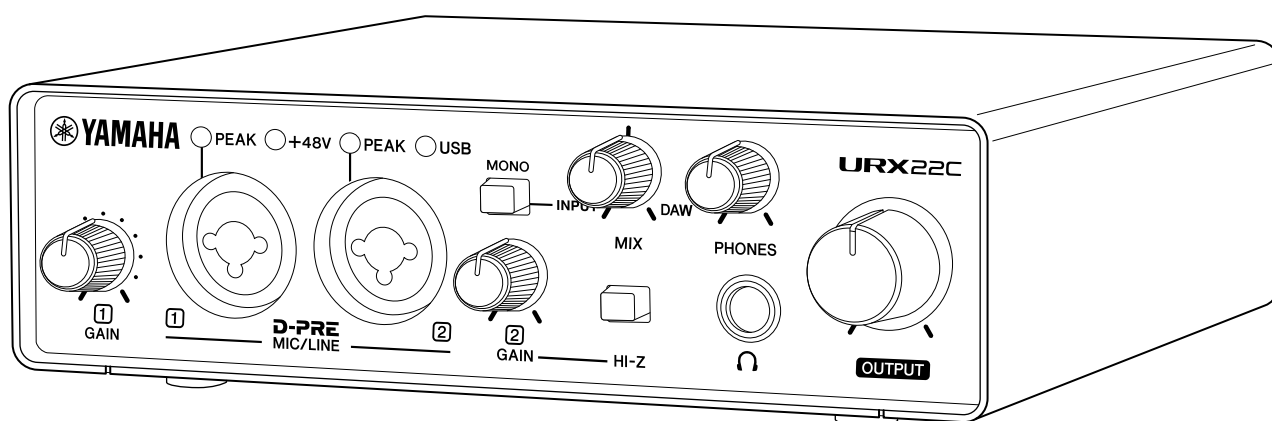




# URX22C

USB AUDIO INTERFACE



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## Main Features

### 2 x 2 USB 3.0 Audio Interface with 2 x D-PRE and 32-bit/192 kHz support

The URX22C is a 2-in and 2-out USB 3.0 audio interface, featuring two world-renowned D-PRE microphone preamps and supporting 192 kHz and 32-bit audio quality to capture all the subtleties and expressiveness of any audio source.

### True 32-bit resolution

The URX22C and the Yamaha Steinberg USB Driver support the 32-bit Integer format, which can represent audio data in higher resolution compared to Float format. Together with a DAW (such as Cubase) which can fully utilize the 32-bit Integer data, they enable unprecedented audio resolution in your music production.

### USB 3.0 and USB Type-C™

The URX22C is equipped with a USB Type-C port and features USB 3.0 (USB 3.1 Gen 1) SuperSpeed mode. It also provides full compatibility with the USB 2.0 High-Speed mode and includes a Type-C to Type-A cable.

### dspMixFx

The dspMixFx technology is powered by the latest SSP3 DSP chip and offers latency-free monitoring with highly acclaimed DSP effects, including REV-X reverb, for users of any DAW software.

### NOTICE

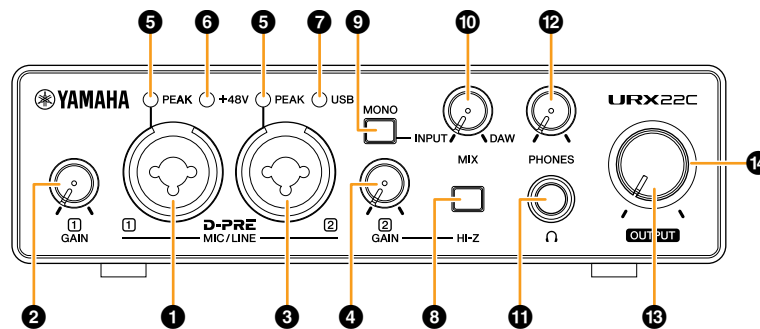
To avoid the possibility of malfunction/damage to the product, damage to data, or damage to other property, follow the notices below.

### Handling

- Do not expose the product to rain, use it near water or in damp or wet conditions, or place on it any containers (such as vases, bottles or glasses) containing liquids which might spill into any openings.

# Panel Controls and Terminals

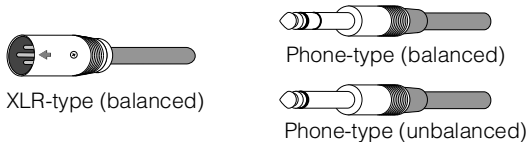
## Front Panel



### 1 [MIC/LINE 1] connector

For connection to a microphone or digital instrument. This connector can be connected to both XLR-type and phone-type (balanced/unbalanced) plugs.

#### Plug types



#### NOTE

The phantom power will be supplied to the XLR connector connected to the [MIC/LINE 1] connector.

### 2 [INPUT 1 GAIN] knob

Adjusts the input signal level of the [MIC/LINE 1] connector.

### 3 [MIC/LINE 2] connector

For connection to a microphone, digital instrument, electric guitar, or electric bass. This connector can be connected to both XLR-type and phone-type (balanced/unbalanced) plugs.

#### NOTE

The phantom power will be supplied to the XLR connector connected to the [MIC/LINE 2] connector.

### 4 [INPUT 2 GAIN] knob

Adjusts the input signal level of the [MIC/LINE 2] connector.

### 5 [PEAK] indicator

Lights up according to the input signal. Lights up when the input signal is 3 dB below the clipping level.

#### Setting optimum recording levels

Adjust the [INPUT GAIN] knobs so that the [PEAK] indicator flashes briefly at the loudest input volume.



### 6 [+48V] indicator

Lights up when the [+48V] switch (phantom power) is turned on.

### 7 [USB] indicator

This lights up when the unit is turned on and can communicate with your computer or iOS device. The indicator flashes continuously when the computer or iOS device does not recognize the device.

### 8 [INPUT 2 HI-Z] switch

Switches the input impedance (on /off ). Turn this switch on when connecting high impedance instruments, such as an electric guitar or electric bass, directly to the [MIC/LINE 2] connector. When you turn this switch on, use an unbalanced phone plug for connection between the instruments and the [MIC/LINE 2] connector.



#### CAUTION

To protect your speaker system, leave the monitor speakers turned off when turning the [INPUT 2 HI-Z] switch on/off. It's also a good idea to turn all output level controls down to their minimum. Neglect of these precautions may result in loud noise bursts that may damage your equipment, your ears, or both.

