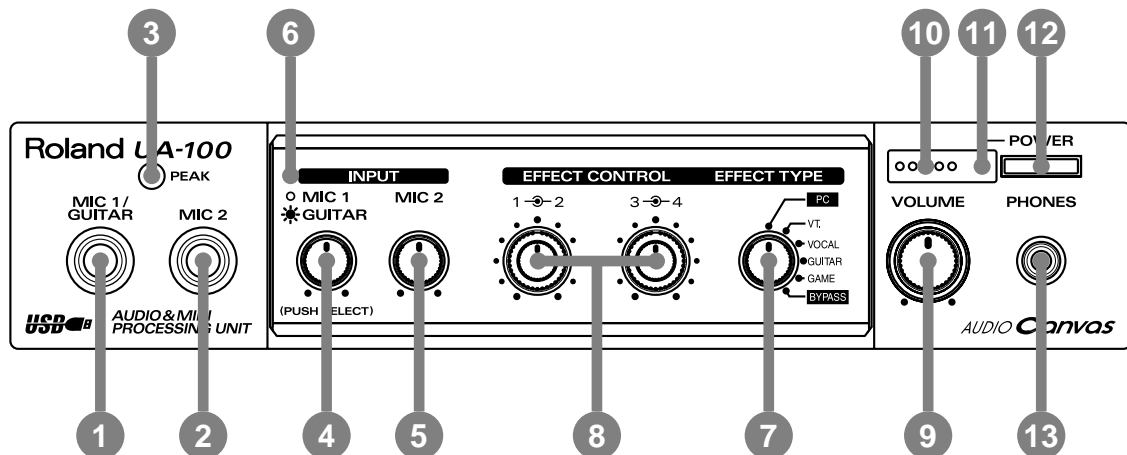
1. **MIC1/GUITAR Input Jack**
   Connect a microphone or guitar to this jack.

2. **MIC2 Input Jack**
   Connect a microphone to this jack.

   > **NOTE** *Only dynamic microphones can be used with the MIC1/GUITAR Input Jack and MIC2 Input Jack. The miniature microphones (condenser microphones) included with some computers cannot be used.*

3. **Input Level Peak Indicator**
   Lights in green when a signal is input from the MIC1/GUITAR Input Jack, the MIC2 Input Jack, or the rear panel Line Input Jacks. If the input level is excessive, it lights in red.

4. **MIC1/GUITAR Input Volume**
   This adjusts the input level of the microphone or guitar connected to the MIC1/GUITAR Input Jack. Rotating the knob counterclockwise will decrease the input level, and rotating it clockwise will increase the input level. By pressing this knob, you can switch between microphone input and guitar input.

5. **MIC2 Input Volume**
   This adjusts the input level of the microphone connected to the MIC2 Input Jack. Rotating the knob counterclockwise will decrease the input level, while rotating it clockwise will increase the input level.

6. MIC1/GUITAR Function Indicator

This indicates whether the MIC1/GUITAR Input Jack is functioning as a microphone input, or as a guitar input. By pressing the MIC1/GUITAR Input Volume knob, you can switch between a microphone input and guitar input.

Microphone input: extinguished
Guitar input: lit

When the power is turned on, this will be lit (Guitar input).

7. Effect Type Selector

This knob selects the type of preset effect.

The UA-100 contains four preset effects. In general, they are controlled from the computer using the UA-100 Controller, but you can also use this Effect Type Selector to make general settings for the effect.

If you wish to control the effects from the computer, set this to the **PC** setting.

MEMO   *For details refer to **<About the Effect Type Selector>** (p. 12).*

8. Effect Controllers 1/2, 3/4

These knobs adjust the effect parameters selected by the Effect Type Selector. The effect parameters assigned to each knob will depend on the effect type.

NOTE   *The effect parameter adjustment knobs will not function if the Effect Type Selector is set to **PC** or **BYPASS**.*

MEMO   *For details refer to **<About the Effect Controllers>** (p. 13).*

9. Line Output Volume

This adjusts the volume that is output from the Headphones Jack and from the Line Output Jacks located on the rear panel.

Rotating the knob counterclockwise will decrease the volume, and rotating it clockwise will increase the volume. However, for some settings of the **UA-100 Controller** and of the Effect Type Selector, the signal from the line input jacks will be output directly, and it will not be possible to adjust the volume of this signal.

10. Output Level Indicator

The number of LEDs that light will depend on the output level from the Headphones Jack and from the Line Output Jacks located on the rear panel. If the red LED lights, please use the Line Output Volume control to lower the volume.

11. Power Indicator

Lights when the power is turned on.

12. Power Switch

Press the Power Switch to turn the power on/off.

13. Headphones Jack

A set of headphones can be connected here. Even when headphones are connected, sound will still be output from the rear panel Line Output Jacks.

<About the Effect Type Selector>

The Effect Type Selector lets you switch the following functions. There will be no sound for several seconds after the effect type has been changed.

• When PC is selected

You can use the **UA-100 Controller** to control mixing and the effects processor from the computer. If you wish to apply effects to the signal input from the Line Input Jacks as you record, set the **Mic/Guitar Select Button** to **LINE** in the **Mixer** or **VT Mixer** function of the **UA-100 Controller**.

MEMO   *For details on the **UA-100 Controller**, refer to the **UA-100 Controller Help**.*

• When VT, VOCAL, or GUITAR are selected

The audio that is input from MIC1/GUITAR Input Jack will be sent through the "Voice Transformer," "Vocal Multi," or "Guitar Multi" effect, respectively. You can use the **Effect Controllers** to freely adjust the effect parameters. The signal that is input from the Line Input Jacks will be output directly from the Line Output Jacks.

• When GAME is selected

Effects will be applied to the USB-routed audio output from games. Effects will be applied to the background music of the game. For details, refer to "Applying Effects to the Game Sound" (p. 46). The signal that is input from the Line Input Jacks can be recorded on your computer, and its volume can be adjusted by the Line Output Volume. However, effects will not be applied to the signal that is input from the Line Input Jacks.

• When BYPASS is selected

The audio data output from your computer and the input from the mic/guitar etc. will be output without passing through the effect processor. If there is no sound or if the sound is distorted, select **BYPASS** and check the volume of the external device. The signal that is input from the Line Input Jacks will be output directly from the Line Output Jacks.

<About the Effect Controllers>

By rotating these knobs, you can control the UA-100's onboard effects. The effect parameters assigned to each knob will depend on the effect type. At the factory settings, the knobs are assigned as follows.

EFFECT CONTROL 1	EFFECT CONTROL 2	EFFECT CONTROL 3	EFFECT CONTROL 4		
VOICE TRANSFORMER PITCH	VOICE TRANSFORMER FORMANT	REVERB LEVEL	VOICE TRANSFORMER LEVEL	••	VOICE TRANSFORMER
LIMITER THRESHOLD	NOISE SUPPRESSOR	EQUALIZER MID-LEVEL	EQUALIZER MID-FREQUENCY	••••••••••••••	VOCAL
OVERDRIVE/DISTORTION DRIVE	NOISE SUPPRESSOR	CHORUS LEVEL	DELAY TIME	•••••••••••••	GUITAR
ENHANCER SENSITIVITY	LOW BOOST	REVERB LEVEL	REVERB TIME	•••••••••••••	GAME

EFFECT-PARAMETER ASSIGNMENTS

Effect Parameter

Effect Type

(This is also printed on the top cover of the UA-100.)

When the Effect Type Selector is switched, the various effect parameter values will be reset to their default values regardless of the positions of the Effect Controller knobs. You will need to rotate the Effect Controller knobs to adjust the parameters once again.

By using the **UA-100 Controller**, you can edit the default values of the parameters. For details, first install **UA-100 Controller** (p. 29), and then refer to **Help** for **UA-100 Controller**.

MEMO

For actual examples of use, refer to "Examples of Actual Applications" (p. 37).

MEMO

*You can use the **UA-100 Controller** to change the effect parameter assigned to each **Effect Controller**. For details refer to **UA-100 Controller Help**. When the effect type selector is in the **PC** or **BYPASS** position, the settings of the Effect Controller will be ignored. If you wish to enable the Effect Controller, set the Effect Type Selector to a position other than **PC** or **BYPASS**.*

Rear Panel
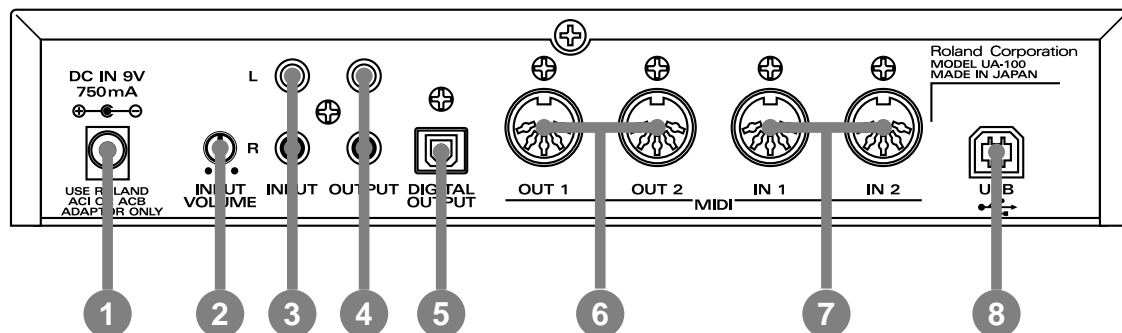
1. **AC Adaptor Jack**

   Connect the included AC adaptor to this jack.

2. **Line Input Volume**

   Adjusts the input level of the audio from the Line Input Jacks. If the input level is excessive, exceeding the peak, the Input Level Peak Indicator located on the front panel will light in red.

3. **Line Input Jacks**

   The LINE OUT jacks of an audio device such as external MIDI sound module or CD player can be connected here. Depending on the settings of the **UA-100 Controller** and the Effect Type Selector, the audio signal that is input here can be output directly, or can be output via the effects and volume control.

4. **Line Output Jacks**

   Effects and volume adjustment will be applied to the audio signal that is input from the Line Input Jacks or the USB connector, and the result will be output in stereo from the Line Output Jacks.

