Panel Descriptions

Rubix22

Front Panel

1. [SENS 1L] knob, [SENS 2R] knob
   Adjust the volume of the audio signal that is input via the INPUT (1L, 2R) jacks.

2. Level indicator
   The indicator is lit green if an audio signal greater than -24 dB (*) is being input to the INPUT (1L, 2R) jacks. If the input level is -3 dB (*) or higher, the indicator is lit red. If the indicator is lit red, use the [SENS 1L] knob and [SENS 2R] knob to adjust the input level.
   * The level relative to the maximum allowable input (0 dB)

3. INPUT (1L, 2R) connectors (combo jacks)
   These are analog audio input jacks with microphone preamps. They accommodate both XLR connectors and 1/4-inch phone type jacks, and support both balanced and unbalanced connections.

<table>
<thead>
<tr>
<th>INPUT (1L, 2R) connectors</th>
<th>Input sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLR connector</td>
<td>-60 to -12 dBu</td>
</tr>
<tr>
<td>Phone type plug</td>
<td>-44 to +4 dBu</td>
</tr>
</tbody>
</table>

**MEMO**
- To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections.
- Pin assignment of INPUT connector/jack
  1: GND  
  2: HOT  
  3: COLD
- Set the [Hi-Z] button (p. 2) and [48V] button (p. 2) as appropriate for the connected equipment.
- Use a microphone with an XLR connector. The sound level will be very low if you use a microphone with a phone type plug.
- When connecting a guitar or bass, use the INPUT 1L jack. The sound level will be very low if you connect directly to the INPUT 2R jack.

4. [Hi-Z] button
   Determines the impedance of the INPUT 1L jack.
   You can select high impedance (Hi-Z) or low impedance (Lo-Z) as appropriate for the connected equipment.

<table>
<thead>
<tr>
<th>[Hi-Z] button</th>
<th>Equipment connected to the INPUT 1L jack</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lit (Hi-Z)</td>
<td>Guitar or bass</td>
</tr>
<tr>
<td>Unlit (Lo-Z)</td>
<td>Other equipment (such as synthesizers)</td>
</tr>
</tbody>
</table>

**NOTE**
- You must leave the [48V] button set to “OFF” unless condenser microphones requiring phantom power are connected to the XLR connectors. Supplying phantom power to a dynamic microphone or to an audio playback device may damage the equipment. For details on the requirements of your microphone, refer to its owner’s manual.
- Minimize the volume before you turn phantom power on or off. Even if the volume is minimized, turning phantom power on/off might make a sound, but this is not a malfunction.

5. [48V] button
   Determines whether the Rubix22 supplies phantom power to the XLR connectors of the INPUT (1L, 2R) jacks.

<table>
<thead>
<tr>
<th>[48V] button</th>
<th>Connected equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lit</td>
<td>Condenser microphone that requires phantom power</td>
</tr>
<tr>
<td></td>
<td>* Phantom power supplied by this unit: DC 48 V; maximum 6 mA. (current value per channel)</td>
</tr>
<tr>
<td>Unlit</td>
<td>Other equipment</td>
</tr>
</tbody>
</table>

**NOTE**
- You must leave the [48V] button set to “OFF” unless condenser microphones requiring phantom power are connected to the XLR connectors. Supplying phantom power to a dynamic microphone or to an audio playback device may damage the equipment. For details on the requirements of your microphone, refer to its owner’s manual.
- Minimize the volume before you turn phantom power on or off. Even if the volume is minimized, turning phantom power on/off might make a sound, but this is not a malfunction.

6. Power indicator
   Indicates the status of the connection with a USB device.

<table>
<thead>
<tr>
<th>Power indicator</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lit</td>
<td>Connected to a computer or iPad.</td>
</tr>
<tr>
<td>Unlit</td>
<td>Not connected to a computer or iPad.</td>
</tr>
</tbody>
</table>

7. [OUTPUT] knob
   Adjusts the output level of the audio signal.

**MEMO**
- Adjusting the [OUTPUT] knob does not change the volume that is output to the (headphones) jack.

8. [Ω] (Headphone) knob
   Adjusts the output level of the (headphones) jack.

9. (Headphone) jack
   Used to connect headphones.

**MEMO**
- This jack outputs the same sound as the OUTPUT (1L, 2R) jacks. Even if headphones are connected, sound will be output from the OUTPUT (1L, 2R) jacks.
Rear Panel

1. **5V DC connector**
   - Connect this to a commercially available USB AC adaptor.
   - **About the USB AC adaptor**
     - Read the section on “Using the Unit Safely” in the manual included with your USB AC adaptor. Use a USB AC adaptor that meets the following specifications.
       - USB micro-B type
       - Output voltage: 4.8–5.2 V
       - Output current: 500 mA (0.5A) or higher
     - We have verified that the Rubix operates with typical USB AC adaptors that meet the above conditions, but cannot guarantee that it will work with all adaptors that meet these conditions.
     - Be aware that even under identical conditions, differences in the design specifications of a USB AC adaptor and differences in the conditions of use might make the Rubix operate or perform differently.

2. **[POWER SOURCE] switch**
   - Selects the connector from which power is obtained.
   - **Switch position** | **Connector from which power is obtained**
   - ![POWER SOURCE] | 5V DC connector (A commercially available USB adaptor is required.)
   - ![POWER SOURCE] | USB port (Power is supplied from the connected computer.)

3. **USB port ( )**
   - Connects to the computer.

4. **MIDI (OUT, IN) connectors**
   - Connect the MIDI OUT connector to an external MIDI sound module, etc.
   - Connect the MIDI IN connector to a MIDI keyboard or MIDI controller.

5. **[DIRECT MONITOR] switch**
   - Determines whether the audio signals input via the INPUT (1L, 2R) are output directly.
   - **Switch position** | **Explanation**
   - ![DIRECT MONITOR] | Monitor in mono.
   - ![DIRECT MONITOR] | Monitor in stereo.
   - ![DIRECT MONITOR] | Select when monitoring using the DAW software. Only audio input via the Rubix22’s USB port can be monitored.

6. **[GROUND LIFT] switch**
   - Normally, this switch should be set to “NOR” (NORMAL).
   - If ground loop noise occurs, switching this to “LIFT” might eliminate the noise.
   - **MEMO**
     - The GND (SLEEVE) of the OUTPUT (1L, 2R) jacks (TRS balanced type) is disconnected from ground.
     - In some cases, there might be no sound if you connect a balanced cable to an unbalanced device and set this switch to the “LIFT” position. If so, set the switch to “NOR.”

7. **OUTPUT (1L, 2R) jacks (balanced TRS type)**
   - Output the analog audio signal.
   - **MEMO**
     - Pin assignment of OUTPUT jack
       - GND (SLEEVE)
       - HOT (TIP)
       - COLD (RING)
     - The wiring of this device uses “impedance balancing.” The audio signal is conveyed via HOT and GND in unbalanced form, but since COLD and GND are connected by a resistor, the electrical circuit is balanced. This provides the same noise-reducing effect as a balanced circuit.
Panel Descriptions

Rubix24

Front Panel

1. [SENS 1L] knob, [SENS 2R] knob
   Adjust the volume of the audio signal that is input via the INPUT (1L, 2R) jacks.

2. Level indicator
   The indicator is lit green if an audio signal greater than -24 dB (*) is being input to the INPUT (1L, 2R) jacks. If the input level is -3 dB (*) or higher, the indicator is lit red. If the indicator is lit red, use the [SENS 1L] knob and [SENS 2R] knob to adjust the input level.
   * The level relative to the maximum allowable input (0 dB)

3. INPUT (1L, 2R) connectors (combo jacks)
   These are analog audio input jacks with microphone preamps. They accommodate both XLR connectors and 1/4-inch phone type jacks, and support both balanced and unbalanced connections.

<table>
<thead>
<tr>
<th>INPUT (1L, 2R) connectors</th>
<th>Input sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLR connector</td>
<td>-60 – -12dBu</td>
</tr>
<tr>
<td>Phone type plug</td>
<td>-44 – +4dBu</td>
</tr>
</tbody>
</table>

   **XLR connector (balanced)**
   **Phone type plug (unbalanced)**
   **TRS phone type plug (balanced)**

4. [Hi-Z] button
   Determines the impedance of the INPUT 1L jack.
   You can select high impedance (Hi-Z) or low impedance (Lo-Z) as appropriate for the connected equipment.

<table>
<thead>
<tr>
<th>[Hi-Z] button</th>
<th>Equipment connected to the INPUT 1L jack</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lit (Hi-Z)</td>
<td>Guitar or bass</td>
</tr>
<tr>
<td>Unlit (Lo-Z)</td>
<td>Other equipment (such as synthesizers)</td>
</tr>
</tbody>
</table>

   **[48V] button**
   Determines whether the Rubix24 supplies phantom power to the XLR connectors of the INPUT (1L, 2R) jacks.

<table>
<thead>
<tr>
<th>[48V] button</th>
<th>Connected equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lit</td>
<td>Condenser microphone that requires phantom power</td>
</tr>
<tr>
<td></td>
<td>* Phantom power supplied by this unit: DC 48 V; maximum 6 mA. (current value per channel)</td>
</tr>
<tr>
<td>Unlit</td>
<td>Other equipment</td>
</tr>
</tbody>
</table>

   **NOTE**
   - You must leave the [48V] button set to “OFF” unless condenser microphones requiring phantom power are connected to the XLR connectors. Supplying phantom power to a dynamic microphone or to an audio playback device may damage the equipment. For details on the requirements of your microphone, refer to its owner’s manual.
   - Minimize the volume before you turn phantom power on or off. Even if the volume is minimized, turning phantom power on/off might make a sound, but this is not a malfunction.