#### NOTICE

Do not connect or disconnect any cables while turning on the [INPUT 2 HI-Z] switch. Doing so can damage the connected device and/or the unit itself.

#### NOTE

- If you use a balanced phone plug, the device will not work correctly.
- When the HI-Z switch is turned on, the signal from the XLR-type is cut off.

### 9 [MONO] switch

When this switch is on, the input to the [MIC/LINE 1/2] connectors is output to both the [MAIN OUT L/R] connectors and the L/R channel of the [PHONES] connector. When the switch is off, the input to the [MIC/LINE 1] connectors is output to the [MAIN OUT L] connector and the input to the [MIC/LINE 2] connectors is output to the [MAIN OUT R] connector. For the [PHONES] connector, the input to the [MIC/LINE 1] connectors is output to the L channel and the input to the [MIC/LINE 2] connectors is output to the R channel.

**10 [MIX] knob**

Adjusts the signal level balance between the input signal to the [MIC/LINE 1/2] connectors and the signal from an application, such as DAW software. Operation of this control knob does not affect the signal sent to a computer.

**Using the Mix knob**

Turn the [MIX] knob to the [DAW] side if the input volume is high and to the [INPUT] side if the input volume is low. When the knob is turned fully to the [DAW] side, only the input sound from DAW can be heard.

**11 [PHONES ] connector**

For connection to a set of stereo headphones.

**12 [PHONES] knob**

Adjusts the output signal level of the [PHONES] connector.

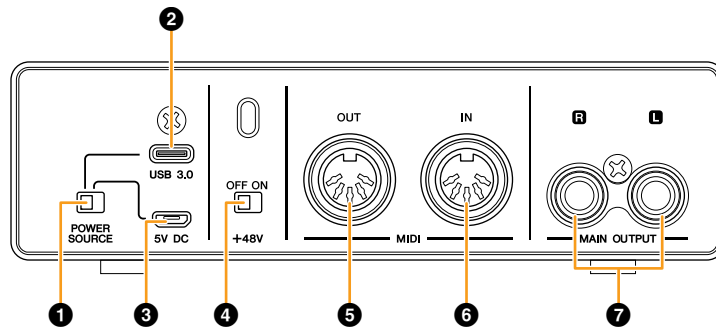
**13 [OUTPUT] knob**

Adjusts the output signal level of the [MAIN OUTPUT] connectors.

**14 POWER indicator**

This lights up when the unit is turned on. The indicator flashes when there is a problem with the power supply. If this happens, use an AC adaptor.

## Rear Panel



### 1 [POWER SOURCE] switch

For selecting the port for supplying power to the URX22C. To supply bus power via the [USB 3.0] port, set this switch to the [USB 3.0] side. To supply power via the [5V DC] port, set this switch to the [5V DC] side.

### 2 [USB 3.0] port

For connection to a computer or iOS device.

#### NOTICE

When connecting to a computer with a [USB 3.0] port, observe the following to prevent the computer from freezing or shutting down, as well as corruption or even loss of data.

- Quit all applications before plugging in or unplugging the USB cable.
- Wait at least six seconds between connecting/disconnecting the USB cable.

#### NOTE

Apple accessories may be required when connecting the URX22C with iOS devices. For details, refer to the URX22C Setup Guide.

### 3 [5V DC] port

For connecting a USB power adaptor or USB mobile battery. Use a power supply when connecting the URX22C to a device that does not supply sufficient bus power, such as an iPad. (The URX22C does not include a USB power adaptor or USB mobile battery.)

#### NOTICE

- Read the safety precautions for the USB power adaptor or USB mobile battery that you use.
- Use a USB power adaptor or USB mobile battery that can supply power in compliance with USB standards with a 5-pin micro USB plug.  
Output voltage 4.8 V to 5.2 V  
Output current 0.9 A or greater

### Using the [5V DC] port

Even when the URX22C is connected to a computer, you can supply power via the [5V DC] port by external power supply if the [POWER SOURCE] switch is set to the [5V DC] side. This can be used to avoid power supply problems. For example, ground loops due to differences in voltage potential can occur if the device connected to the URX22C is using the same power outlet as the computer, and audio quality degradation can occur if the power supply from the computer's USB port is not stable.

### 4 [+48V] switch

Turns the phantom power on/off. When you turn this switch on, phantom power will be supplied to the XLR connector connected to the [MIC/LINE 1/2] connectors. Turn this switch on if you are using a condenser microphone.

#### NOTICE

When using phantom power, observe the following to prevent noise and possible damage to URX22C or connected equipment.

- Do not connect or disconnect any devices while the phantom power switch is turned to ON.
- Turn the ⑨ [PHONES] knob and ⑩ [OUTPUT] knob down all the way before turning phantom power on/off.
- When connecting devices not requiring phantom power to the [MIC/LINE 1/2] connector, make sure to turn the phantom power switch to OFF.

#### NOTE

When you turn phantom power on/off, the input signal for the connector that's turned on/off is muted for several seconds.

### 5 [MIDI OUT] connector

For connection to the MIDI IN connector of the MIDI device. Transmits MIDI signals from the computer.

### 6 [MIDI IN] connector

For connection to the MIDI OUT connector of the MIDI device. Receives and inputs MIDI signals to the computer.

#### NOTE

- Select [Steinberg URX22C-port1] for the MIDI port when using a MIDI connector with an iOS app. Please note that [Steinberg URX22C-port2] is not available.
- Do not activate dspMixFx when using a MIDI device. This may interfere with stable data transmission/reception.

### 7 [MAIN OUTPUT L/R] connectors

Connect these to your monitor speakers or other audio equipment. Connect phone-type (balanced/unbalanced) plugs to these connectors. This outputs the MIX 1 signals. To adjust the output signal level, use the [OUTPUT] knob on the front panel.

# Software

The section explains software operations for using the URX22C with a computer.

## Yamaha Steinberg USB Driver

Yamaha Steinberg USB Driver is a software program that allows communication between the URX22C and a computer. In Control Panel, you can configure the basic settings for the audio driver (Windows) or confirm the audio driver information (Mac).

### How to Open the Window

#### Windows

- From the start menu, select [Yamaha Steinberg USB Driver] → [Control Panel].
- From the Cubase series menu, select [Studio] → [Studio Setup] → [Yamaha Steinberg USB ASIO] → [Control Panel].