5. **Digital Output Connector**

   If you wish to output the audio signal in digital form to a digital recorder such as a MD or DAT, connect an optical digital cable.

6. **MIDI OUT 1/2 Connectors**

   These connectors transmit MIDI messages to other MIDI devices.

7. **MIDI IN 1/2 Connectors**

   These connectors receive MIDI messages from other MIDI devices.

8. **USB Connector**

   When a USB cable is used to connect this to your computer, audio signals and MIDI messages can be exchanged.

Getting Ready to Use the UA-100

In order to use the UA-100, you must first install the UA-100 driver. The UA-100 driver is on the included CD-ROM.

What Is the UA-100 Driver?

The UA-100 driver is software that passes data between the UA-100 and your application software (sequencing or other software) when the computer and the UA-100 are connected by USB cable.

The UA-100 driver sends data from the application to the UA-100, and passes information from the UA-100 to the application.
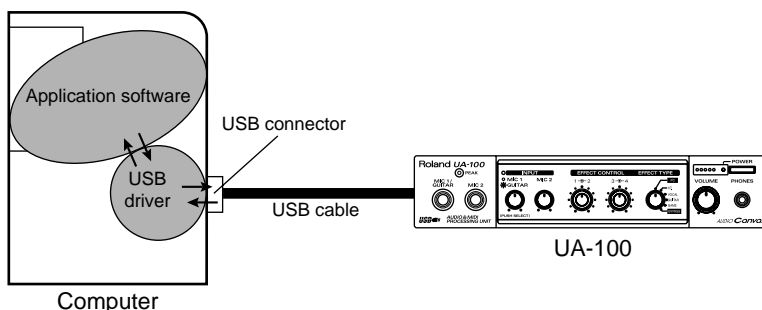
Before You Install the UA-100 Driver

If you will be connecting your computer to both the UA-100 and another Roland USB-compatible device such as the Super MPU64 and using them at the same time, you must disconnect the other device (S-MPU64 etc.) from the USB connector before installing the UA-100 Driver. If the Super MPU64 etc. remains connected at the time that the UA-100 Driver is installed, the UA-100 Driver may not be installed correctly.

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 **UA-100 Driver** and you re-start Windows, it may be impossible to start (re-start). The operation of your computer may also become unstable.

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, or check some other preferred device.

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 **Close** to end the procedure.

4   Double-click **Wave Device for Voice Modem**.

The **Wave Device for Voice Modem Properties** dialog box will appear.

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

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

Making the Connections

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.*

Stereo set, etc.

LINE IN, AUX IN

to the USB connector of your computer

Headphones

POWER

VOLUME   PHONES

Canvas

Computer

Audio cable

USB cable

UA-100   AC outlet

Roland Corporation
MODE
MADE

INPUT VOLUME   INPUT   OUTPUT   DIGITAL OUTPUT   OUT 1   OUT 2   IN 1   IN 2   USB

MIDI

USE ROLAND ACI OR ACB ADAPTOR ON

AC adaptor

Audio cable   MIDI cable

SC-88Pro (option)

MIDI
OUT/THRU   IN A   IN B   COMPUTER

MIDI
PC-2   Mac
PC-1

Set the Computer Switch to the "MIDI" position.

R   L   R   L   R   L
INPUT VOLUME   INPUT   OUTPUT1   OUTPUT2

PC-2   PC-1
MIDI   Mac

Make sure to connect to OUTPUT1 L and R. With the default settings, there will be no sound if you connect to OUTPUT2 L and R.

Installing the UA-100 Driver

If other Windows programs are already running, exit all of them before you perform the following procedure.

NOTE   *If the UA-100 driver is installed in the computer that you are using, delete the previously installed UA-100 driver before performing the installation. For details on deleting the UA-100 driver, refer to p. 67.*

NOTE   *Once the connections have been completed (p. 18), turn on power to your various devices in the order specified. By turning on devices in the wrong order, you risk causing malfunction and/or damage to speakers and other devices.*

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.

1   After completing the connections between the UA-100 and your computer and peripheral devices (p. 18), turn on the UA-100, and then turn on your computer and start up Windows.

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

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

The **Add New Hardware Wizard** dialog box will appear.

3 Select **Search for the best driver for your device (Recommended)**, and click **Next**.

4 Check **Specify a location**, input **D:\Drivers\Win98** in the text box, and click **Next**.

Alternatively, you can click **Browse**, open the **Drivers** folder on the CD-ROM drive, select the **Win98** folder, and click **Open**. Then click **Next**.

NOTE

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

5   When the updated driver is found, the following dialog box will appear. Select **The updated driver (Recommended)**, and click **Next**.

NOTE   *If **The updated driver (Recommended)** field displays **USB compatible device** instead of **Roland UA-100 Driver & WDM for Windows98**, the wrong search location has been specified. Click **Back**, and check the **Specify a location** field in step 4.*

6   Click **Next**.

Installation of the **UA-100 Driver** will begin.

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

MEMO   *If installation does not proceed as it should, consult "Can't install" (p. 64) in the "Troubleshooting" section.*

Once the UA-100 driver is installed, the ▓ icon will appear in the Windows **taskbar**. If you want to change settings for the UA-100's mixer, or for MIDI, you can click this icon, and a dialog will appear.
When the UA-100 is turned off, the ▓ icon will no longer be displayed.

MEMO   *For details on "UA-100 Driver Settings" refer to page 23. For details on the operation and settings of the MIDI patching function etc. of the UA-100 driver, refer to "UA-100 Driver" of the reference manual in the included CD-ROM. Page 69 explains "Using the Reference Manual."*

UA-100 Driver Settings

Setting the MIDI Output Destination

1 Click the Windows **Start** button, and from **Settings** choose **Control Panel**. Then in **Control Panel**, double-click **Multimedia**.

The **Multimedia Properties** dialog box will appear.

2 Click the **MIDI** tab.

3 In **MIDI output**, click to select **1:Roland UA-100 MIDI 1** from the **Single instrument** list.

4 Next, make settings for **Audio input/output destination**. With the **Multimedia Properties** box still displayed, proceed to "Specifying the Audio Data Input/Output Destination" on the next page (p. 24 Step 2).

Specifying the Audio Data Input/Output Destination

1 Click the Windows **Start** button. Click **Settings**, and select **Control Panel**. Then in **Control Panel**, double-click **Multimedia**.

The **Multimedia Properties** dialog box will appear.

2 Click the **Audio** tab.

3 In **Playback**, click the ▼ for **Preferred device**, and in the list that appears, click **1:Roland UA-100 Wave 1**.

4 In **Recording**, click the ▼ for **Preferred device**, and in the list that appears, click **1:Roland UA-100 Wave**.
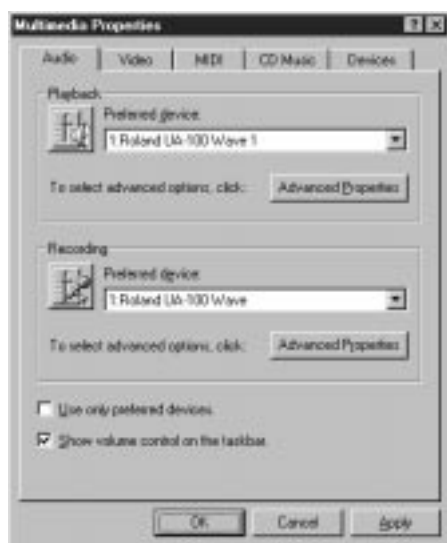
5 Click **OK** to complete the settings.

This completes settings for the Windows standard MIDI output and audio input/output devices. If you now wish to make settings for your sequencer software, you will need to refer to the owner's manual for your software.

Listening to the Demo Song

Now that the UA-100 driver has been installed, let's listen to the demo song.

NOTE

No data for the music that is played will be output from MIDI OUT 1/2 connectors.

Getting Ready to Play the Demo Song

1 Set the UA-100's **Effect Type Selector** to the **BYPASS** position.

EFFECT TYPE

PC
VT.
VOCAL
GUITAR
GAME
BYPASS
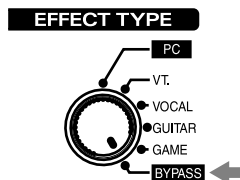
2 Specify the UA-100 as the output (Playback) device for audio data. For the procedure, refer to "UA-100 Driver Settings" (p. 23).

Playing the Demo Song

To play back the **demo song**, we will use **Media Player**, which is included with Windows. The demo song is contained on the included CD-ROM. Insert the included CD-ROM into the CD-ROM drive of your computer, and start up **Media Player** as follows.

NOTE *In order to listen to the demo song, there must be approximately 30 MB of free space on the hard disk in which your system is located.*

1   Click the Windows **Start** button, and select **Program** – **Accessories** – **Entertainment** – **Media Player**.

Media Player will start up.

NOTE *If you are unable to start **Media Player**, exit other applications and try to start **Media Player** once again. If it still does not start up, or if an error message is displayed, try restarting Windows.*

*In some cases, simply closing the window of an application does not exit that application. Applications shown in the **taskbar** are still running.*

*If the **Media Player** has not been installed in your computer, use **Add/Remove Programs** in **Control Panel** to install it. For details on installation, refer to your Windows owner's manual or Windows help.*

2   In the **Device** menu of **Media Player**, choose **Sound**.

The **Open** dialog box will appear.

3   Click the ▼ for **Look in** and select the CD-ROM drive. Then select the **OtherSeq** folder and click **Open**, and click **MediaPly**.

4 Drag the demo song **Alright.wav** to the desktop to copy it.
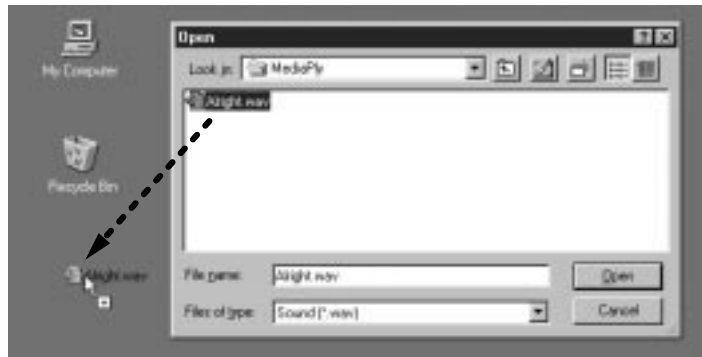
5 Select the demo song **Alright.wav** that you copied to the desktop, and click **Open**.