**MEMO**
- Set the [Hi-Z] button (p. 4) and [48V] button (p. 4) as appropriate for the audio device that is connected.
- Use a microphone with an XLR connector. The sound level will be very low if you use a microphone with a phone type plug.
- When connecting a guitar or bass, use the INPUT 1L jack. The sound level will be very low if you connect directly to the INPUT 2R jack.

- To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections.
- Pin assignment of INPUT connector/jack

1: GND (SLEEVE)  
2: HOT (TIP)  
3: COLD (RING)
6 Reduction indicator
If the [COMP/LIMIT] button is turned on, this indicator is lit red when the audio input signal exceeds the level specified by the [THRS] knob.

7 [THRS] knob
Specifies the level at which the compressor or limiter will begin operating. As you turn this knob toward the right, the compressor or limiter will be applied more deeply, producing a thicker sound.

8 [COMP/LIMIT] button
Turns the compressor/limiter on/off.

9 [DIRECT MONITOR] knob
Adjusts the balance of the audio signal that is output to the PHONES jack and the OUTPUT (1L, 2R) jacks.

10 [MONO] button
If this is turned on, the audio signal that is input to the INPUT (1L, 2R) jacks is monitored in mono.

11 Power indicator
Indicates the status of the connection with a USB device.

<table>
<thead>
<tr>
<th>Power indicator</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lit</td>
<td>Connected to a computer or iPad.</td>
</tr>
<tr>
<td>Unlit</td>
<td>Not connected to a computer or iPad.</td>
</tr>
</tbody>
</table>

12 [OUTPUT] knob
Adjusts the output level of the audio signal.

MEMO
Adjusting the [OUTPUT] knob does not change the volume that is output to the PHONES jack or the OUTPUT (3L, 4R) jacks.

13 (Headphone) knob
Adjusts the output level of the (Headphone) jack.

14 (Headphone) jack
Used to connect headphones. The audio signal selected by the [PHONES SOURCE] switch is output.

MEMO
Even if headphones are connected, sound will be output from the OUTPUT (1L, 2R) and OUTPUT (3L, 4R) jacks.

If you’re using soft monitoring on your DAW, set this to “PLAYBACK.”

MEMO
Sometimes you might hear noise when turning this knob, but this is not a malfunction.

Even if a guitar or microphone is connected to the INPUT 1L jack and nothing is connected to the INPUT 2R jack, set the [MONO] button to “ON.”

Even when set to “MONO,” a stereo audio signal is output from the Rubix24’s USB port.
Panel Descriptions

Rear Panel

1 **5V DC connector**
Connect this to a commercially available USB AC adaptor.

**About the USB AC adaptor**
Read the section on “Using the Unit Safely” in the manual included with your USB AC adaptor. Use a USB AC adaptor that meets the following specifications.
- USB micro-B type
- Output voltage: 4.8–5.2 V
- Output current: 1 A or higher

We have verified that the Rubix operates with typical USB AC adaptors that meet the above conditions, but cannot guarantee that it will work with all adaptors that meet these conditions.
Be aware that even under identical conditions, differences in the design specifications of a USB AC adaptor and differences in the conditions of use might make the Rubix operate or perform differently.

2 **[POWER SOURCE] switch**
Selects the connector from which power is obtained.

<table>
<thead>
<tr>
<th>Switch position</th>
<th>Connector from which power is obtained</th>
</tr>
</thead>
<tbody>
<tr>
<td>5V DC</td>
<td>SV DC connector (A commercially available USB adaptor is required.)</td>
</tr>
<tr>
<td>USB</td>
<td>USB port (Power is supplied from the connected computer.)</td>
</tr>
</tbody>
</table>

3 **USB port (.connector)**
Connects to the computer.

4 **MIDI (OUT, IN) connectors**
Connect the MIDI OUT connector to an external MIDI sound module, etc.
Connect the MIDI IN connector to a MIDI keyboard or MIDI controller.

5 **OUTPUT (1L, 2R, 3L, 4R) jacks (balanced TRS type)**
Output the analog audio signal.

**MEMO**
- Pin assignment of OUTPUT jack
  - GND (SLEEVE)
  - HOT (TIP)
  - COLD (RING)
- The wiring of this device uses “impedance balancing.” The audio signal is conveyed via HOT and GND in unbalanced form, but since COLD and GND are connected by a resistor, the electrical circuit is balanced. This provides the same noise-reducing effect as a balanced circuit.

6 **[GROUND LIFT] switch**
Normally, this switch should be set to “NOR” (NORMAL).
If ground loop noise occurs, switching this to “LIFT” might eliminate the noise.

**MEMO**
- The GND (SLEEVE) of the OUTPUT (1L, 2R, 3L, 4R) jacks (TRS balanced type) is disconnected from ground.
- In some cases, there might be no sound if you connect a balanced cable to an unbalanced device and set this switch to the “LIFT” position. If so, set the switch to “NOR.”

7 **[LOOPBACK] switch**
If this is turned on, the audio signal that is input to the INPUT (1L, 2R) jacks is mixed with the audio signal played back from the computer, and this mixed signal is then sent back (returned) to the computer. You can use this for live broadcasting to the internet.

**MEMO**
- If you intend to turn the [LOOPBACK] switch on, you should turn off your DAW software’s monitor function and the monitoring function of Windows. Failing to do this will cause oscillation (feedback) or doubling of the input sound.

8 **[COMP/LIMIT TYPE] switch**
Switches the response of the built-in compressor/limiter circuit (p. 19).

9 **[PHONES SOURCE] switch**
Selects the audio signal that is monitored in headphones.

<table>
<thead>
<tr>
<th>Switch position</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>Monitor the output of OUTPUT (1L, 2R).</td>
</tr>
<tr>
<td>3/4</td>
<td>Monitor the output of OUTPUT (3L, 4R).</td>
</tr>
</tbody>
</table>
Front Panel

The following explanation and illustration covers the INPUT (1L, 2R) jack section. The Rubix44 additionally has INPUT (3L, 4R) jacks with placement and functionality that are equivalent to the INPUT (1L, 2R) jacks. This explanation applies in the same way to the INPUT (3L, 4R) jack section.

1. **[SENS 1L] knob, [SENS 2R] knob**
   Adjust the volume of the audio signal that is input via the INPUT (1L, 2R) jacks.

2. **Level indicator**
   The indicator is lit green if an audio signal greater than -24 dB (*) is being input to the INPUT (1L, 2R) jacks. If the input level is -3 dB (*) or higher, the indicator is lit red. If the indicator is lit red, use the [SENS 1L] knob and [SENS 2R] knob to adjust the input level.
   *
   The level relative to the maximum allowable input (0 dB)

3. **INPUT (1L, 2R) connectors (combo jacks)**
   These are analog audio input jacks with microphone preamps. They accommodate both XLR connectors and 1/4-inch phone type jacks, and support both balanced and unbalanced connections.

4. **[Hi-Z] button**
   Determines the impedance of the INPUT 1L jack.
   You can select high impedance (Hi-Z) or low impedance (Lo-Z) as appropriate for the connected equipment.

<table>
<thead>
<tr>
<th>[Hi-Z] button</th>
<th>Equipment connected to the INPUT 1L jack</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lit (Hi-Z)</td>
<td>Guitar or bass</td>
</tr>
<tr>
<td>Unlit (Lo-Z)</td>
<td>Other equipment (such as synthesizers)</td>
</tr>
</tbody>
</table>

5. **[48V] button**
   Determines whether the Rubix44 supplies phantom power to the XLR connectors of the INPUT (1L, 2R) jacks.

<table>
<thead>
<tr>
<th>[48V] button</th>
<th>Connected equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lit</td>
<td>Condenser microphone that requires phantom power</td>
</tr>
<tr>
<td></td>
<td>* Phantom power supplied by this unit: DC 48 V; maximum 6 mA. (current value per channel)</td>
</tr>
<tr>
<td>Unlit</td>
<td>Other equipment</td>
</tr>
</tbody>
</table>

**NOTE**
- You must leave the [48V] button set to “OFF” unless condenser microphones requiring phantom power are connected to the XLR connectors. Supplying phantom power to a dynamic microphone or to an audio playback device may damage the equipment. For details on the requirements of your microphone, refer to its owner’s manual.
- Minimize the volume before you turn phantom power on or off. Even if the volume is minimized, turning phantom power on/off might make a sound, but this is not a malfunction.

6. **Reduction indicator**
   If the [COMP/LIMIT] button is turned on, this indicator is lit red when the audio input signal exceeds the level specified by the [THRS] knob.

7. **[THRS] knob**
   Specifies the level at which the compressor or limiter will begin operating. As you turn this knob toward the right, the compressor or limiter will be applied more deeply, producing a thicker sound.

8. **[COMP/LIMIT] button**
   Turns the compressor/limiter on/off.

**MEMO**
- Set the [Hi-Z] button (p. 7) and [48V] button (p. 7) as appropriate for the audio device that is connected.
- Use a microphone with an XLR connector. The sound level will be very low if you use a microphone with a phone type plug.
- When connecting a guitar or bass, use the INPUT 1L or INPUT 3L jack. The sound level will be very low if you connect directly to the INPUT 2R or INPUT 4R jack.

**PIN ASSIGNMENT**

1: GND
2: HOT
3: COLD

**INPUT (1L, 2R) Connectors**

<table>
<thead>
<tr>
<th>INPUT (1L, 2R) Connectors</th>
<th>Input Sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLR connector</td>
<td>-60 – -12dBu</td>
</tr>
<tr>
<td>Phone type plug</td>
<td>-44 – +4dBu</td>
</tr>
</tbody>
</table>

**MEMO**
- To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections.
- Pin assignment of INPUT connector/jack

1: GND
2: HOT
3: COLD
**Panel Descriptions**

**9 DIRECT MONITOR [1/2], [3/4] knobs**
Adjust the balance at which the audio signals that are input to the INPUT (1L, 2R) jacks and INPUT (3L, 4R) jacks are output to OUTPUT (1L, 2R).
When using soft monitoring on your DAW, turn these knobs all the way to the left.