Click the upper tabs to select the desired window.

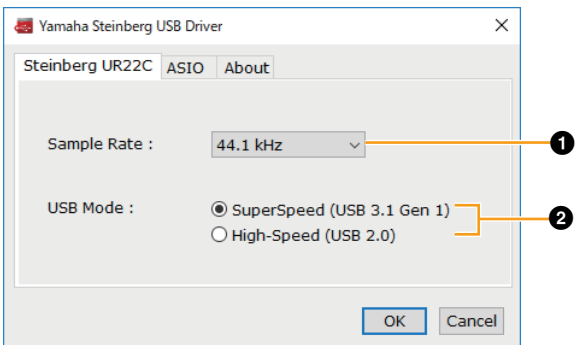
#### Mac

- Select [Application] → [Yamaha Steinberg USB Control Panel]
- From the Cubase series menu, select [Studio] → [Studio Setup] → [Steinberg UR22C DAW (High Precision)] → [Control Panel] → [Open Config App]

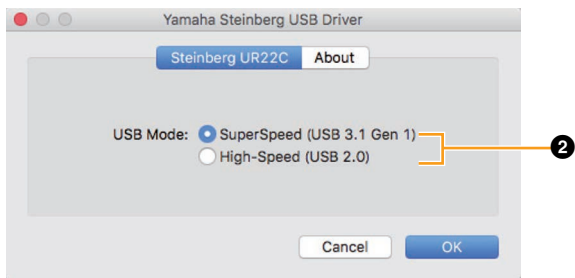
### Control Panel

These windows are for selecting the sample rate and the USB mode.

#### Windows



#### Mac



#### ① Sample Rate

Lets you select the sample rate of the device.

**Settings:** 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz

#### NOTE

The available sample rates may differ depending on the particular DAW you're using.

#### ② USB Mode

Switches between USB data transfer speeds. The default setting is SuperSpeed (USB 3.1 Gen 1) mode.

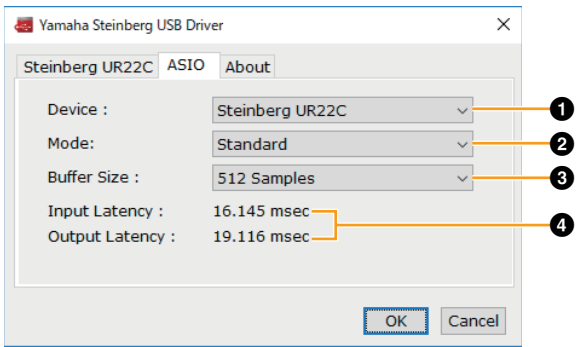
**Settings:** SuperSpeed (USB 3.1 Gen 1), High-Speed (USB 2.0)

#### NOTE

If High-Speed (USB 2.0) mode is used, the data bandwidth will become narrower, but this will not affect the functionality of the URX22C. Other performance values such as latency will not change.

### ASIO Window (Windows only)

For selecting the ASIO driver settings.



#### ① Device

Lets you select the device for use with the ASIO driver. This function is available when connecting two or more devices that are compatible with the Yamaha Steinberg USB Driver to the computer.

#### ② Mode

Lets you select the latency (delay time) mode.

**Settings:** Low Latency, Standard, Stable

| Sample Rate | Descriptions  |
|-------------|---|
| Low Latency | This mode features lower latency. A high-performance computer is required for stable data transfer.   |
| Standard    | Standard latency mode.  |
| Stable      | This mode features higher latency. This setting lets you use this unit for stable data transfer when using lower-performance computers or high-load DAW projects. |

3 Buffer Size

Lets you select the buffer size for the ASIO driver. The range varies depending on the specified sample rate. The lower the value of the ASIO buffer size, the lower the value of audio latency.

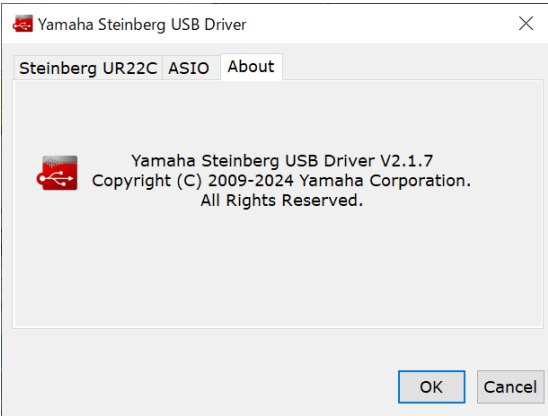
| Sample Rate         | Range                      |
|---------------------|----------------------------|
| 44.1 kHz / 48 kHz   | 32 Samples – 2048 Samples  |
| 88.2 kHz / 96 kHz   | 64 Samples – 4096 Samples  |
| 176.4 kHz / 192 kHz | 128 Samples – 8192 Samples |

4 Input Latency/Output Latency

Indicates the latency (delay time) for the audio input and output in millisecond units.

About Window

Indicates the version and copyright information of the audio driver.

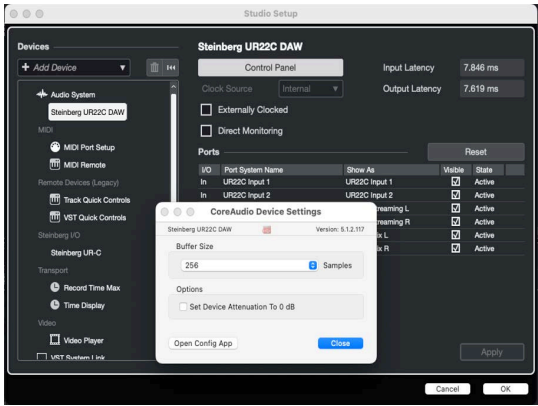


How to Select the Buffer Size (Mac)

You can select the buffer size in the settings window for each application (DAW software, etc.).

From the Cubase series menu, select [Studio] → [Studio Setup], then click [Control Panel] in [Steinberg UR22C DAW] or [Steinberg UR22C DAW (High Precision)] in the menu on the left side of the window.

The method for opening the settings window is different for each application.