6 Click the **Play** button.

The demo song will begin playing back.

Does the Demo Song Play?

If it plays correctly, the computer and the UA-100 are connected correctly, and the UA-100 Driver has also been installed correctly. If it does not play correctly, refer to "Troubleshooting" (p. 49). This section explains how you can solve problems such as no sound or incorrect playback.

MEMO *For details of the Demo Song, refer to "About the Included Song Data" (p. 70).*

About the Included Software

The CD-ROM contains the following software.

UA-100 Controller

This application controls the effects and mixer of the UA-100. Please refer to "Using the UA-100 Controller" (p. 29). For details on operation, refer to the **Help** for **UA-100 Controller**.

Reference Manual

Read this as necessary when you wish to gain a deeper understanding of the UA-100. The **Reference Manual** can be read using an Web browser. For details refer to "Using the Reference Manual" (p. 69).

Virtual Sound Canvas VSC-88

You can enjoy high-quality MIDI playback even if you do not have an external MIDI sound module.
If you wish to use the UA-100 together with a software synthesizer (VSC-55 or VSC-88), you must use the **VSC-88** from the CD-ROM included with the UA-100. For details refer to "VSC-88 for Windows" in the **Reference Manual** on the included **CD-ROM**.

Demo Song

This is a demo song that lets you confirm the high-quality audio playback of the UA-100. Refer to "About the Included Song Data" (p. 70).

Using the UA-100 Controller

What is the UA-100 Controller?

UA-100 Controller is an application which allows you to control all of the UA-100's functionality from your computer. It mainly controls the **1. Mixer**, **2. Effects**, and **3. VT Mixer**. In addition, you can modify the effect parameters which are pre-set in the UA-100, and change the effect parameters that are assigned to the Effect Type Selector. For details of operation, refer to **Help** for **UA-100 Controller**.

Before you Install the UA-100 Controller

If you are re-installing the UA-100 Controller into a computer into which the UA-100 Controller had already been installed, or if the following dialog box or error message appeared during installation, click **Yes** to halt the setup. Use the **Control Panel** item **Add/Remove Application** to remove the **UA-100 Controller**, and then perform the installation from the beginning once again.

For details on removing (un-installing) the software, refer to "Information That You Will Find Useful" (p. 66).

NOTE *Before starting the installation process, please exit all other Windows programs.*

Installing the UA-100 Controller

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

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

The **Run** dialog box will appear.

3 In the **Open** text box, input **D:\Ua100ctl\DISK1\Setup.exe** and then click **OK**.

Alternatively, you can click **Browse**, then open the **Ua100ctl** folder on the CD-ROM drive, select the **setup.exe** file located in the **Disk1** folder, and click **Open**. Then click **OK**.

NOTE

*In this explanation we assume that your CD-ROM drive is drive D:, but the drive name may be different on your computer. If the drive name is different, read the appropriate drive name in place of "D:". You can check the drive name of your CD-ROM drive by double-clicking the **My Computer** icon.*

4 The installer will start up. Click **OK**.
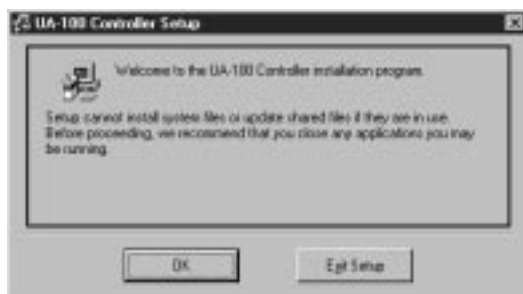
5 Click the [icon] button.

Setup will begin.

6 The program icon will be added to the group shown in **Program Group**. If this is acceptable, click **Continue**.

MEMO *If you wish to change the group or create a new group, input the desired group name in **Program Group**. Alternatively, you can select an existing group from the **Existing Groups** list.*

7 When installation of the UA-100 Controller is completed, the following dialog box will appear. Click **OK**.

8 Re-start Windows.

The UA-100 Controller has now been installed. Now let's try starting up the UA-100 Controller.

Starting Up the UA-100 Controller

The **UA-100 Driver** is required in order to use the UA-100 Controller. Finish making all connections for the UA-100 and your computer, and turn on the power. For the procedure of installing the UA-100 Driver, refer to "Installing the UA-100 Driver" (p. 19).

1   Click the Windows **Start** button, choose the **Program** menu, then the **Roland UA-100 Controller** group, and click **UA-100 Controller**.

When you start this up for the first time, the following **Setting** window will appear.

2   In the **MIDI Device** tab, make sure that **MIDI Device** is set to **1:Roland UA-100 MIDI Control**, and click **OK**.

3   The UA-100 Controller will start up.

MEMO   *For details on the function of each switch on the panel, refer to **Help** for the **UA-100 Controller**.*

Using the UA-100 Controller to Apply Effects to the Demo Song

As an example, we will explain how to use the UA-100 Controller's **Mixer function** to playback the demo song.

● Controls of the Mixer

System Effect Indicator

Panpot Controller   Return Controller   Load/Save Button

Mic/Guitar Select Button   Sub Return Controller   Magnifying Glass Button (Block Diagram Button)

Insertion Effect Indicator   Effect Mode Selector

Send 1 Controller   Effect Select Button

Send 2 Controller

Sub Control Display Button   Line Source Selector

Sub Fader (*)   Wave Source Selector

Mute Button

Solo Button   Wave Output Fader

Master Output Fader

* The Sub Fader will appear when you click the sub control display button.

Main Fader   Easy Setting Button

The UA-100 is able to mix the audio from two computer audio devices with the audio from two microphone inputs or one line input, and send the result from the digital output. For details refer to "About the UA-100's Internal Blocks" in the **Reference Manual** of the included CD-ROM.

1   Use **Media Player** to open the demo song **Alright.wav**. For details on operation, refer to "Playing the Demo Song" (p. 26).

2   Set UA-100's **Effect Type Selector** to the **PC** position.
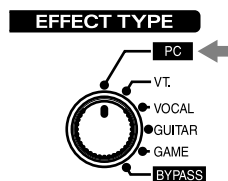
3   Set the audio playback device to **Roland UA-100 Wave 1**. For the procedure, refer to "UA-100 Driver Settings" (p. 23).

4   Start up the UA-100 Controller (p. 32), and click the **Mixer** button.

Mixer Button

The **Mixer** window will open.

5   In the **EASY SETTING** section, click the **Listen** button.

The following settings will be made automatically.

••

1. In the **Effect** section, click the ▼ to select **Full Effects Mode**.
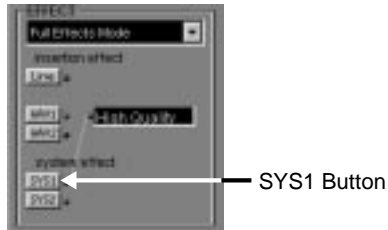
SYS1 Button

2. In the **Effect** section, click the **SYS1** button to open the **Full Effects** window.
    For **Effect Type**, click ▼ to select **High Quality Reverb**.

••

6   In the **Full Effects** window you can adjust the depth of the effect.

••

1. Click to select the type of parameter.

2. Move the slider at right to adjust the effect value (depth).

Parameter type ———   ——— Effect value

••
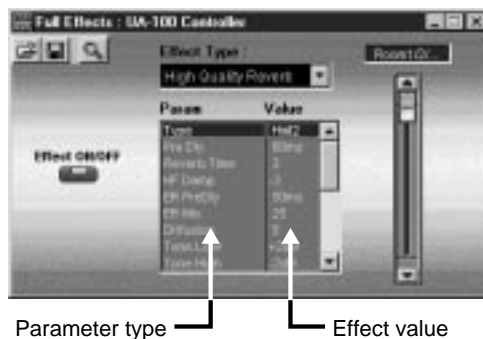
7 Use **Media Player** to playback the demo song **Alright.wav**.

8 While listening to the playback, adjust the volume and the amount of reverb.

Volume control:
In the **Mixer** window, move the channel 3 (Wave 1) **Main fader** to adjust the volume.

Reverb control:
In the **Mixer** window, move the channel 3 (Wave 1) **Send 1 controller** to adjust the reverb.
The effect depth can also be adjusted in the **Full Effects** window.

9 In the **Full Effects** window, modify the effect parameters to create the desired sound.

MEMO *For details on the mixer and effects that are built into the UA-100, refer to "Digital Mixer" and "Effects" of the **Reference Manual** in the included CD-ROM.*

*For details on using the **Mixer** window and the **Effect** windows, refer to **Help** for the **UA-100 Controller** in the included CD-ROM.*

Examples of Actual Applications

Applying Effects to a Vocal

Here's how you can connect a microphone to the UA-100, and adjust the input level of the voice and apply effects to it. We will explain how to use the **Effect Controller**.

Connecting a Microphone

1 Before you connect a microphone to the UA-100, turn down the following volume levels.

Line Output Volume
MIC1/GUITAR Input Volume
MIC2 Input Volume

2 Make sure that the **MIC1/GUITAR Function Indicator** is dark. If the **MIC1/GUITAR Function Indicator** is lit, press **MIC1/GUITAR Input Volume**.
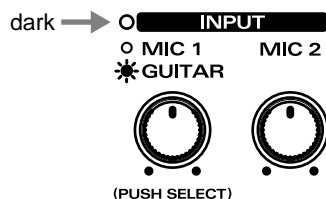
NOTE *If you are inputting a microphone signal and the **MIC1/GUITAR Input Volume** is set to the guitar input position, the volume will be less, since the input is set for the relatively high output levels of a guitar.*

3 Connect a microphone to the UA-100's **MIC1/GUITAR Input Jack**.
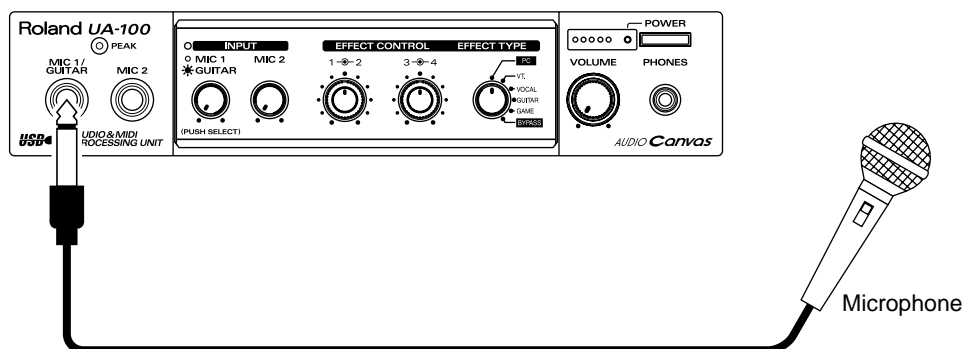
Microphone

MEMO *For details on connections with peripheral devices, refer to "Making the Connections" (p. 18).*

NOTE *Howling could be produced depending on the location of microphones rela-*
tive 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.*

Adjusting the Input Level

Adjust the signal being input from the microphone to an appropriate level.