**Output balance**

**MEMO**
Sometimes you might hear noise when turning this knob, but this is not a malfunction.

**10 [MONO] button**
If this is turned on, the audio signal that is input to the INPUT (1L, 2R) jacks (or INPUT (3L, 4R) jacks) is monitored in mono.

**MEMO**
- When a guitar or microphone is connected to the INPUT 1L jack and nothing is connected to the INPUT 2R jack, set the [MONO] button to "ON."
- Even when set to "MONO," a stereo audio signal is output from the Rubix44’s USB port.

**11 Power indicator**
Indicates the status of the connection with a USB device.

<table>
<thead>
<tr>
<th>Power indicator</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lit</td>
<td>Connected to a computer or iPad.</td>
</tr>
<tr>
<td>Unlit</td>
<td>Not connected to a computer or iPad.</td>
</tr>
<tr>
<td>Rapid blinking</td>
<td>The power will soon be turned off automatically by the auto power off function.</td>
</tr>
</tbody>
</table>

**MEMO**
This unit automatically powers-off in the following conditions (Auto Off function).
- The unit is not connected to a computer or tablet
- There has been no audio input for 10 hours

Five minutes before the power turns off automatically, the power indicator blinks rapidly. After the unit switches off, turn the power on if you want to use the Rubix44 again.

**12 [OUTPUT] knob**
Adjusts the output level of the audio signal.

**MEMO**
Adjusting the [OUTPUT] knob does not change the volume that is output to the [ headphone] jack or the OUTPUT (3L, 4R) jacks.

**13 [ headphone] (Headphone) knob**
Adjusts the output level of the [ headphone] jack.

**14 [ headphone] (Headphone) jack**
Used to connect headphones.
The audio signal selected by the [PHONES SOURCE] switch is output.

**MEMO**
Even if headphones are connected, sound will be output from the OUTPUT (1L, 2R) jacks.
Panel Descriptions

Rear Panel

1 DC IN jack
Connect the included AC adaptor here.

2 Ground terminal
Depending on the circumstances of a particular setup, you may experience a discomforting sensation, or perceive that the surface feels gritty to the touch when you touch this device, microphones connected to it, or the metal portions of other objects, such as guitars. This is due to an infinitesimal electrical charge, which is absolutely harmless. However, if you are concerned about this, connect the ground terminal with an external ground. When the unit is grounded, a slight hum may occur, depending on the particulars of your installation. If you are unsure of the connection method, contact the nearest Roland Service Center, or an authorized Roland distributor, as listed on the “Information” page.

* Unsuitable places for connection
• Water pipes (may result in shock or electrocution)
• Gas pipes (may result in fire or explosion)
• Telephone-line ground or lightning rod (may be dangerous in the event of lightning)

3 [POWER] switch
Turns the power of the Rubix on/off.

Concerning the Auto Off function
This unit automatically powers-off in the following conditions (Auto Off function).
• The unit is not connected to a computer or tablet
• There has been no audio input for 10 hours
If you don't want the unit to power-off automatically, connect it to a computer or tablet.

4 USB port ()
Connects to the computer.
MEMO
The Rubix44 cannot be powered via its USB port (it will not operate).

5 MIDI (OUT, IN) connectors
Connect the MIDI OUT connector to an external MIDI sound module, etc.
Connect the MIDI IN connector to a MIDI keyboard or MIDI controller.

6 OUTPUT (1L, 2R, 3L, 4R) jacks (balanced TRS type)
Output the analog audio signal.
MEMO
• Pin assignment of OUTPUT jack
  GND (SLEEVE)
  HOT (TIP)
  COLD (RING)
• The wiring of this device uses “impedance balancing.” The audio signal is conveyed via HOT and GND in unbalanced form, but since COLD and GND are connected by a resistor, the electrical circuit is balanced. This provides the same noise-reducing effect as a balanced circuit.

7 [GROUND LIFT] switch
Normally, this switch should be set to “NOR” (NORMAL).
If ground loop noise occurs, switching this to “LIFT” might eliminate the noise.
MEMO
• The GND (SLEEVE) of the OUTPUT (1L, 2R, 3L, 4R) jacks (TRS balanced type) is disconnected from ground.
• In some cases, there might be no sound if you connect a balanced cable to an unbalanced device and set this switch to the “LIFT” position. If so, set the switch to “NOR.”

8 [PHONES SOURCE] switch
Selects the audio signal that is monitored in headphones.

<table>
<thead>
<tr>
<th>Switch position</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>Monitor the output of OUTPUT (1L, 2R).</td>
</tr>
<tr>
<td>3/4</td>
<td>Monitor the output of OUTPUT (3L, 4R).</td>
</tr>
</tbody>
</table>

9 [LOOPBACK] switch
If this is turned on, the audio signal that is input to the INPUT (1L, 2R) jacks and INPUT (3L, 4R) jacks is mixed with the audio signal played back from the computer, and this mixed signal is then sent back (returned) to the computer. You can use this for live broadcasting to the internet.
MEMO
If you intend to turn the [LOOPBACK] switch on, you should turn off your DAW software’s monitor function and the monitoring function of Windows. Failing to do this will cause oscillation (feedback) or doubling of the input sound.

10 [COMP/LIMIT TYPE] switch
Switches the response of the built-in compressor/limiter circuit (p. 19).
Getting Ready to Use the Rubix

Connecting to a Windows 10 Computer

If you’re using Windows 10, access the following URL to check the latest information.

http://roland.cm/rubix/

Connecting to a Windows 8.1 / Windows 8 / Windows 7 Computer

If you’re using this product with Windows 8.1, Windows 8, or Windows 7, install the driver.

In order to use this product, you must download and install the driver. For details on installation, refer to "Installing the USB Driver (Before Using the Product for the First Time)" (p. 10) and "Connecting to a Computer" (p. 11).

NOTE
Install the driver before connecting this product to your computer. If you’ve already connected this product to your computer, temporarily disconnect it before you proceed.

Installing the USB Driver (Before Using the Product for the First Time)

1. With the Rubix22 / Rubix24 / Rubix44 not connected, start up your computer.

2. Download the USB driver from the Roland website, and begin the installation as directed below.

   Roland Website
   http://roland.cm/rubix/

   1. Download the latest USB driver.

   2. Doubleclick this.

   "rubix_wind_v***.exe" file
   *** indicates the version number.

3. Follow the on-screen directions to install the USB driver.

   NOTE
   Don’t connect the Rubix22 / Rubix24 / Rubix44 to your computer until USB driver installation has ended.

   MEMO
   • If a Windows security dialog box appears, click the [Install] button.
   • If an “Install software” dialog box appears, click the [Continue] button.
   • If any other message appears, proceed as directed by the message.

4. As described in “Connecting to a Computer” (p. 11), connect the Rubix22 / Rubix24 / Rubix44 to your computer.
**Connecting to a Computer**

After you have finished installing the USB driver in your computer, connect the product to your computer as follows.

* To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections.

* Once everything is properly connected, be sure to follow the procedure below to turn on their power. If you turn on equipment in the wrong order, you risk causing malfunction or equipment failure.

**MEMO**

After you install the USB driver and connect the Rubix22 / Rubix24 / Rubix44 to your computer for the first time, it might take several minutes before the Rubix is ready to use.

**Rubix22 / Rubix24 users**

* The illustration shows the Rubix22

1. Set the [POWER SOURCE] switch to the USB port side.

2. Connect the USB cable.

**Rubix44 users**

1. Connect the AC adaptor.

   Place the AC adaptor so the side with the indicator (see illustration) faces upwards and the side with textual information faces downwards. The indicator will light when you plug the AC adaptor into an AC outlet.

2. Turn the [POWER] switch “ON.”

3. Connect the USB cable.

**Connecting to a Mac**

* To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections.

* Once everything is properly connected, be sure to follow the procedure below to turn on their power. If you turn on equipment in the wrong order, you risk causing malfunction or equipment failure.

If you're using a Mac, you don't need to install a USB driver.

**Rubix22 / Rubix24 users**

* The illustration shows the Rubix22

1. Set the [POWER SOURCE] switch to the USB port side.

2. Connect the USB cable.

**Rubix44 users**

1. Connect the AC adaptor.

   Place the AC adaptor so the side with the indicator (see illustration) faces upwards and the side with textual information faces downwards. The indicator will light when you plug the AC adaptor into an AC outlet.

2. Turn the [POWER] switch “ON.”

3. Connect the USB cable.
Connecting to an iPad

* To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections.
* Once everything is properly connected, be sure to follow the procedure below to turn on their power. If you turn on equipment in the wrong order, you risk causing malfunction or equipment failure.

If you're using an iPad, you don't need to install a USB driver.

Rubix22 / Rubix24 users
* The illustration shows the Rubix22

1. Connect the USB AC adaptor (or mobile battery) using a USB micro-B type ↔ A type cable (all commercially available items).
2. Set the [POWER SOURCE] switch to the 5V DC connector side.
3. Connect the USB cable.

Rubix44 users

1. Connect the AC adaptor. Place the AC adaptor so the side with the indicator (see illustration) faces upwards and the side with textual information faces downwards. The indicator will light when you plug the AC adaptor into an AC outlet.
2. Turn the [POWER] switch “ON.”
3. Connect the USB cable.