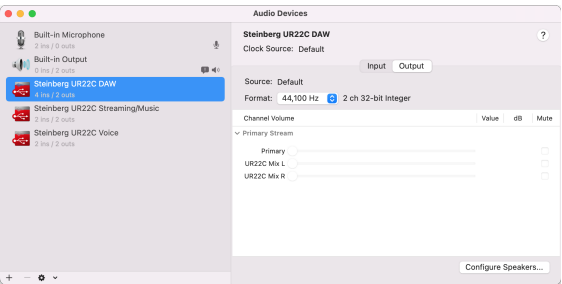


Using with 32-bit Integer processing (Mac)

[Steinberg UR22C DAW] or [Steinberg UR22C DAW (High Precision)] is shown in the [ASIO Driver] setting on the Cubase series program. Select [Steinberg UR22C DAW (High Precision)] when processing at 32-bit integer resolutions between Cubase and the driver.

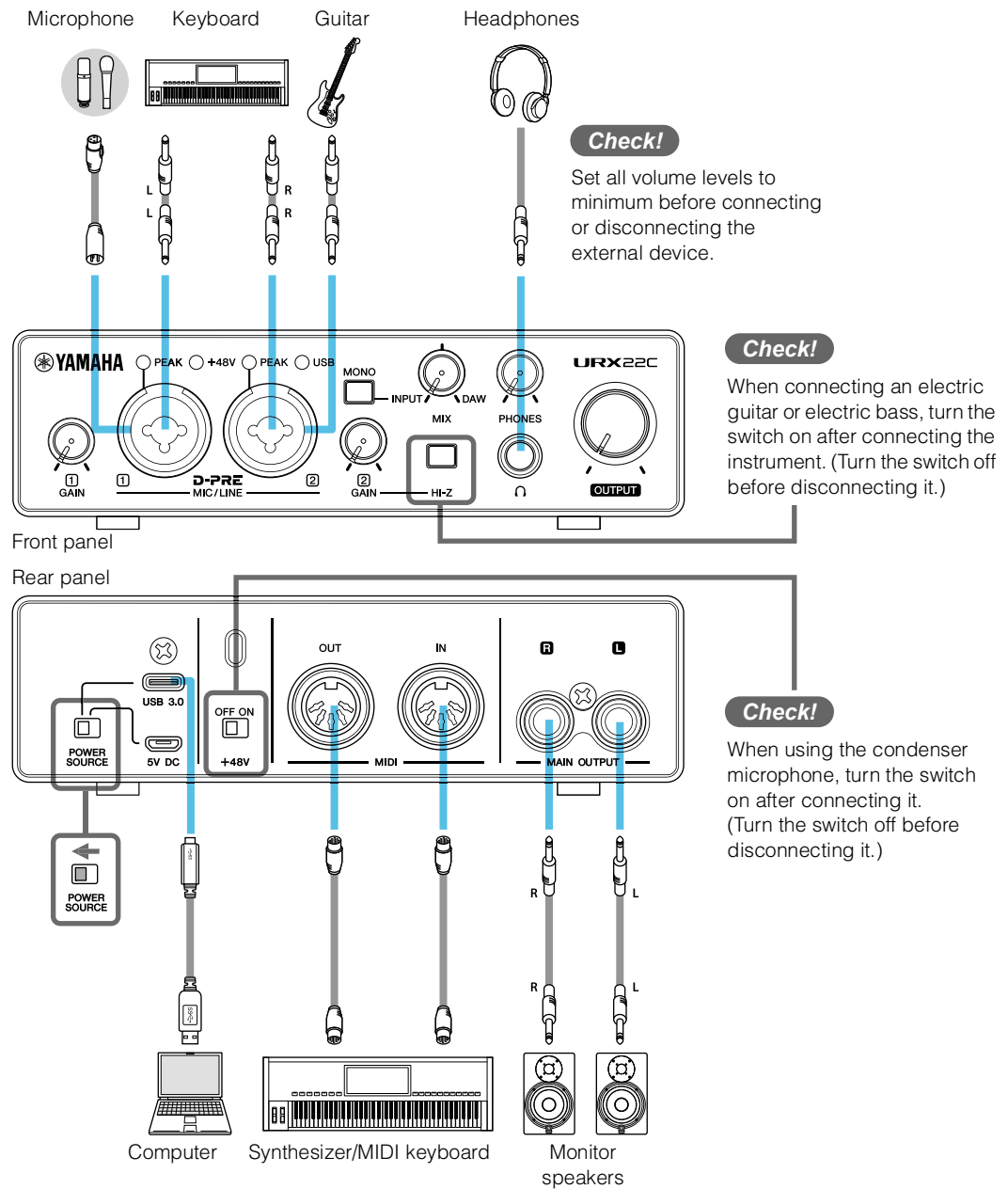
How to Select the Sample Rate (Mac)

You can select the sample rate in the [Audio MIDI Setup] window. Select the sample rate from the [Applications] → [Utilities] → [Audio MIDI Setup] → [Format] menu.



# Using with a Computer

## Connection Example



### NOTE

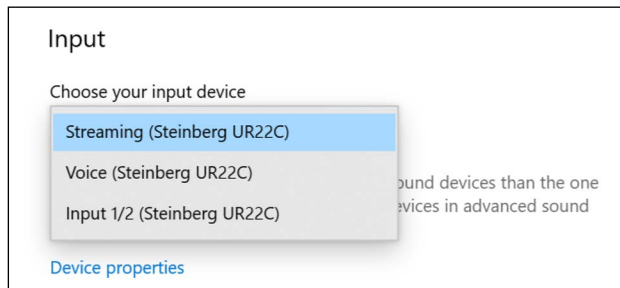
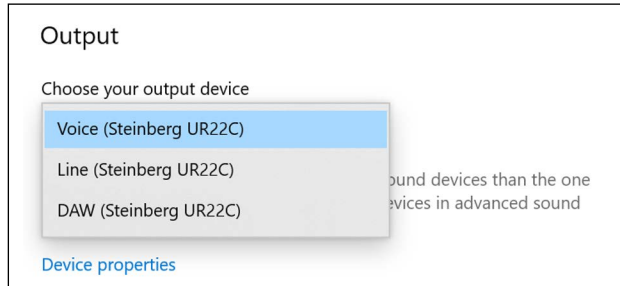
- When using the device with bus power supply, connect it to the USB 3.0 port of the computer.
- For the connector type of the computer to be connected to the device, refer to "Computer Connector Types" ([page 19](#)).

## Computer Settings

By using with the Yamaha Steinberg USB Driver, the UR-C is handled as 3 audio devices.