1   Set the UA-100's **Effect Type Selector** to **VT.**.

The UA-100 contains over 70 types of effect. Of these, four especially interesting
and useful effects can be selected easily just by rotating the **Effect Type Selector**.
One of these is VT. (Voice Transformer).
The following diagram refer to "About the Preset Effects" in the **Reference
Manual** of the included CD-ROM.
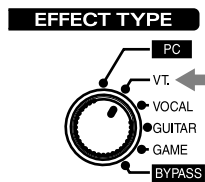
2   If your microphone has a switch, turn the switch **ON**. While speaking
or singing into the microphone, gradually rotate the **MIC1/GUITAR
Input Volume** and the **Line Output Volume** toward the right a little at
a time.

Make sure that the **Input Level Peak Indicator** lights green. If it lights red, the
input level is excessive. Rotate the **MIC1/GUITAR Input Volume** toward the left to
reduce the input level, so that the **Input Level Peak Indicator** lights green.
For details refer to "Adjusting the Input/Output Levels" in "Convenient
Applications" of the **Reference Manual** on the included CD-ROM.

MEMO *If the voice is not output satisfactorily, refer to "Still No Sound!" in*
"Troubleshooting" (p. 50).

Modifying Your Voice

Once you have adjusted the input level, you can try applying the effect to your own voice to modify it.

While speaking or singing into the microphone, rotate the **Effect Controller** knobs **1/2** and **3/4** to modify the effect that is applied to the sound.
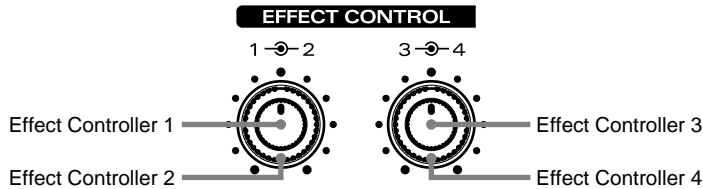
Effect Controller 1: The PITCH will change. Rotating the knob toward the left will lower the pitch, and rotating it toward the right will raise the pitch.

Effect Controller 2: The FORMANT (character of the voice) will change. Rotating the knob toward the left will make the voice thicker, and rotating it toward the right will make the voice thinner.

Effect Controller 3: Adjust REVERB (reverberation).

Effect Controller 4: Adjust LEVEL (the output level after the VT effect has been applied).

MEMO *For details refer to "About the Preset Effects" in the **Reference Manual** of the included CD-ROM.*

Recording

1 Click the Windows **Start** button, and choose **Programs** – **Accessories** – **Entertainment** – **Sound Recorder**.

Sound Recorder will start up.

NOTE *If **Sound Recorder** is not installed in your computer, use **Add/Remove Application** in the **Control Panel** to install it. For details on installation, refer to the Windows owner's manual or Help.*

2   Set the audio input/output device to UA-100 Driver. For the proce-
    dure, refer to "UA-100 Driver Settings" (p. 23).

3   In **Sound Recorder**, select the **File** menu and choose **Properties**.

    The **Properties for Sound** dialog box will appear.

4   In **Format Conversion**, click **Convert Now**.

    The **Sound Selection** dialog box will appear.

5   In the **Name** field, click ▼. Then select **CD Quality** and click **OK**.

    The **Sound Selection** dialog box will close.

6   In the **Properties for Sound** dialog box, click **OK**.

    The **Properties for Sound** dialog box will close, and settings will be completed.

7 Click the Record button ▬●▬ to begin recording. Sing into the micro-phone.

8 Click the Play button ▬►▬, and listen to the sound file that you recorded.

MEMO *The sound file (.wav) that you recorded here can be saved.*
For details on using the **Sound Recorder***, refer to the Windows owner's manual or Help.*

NOTE *Depending on your computer system, there may be a slight delay after you click the Record button until recording begins. If this is the case, refer to the section "UA-100 Driver Settings" in the* **Reference Manual** *on the included CD-ROM, and take the appropriate action. (Set the* **Buffer Size** *of* **Wave out** *to* **1 Min***.)*

By using the UA-100 Controller, you can adjust many effect parameters in addition to those that were introduced here. You can use the VT mixer to mod-ify the PITCH or FORMANT (thickness) of the voice, and create a variety of unique voice characters. For details refer to the **Help** for the **UA-100 Controller**.

Applying Effects to a Guitar

The sound from a guitar can be input to the UA-100 in the same way as the sound from a microphone.

Connecting a Guitar

1 Before you connect a guitar to the UA-100, turn down the levels of the following volume controls.

Line Output Volume
MIC1/GUITAR Input Volume
MIC2 Input Volume

2 Make sure that the **MIC1/GUITAR Function Indicator** is lit. If the **MIC1/GUITAR Function Indicator** is dark, press **MIC1/GUITAR Input Volume**.
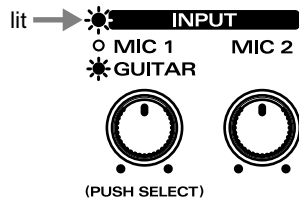
3 Connect the cable from your guitar directly to the UA-100's **MIC1/GUI-TAR Input Jack**.

Electric guitar
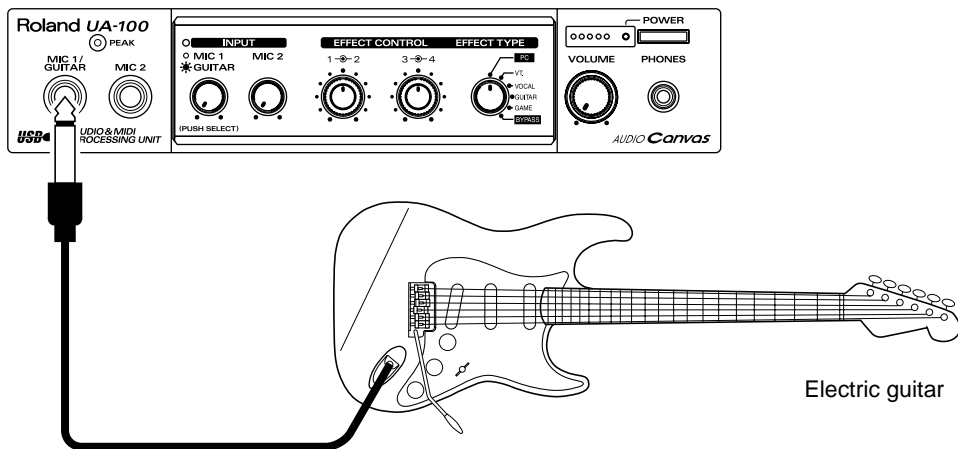
Adjusting the Input Level

Adjust the sound being input from the guitar to an appropriate level.

1   Set the UA-100's **Effect Type Selector** to **GUITAR**.

```
┌─ EFFECT TYPE ─┐
     ┌── PC
     ├─ VT.
     ├─ VOCAL
     ○── GUITAR  ⟵
     ├─ GAME
     └─ BYPASS
```
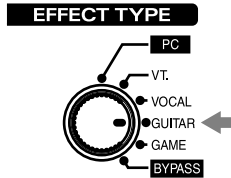
2   Gradually rotate **MIC1/GUITAR Input Volume** and **Line Output Volume** toward the right as you play your guitar.

Make sure that the **Input Level Peak Indicator** lights green. If it lights red, the input level is excessive. Rotate the **MIC1/GUITAR Input Volume** toward the left to decrease the input level so that the **Input Level Peak Indicator** lights green. For details refer to the section "Adjusting the Input/Output Levels" in "Convenient Applications" of the **Reference Manual** on the included CD-ROM.

> MEMO *If the sound is not output as it should be, refer to "Still No Sound!!" of "Troubleshooting" (p. 50).*

Applying Effects

Now that you have adjusted the input level, let's apply an effect to the sound of your guitar to modify it. Play your guitar while rotating the **Effect Controller** knobs **1/2** and **3/4**. The effect will be applied to the sound of your guitar.

```
        ┌─ EFFECT CONTROL ─┐
          1 ─◉─ 2     3 ─◉─ 4

Effect Controller 1 ──( ◉ )   ( ◉ )── Effect Controller 3
Effect Controller 2 ──           ── Effect Controller 4
```
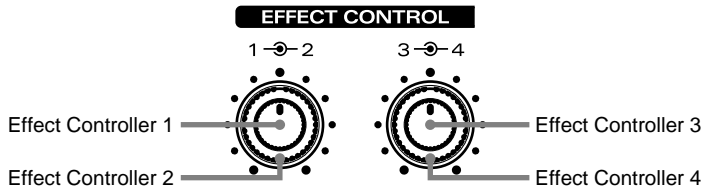
Effect Controller 1: OVERDRIVE adjusts the amount of distortion.
Effect Controller 2: NOISE SUPPRESSOR sets the threshold level of the noise suppressor.
Effect Controller 3: CHORUS adjusts the chorus or flanger sound.
Effect Controller 4: DELAY TIME adjusts the time from when the original sound occurs until the delay sound is heard.

> MEMO *For details refer to "About the Preset Effects" in **Reference Manual** on the included CD-ROM.*

Recording

1 Click the Windows **Start button**, and choose **Programs** – **Accessories** – **Entertainment** – **Sound Recorder**.