Uninstalling the Driver (Windows Only)

1. With all USB devices disconnected except for a keyboard and mouse, start Windows. Also disconnect the Rubix’s USB cable.
2. Exit all applications before you uninstall. Wait approximately ten seconds for the applications to exit completely.
3. If you’re using Windows 10, right-click the [Start] button → click “Apps and Features.” If you’re using Windows 7/8/8.1, click the [Start] button → “Control Panel” → “Uninstall a Program.”

If “icon view” is selected for the control panel, click “Programs and Functions.”

4. In the list, click “Roland USB Audio Driver for Rubix Series,” and then click “Uninstall.” If you don’t see “Roland USB Audio Driver for Rubix Series” in the list, the driver is not installed on your computer.
5. If a user account control dialog box appears, click [Yes]. If you are asked to enter a password for an administrator account, log on to Windows as a user whose account type is “administrator,” and make the settings again.
6. Follow the directions in the screen to uninstall the USB driver.

If any other message appears, proceed as directed by the message.
About the USB Driver

Windows Operating Requirements

Supported Operating Systems

Microsoft® Windows® 7 / 8 / 8.1 / 10 (64-bit / 32-bit)
* The driver does not work on Windows RT.

Supported Computers

A Windows compatible computer equipped with a USB port
* We recommend a chipset made by Intel.
* Intel Core2 processor 1.6 GHz or faster, RAM 1.0 GB or more
* Performance might be unsatisfactory if this unit is used with a USB 2.0 interface card.
* This unit cannot be used with a USB 3.0 port that is not compatible with USB 2.0.
* If the unit does not operate correctly when connected to a USB 3.0 port, you’ll need to connect it to a USB 2.0 port.
* Even if the unit is connected to a USB 3.0 port, the performance of the unit itself will not change.
* This unit cannot be used in a virtual Windows environment such as VMware or VirtualBox.
* Mac computers running Windows are not supported.

Limitations and Cautions

• Depending on the performance and design specifications of the computer you’re using, and on the applications you’re using and how you’re using them, clicks and pops might occur in the sound.
• If you start your computer with a powered-on Rubix already connected to the computer, the driver might not be loaded correctly, making it impossible to use the Rubix. If this occurs, try the following.
  • Reconnect the Rubix to a different USB port
  • Power-on the Rubix after the computer has started
  • Disconnect and reconnect the USB cable
• Sometimes the Rubix might not operate correctly after returning from a sleep state. If this occurs, try the following.
  • Exit all the applications you’re using, and power-cycle the Rubix
  • Disconnect and reconnect the USB cable
• If you disconnect and reconnect the USB cable while using the Rubix, or power-cycle the Rubix, it might stop operating correctly. If this occurs, try the following.
  • Exit all the applications you’re using, and power-cycle the Rubix
  • Disconnect and reconnect the USB cable
• If a high processing load occurs while using the Rubix, such as accessing a CD-ROM drive or the network, it might not operate correctly. If this occurs, try the following.
  • Stop playback/recording, and then resume playback/recording
  • Exit all the applications you’re using, and power-cycle the Rubix
  • Disconnect and reconnect the USB cable
• If you connect or disconnect another USB device (such as a USB flash drive) while using the Rubix, or turn the power of another USB device on or off, clicks or pops might occur during playback or recording.

Mac OS Operating Requirements

Supported Operating Systems

OS X v10.12 / v10.11 / v10.10
* Check the operating requirements of your audio/MIDI application as well as the operating requirements for your operating system.

Supported Computers

Apple Mac series computer equipped with a USB port
* Even if the unit is connected to a USB 3.0 port, the performance of the unit itself will not change.
* Mac computers running Windows are not supported.

Limitations and Cautions

• Connect the Rubix to your computer with a USB cable before starting your sequencer software, etc.
• Don’t power-off the Rubix or disconnect the USB cable during playback/recording. Doing so might cause the software or operating system to shut down abnormally.
• Exit your sequencer software etc. before you power-off the Rubix or disconnect the USB cable.
• Before updating the operating system software, disconnect the USB cable from the Rubix.
• If the Rubix does not operate correctly after returning from sleep or after restarting the operating system, try the following.
  • Exit all the applications you’re using, and power-cycle the Rubix
  • Disconnect and reconnect the USB cable

iPad Operating Requirements

Supported Operating Systems

iOS 9.0 or later

Limitations and Cautions

• Connect the Rubix to your iPad with a USB cable before starting your sequencer software, etc.
• Don’t power-off the Rubix or disconnect the USB cable during playback/recording. Doing so might cause the software or operating system to shut down abnormally.
• Exit your sequencer software etc. before you power-off the Rubix or disconnect the USB cable.
• Before updating the iOS software, disconnect the USB cable from the Rubix.
• If the Rubix does not operate correctly after restarting iOS, try the following.
  • Exit all the applications you’re using, and power-cycle the Rubix
  • Disconnect and reconnect the USB cable
Settings for the Rubix

Input / Output Device Settings

In the DAW application that you’re using, make settings for playing and recording audio and MIDI. For details on how to make these settings, refer to the owner’s manual of your DAW application.

<table>
<thead>
<tr>
<th>Audio Driver</th>
<th>Audio Input Device / Audio Output Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>MME, WDM/KS</td>
<td>IN (Roland Rubix22) / OUT (Roland Rubix22) (*1)</td>
</tr>
<tr>
<td>ASIO</td>
<td>Roland Rubix</td>
</tr>
</tbody>
</table>

(*1) Select the model of Rubix that you’re using.

MEMO

The Rubix22 / Rubix24 / Rubix44 support sample rates of 44.1 kHz, 48 kHz, 96 kHz, and 192 kHz.

| MIDI Input Device / MIDI Output Device | Roland Rubix22 (*2) |

(*2) Select the model of Rubix that you’re using.

Check Whether You Hear Sound

1. As shown in the illustration, connect your headphones or amplified speakers.

2. If you’re using the Rubix24, turn the [DIRECT MONITOR] knob all the way to the left.

3. Open “Control Panel,” click the [Hardware and Sound] icon, and then click the [Sound] icon.
   If you’re using the icon view or the classic view, double-click the [Sound] icon.

4. Right-click Rubix22 / Rubix24 / Rubix44, and then click [Test] to check the sound.

Mac OS

3. Open “System Preferences,” and click the [Sound] icon.

4. [Output] tab ➔ From “Select a device for sound output,” click Rubix22 / Rubix24 / Rubix44.

5. [Sound Effects] tab ➔ Set the “Play sound effects through” to the “Selected sound output device.”

6. Click the [Alert volume] slider and check the volume.

OS Settings

Windows

1. Open “Control Panel,” click the [Hardware and Sound] icon, and then click the [Sound] icon.
   If you’re using the icon view or the classic view, double-click the [Sound] icon.

2. Click the [Playback] tab, choose Rubix22 / Rubix24 / Rubix44 [OUT], and click the [Set as default] button.

3. Click the [OK] button.

Mac OS

1. Open “System Preferences,” and click the [Sound] icon.

2. Click the [Output] tab, and select [Rubix22] (*3).
   (*3) Select the model of Rubix that you’re using.

3. When you have finished making settings, close “System Preferences.”
Setting the Size of the Audio Buffer  
(Windows Only)

Use the control panel to set the size of the audio buffer.

How audio buffer size is related to latency

When audio data is transferred between the computer and the Rubix, the audio data is temporarily accumulated in the audio buffer (a type of memory). This allows audio data to be transferred smoothly without dropouts.

You can use the “USB buffer” setting to change the size of the audio buffer. Increasing the size makes data transfer more stable, but has the disadvantage of delaying the sound (“latency”).

The ideal setting is the setting with the minimum delay that allows stable transfer of audio data.

1. Access the control panel as follows.

   1. Click the [Start] button.
   2. Click [Rubix Control Panel].

   The control panel appears.

2. Click the [Buffer Settings] tab.

   The buffer setting screen appears.
3. In “USB Streaming Mode,” select the most appropriate setting.
Select the setting with the shortest delay that still allows stable audio playback.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Stability</th>
<th>Latency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Low</td>
<td>Short (fast)</td>
</tr>
<tr>
<td>7</td>
<td>High</td>
<td>Long (slow)</td>
</tr>
</tbody>
</table>

**MEMO**

Refer to “How audio buffer size is related to latency” (p. 16), and choose the appropriate setting.
**Using the Rubix**

**Playing Back**

Connect the Rubix to a computer or iPad using the USB cable. By connecting headphones or amplified speakers as shown in the illustration, you can monitor playback from your DAW software or the sound from an instrument or audio device connected to the Rubix.

* To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections.

**Recording**

Audio signals from the INPUT jacks can be sent to your DAW software and recorded.

* To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections.

---

**For details on connecting the Rubix to your computer or iPad, refer to “Getting Ready to Use the Rubix” (p. 10)***

---

**Adjusting the Input Level**

Use the [SENS 1L] knob and [SENS 2R] knob (on the Rubix44, the [SENS 1L] knob – [SENS 4R] knob) to adjust the input level so that the level indicator does not light red.
Using the Compressor/Limiter

The Rubix24 and Rubix44 let you use a compressor or limiter.

Compressor/Limiter Settings

Using a compressor makes the volume more consistent. Turning the [THRS] knob toward the right applies the compressor more strongly, and simultaneously raises the makeup gain (boosts the output level).

Using a limiter suppresses excessive volume.

Use the Rubix24 or Rubix44’s [COMP/LIMIT TYPE] switch (rear panel) to change this setting.