### For Windows

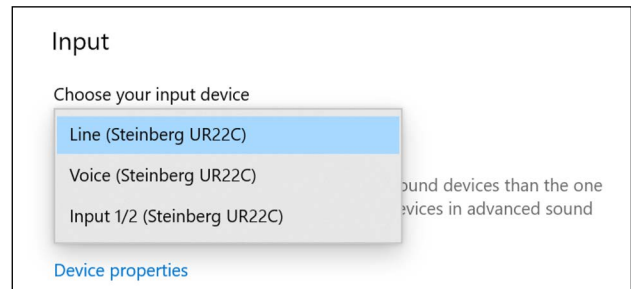
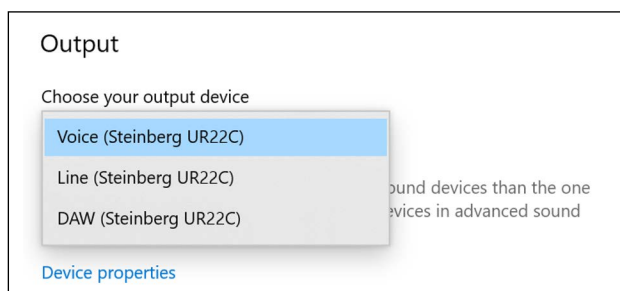
You can select Music (Steinberg UR22C), Voice (Steinberg UR22C) and DAW (Steinberg UR22C) as sound output devices and Streaming (Steinberg UR22C), Voice (Steinberg UR22C) and Input 1/2 (Steinberg UR22C) as input devices.



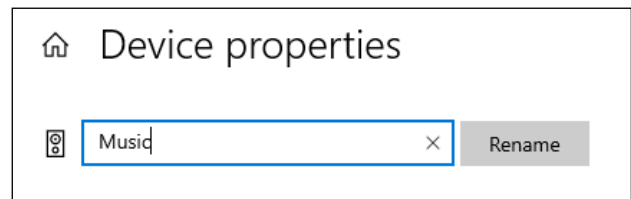
When using a DAW application, etc., a signal feedback loop may occur with the track monitor function, etc., so carefully check the settings of the application you are using.

#### NOTE

The input/output device names for sound are the same as with the previous model, and may display as shown below.

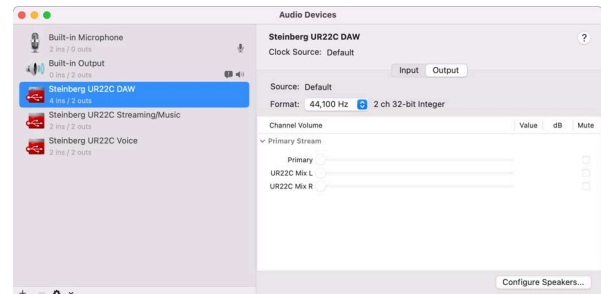


If necessary, change Line to Music or Line to Streaming in the Sound Properties.



### For Macs

Three audio devices can be selected: Steinberg UR22C DAW, Steinberg UR22C Streaming/Music and Steinberg UR22C Voice.



The Audio Devices Screen in Audio MIDI Settings

## Configuring Audio Driver Settings on the DAW Software

### Cubase Series Programs

1. If Cubase series software is running, quit the application.
- NOTE**  
On a Mac, if [Steinberg UR22C DAW (High Precision)] is selected, Cubase uses the driver exclusively.
2. Connect the device directly to the computer by using the included USB cable.
  3. Confirm the [USB] indicator is lit.
  4. Double-click the shortcut of Cubase series on the desktop to start Cubase.
  5. When the [ASIO Driver Setup] window appears while the Cubase series program is launching, confirm that the device is selected, then click [OK].

**NOTE**

When [Steinberg UR22C DAW (High Precision)] is selected on Mac, Cubase will exclusively use the driver. In this condition, [Steinberg UR22C DAW] cannot be used by other applications.

The audio driver settings are now complete.

### Programs other than Cubase Series

1. Make sure that all applications have been closed.
2. Connect the device directly to the computer by using the included USB cable.
3. Confirm the [USB] indicator is lit.
4. Launch the DAW software.
5. Open the audio interface settings window.
6. (Windows only) Select the ASIO Driver for the audio driver settings.
7. Set the ASIO Driver for Windows and audio interface for Mac as follows.

#### Windows

Set the [Yamaha Steinberg USB ASIO] to the ASIO Driver settings.

#### Mac

Set the UR22C to the audio interface settings.

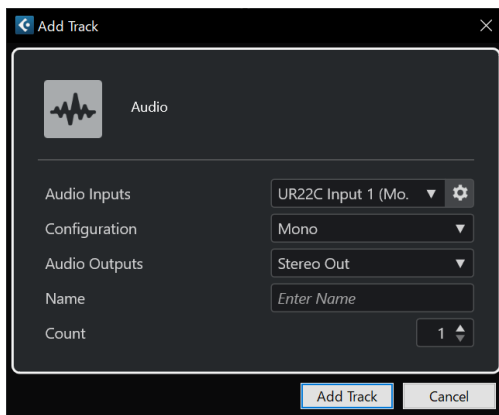
The audio driver settings are now complete.

## Recording/Playback

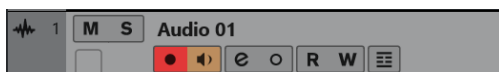
This section explains simple recording operations for using a microphone. Connect a microphone to [MIC/LINE 1] connector as shown in the connection examples (page 8). Turn the [+48V] switch on when using a phantom powered condenser microphone.

### Cubase Series Programs

1. Launch the Cubase series DAW and display the [Cubase Hub] window.
2. Select the template [Empty] in [Recording] on the [steinberg hub] window, then click [Create].
3. Turn on Direct Monitoring as follows.  
[Studio] → [Studio Setup] → [Yamaha Steinberg USB ASIO] (Windows) or [Steinberg UR22C DAW] (Mac) → enter checkmark to [Direct Monitoring] → [OK]
4. Return to the project window and click [Project] → [Add Track] → [Audio] to display [Add Track].
5. Select the [Audio Inputs] and [Configuration] to [Mono] and [Count] to [1], and then click [Add track] to create one new audio track.




6. Check whether the [Record Enable] is on (indicator lights up red) for the added audio track, and that [Monitoring] is on (indicator lights up orange). If these are not on, click to turn them on.