The **Sound Recorder** will start up.

NOTE

*If **Sound Recorder** has not been installed in your computer, use **Add/Remove Programs** in the **Control Panel** to install it. For details on the installation procedure, refer to the Windows owner's manual or Help.*

2 Specify the UA-100 Driver as the audio input/output device. For details on operation, refer to "UA-100 Driver Settings" (p. 23).

3 From the **File** menu of **Sound Recorder**, choose **Properties**.

The **Properties for Sound** dialog box will appear.

4

In **Format Conversion**, click **Convert Now**.

The **Sound Selection** dialog box will appear.
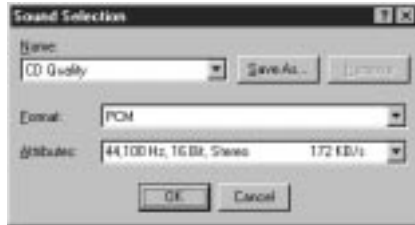
5

In **Name**, click the ▼, choose **CD Quality**, and click **OK**.

The **Sound Selection** dialog box will close.

6

In the **Properties for Sound** dialog box, click **OK**.

The **Properties for Sound** dialog box will close, and settings have now been completed.

7

Click the Record button ● to begin recording, and play your guitar.

8

Click the Play button ▶, and listen to the sound file that you recorded.

MEMO *You can save the sound file (.wav) that you recorded.*
For details on using Sound Recorder, refer to the Windows owner's manual or Help.

NOTE *Depending on your computer system, there may be a slight delay after you click the Record button until recording begins. If this is the case, refer to the section "UA-100 Driver Settings" in the* **Reference Manual** *on the included CD-ROM, and take the appropriate action. (Set the* **Buffer Size** *of* **Wave out** *to* **1 Min**.*)*

Applying Effects to the Game Sound (3D Reverb)

DirectSound is one of the elements which make up Microsoft DirectX. It minimizes delay of the sound, and allows it to playback with the best possible audio quality. By using DirectX compatible software on a computer in which DirectX has been installed, you can enjoy high-performance games with excellent expressiveness. The UA-100 supports DirectSound, allowing game sound effects to sound in synchronization with the on-screen action, and provides powerful and dynamic sound even through small speakers. Since multiple sound sources such as background music and sound effects can be mixed smoothly, it is extremely suitable for games.

UA-100 Settings

In order to use this functionality, you will first need to connect the UA-100 and make settings for the UA-100 driver.

MEMO   *For details on UA-100 connections and setting the UA-100 Driver, refer to "Making the Connections" (p. 18) and "UA-100 Driver Settings" (p. 23).*

1   When you play a game on your computer, set the UA-100's **Effect Type Selector** to the **GAME** position.
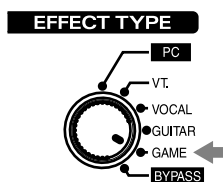
NOTE   *This functionality cannot be used with games who use an audio CD for background music.*

2   Use the **Effect Controller** to change the effect as desired.

Effect Controller 1 (ENHANCER SENSE):
Allows you to enjoy dynamic sound even through small speakers.
Effect Controller 2 (LOW BOOST):
Provides a powerful ultra-low range.
Effect Controller 3 (REVERB TIME):
Adds spaciousness to the sound. Adjusts the reverb time.
Effect Controller 4 (REVERB LEVEL):
Adds spaciousness to the sound. Adjusts the reverb depth.

MEMO   *The effect parameters that are assigned to the **Effect Controller** can be changed using the **UA-100 Controller**. For details refer to the **Help** for **UA-100 Controller**.*

Digitally Recording to an MD

Here's how to digitally record via the UA-100 to a digital recorder such as an MD or DAT

The UA-100 is able to mix two audio devices from the computer with two microphone inputs or one line input, and sent the result from the digital output.

However if the **Mixer** or **VT Mixer** of the **UA-100 Controller** is set to **Mic input mode**, the audio signal from the line input jacks cannot be digitally output. For details refer to "The UA-100's Internal Blocks" in **Reference Manual** on the included CD-ROM.

Connecting the Digital Recorder

Connect your digital recorder (MD or DAT etc.) to the UA-100 as shown in the diagram.

Optical digital cable

DIGITAL IN
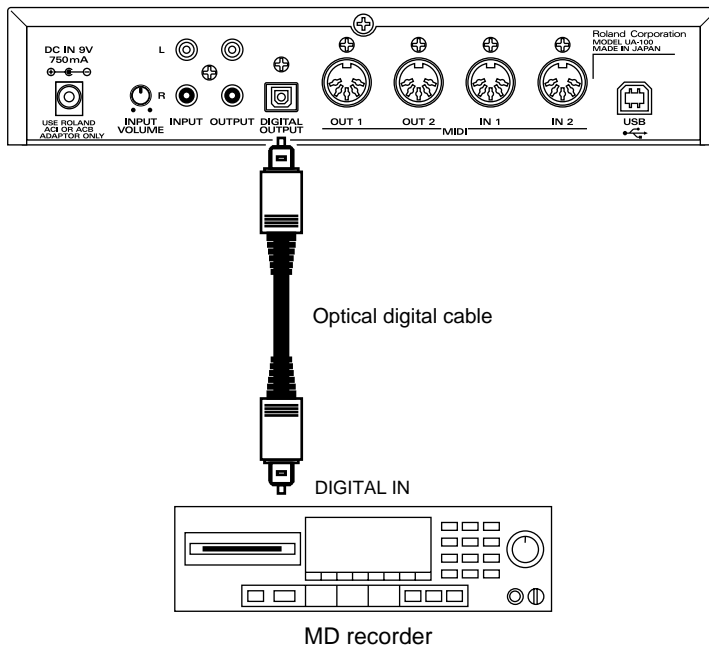
MD recorder

Mixdown

1 Use the **Media Player** to open the demo song **Alright.wav**. For the operating procedure, refer to "Playing the Demo Song" (p. 26).

2 Make preparations for recording on your digital recorder, and play-back the demo song **Alright.wav** and record it.

MEMO *The volume that is output from the digital output connector is controlled (adjusted) from the computer. It can be controlled either from the Windows **Volume Control** or by the master output fader in the mixer or VT Mixer windows of the UA-100 Controller.*

Copyright Protection Mode

This mode makes it difficult to make additional digital copies of an original song which you digitally recorded to MD or DAT. This prevents an original song you recorded from being copied digitally. Use the following procedure.

1. From the **Settings** menu of the UA-100 Controller, choose **System Settings**. The **System Settings** dialog box will appear.

2. Click the **System** tab, and in the **Digital Out** section click **Copyright**, and then click **OK**.

Troubleshooting

If the UA-100 does not operate as you expect, check the following points.

> MEMO *The **Reference Manual** on the included CD-ROM contains additional detailed information on each item of software, and the latest information on troubleshooting. Please refer to this information as well.*

Points to Check on the UA-100

Power Does Not Turn On

Is the Power Supply Plug Correctly Connected to the Power Supply Connector?

Is the Included AC Adaptor Correctly Connected to the AC Adaptor Jack of the UA-100?
Check whether connections have been made correctly.

No Sound

Are Multiple Applications Running?
If an excessive number of applications are run simultaneously, an error message may appear. If this occurs, click **OK**, and then exit all unneeded applications.
If an application remains in the **task bar** even after you have closed its window, it is still running. You will need to exit all unneeded applications that appear in the **task bar**.

Have Settings Been Made in Windows to Specify the Output Destination of the Audio Data?
You must specify **Roland UA-100 Wave 1** as the output destination. For details on making this setting, refer to "UA-100 Driver Settings" (p. 23).

Is the UA-100 Driver Installed Correctly?
In order to use the UA-100 to play back a data, the **UA-100 Driver** must be installed correctly. For the installation procedure and making settings, refer to "Getting Ready to Use the UA-100" (p. 15).

In the Mixer Utility, Are the WAVE1, WAVE2, and Master Faders Raised?
To start up the Mixer utility, double-click the volume icon 🔊 in the Windows **taskbar**.
If the volume icon is not displayed in the **taskbar**, click the **Start** button, and choose **Program** – **Accessories** – **Entertainment** – **Volume control** to start up the Mixer utility.

> NOTE *If the **Volume Control** has not been installed in your computer, use **Add/Remove Programs** in **Control Panel** to install it. For details on installation, refer to your Windows owner's manual or Windows help.*

Are the Outputs of Your MIDI Sound Module Connected to the Line Input Jacks of the UA-100?

If the outputs of the external MIDI sound module are connected to the Line Input Jacks of the UA-100, check the Line Input Volume knob on the rear panel of the UA-100, and adjust the line input level.
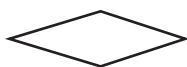
Still No Sound!