<table>
<thead>
<tr>
<th>[COMP/LIMIT TYPE] switch</th>
<th>Explanation</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP1</td>
<td>When the input signal exceeds the level specified by the [THRS] knob, the level is restrained at a fixed proportion. This setting is suitable for instruments, such as percussion or guitar.</td>
<td>![Diagram of COMP1 response]</td>
</tr>
<tr>
<td>COMP2</td>
<td>This compressor has a shorter attack time than COMP1, making it suitable for vocals (the effect applies more rapidly than COMP1).</td>
<td>![Diagram of COMP2 response]</td>
</tr>
<tr>
<td>LIMIT</td>
<td>This is a limiter. It prevents clipping (distortion) from occurring when an unexpectedly loud signal is input. Signals that exceed the level specified by the [THRS] knob are limited. * Clipping distortion will occur if the input exceeds the capacity of the limiter.</td>
<td>![Diagram of LIMIT response]</td>
</tr>
</tbody>
</table>

* The illustration shows the Rubix44
## Troubleshooting

### Problems When Installing the USB Driver (Windows Users)

<table>
<thead>
<tr>
<th>Problem</th>
<th>Items to check</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Can’t download the driver because there’s no internet connection</td>
<td>If you have a different computer that is able to connect to the internet, you can save the downloaded driver on a USB flash drive and use that to install.</td>
<td></td>
</tr>
<tr>
<td>A warning or error appears during installation</td>
<td>In the “Device Manager,” do you see “Other device,” “Unknown device,” or a device for which “?” “!” or “x” is displayed?</td>
<td>Reinstall the USB driver (p. 10).</td>
</tr>
<tr>
<td>Installation does not finish</td>
<td>Are you logged on with a user account that does not have administrator privileges?</td>
<td>Log on to the computer with a user account that has administrator privileges. For details, consult the administrator for your computer system.</td>
</tr>
<tr>
<td>The USB driver does not install</td>
<td>Are other programs or resident programs (such as antivirus programs) running?</td>
<td>Be sure to exit all other programs before installation.</td>
</tr>
<tr>
<td>Can’t uninstall</td>
<td>Is the Rubix connected to a bus-powered USB hub?</td>
<td>Use a USB hub that connects to a power supply.</td>
</tr>
</tbody>
</table>

### Problems When Using the Rubix

<table>
<thead>
<tr>
<th>Problem</th>
<th>Items to check</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>I cannot select or use the Rubix device</td>
<td>Is the Rubix’s power indicator off or flash?</td>
<td>Make sure that the Rubix is connected to the computer correctly. If that does not resolve the issue, reinstall the USB driver (p. 10).</td>
</tr>
<tr>
<td></td>
<td>Is the Rubix’s device name displayed?</td>
<td>Exit all software that’s using the Rubix, and then try the following. • Reconnect the USB cable • Power-cycle the Rubix</td>
</tr>
<tr>
<td></td>
<td>Are another program using the Rubix?</td>
<td>Exit all software that’s using the Rubix, and then try the following. • Reconnect the USB cable • Power-cycle the Rubix</td>
</tr>
<tr>
<td></td>
<td>Did the computer enter standby (suspend) mode, hibernate mode, or sleep mode while the Rubix was connected?</td>
<td>If that does not resolve the issue, reinstall the USB driver (p. 10).</td>
</tr>
<tr>
<td></td>
<td>Did you disconnect and reconnect the USB cable or turn off the power of the Rubix while using the Rubix?</td>
<td>Connect the Rubix after the computer has started up. With some computers, the Rubix cannot be used if it is connected to the computer while the computer is starting up.</td>
</tr>
<tr>
<td></td>
<td>Was the Rubix connected to the computer while the computer was starting up?</td>
<td>MIDI devices cannot be selected in Media Player. Use different software.</td>
</tr>
<tr>
<td>Windows</td>
<td>Are you using the Media Player included with Windows?</td>
<td>Connect the Rubix after the computer has started up. With some computers, the Rubix cannot be used if it is connected to the computer while the computer is starting up.</td>
</tr>
<tr>
<td></td>
<td>Could two or more Rubix units be connected to a single computer?</td>
<td>You can’t use two or more Rubix units with a single computer. Use one Rubix unit.</td>
</tr>
<tr>
<td>No sound is heard from the computer’s speakers</td>
<td>This is not a malfunction.</td>
<td>When using the Rubix, no sound is heard from the computer’s speakers. Connect headphones or an audio playback system (external monitors) to the Rubix.</td>
</tr>
</tbody>
</table>
# Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Items to check</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>The sound played by the computer is inaudible or too quiet</strong></td>
<td><strong>Can you hear sound by connecting headphones?</strong></td>
<td>If you can hear sound through headphones connected to the PHONES jack, check that you have correctly connected your audio playback system (external monitors), and adjust the volume of your equipment. If the sound in your headphones is inaudible or too soft, check the other troubleshooting items.</td>
</tr>
<tr>
<td><strong>Is the [OUTPUT] knob of the Rubix turned down?</strong></td>
<td>Use the Rubix's [OUTPUT] knob to adjust the volume.</td>
<td></td>
</tr>
<tr>
<td><strong>Could the volume of the application you’re using be turned down?</strong></td>
<td>Raise the volume in the application.</td>
<td></td>
</tr>
</tbody>
</table>
| **Windows** | **Is the computer’s system volume setting turned down?** | Use the following procedure to adjust system volume.  
1. Open the “Control Panel” and set the display mode to “Category.”  
2. Click the [Hardware and Sound] icon, and then click the [Adjust system volume] icon.  
3. After the volume mixer appears, select the Rubix’s [OUT (Rubix22)] from the “Device” menu and adjust the volume. |
| **Windows** | **Are you using voice communication software?** | Use the following procedure to disable automatic volume adjustment.  
1. Open the “Control Panel,” click the [Hardware and Sound] icon, and then click the [Sound] icon. If you have selected Icon view, click the [Sound] icon.  
2. In the [Communications] tab, set “When Windows detects communications activity” to [Do nothing].  
3. Click the [OK] button to close the “Sound” window. |
| **My guitar is too quiet** | **Are you using the correct jack?** | Connect your guitar to the INPUT 1L (or INPUT 3L) jack (p. 2, p. 4, p. 7). |
| **Is the [Hi-Z] button set to “OFF”?** | Set the [Hi-Z] button to “ON” (p. 2, p. 4, p. 7). |
| **Is the input level too low?** | Use the [SENS 1L] knob (or [SENS 3L] knob) to adjust the input level (p. 2, p. 4, p. 7). |
| **Could you be using a connection cable that contains a resistor?** | Use a connection cable that does not contain a resistor. |
| **My microphone is too quiet** | **Are you using the correct jack?** | Connect your microphone with an XLR connector to the XLR connector (p. 2, p. 4, p. 7). The sound level will be very low if you use a microphone with a phone plug. |
| **Does the sensitivity of the microphone match the nominal input level of the Rubix?** | The Rubix’s microphone nominal input level is -60 dBu for the XLR connector, and -44 dBu for the TRS phone type jack. If the sensitivity of the microphone is low, the sound will be quiet. |
| **When a signal is input via either the INPUT 1L or INPUT 2R jack only, only one channel is recorded** | **Is the DAW software configured to record in stereo?** | Change the DAW software’s settings so that it records in mono. |
| **A device connected to one of the input jacks is distorting** | **Could the level indicator be lit red?** | Turn the SENS knobs toward the left to reduce the input level (p. 2, p. 4, p. 7). |
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Items to check</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound is interrupted during playback or recording</td>
<td>Are multiple programs running?</td>
<td>Exit programs that are not in use.</td>
</tr>
<tr>
<td></td>
<td>Did you adjust the software's audio buffer size?</td>
<td>If the software allows you to adjust the audio buffer size, change the buffer size. Refer to the documentation for your software.</td>
</tr>
<tr>
<td><strong>Windows</strong></td>
<td>Did you adjust the USB driver's audio buffer size?</td>
<td>Increase the size of the USB driver's audio buffer (p. 16).</td>
</tr>
<tr>
<td></td>
<td>Is the system software up to date?</td>
<td>Run Windows Update or Microsoft Update and make sure the system software is up to date.</td>
</tr>
<tr>
<td></td>
<td>Are the drivers for the computer's internal chipset and graphics card up to date?</td>
<td>Update to the latest drivers.</td>
</tr>
<tr>
<td></td>
<td>Are the drivers for the computer's LAN hardware (wired and wireless) up to date?</td>
<td>Install the latest LAN hardware drivers. If the problem is not resolved, disable the LAN.</td>
</tr>
<tr>
<td><strong>Windows</strong></td>
<td>Is the system performance settings be set to “Program”?</td>
<td>Use the following procedure to make “power option” settings in the control panel.</td>
</tr>
</tbody>
</table>
|  | Is the power management setting in Windows set to economy mode? | 1. Open “Control Panel,” click [System and Security] or [System and Maintenance], and then click [Power Options].
   If the control panel shows the icon view or classic view, click the [Power Options] icon.
   If you’re using Windows 10, click the [Start] button → click [All apps] → click [Windows System] → click [Control Panel].
2. In “Choose a Power Plan,” select [High Performance].
   If you don’t see the “High Performance” plan, click “Show Additional Plans.”
3. In high performance, click [Change Plan Settings].
4. Click [Change Detailed Power Settings].
5. In detailed settings, click [+] for “Hard Disk,” and then click [+] for “Power-Off Hard Disk When the Following Time Elapses:”
6. Click “Set.” Click the [▼] that appears, and set “Setting (Minutes):” to “None.”
7. Click [OK].
|  | Is the Rubix connected to a USB hub? | Connect the Rubix directly to one of the computer’s USB ports. |
|  | Are you using the included USB cable? | You must use the included USB cable. Some commercially available USB cables do not meet the requirements of the USB standard, and this may prevent the Rubix from operating correctly. |