7. While singing into the microphone, adjust the input signal level of the microphone with the [INPUT 1 GAIN] knob on the device.

#### Setting optimum recording levels

Adjust the [INPUT GAIN] knobs so that the [PEAK] indicator flashes briefly at the loudest input volume.

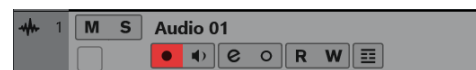
8. While singing into the microphone, adjust the output signal level of the headphones with the [PHONES] knob on the device.
9. Click  to start the recording.



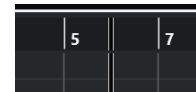
10. After finishing the recording, click  to stop it.



11. Turn [Monitoring] off (the indicator goes dark/gray) for the audio track.



12. Click on the ruler to move the project cursor to the position where you wish to start playback.



13. Click  to check the recorded sound.

When listening to the sound over monitor speakers, adjust the output signal level by the [OUTPUT] knob on the device.



The recording and playback operations are now complete.

For more detailed instructions on using Cubase series programs, refer to the Cubase operation manual.

## Programs other than Cubase Series

1. **Launch your DAW software.**
2. **Open dspMixFx UR-C.**
3. **Adjust the input signal level of the microphone with the [INPUT GAIN] knob on the device.**

### Setting optimum recording levels

Adjust the [INPUT GAIN] knobs so that the [PEAK] indicator flashes briefly at the loudest input volume.

4. **While singing into the microphone, adjust the output signal level of the headphones with the [PHONES] knob on the device.**
5. **Use dspMixFx UR-C as necessary to configure the URX22C.**
6. **Start recording on your DAW software.**
7. **After finishing recording, stop it.**
8. **Playback the newly recorded sound to check it.**

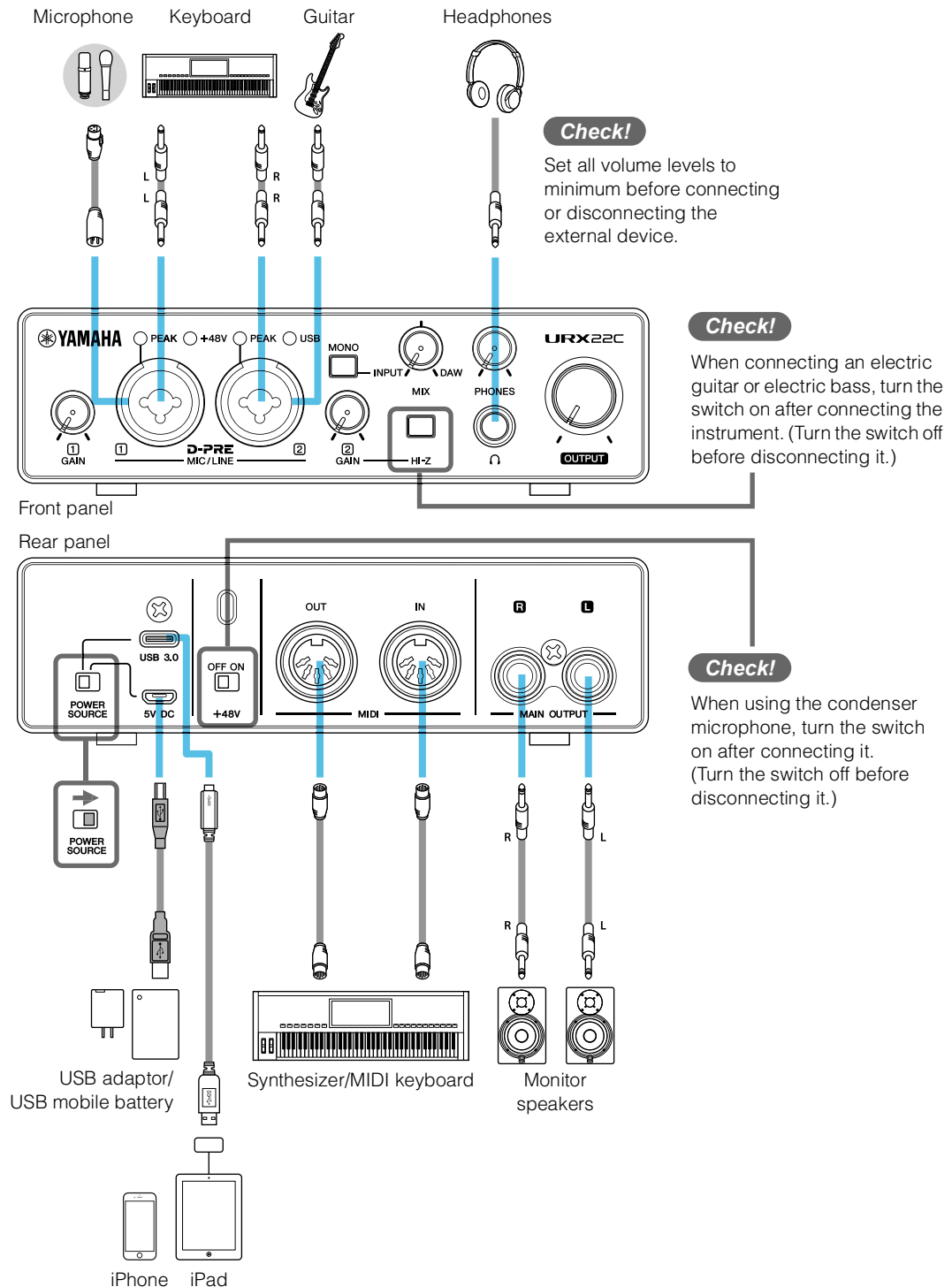
For details on how to use dspMixFx UR-C, refer to the dspMixFx User Guide.

[https://manual.yamaha.com/audio/apps\\_software/dspmixfx/](https://manual.yamaha.com/audio/apps_software/dspmixfx/)

For more detailed instructions on using the DAW software, refer to your particular DAW's software manual.

# Using with an iOS Device

## Connection Example



### NOTE

- Apple accessories may be required when connecting the URX22C with iOS devices. For details, refer to the URX22C Setup Guide.
- For iOS devices, it is necessary to supply power from the USB power adaptor or a USB mobile battery.
- Refer to the following Yamaha website for information on compatible iOS devices.  
<https://www.yamaha.com/2/urx22c/>

## Recording/Playback

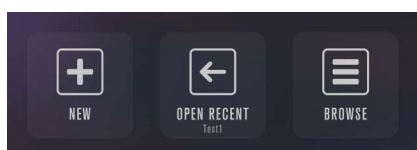
This section explains simple recording operations for using a microphone. Connect a microphone to [MIC/LINE 1] connector as shown in the connection examples (page 13). Turn the [+48V] switch on when using a phantom powered condenser microphone.