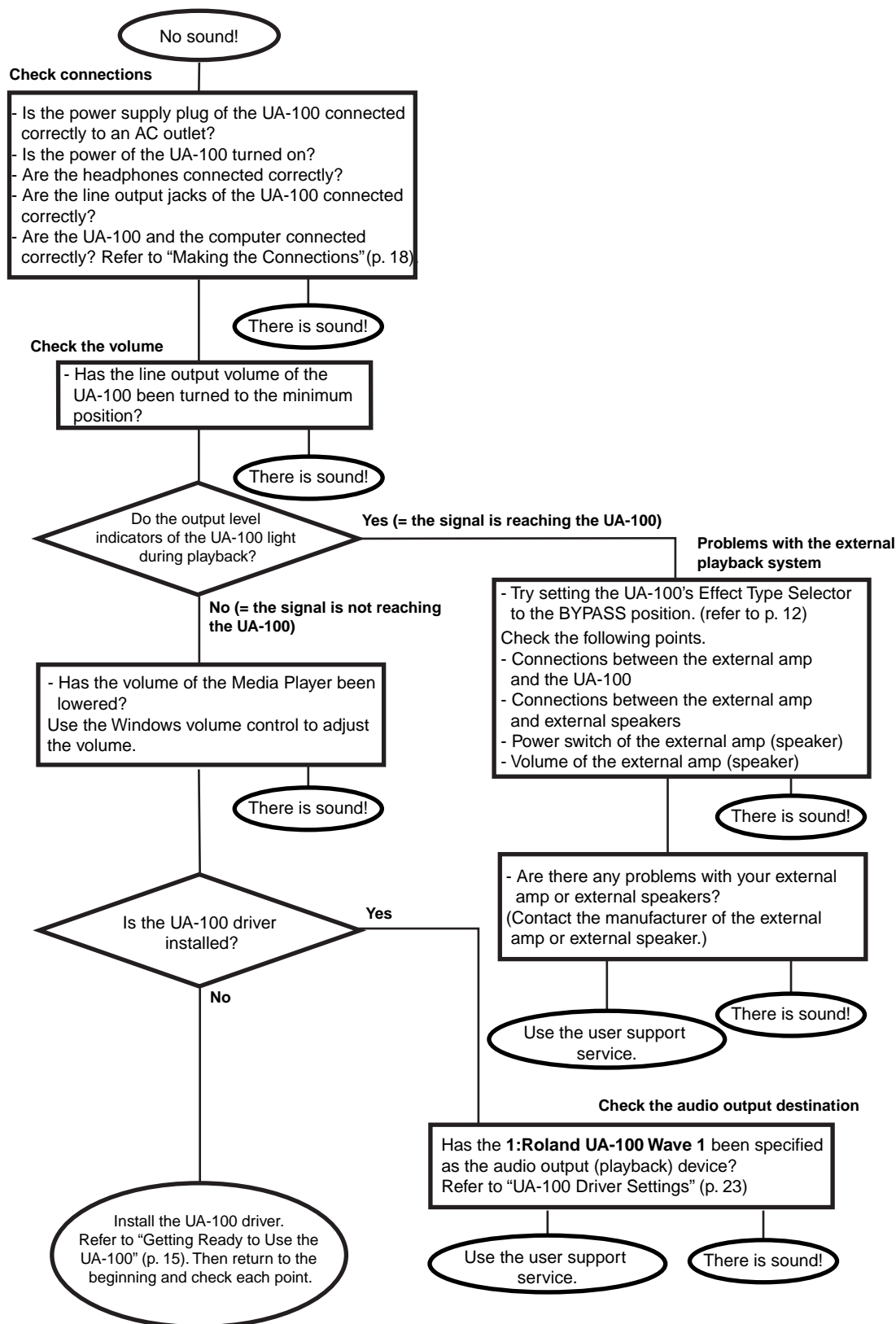Refer to the flow diagram on the following page to find the reason.

How to Use the Flow Diagram

- - - Proceed according to the directions.

- - - Answer each question.

No sound!

Check connections

- Is the power supply plug of the UA-100 connected correctly to an AC outlet?
- Is the power of the UA-100 turned on?
- Are the headphones connected correctly?
- Are the line output jacks of the UA-100 connected correctly?
- Are the UA-100 and the computer connected correctly? Refer to "Making the Connections"(p. 18)

There is sound!

Check the volume

- Has the line output volume of the UA-100 been turned to the minimum position?

There is sound!

Do the output level indicators of the UA-100 light during playback?

Yes (= the signal is reaching the UA-100)

Problems with the external playback system

- Try setting the UA-100's Effect Type Selector to the BYPASS position. (refer to p. 12)
Check the following points.
- Connections between the external amp and the UA-100
- Connections between the external amp and external speakers
- Power switch of the external amp (speaker)
- Volume of the external amp (speaker)

No (= the signal is not reaching the UA-100)

- Has the volume of the Media Player been lowered?
Use the Windows volume control to adjust the volume.

There is sound!

There is sound!

- Are there any problems with your external amp or external speakers?
(Contact the manufacturer of the external amp or external speaker.)

Is the UA-100 driver installed?

Yes

No

Use the user support service.

There is sound!

Check the audio output destination

Has the **1:Roland UA-100 Wave 1** been specified as the audio output (playback) device?
Refer to "UA-100 Driver Settings" (p. 23)

Install the UA-100 driver. Refer to "Getting Ready to Use the UA-100" (p. 15). Then return to the beginning and check each point.

Use the user support service.

There is sound!

Sound Is Distorted

Is an Effect Being Applied?

Use the following procedure to check.

1. Either set the UA-100's **Effect Type selector** to **BYPASS**, or open the mixer window in the UA-100 Controller, and turn off all effects (Compact Effects/Full Effects/System Effect) so that no effects are being applied. (For details on using the mixer of the UA-100 Controller, refer to **UA-100 Controller Help**.

2. If audio is being input from the **Line Input jacks**, use the UA-100's **Line Input Volume** to decrease the input level.
   If audio is being input from the **Mic 1/Guitar Input jack**, use the UA-100's **Mic 1/Guitar Input volume** to decrease the input level.

3. One at a time, turn on the effects that you turned off in step 1.
   At this time, notice whether the **Input Level Peak indicator** lights red. If it lights red, return to step 2 and adjust the input level.

4. If the sound is still distorted, use the Main fader, the MASTER fader or the Windows **Volume Control** to adjust the output level.

   NOTE *If you are using the VT mixer function of the UA-100 Controller, it will not be possible to use the Mute function of the Windows **Volume Control**.*

   MEMO *If you are using effects such as Flanger or Phaser which have resonance or feedback parameters, you will especially need to adjust the input level as described here.*

Is the Peak Level Indicator Lit Red?

If audio is being input from the **Line Input jack**, use the UA-100's **Line Input volume** to reduce the input level.
If audio is being input from the **Mic 1/Guitar Input jack**, use the UA-100's **Mic 1/Guitar Input volume** to reduce the input level.

Is the Volume Setting Appropriate?

Refer to "Setting the input/output levels" in "Useful Tips" of the **Reference Manual** on the included CD-ROM.

Are You Using a Game or Wave Data Playback Software?

If the sound is distorted when playing back Wave data from your computer (such as when using a game or Wave data playback software), use the main fader in the Mixer window of the UA-100 Controller, the MASTER fader, or the Windows **Volume Control** to adjust the output level.

## Noise Occurs During Audio Playback

Has a Microphone Been Left Connected?

If a microphone is connected to the UA-100, rotate the **Mic 1/Guitar Input volume** or **Mic 2 Input volume** all the way to the left to turn down the input level.

In Some Cases, the Graphics Accelerator May Cause Noise to Be Present in the Audio Playback.

Use the following procedure to set graphics acceleration to **None**.

1. In the Windows **Control Panel**, double-click **Display** to open the **Display Properties** dialog box, and click the **Settings** tab.
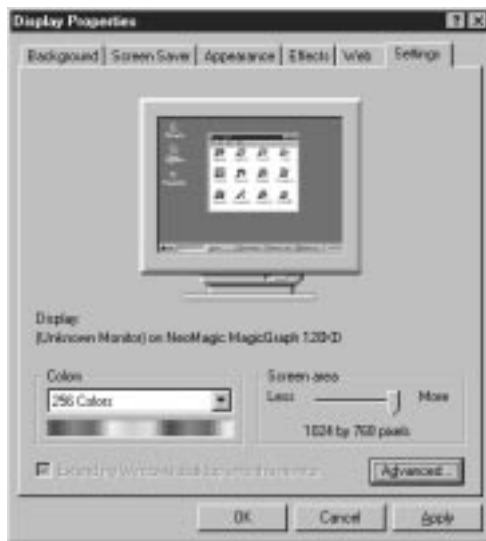
2. Click **Advanced**, and in the property window that appears, click the **Performance** tab.

3. In the **Graphics** section, set the **Hardware acceleration** slider to **None**, and then click **OK**.

4. In the **Display Properties** dialog box, click **OK** to close the dialog box. Then restart your computer.

Noise May Appear in the Line Input or the Microphone Input

Depending on your computer system, noise generated by the computer or display may be heard in the line input.
If this occurs, you can apply the Noise Suppresser insertion effect in Compact Effect mode to the line input to minimize the noise. For details refer to **Help** for the **UA-100 Controller**.

Sound is Interrupted During Audio Playback

Modify the Disk Drive Settings as Follows

1. In the Windows **Control Panel**, double-click **System**.

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

3. Double-click **Disk drives** to access the list of devices.

4. From the list, select **GENERIC IDE DISK TYPE40**, and click **Properties** to access the **GENERIC IDE DISK TYPE40 Properties** dialog box.

MEMO   *In* **GENERIC IDE DISK TYPE40**, *the number* **40** *may differ depending on your computer system.*

5. Click the **Settings** tab, check the **DMA** check box in "Options," and click **OK**.

NOTE   *Depending on your system, a dialog box for DMA settings may appear. Review the contents, and click either* **OK** *or* **Cancel**.

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

7. Restart your computer to make these settings take effect.

Increase the Size of the Buffer

1. In the Windows **taskbar**, click the 🖼 icon, and select **1:Set Properties of Roland UA-100** from the menu that appears.
   The **1:Roland UA-100 Properties** dialog box will appear.

2. Click the **Wave OUTPUT** tab.

3. In the **Buffer Size** item, check **5 Max**, and click **OK**.
   The **1:Roland UA-100 Properties** dialog box will close.

Install More Memory

By installing more memory you can increase the processing power of your computer. For details on installing memory, refer to the owner's manual for your computer.

Are a Large Number of Applications Running?

If there is insufficient memory, it may not be possible to start up another application. Exit any unneeded applications before you start up a new application. If an error message is still displayed, try restarting Windows.

Audio Playback Stops

On some models of computer, the **Power Management** settings in the **Control Panel** may cause the audio playback to stop. The content of **Power Supply Properties** that appears when you double-click **Power Management** will differ depending on your computer system. One example is given below, but you will need to refer to the owner's manual for your computer to verify the situation for your computer.

Some computers may not have the following setting items.

(Example:)

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

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

3. Double-click **System device** to display the list of devices.

4. From the list, select **Advanced Power Management support**, and click **Properties** to access the **Advanced Power Management support Properties** dialog box.

5. Click the **Settings** tab, check the **Disable power status polling** check box in the **Troubleshooting** section, and click **OK**.

6. In **System Properties** dialog box, click **OK**.

7. Re-start Windows.

MEMO *On some models of computer, the audio playback may stop for a moment when the screen saver switches in.*

MIDI Playback is Unstable

MIDI and Audio Are Not Synchronized

1. In the Windows **taskbar**, click the ▓ icon, and select **1:Set Properties of Roland UA-100** from the menu that appears.
    The **1:Roland UA-100 Properties** dialog box will appear.