**Note:** If the problem is not resolved, disable the LAN.
<table>
<thead>
<tr>
<th>Problem</th>
<th>Items to check</th>
<th>Action</th>
</tr>
</thead>
</table>
| **Sound is interrupted during playback or recording** | Is the monitoring function of Windows turned on? | Use the “Control Panel,” click the [Hardware and Sound] icon, and then click the [Sound] icon. If you have selected Icon view, click the [Sound].  
1. Open the “Control Panel,” click the [Hardware and Sound] icon, and then click the [Sound] icon.  
2. In the “Recording” area, click the Rubix’s [IN (Rubix)], and then click the [Properties] button.  
3. Open the “Listen” tab and clear the [Listen to this device] check box.  
4. Click the [OK] button to close the “Properties” window.  
5. Click the [OK] button to close the “Sound” window. |
| Did you try to play back or record immediately after the computer started up or after waking up from sleep mode? | Wait and try playing back or recording later. |
| Could you be using the internet (LAN)? | Clicks or pops might occur in the sound if you’re using the internet (LAN). Try disabling the LAN. |
| Could you have changed the sample rate? | Try the followings.  
• Increase the driver’s buffer size (Windows)  
• Increase the DAW application’s audio buffer size  
• Restart the DAW application |
| **Noise or distortion occurs elsewhere than in the playback from my computer** | Is a guitar connected? | Move as far away from the computer as possible. If the noise decreases when you lower your guitar’s volume, it may be that your guitar’s pickups are being affected by noise from your computer or display. |
| Could you have left an unused microphone or guitar connected? | Disconnect the unused microphone or guitar, and turn the each SENS knob fully to the left in order to lower the input level. |
| Could you have switched the DAW’s sample rate, or the sample rate for input and output of Windows sounds? | Before switching the sample rate, stop playback and minimize the volume. |
| Could the MIDI sound module and the Rubix be connected to your computer, and the output of the MIDI sound module be connected to the INPUT 1L or INPUT 2R jack of the Rubix? | Connect the MIDI sound module and the Rubix to a USB hub that connects to a power supply. |
| Have you connected the ground terminal? | You may be able to solve the problem by grounding a metal component of your computer or the ground pin of your computer’s AC adaptor. Also check whether there might be a device nearby that is emitting a strong electromagnetic field, such as a television or microwave oven. |
| **Recordings are too loud or too quiet** | Is the input level appropriate? | Use the SENS knobs to adjust the input level of the Rubix. If your software has an input level adjustment, check the input level setting. |
| Does the sensitivity of the microphone match the nominal input level of the Rubix? | The Rubix’s microphone nominal input level is -60 dBu for the XLR connector, and -44 dBu for the TRS phone type jack. If the sensitivity of the microphone is low, the sound will be soft. |
| **I cannot play back or record** | Are the software’s input device and output device configured? | Select the Rubix as the input and output device (p. 15). |
| Is the sample rate set correctly? | If the ASIO sample rate used by your DAW is different than the sample rate for input and output of Windows sounds, you might not hear any sound.  
Specify the same sample rate for your DAW and for Windows sounds.  
Also make sure that the sample rate for Windows sounds is the same for input and output. |
| Is the Rubix’s power indicator off or blink? | Make sure that the Rubix is connected to the computer correctly. If that does not resolve the issue, reinstall the USB driver (p. 10). |
| Could a heavy processing load be placed on the computer while you’re using the Rubix? | If a heavy processing load is being placed on the computer (such as by complex effect processing), the Rubix might stop working correctly.  
Temporarily stop playback/recording, and then resume playback/recording.  
Alternatively, exit software that you’re not using. |
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Items to check</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>I cannot play back or record</td>
<td>Could the volume of the application you're using be turned down?</td>
<td>Raise the volume in the application.</td>
</tr>
</tbody>
</table>
| Windows | Is the computer's system volume setting turned down? | Use the following procedure to adjust system volume.  
1. Open the “Control Panel” and set the display mode to “Category.”  
2. Click the [Hardware and Sound] icon, and then click the [Adjust system volume] icon.  
3. After the volume mixer appears, select the Rubix’s [OUT (Rubix22)] from the “Device” menu and adjust the volume. |
| Windows | Are you using voice communication software? | Use the following procedure to disable automatic volume adjustment.  
1. Open the “Control Panel,” click the [Hardware and Sound] icon, and then click the [Sound] icon.  
2. In the [Communications] tab, set “When Windows detects communications activity” to [Do nothing].  
3. Click the [OK] button to close the “Sound” window. |
| Windows | Is the size of the USB driver’s audio buffer too small? | Increase the size of the USB driver's audio buffer (p. 16). |
| I cannot play back or record 24-bit audio data | Does your software support 24-bit audio data? | Check whether your software supports playback and recording of 24-bit audio data. |
| Can't change the sample rate from the application | Is the software set correctly? | Make sure that your software is set to play and record 24-bit audio data. |
| | Are you playing back or recording? | Stop playback or recording, and then change the sample rate from your application. |
| | Could another application be using the Rubix? | Exit the other application, and then change the sample rate in the application that you want to use. |
| | Could the Windows sound control panel be open? | In some cases, it might not be possible to change the sample rate while the Windows sound control panel is open. Close the Windows sound control panel. |
Mac OS X MIDI Settings

Here’s how to configure the MIDI settings for Mac OS X.

1. In the Mac OS X Finder, open the [Applications] folder and then the [Utilities] folder, and then double-click [Audio MIDI Setup].

2. Click [Show MIDI Window] in the [Window] menu.

3. Confirm that [Rubix22] (or Rubix24, Rubix44) appears in the “MIDI Studio” window or the “Audio MIDI Setup” dialog box.
   If [Rubix22] (or Rubix24, Rubix44) does not appear or if it is grayed out, it means that the Rubix is not being detected properly.
   In this case, click the [Rescan MIDI] icon. Also, try turning the Rubix off and then on again.

4. Click the [Add Device] icon once.
   One [new external device] icon will appear.

5. Click the added [new external device] icon and then click the [Show Info] icon.

6. Enter “Rubix” in the [Device Name] field and then click the [Apply] button.

7. Using your mouse, drag and connect the [▼] [▲] buttons (which represent the input/output ports of each device) of the existing [Rubix22] and the newly added [Rubix] so that they are connected as shown in the figure.

8. Click the [Test Setup] icon.
   The [Test Setup] icon turns on (blue).
   MEMO
   If you have a sound module connected to the Rubix’s MIDI OUT connector, a fairly loud sound will be heard when you perform the next step. Reduce the volume of your sound module before continuing.

9. Click the Rubix22’s [▼] button.
   A confirmation sound is played from the sound module.

10. Click the [Test Setup] icon.
    The [Test Setup] icon turns off (gray).

11. Close the “MIDI Studio” window or the “Audio MIDI Setup” window.
# Specifications

**Roland Rubix22: USB Audio Interface**

## [System]

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
</table>
| Number of Audio Record/Playback Channels | Record: 2 channels  
Playback: 2 channels                                                     |
| Signal Processing            | PC interface: 24 bits  
AD/DA conversion: 24 bits                                               |
| Sample Rate                  | AD/DA conversion: 44.1 kHz, 48 kHz, 96 kHz, 192 kHz                  |
| Interface                    | Hi-Speed USB  
MIDI IN, OUT                                                           |
| Connectors                   | INPUT (1L, 2R) connectors: XLR type (balanced, phantom power: +48 V, 6 mA Max *1)  
INPUT (1L, 2R) jacks *2: 1/4-inch TRS phone type (balanced)  
PHONES jack: Stereo 1/4-inch phone type (impedance balanced)  
OUTPUT (1L, 2R) jacks: 1/4-inch TRS phone type (impedance balanced)  
MIDI (IN, OUT) connectors  
USB port: USB B type  
DC 5V port: USB Micro-B type |
| Controllers                  | SENS 1L, 2R knobs  
Hi-Z switch  
48V switch  
OUTPUT knob  
PHONES knob  
POWER SOURCE switch  
DIRECT MONITOR switch  
GROUND LIFT switch |
| Indicators                   | Level indicators (1L, 2R)  
POWER indicator  
Hi-Z indicator  
48V indicator |

## [Characteristics]

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
</table>
| Nominal Input Level          | INPUT (1L, 2R) connectors (XLR type): -60 to -12 dBu  
INPUT (1L, 2R) jacks (1/4-inch TRS phone type): -44 to +4 dBu |
| Maximum Input Level          | INPUT (1L, 2R) connectors (XLR type): +2 dBu  
INPUT (1L, 2R) jacks (1/4-inch TRS phone type): +18 dBu |
| Nominal Output Level         | OUTPUT (1L, 2R) jacks: -6 dBu (impedance balanced) |
| Maximum Output Level         | OUTPUT (1L, 2R) jacks: +8 dBu (impedance balanced) |
| PHONES Maximum Output Power  | 20 mW + 20 mW (L + R, 47 ohms load) |
| Headroom                    | 14 dB                                                                 |
| Input Impedance              | INPUT (1L, 2R) connectors (XLR type): 4 k ohms or greater (balanced)  
INPUT (1L, 2R) jacks (1/4-inch TRS phone type): 15 k ohms or greater (balanced)  
INPUT (1L) jack (1/4-inch phone type *3): 500 k ohms or greater  
*3 When the Hi-Z is turned on |
| Output Impedance             | OUTPUT (1L, 2R) jacks: 2 k ohms (balanced)  
PHONES jack: 47 ohms |
| Frequency Response           | 192.0 kHz: 20 Hz–60 kHz (+0/-2 dB), 20 Hz–90 kHz (+0/-10 dB)  
96.0 kHz: 20 Hz–40 kHz (+0/-2 dB)  
48.0 kHz: 20 Hz–22 kHz (+0/-2 dB)  
44.1 kHz: 20 Hz–20 kHz (+0/-2 dB) |
| Residual Noise Level         | INPUT (1L, 2R) → OUTPUT (1L, 2R): -94 dBu typ. (SENS 1L, SENS 2R knobs: min., input terminated with 600 ohms, IHF-A, typ.) |
| Dynamic Range                | AD block INPUT (1L, 2R) jacks: 104 dB typ. (SENS 1L, SENS 2R knobs: min.)  
DA block OUTPUT (1L, 2R) jacks: 109 dB typ. |