The explanation uses Cubasis (DAW app) as an example.

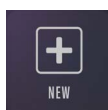
### NOTE

- iOS app may not be supported in your area. Please check with your Yamaha dealer.
- For the latest Cubasis information, see the Steinberg web site below.  
<https://www.steinberg.net/cubasis/>

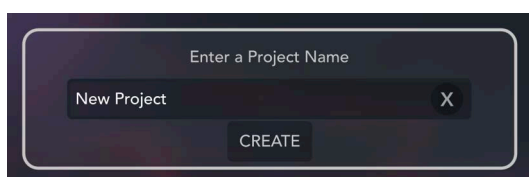
#### 1. Open Cubasis.



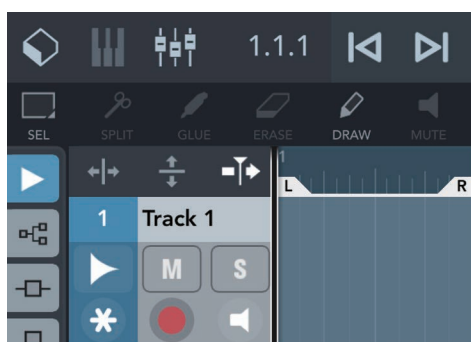
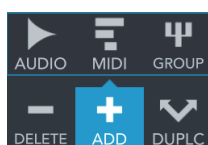
#### 2. Tap [NEW] on the screen.



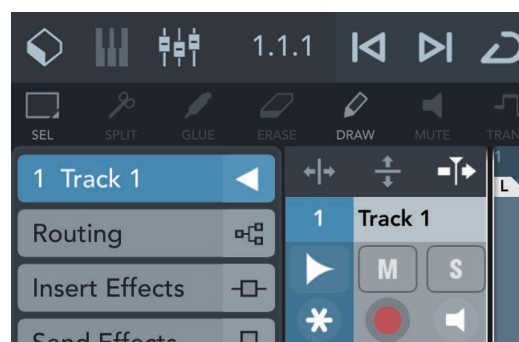
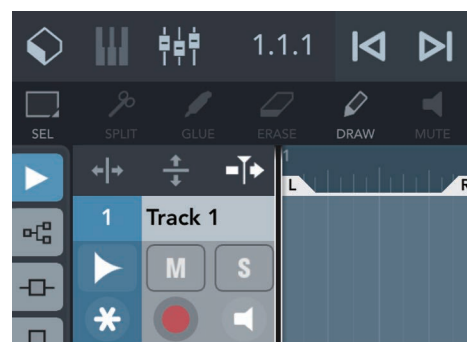
#### 3. Enter a project name and tap [CREATE] in the [New project] window.



#### 4. Tap [+ADD] on the left of the screen, then tap [AUDIO] to add an Audio Track.



#### 5. Tap [▶] on the far left of your screen to show the track inspector.



#### 6. Tap [1] to show the details window and set the input bus for the track by tapping a number.

#### 7. Tap [M] to turn monitoring on (lit).

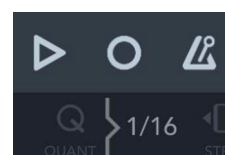
#### 8. Adjust the input signal level of the microphone with the [INPUT 1 GAIN] knob on the device.

#### Setting optimum recording levels

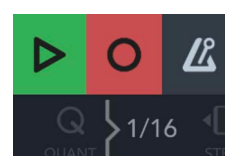
Adjust the [INPUT GAIN] knobs so that the [PEAK] indicator flashes briefly at the loudest input volume.

#### 9. While singing into the microphone, adjust the output signal level of the headphones with the [PHONES] knob on the device.

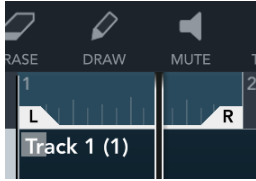
#### 10. Tap [○] to start the recording.




#### 11. Tap [▶] to stop the recording.

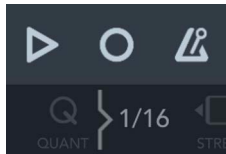


**12. Tap and slide on the ruler to move the playback position.**



You can also tap  to return the beginning of the recording.

**13. Tap [  ] to playback the recorded sound.**



**dspMixFx (for iOS devices)**

From your iOS devices, you can conveniently control built-in DSP mixer functions and DSP effects by using dspMixFx for iOS devices. Refer to the following Yamaha website for details.

<https://www.yamaha.com/2/dspmixfx/>

For details on how to use dspMixFx UR-C, refer to the dspMixFx User Guide.

[https://manual.yamaha.com/audio/apps\\_software/dspmixfx/](https://manual.yamaha.com/audio/apps_software/dspmixfx/)