2. Click the **Wave OUTPUT** tab.

3. In the **Buffer Size** item, check **1 Min** and click **OK**.
    The **1:Roland UA-100 Properties** dialog box will close.

Background Music for a Game Does Not Sound

Is the Background Music for the Game on an Audio CD?

If the game uses an audio CD to play music, connect the Line Input Jack of the UA-100 to your computer's Line Out jacks (the jacks which output the CD sound). Make sure that the Line Input Volume is set to an appropriate level (volume).

Screen Movements Are Unstable When Playing a Game

Screen Movements and Sound Are Not Synchronized in a Game

Decrease the Size of the Buffer

1. In the Windows **taskbar**, click the ▧ icon, and select **1:Set Properties of Roland UA-100** from the menu that appears.
   The **1:Roland UA-100 Properties** dialog box will appear.

2. Click the **Wave OUTPUT** tab.

3. In **Buffer Size**, check **1 Min** and click **OK**.
   The **1:Roland UA-100 Properties** dialog box will close.

Points to Check for the UA-100 Driver

Search for Unknown Device Is Not Performed Automatically

Search for Unknown Device Ends Before Completion

Is the USB Cable Connected Correctly?

Make sure that the UA-100 and your computer are connected correctly via the USB cable. (p. 18)

Is the Power of the UA-100 Turned On?

Make sure that the power indicator of the UA-100 is lit. If it is not lit, press the power switch to turn on the power.

Is the USB Enabled for Use on Your Computer?

Refer to the owner's manual for your computer, and make sure that the USB is enabled for use.

Are Other Devices Displayed in the List of Devices?

Use the following procedure to delete **Unsupported Devices**, **Unknown Devices** and **USB Composite Device** from **Other Devices**, and then restart your computer.

1. In the Windows **Control Panel**, double-click **System**.

   The **System Properties** dialog box will appear.

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

3. Double-click **Other Devices** to display the list of devices.

4. If there are **Unsopported Device**, **Unknown Device** and **USB Composite Device** in the list, select them and click **Remove**.

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

6. Make sure that **Other Device** and **Unsupported Device** are not displayed in the list, and click **Close** to close the dialog box.

The UA-100 Driver Is Not Installed Correctly

Use the procedure described in "Deleting the UA-100 Driver" (p. 67) to delete the UA-100 Driver that was installed in your computer, and then re-install the UA-100 Driver (p. 19).

Unknown Device Search Dialog Box Appears Even Though I Installed the Driver

If your computer or your USB hub has two or more USB connectors, connecting the UA-100 to a USB connector to which a UA-100 has never been connected may cause the "Unknown device" dialog box to appear, even if the UA-100 driver has already been installed in the computer. This dialog box will automatically close after the UA-100 driver has been loaded, and subsequent operation will be normal. This is not a malfunction.

Points to Check for the UA-100 Controller

Does Not Start Up

Is the UA-100 Driver Installed?

In order to use the **UA-100 Controller** to operate the UA-100, the **UA-100 Driver** must be installed. For the installation procedure, refer to "Getting Ready to Use the UA-100" (p. 15).

Is the Power of the UA-100 Turned On?

The UA-100 Controller cannot be used if the power of the UA-100 is not turned on. Refer to "Making the Connections" (p. 18), and make sure that connections have been made correctly. Turn on the power of the UA-100.

## Cannot Operate (Cannot Control)

Are the MIDI PATCHER Settings MIDI PLAY and MIDI REC Set to Cont.→Cont.?

Use the following procedure to check and set MIDI PATCHER.

1. Click the **Taskbar** icon ![icon], and from the menu that appears select **1:Set Properties of Roland UA-100**.

2. Click the **MIDI PLAY** tab, and make sure that the **Cont.→Cont.** check box is checked. If not, click to check it.
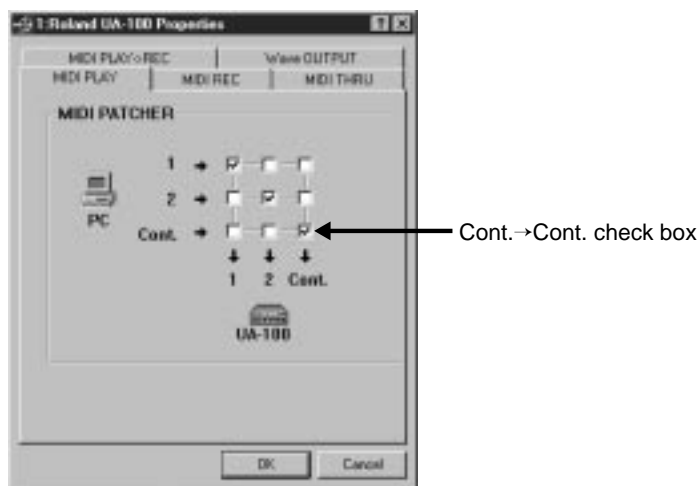
Cont.→Cont. check box

3. Click the **MIDI REC** tab, and make sure that the **Cont.**→**Cont.** check box is checked. If it is not checked, click to check it.

Cont.→Cont. check box
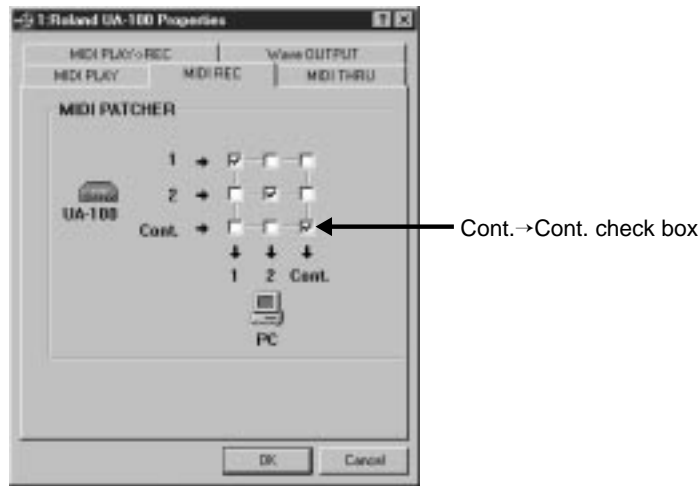
4. Click **OK**.

Can't Record Audio

Has the Input Mode Appropriate for the Input Source Been Selected?

If you are recording from **Line Input**, set the **Mic/Guitar Select Button** of the mixer or VT mixer window of the UA-100 controller to the **Line** position to select **Line Input**.
Similarly, if you are recording from **Microphone Input**, set the **Mic/Guitar Select Button** to the **Mic/Guitar** or **Mic1+Mic2** position.
For details refer to **UA-100 Controller Help**.

Are the Faders Raised?

In the mixer or VT mixer window of the UA-100 controller, raise the level of the **Main Fader** or **Wave Output Fader** to increase the volume of the signal that you are recording.
For details refer to **UA-100 Controller Help**.

Has the Wave Source Selector Been Set Correctly?

In the **Mixer** or **VT mixer** function of the **UA-100 Controller**, set the **Wave Source Selector** to the source that you wish to record. For details refer to **UA-100 Controller Help**.

Points to Check That Are Common to All Software

MEMO   *If you find that the instructions are difficult to understand (e.g., if you are using Windows for the first time), please refer first to the owner's manuals for your computer and for Windows.*

Can't Install

Is the Included CD-ROM Inserted Into Your Computer's CD-ROM Drive?

Check the CD-ROM drive.

Is There Sufficient Free Space on Your Hard Disk?

Increase the free space in your hard disk.
- Delete unneeded files (move them to the Recycle Bin), and then right-click the **Recycle Bin** and choose **Empty Recycle Bin**.
- Alternatively, you can add another hard disk.

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

Was Another Application Running When You Installed the Software?

Exit all applications, and perform the installation once again.

Application Does Not Start Up

Are a Large Number of Applications Already Running?

It may be that there is insufficient memory for another application to be started up. Exit unneeded applications, and then start the new application. If an error message is still displayed, try restarting Windows.

An Error Message Appears When You Start Up the Application

If an excessive number of applications are run simultaneously, an error message may appear. If this occurs, click **OK**, and then exit all unneeded applications.
If an application remains in the **task bar** even after you have closed its window, it is still running. You will need to exit all unneeded applications that appear in the **task bar**.

The Suspend (Power Save) Function of Your Computer Does Not Work

If the UA-100 connected to your computer is powered-on, the **Suspend** function of your computer cannot be used. If you wish to use the **Suspend** function, turn off the power of the UA-100 that is connected to your computer.

Computer Operation Is Unstable

If **Microsoft Internet Explorer 4.0** is installed on your computer, and the Windows **Start** menu item **Settings** – **Active Desktop** – **Display as Web page** is checked, the operation of your computer may seem slow and unstable. When using the UA-100, we recommend that you un-check the **View as Web Page** item.

Information That You Will Find Useful

UA-100 Driver Settings

When you finish installing the UA-100 Driver, the ▓ icon will appear in the Windows **taskbar**. If you click this icon, a dialog box will appear in which you can modify the settings for the UA-100's internal mixer and for MIDI.

📖 MEMO *For details on these settings, refer to "Detailed settings for the driver" in* **Reference Manual** *of the included CD-ROM.*

Uninstalling the Software

Each of the applications on the included CD-ROM supports the Windows **Add/Remove Programs** function. Applications that you no longer need can be deleted using the following procedure.

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

2. Double-click **Add/Remove Programs**.
   The **Add/Remove Programs Properties** dialog box will appear.

3. Click the **Install/Uninstall** tab.

4. In the list that appears in the dialog box, click the name of the application that you wish to remove.

5. Click **Add/Remove** in the lower right of the dialog box.
   The application that you specified in step 4 will be removed.

Deleting the UA-100 Driver

When Re-installing the UA-100 Driver

If Installation of the UA-100 Driver Ended Before Completion

Use the following procedure to delete the previously installed UA-100 driver and the files in the **Inf** folder, and then re-start your computer.