## [Other]

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>Supplied from the computer via USB, 5V DC</td>
</tr>
<tr>
<td>Current Draw</td>
<td>500 mA</td>
</tr>
</tbody>
</table>
| Operating System            | Microsoft(R) Windows(R) 7,  
Windows(R) 8, Windows(R) 8.1, Windows(R) 10  
Apple Mac OS X 10.10 or later  
Apple iOS 9 or later |
| Dimensions                  | 145 (W) x 165 (D) x 46 (H) mm  
5-3/4 (W) x 6-1/2 (D) x 1-13/16 (H) inches |
| Weight (main unit only)     | 1.0 kg  
2 lbs 4 oz |
| Accessories                 | Setup Guide  
Leaflet “USING THE UNIT SAFELY”  
USB cable  
Ableton Live Lite Serial Number Card |

* 0 dBu = 0.775 Vrms
## Specifications

### Roland Rubix24: USB Audio Interface

#### [System]

| **Number of Audio Record/Playback Channels** | Record: 2 channels  
Playback: 4 channels |
| **Signal Processing** | PC interface: 24 bits  
AD/DA conversion: 24 bits |
| **Sample Rate** | AD/DA conversion: 44.1 kHz, 48 kHz, 96 kHz, 192 kHz |
| **Interface** | Hi-Speed USB  
MIDI IN, OUT |
| **Connectors** | INPUT (1L, 2R) connectors: XLR type (balanced, phantom power: +48 V, 6 mA Max *1)  
INPUT (1L, 2R) jacks *2: 1/4-inch TRS phone type (balanced)  
PHONES jack: Stereo 1/4-inch TRS phone type  
OUTPUT (1L, 2R, 3L, 4R) jacks: 1/4-inch TRS phone type (impedance balanced)  
MIDI IN, OUT) connectors  
USB port: USB B type  
SV DC port: USB Micro-B type |
| **Controllers** | SENS 1L, 2R knobs  
Hi-Z switch  
48V switch  
THRS knob  
COMP/LIMIT switch  
DIRECT MONITOR knob  
MONO switch  
OUTPUT knob  
PHONES knob  
POWER SOURCE switch  
LOOPBACK switch  
COMP/LIMIT TYPE switch  
GROUND LIFT switch  
PHONES SOURCE switch |
| **Indicators** | Level indicators (1L, 2R)  
Reduction indicator  
POWER indicator  
Hi-Z indicator  
48V indicator  
COMP/LIMIT indicator  
MONO indicator |

#### [Characteristics]

| **Nominal Input Level** | INPUT (1L, 2R) connectors (XLR type): -60 -- -12 dBu  
INPUT (1L, 2R) jacks (1/4-inch TRS phone type): -44 -- +4 dBu |
| **Maximum Input Level** | INPUT (1L, 2R) connectors (XLR type): -4 dBu  
INPUT (1L, 2R) jacks (1/4-inch TRS phone type): +18 dBu |
| **Nominal Output Level** | OUTPUT (1L, 2R, 3L, 4R) jacks: -6 dBu (impedance balanced) |
| **Maximum Output Level** | OUTPUT (1L, 2R, 3L, 4R) jacks: +8 dBu (impedance balanced) |
| **PHONES Maximum Output Power** | 20 mW + 20 mW (L + R, 47 ohms load) |
| **Headroom** | 14 dB |
| **Input Impedance** | INPUT (1L, 2R) connectors (XLR type): 4 k ohms or greater (balanced)  
INPUT (1L, 2R) jacks (1/4-inch TRS phone type): 15 k ohms or greater (balanced)  
INPUT (1L) jack (1/4-inch phone type *3): 500 k ohms or greater |
| **Output Impedance** | OUTPUT (1L, 2R, 3L, 4R) jacks: 2 k ohms (balanced)  
PHONES jack: 47 ohms |
| **Frequency Response** | 192.0 kHz: 20 Hz–60 kHz (+0/-4 dB), 20 Hz–90 kHz (+0/-10 dB)  
96.0 kHz: 20 Hz–40 kHz (+0/-2 dB)  
48.0 kHz: 20 Hz–22 kHz (+0/-2 dB)  
44.1 kHz: 20 Hz–20 kHz (+0/-2 dB) |
| **Residual Noise Level** | INPUT (1L, 2R) connectors (XLR type): -94 dBu typ.  
SENS 1L, SENS 2R knobs: min., input terminated with 600 ohms, IHF-A, typ.) |
| **Dynamic Range** | AD block INPUT (1L, 2R) jacks: 104 dB typ. (SENS 1L, SENS 2R knobs: min.)  
DA block OUTPUT (1L, 2R, 3L, 4R) jacks: 109 dB typ. |

#### [Other]

| **Power Supply** | Supplied from the computer via USB, 5V DC |
| **Current Draw** | 500 mA |
| **Operating System** | Microsoft(R) Windows(R) 7,  
Windows(R) 8, Windows(R) 8.1, Windows(R) 10  
Apple Mac OS X 10.10 or later  
Apple iOS 9 or later |
| **Dimensions** | 183 (W) x 165 (D) x 46 (H) mm  
7-1/4 (W) x 6-1/2 (D) x 1-13/16 (H) inches |
| **Weight (main unit only)** | 1.2 kg  
2 lbs 11 oz |
| **Accessories** | Setup Guide  
Leaflet “USING THE UNIT SAFELY”  
USB cable  
Ableton Live Lite Serial Number Card |

* 0 dBu = 0.775 Vrms
### Specifications

#### [System]

<table>
<thead>
<tr>
<th>Number of Audio Record/Playback Channels</th>
<th>Record: 4 channels</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Playback: 4 channels</td>
</tr>
<tr>
<td>Signal Processing</td>
<td>PC interface: 24 bits</td>
</tr>
<tr>
<td></td>
<td>AD/DA conversion: 24 bits</td>
</tr>
<tr>
<td>Sample Rate</td>
<td>AD/DA conversion: 44.1 kHz, 48 kHz, 96 kHz, 192 kHz</td>
</tr>
<tr>
<td>Interface</td>
<td>Hi-Speed USB</td>
</tr>
<tr>
<td></td>
<td>MIDI IN, OUT</td>
</tr>
<tr>
<td>Connectors</td>
<td>INPUT (1L, 2R, 3L, 4R) connectors: XLR type (balanced, phantom power: +48 V, 6 mA Max *1)</td>
</tr>
<tr>
<td></td>
<td>INPUT (1L, 2R, 3L, 4R) jacks *2: 1/4-inch TRS phone type (balanced)</td>
</tr>
<tr>
<td></td>
<td>PHONES jack: Stereo 1/4-inch phone type</td>
</tr>
<tr>
<td></td>
<td>OUTPUT (1L, 2R, 3L, 4R) jacks: 1/4-inch TRS phone type (impedance balanced)</td>
</tr>
<tr>
<td></td>
<td>MIDI (IN, OUT) connectors</td>
</tr>
<tr>
<td></td>
<td>USB port: USB B type</td>
</tr>
<tr>
<td></td>
<td>DC IN jack</td>
</tr>
<tr>
<td>*1 Current value per channel.</td>
<td>*2 INPUT 1L, 3L support high impedance</td>
</tr>
</tbody>
</table>

#### [Controllers]

<table>
<thead>
<tr>
<th>SENS 1L, 2R, 3L, 4R knobs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hi-Z switches</td>
</tr>
<tr>
<td>48V switches</td>
</tr>
<tr>
<td>THRS knobs</td>
</tr>
<tr>
<td>COMP/LIMIT switches</td>
</tr>
<tr>
<td>DIRECT MONITOR 1/2 knob</td>
</tr>
<tr>
<td>DIRECT MONITOR 3/4 knob</td>
</tr>
<tr>
<td>MONO switches</td>
</tr>
<tr>
<td>OUTPUT knob</td>
</tr>
<tr>
<td>PHONES knob</td>
</tr>
<tr>
<td>POWER switch</td>
</tr>
<tr>
<td>GROUND LIFT switch</td>
</tr>
<tr>
<td>PHONES SOURCE switch</td>
</tr>
<tr>
<td>LOOPBACK switch</td>
</tr>
<tr>
<td>COMP/LIMIT TYPE 1/2 switch</td>
</tr>
<tr>
<td>COMP/LIMIT TYPE 3/4 switch</td>
</tr>
</tbody>
</table>

#### [Indicators]

<table>
<thead>
<tr>
<th>Level indicators (1L, 2R, 3L, 4R)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reduction indicators</td>
</tr>
<tr>
<td>POWER indicator</td>
</tr>
<tr>
<td>Hi-Z indicators</td>
</tr>
<tr>
<td>48V indicators</td>
</tr>
<tr>
<td>COMP/LIMIT indicators</td>
</tr>
<tr>
<td>MONO indicators</td>
</tr>
</tbody>
</table>

#### [Characteristics]

<table>
<thead>
<tr>
<th>Nominal Input Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>INPUT (1L, 2R, 3L, 4R) connectors (XLR type): -60–-12 dBu</td>
</tr>
<tr>
<td>INPUT (1L, 2R, 3L, 4R) jacks (1/4-inch TRS phone type): -44–-4 dBu</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Maximum Input Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>INPUT (1L, 2R, 3L, 4R) connectors (XLR type): +2 dBu</td>
</tr>
<tr>
<td>INPUT (1L, 2R, 3L, 4R) jacks (1/4-inch TRS phone type): +18 dBu</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nominal Output Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>OUTPUT (1L, 2R, 3L, 4R) jacks: -6 dBu (impedance balanced)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Maximum Output Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>OUTPUT (1L, 2R, 3L, 4R) jacks: +8 dBu (impedance balanced)</td>
</tr>
</tbody>
</table>

#### PHONEs

<table>
<thead>
<tr>
<th>Maximum Output Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 mW + 20 mW (L + R, 47 ohms load)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Headroom</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 dB</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Input Impedance</th>
</tr>
</thead>
<tbody>
<tr>
<td>INPUT (1L, 2R, 3L, 4R) connectors (XLR type): 4 k ohms or greater (balanced)</td>
</tr>
<tr>
<td>INPUT (1L, 2R, 3L, 4R) jacks (1/4-inch TRS phone type): 15 k ohms or greater (balanced)</td>
</tr>
<tr>
<td>INPUT (1L, 3L) jacks (1/4-inch phone type): 500 k ohms or greater</td>
</tr>
<tr>
<td>*3 When the Hi-Z is turned on</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Frequency Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>192.0 kHz: 20 Hz–60 kHz (+0/–2 dB), 20 Hz–90 kHz (+0/–8 dB)</td>
</tr>
<tr>
<td>96.0 kHz: 20 Hz–40 kHz (+0/–2 dB)</td>
</tr>
<tr>
<td>48.0 kHz: 20 Hz–22 kHz (+0/–2 dB)</td>
</tr>
<tr>
<td>44.1 kHz: 20 Hz–20 kHz (+0/–2 dB)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Residual Noise Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>INPUT (1L, 2R) → OUTPUT (1L, 2R): -94 dBu typ. (SENS 1L, SENS 2R knobs: min., input terminated with 600 ohms, IHF-A, typ.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dynamic Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD block INPUT (1L, 2R, 3L, 4R) jacks: 104 dB typ. (SENS 1L, SENS 2R knobs: min.)</td>
</tr>
<tr>
<td>DA block OUTPUT (1L, 2R, 3L, 4R) jacks: 109 dB typ.</td>
</tr>
</tbody>
</table>

#### [Other]

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>AC adaptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Draw</td>
<td>750 mA</td>
</tr>
<tr>
<td>Operating System</td>
<td>Microsoft(R) Windows(R) 7, Windows(R) 8, Windows(R) 8.1, Windows(R) 10 Apple Mac OS X 10.10 or later Apple iOS 9 or later</td>
</tr>
<tr>
<td>Dimensions</td>
<td>310 (W) x 165 (D) x 46 (H) mm</td>
</tr>
<tr>
<td></td>
<td>12-1/4 (W) x 6-1/2 (D) x 1-13/16 (H) inches</td>
</tr>
<tr>
<td>Weight</td>
<td>1.8 kg</td>
</tr>
<tr>
<td>(main unit only)</td>
<td>4 lbs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setup Guide</td>
</tr>
<tr>
<td>Leaflet “USING THE UNIT SAFELY”</td>
</tr>
<tr>
<td>AC adaptor</td>
</tr>
<tr>
<td>Power cord</td>
</tr>
<tr>
<td>USB cable</td>
</tr>
<tr>
<td>Ableton Live Lite Serial Number Card</td>
</tr>
</tbody>
</table>

* 0 dBu = 0.775 Vrms
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.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

This equipment requires shielded interface cables in order to meet FCC class B limit. Any unauthorized changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

WARNING

This product contains chemicals known to cause cancer, birth defects and other reproductive harm, including lead.

Manufacturer: 2036-1 Nakagawa, Hosoe-cho, Kita-ku, Hamamatsu, Shizuoka 431-1304, JAPAN
Importer: ENA 23 Zone 1 nr. 1620 Klaus-Michael Kuehnelaan 13, 2440 Geel, BELGIUM

DECLARATION OF CONFORMITY
Compliance Information Statement

Model Name: Rubix22, Rubix24, Rubix44
Type of Equipment: USB Audio Interface
Responsible Party: Roland Corporation U.S.
Address: 5100 S. Eastern Avenue Los Angeles, CA 90040-2938
Telephone: (323) 890-3700
For EU Countries

This symbol indicates that in EU countries, this product must be collected separately from household waste, as defined in each region. Products bearing this symbol must not be discarded together with household waste.


Ce symbole indique que dans les pays de l’Union européenne, ce produit doit être collecté séparément des ordures ménagères selon les directives en vigueur dans chacun de ces pays. Les produits portant ce symbole ne doivent pas être mis au rebut avec les ordures ménagères.

Questo simbolo indica che nei paesi della Comunità europea questo prodotto deve essere raccolto separatamente dai normali rifiuti domestici, secondo la legislazione in vigore in ciascun paese. I prodotti che riportano questo simbolo non dovono essere smaltiti insieme ai rifiuti domestici.

Ai sensi dell’art. 13 del D.Lgs. 25 luglio 2005 n. 151.

Este símbolo indica que en los países de la Unión Europea este producto debe recogerse aparte de los residuos domésticos, tal como esté regulado en cada zona. Los productos con este símbolo no se deben depositar con los residuos domésticos.

Este símbolo indica que nos países da UE, a recolha deste produto deverá ser feita separadamente do lixo doméstico, de acordo com os regulamentos de cada região. Os produtos que apresentem este símbolo não deverão ser eliminados juntamente com o lixo doméstico.

Dit symbool geeft aan dat in landen van de EU dit product gescheiden van huishoudelijk afval moet worden aangeboden, zoals bepaald per gemeente of regio. Producten die van dit symbool zijn voorzien, mogen niet samen met huishoudelijk afval worden verwijderd.

Dette symbol angiver, at i EU-lande skal dette produkt opsamles adskilt fra husholdningsaffald, som definieres i hver enkelt region. Produkter med dette symbol må ikke smides ud sammen med husholdningsaffald.

Dette symbolet indikerer at produktet må behandles som spesialavfall i EU-land, ås til rettsregulering for den enkelte regioner, og ikke kastes sammen med vanlig husholdningsavfall. Produkter som er merket med dette symbolet, må ikke kastes sammen med vanlig husholdningsavfall.

WARNING

This product contains chemicals known to cause cancer, birth defects and other reproductive harm, including lead.

SE

Symbolen anger att i EU-länder måste den här produkten kasseras separat från hushållsavfallet, i enlighet med varje regions bestämmelser. Produkter med den här symbolen får inte kasseras tillsammans med hushållsavfallet.

FI

Tätä merkintä ilmaisee, että tuote on EU-maissa kerättävä erillään kotoa hoidossa oleviin maataloustuotteisiin. Tällä merkinnällä varustettuja tuotteita ei saa hidas tätä kotoa hoidossa keskustaa.

HU

Az ilyen jelzés azt jelenti, hogy az Európai Unióban ez a termék a húsvéti feldolgozás céljából külön kell gyűjteni, az adott régióban érvényes szabályozás szerint kell gyűjtési. Az ezzel a jelzéssel ellátott termékeket nem szabad a húsvéti hulladék közé dobni.

PL

Symbol oznacza, że zgodnie z regulacjami w odpowiednim regionie, w krajach UE produkt nie należy wywierzać z odpadami domowymi. Produkty opatrzonych tym symbolem nie można utylizować razem z odpadami domowymi.

CZ

Tento symbol udává, že v zemích EU musí být tento výrobek sbíráno odděleně od domácího odpadu, jak je určeno pro každý region. Výrobky nesoucí tento symbol se nemění vyhazovat spolu s domácím odpadem.

SK

Symbol oznámenie, že v krajinách EÚ musí byť tento produkt vykonávate odsekanie od domového odpadu, podľa nariadení platných v konkrétnej krajine. Produkty s týmto symbolom sa nemôžu vyhazovať spolu s domovým odpadom.

EE

See symbol utimal, et EL-i maades tuleb see toode olema pruugitav eraldi koguda, ning neid on igas piirkonnas matkistatud. Sellise symboliga magatud toodet ei tohi ärä visata kõvast olmeprügast.

FI

Säällä toimitusten, että tämän tuotteen keräys on järjestettävä erikseen kuin kotitalouksista. Tuotteet tämän symbolin mukaisesti eivät saa hävityskäyttöön liukumenne kotitaloustekniikan yhteydessä.

PT

Este símbolo indica que na União Européia este produto deve ser recolhido separadamente do lixo doméstico, de acordo com as obrigações de cada região. Os produtos que apresentam este símbolo não devem ser eliminados juntamente com o lixo doméstico.

NL

Dit symbool geeft aan dat in landen van de EU dit product gescheiden van huishoudelijke afval moet worden aangeboden, zoals bepaald per gemeente of regio. Producten die van dit symbool zijn voorzien, mogen niet samen met huishoudelijke afval worden verwijderd.

DK

Dette symbol angiver, at i EU-lande skal dette produkt opsamles adskilt fra husholdningsaffald, som defineres i hver enkelt region. Produkter med dette symbol må ikke smides ud sammen med husholdningsaffald.

NO

Dette symbolet indikerer at produktet må behandles som spesialavfall i EU-land, ås til rettsregulering for den enkelte regionen, og ikke kastes sammen med vanlig husholdningsavfall. Produkter som er merket med dette symbolet, må ikke kastes sammen med vanlig husholdningsavfall.

GR

Το σύμβολο αυτό αναφέρεται ότι στις χώρες της Ε.Ε. το συγκεκριμένο προϊόν πρέπει να απορριματοποιείται σε άλλη κατάλληλη συγκεκριμένη υπηρεσία ή με τρόπο που διαφήμισε ένας μη προσφερόμενος τις τρίτες προμήθειες. Στο σύμβολο, το σημάδι αυτό δεν πρέπει να απορρίπτονται μαζί με τα συνημιτικά απορρίμματα.