NOTE   *Our explanation here will cover the average Windows system. Please be aware that some of the folder names may differ depending on your computer.*

1. Use a USB cable to connect the UA-100 to your computer.

2. Turn on the power of the UA-100.

3. First delete the UA-100 Driver. In the Windows **Control Panel**, double-click **System**.
   The **System Properties** dialog box will appear.

4. Click the **Device Manager** tab.

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

6. From the list, select **Roland UA-100 Driver & WDM for Windows98**, and click **Remove**. In the **Confirm Delete device?** dialog box, click **OK**.

7. Double-click **Sound, video and game controllers**, make sure that **Roland UA-100 Driver & WDM for Windows98** does not appear in the list, and click **Close** to close the dialog box.

8. Next, start up the Windows **Explorer**, and in the **Explorer View** menu, choose **Folder Options**.

9. Click the **View** tab, and in the **Advanced settings** item **Hidden files**, click **Show all files** and click **OK**.
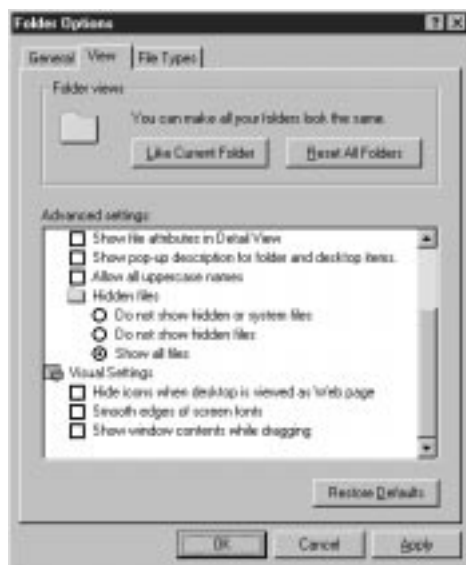
10. In the hard disk which contains the system, select **Windows\Inf\Other\RolandRDUSBAUD.INF**, right-click it, and select **Delete** in the menu that appears.

11. In the same way, delete **Windows\rdusbaud.ini**.

12. Turn off the power of the UA-100, and re-start Windows.

Using the Reference Manual

The **Reference Manual** on the included CD-ROM contains the details of more advanced ways to use the UA-100. In order to take full advantage of the UA-100's functionality, read this material as desired.

> MEMO
>
> *In order to read the **Reference Manual** you will need an Web browser such as **Netscape Navigator 3.01 or later** or **Microsoft Internet Explorer 3.01 or later**.*

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

2. Click the **Start** button, and from **Programs**, select **Explorer**.
   The Explorer window will appear.

3. In the Explorer, select the CD-ROM drive, and double-click the **Referenc** folder within "Ua100" of the included CD-ROM to open it.

> MEMO
>
> *If the Reference Manual does not open when you double-click the **Referenc** folder, first start up your Internet browser, and drag the **Referenc** folder to the Internet browser.*

4. Double-click the **index.htm** file which is located in the **Referenc** folder.
   The Reference Manual will open.

> MEMO
>
> *Details on use will be displayed if you click **Quick!! How to read the Reference Manual** which is displayed at the right of the **Reference Manual** startup window.*

It is convenient to place a **Shortcut** for the Reference Manual on your desktop.
Use the following procedure to create a shortcut.

1. After opening the Reference Manual folder of the included CD-ROM in step 3 of the above procedure, hold down the **Ctrl** key and the **Shift** key and drag the **index.htm** file to the desktop.

2. Change the name of the desktop shortcut as desired. Right-click the shortcut, select **Change Name**, and change it to an easily-remembered name such as "UA-100 Reference Manual."

The **Reference Manual** contains the following topics.
- How the UA-100 is organized
- Analog Mixer
- Digital Mixer
- Effects
- MIDI and the UA-100
- Included Software
- Convenient ways to use the UA-100
- Appendices

About the Included Song Data

It's gonna be alright
Composed & Programmed by Mitsuru Sakaue
Vocal: Tahirih Walker, Humiyo Kawazoe
Guitar: Katsuhisa Fujimoto, Idecs Inc.

UA-100 meets Hyper Groove
Composed & Programmed by Mitsuru Sakaue & Idecs Hyper Groove.
Vocal: Humiyo Kawazoe, Tahirih Walker
Guitar: Katsuhisa Fujimoto, Idecs Inc.
RAP & Narration: Marvin Lee Dangerfield

* This data uses some phrase data that is recorded on Idecs Hyper Groove.

File Name	Song Name		Directory (contained on the included CD-ROM)
■ Cakewalk			
Alright1.bun	It's gonna be alright	Audio (4 tracks)+MIDI	Cakewalk\Cakesong\Aud_Midi\Alright1.bun
UAmeetH1.bun	UA-100 meets Hyper Groove	Audio (4 tracks)+MIDI	Cakewalk\Cakesong\Aud_Midi\UAmeetH1.bun
Alright2.bun	It's gonna be alright	Audio (6 tracks)	Cakewalk\Cakesong\Audio\Alright2.bun
Alrigh2H.bun	It's gonna be alright	Audio (4 tracks)	Cakewalk\Cakesong\Audio\Alrigh2H.bun
UAmeetH2.bun	UA-100 meets Hyper Groove	Audio (5 tracks)	Cakewalk\Cakesong\Audio\UAmeetH2.bun
■ Cubase			
alright1.all	It's gonna be alright	Audio (4 tracks)+MIDI	OtherSeq\CuBase\alright1.all
alright2.all	It's gonna be alright	Audio (6 tracks)	OtherSeq\CuBase\alright2.all
alright.arr	It's gonna be alright	Audio (4 tracks)+MIDI	OtherSeq\CuBase\alright.arr
■ Wave File			
Alright.wav	It's gonna be alright	Wave	OtherSeq\MediaPly\Alright.wav

Profile of Demo Song Composer

Mitsuru Sakaue   Copyright © 1998, Idecs Inc.
From his college days, Mitsuru Sakaue has been active as a keyboard player and arranger in studio and commercial music production. At present he is involved in production of commercials for TV and radio as a composer, arranger, keyboard player and computer music expert. His highly acclaimed musical abilities go beyond borders of musical genre. He is the chief director of the Idecs (Inc.) group of creative musical artists.

Operating Requirements

UA-100 Driver

UA-100 Controller

Supported OS:	Microsoft Windows 98
Supported computers:	A personal computer that runs Windows 98 and has a USB connector which conforms to USB Specification Version 1.0, or models given in the list of computers for which operation has been verified.
CPU/Clock:	Pentium processor with MMX technology 166 MHz or higher or Pentium processor 200 MHz or higher (Pentium II processor 200 MHz or higher is recommended)
Display resolution/Colors:	800 x 600 pixels or higher ∕ 256 colors or more
Memory:	32 MB or more
Required hard disk space:	8 MB or more
Required hardware:	2x or faster CD-ROM drive
Required software:	Netscape Navigator Version 3.01 or later
	Microsoft Internet Explorer Version 3.01 or later

VSC-88

Supported OS:	Microsoft Windows 98, Windows 95
Supported computers:	Windows 95 compatible computers
	* This software cannot be used on an IBM (models with MWAVE only).*
CPU/Clock:	Pentium processor 166 MHz or higher, or Pentium processor with MMX technology 150 MHz or higher, or Pentium II processor
Display resolution/Colors:	640 x 480 pixels or higher ∕ 256 colors or more
Memory:	16 MB or more (32 MB or more is recommended. In addition, a secondary cache of 256 KB or more is recommended)
Hard disk space required for setup:	15 MB
Required hardware:	Windows 98, Windows 95 compatible internal sound functionality, or a sound card (stereo 16 bit, sampling frequency 44.1*∕22.05∕11.025 kHz)
	* Pentium processor with MMX technology 166 MHz or higher, or Pentium II processor recommended*
	2x or faster CD-ROM drive

* *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 this product, Roland cannot guarantee that a given computer can be used satisfactorily with this product 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.*

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

Specifications

UA-100: USB Audio & MIDI Processing Unit

Audio Record/Play
Record Track: 1 ch, Stereo
Play track: 2 ch, Stereo Full Duplex

Effects
Original effects:
>   Voice Effect equivalent to VT-1
>   Vocal Multi-Effects
>   MIC simulator
>   others

Effects equivalent to SC-88Pro: 64 types
System effects: 3 types (Reverb/Chorus/Delay)

Signal Processing
AD Conversion: 20 bit linear
>   (64 times oversampling)

DA Conversion: 20 bit linear
>   (128 times oversampling)

Internal DSP Processing: 24 bit linear

Sample Rate
44.1 kHz/22.05 kHz/11.025 kHz

Frequency Response
22 Hz to 21 kHz (+0.2 dB/-3 dB)

Nominal Input Level
Line Input Jacks: -10 dBm
MIC1/GUITAR Input Jack (MIC Mode): -40 dBm
MIC1/GUITAR Input Jack (GUITAR Mode): -23 dBm
MIC2 Input Jack: -40 dBm

Nominal Output Level
Line Output Jacks: -10 dBm

Output Impedance
Line Output Jacks: 600 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, MIC1, 2:
min.IHF-A, typ., Line mode)
Line Output Jacks: -92 dBm or less

Interface
USB
Digital Out: Optical type (conforms to S/P DIF)

Connectors
Front Panel:
MIC1/GUITAR Input Jack (1/4 inch phone type)
MIC2 Input Jack (1/4 inch phone type)
Headphones Jack (Stereo miniature phone type)

Rear Panel:
USB Connector (USB Type B)
MIDI Connectors (2 input, 2 output)
Line Iutput Jack (RCA phono type) x 2
Line Output Jack (RCA phono type) x 2
Digital Output Connector (Optical type)

Power Supply
DC 9 V (AC Adaptor)

Current Draw
750 mA

Dimensions
218 (W) x 250 (D) x 46 (H) mm
8-5/8 (W) x 9-7/8 (D) x 1-13/16 (H) inches

Weight
1.3 kg/2 lbs 140 oz

Accessories
Startup Manual
USB cable
AC Adaptor (ACI or ACB)
CD-ROM

CD-ROM contents
UA-100 Controller
Reference Manual (HTML)
Virtual Sound Canvas VSC-88
Demo songs
Windows 98 Compatible UA-100 Driver

(0 dBm = 0.775 V rms)

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

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Información

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