# Troubleshooting

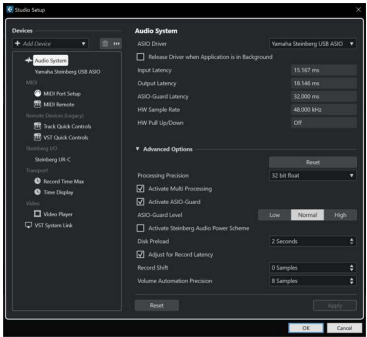
|   |  |
|---|--|
| <b>The power indicator is off</b>               | <p><b>Is the [POWER SOURCE] switch set properly?</b></p> <p>The power indicator does not light when power is not supplied to the device. Move the [POWER SOURCE] switch to the [5V DC] connector side when using AC adaptor or move the switch to [USB 3.0] connector side for bus-powered supply (computer only).</p> |
| <b>The power indicator flashes continuously</b> | <p><b>Is there a problem with power supply?</b></p> <p>The indicator flashes continuously If the power supply is insufficient. Move the [POWER SOURCE] switch to [5V DC] connector side and use the USB power adaptor or USB mobile battery for the power supply.</p>  |
|   | <p><b>Confirm whether or not a proper USB cable is used.</b></p> <ul style="list-style-type: none"> <li>• Make sure to use the included USB cable.</li> <li>• For a connecting the device to the USB Type-C port of a computer, use a commercially available USB 3.1 Type-C to Type-C cable.</li> </ul>                |
| <b>The USB indicator flashes continuously</b>   | <p><b>Has TOOLS for UR-C been installed properly? (Computer only)</b></p> <p>The indicator flashes continuously when the computer or iOS device does not recognize the device. Refer to the Setup Guide instructions to complete the TOOLS for UR-C installation.</p>  |
| <b>No Sound</b>                                 | <p><b>Has TOOLS for UR-C been installed properly? (Computer only)</b></p> <p>Refer to the Setup Guide instructions to complete the TOOLS for UR-C installation.</p>  |
|   | <p><b>Confirm that a proper USB cable is being used.</b></p> <p>Make sure to use the included USB cable.</p>   |
|   | <p><b>Are the volume controls of the device set to appropriate levels?</b></p> <p>Confirm the levels of the [OUTPUT] knob and [PHONES] knob.</p>   |
|   | <p><b>Are the microphones and monitor speakers connected to the device properly?</b></p> <p>Refer to the section “Connection Example” (pages <a href="#">8</a>, <a href="#">13</a>) to confirm the connection.</p>   |
|   | <p><b>Are the audio driver settings on DAW software set properly?</b></p> <p>Refer to the section “Configuring the Audio Driver Settings on DAW Software” (<a href="#">page 10</a>) to set it.</p>   |

No Sound

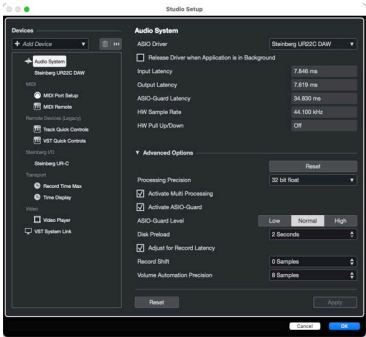
Is the [ASIO Driver] setting on the Cubase series program set properly?

From the Cubase series menu, open the [Studio] → [Studio Setup] → [Audio System], then confirm that the [Yamaha Steinberg USB ASIO] (Windows) or [Steinberg UR22C DAW] or [Steinberg UR22C DAW (High Precision)] (Mac) is selected on the [ASIO Driver].

Windows



Mac



Was the power of the device turned on before starting the DAW software?

Before starting the DAW software, connect the device to a computer and turn on the power of the device.

Is the input/output routing set properly?

Refer to the section “Recording/Playback” (page 11) to check the input/output routing in the DAW.

Is the monitor speaker switch turned on?

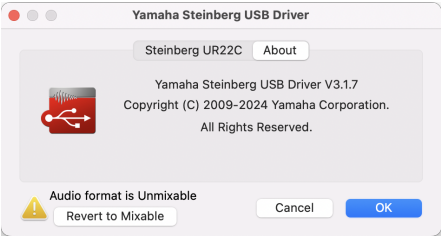
Confirm that the monitor speaker switch is turned on.

Is the buffer size set too low?

Increase the buffer size compared to the current settings; refer to the section “Yamaha Steinberg USB Driver” (page 6) for instructions.

Is the error message “Audio Format is Unmixable” shown? (Mac only)

The error message “Audio Format is Unmixable” is shown in the Yamaha Steinberg USB control panel. Click [Revert to Mixable] to resolve the error.



|  |   |
|--|---|
| <b>Unusual sound</b><br>(noise, interruption, or distortion) | <b>Does your computer satisfy the system requirements?</b><br>Confirm the system requirements. Refer to the following Yamaha website for the latest information.<br><a href="https://www.yamaha.com/2/urx22c/">https://www.yamaha.com/2/urx22c/</a>                                       |
|  | <b>Is the USB Mode set properly?</b><br>Depending on the USB host controller in your computer, audio dropout might occur when SuperSpeed (USB 3.1 Gen1) mode is used. In such a case, please try switching to High-Speed (USB 2.0) mode in the Yamaha Steinberg USB Driver Control Panel. |
|  | <b>Are you recording or playing long continuous sections of audio?</b><br>The audio data processing capabilities of your computer will depend on a number of factors including CPU speed and access to external devices. Reduce the audio tracks and check the sound again.               |
|  | <b>Are the microphones properly connected to the device?</b><br>Connect a microphone with an XLR plug to the device. If you use a phone plug, the volume may be insufficient.   |
|  | <b>Is the loopback function set properly?</b><br>Set loopback to off in the dspMixFx master area if you won't be using the loopback function.   |
|  | <b>Is the error message “Audio Format is Unmixable” shown? (Mac only)</b><br>The error message “Audio Format is Unmixable” is shown in the Yamaha Steinberg USB control panel. Click [Revert to Mixable] to resolve the error.  |

Refer to the following Yamaha website for the latest support information.

<https://www.yamaha.com/2/urx22c/>

# Appendix

## Limitations on the Use of Effects

The URX22C features six Channel Strips and two Guitar Amp Classics.

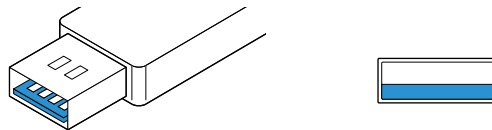
Simultaneous use of the Channel Strips and Guitar Amp Classics on the same channel is possible since two slots are provided for inserting effects in to each input channel.

However, the following restrictions apply.

- Two Channel Strips and two Guitar Amp Classics cannot be used in the same channel.
- Guitar Amp Classics cannot be used in stereo channels.
- Guitar Amp Classics cannot be used when the sample rate is set to 176.4 kHz or 192 kHz.

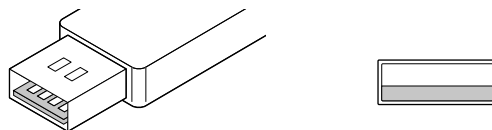
## Computer Connector Types

### USB 3.0 Type A



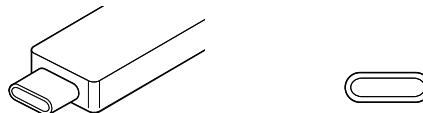
When connecting the device to a USB 3.0 Type-A port of the computer, you will need the included USB cable.

### USB 2.0 Type A



When connecting the device to a USB 2.0 Type-A port of the computer, you will need the included USB cable and a commercially available USB power adaptor or USB mobile battery.

### USB 3.1 Type C



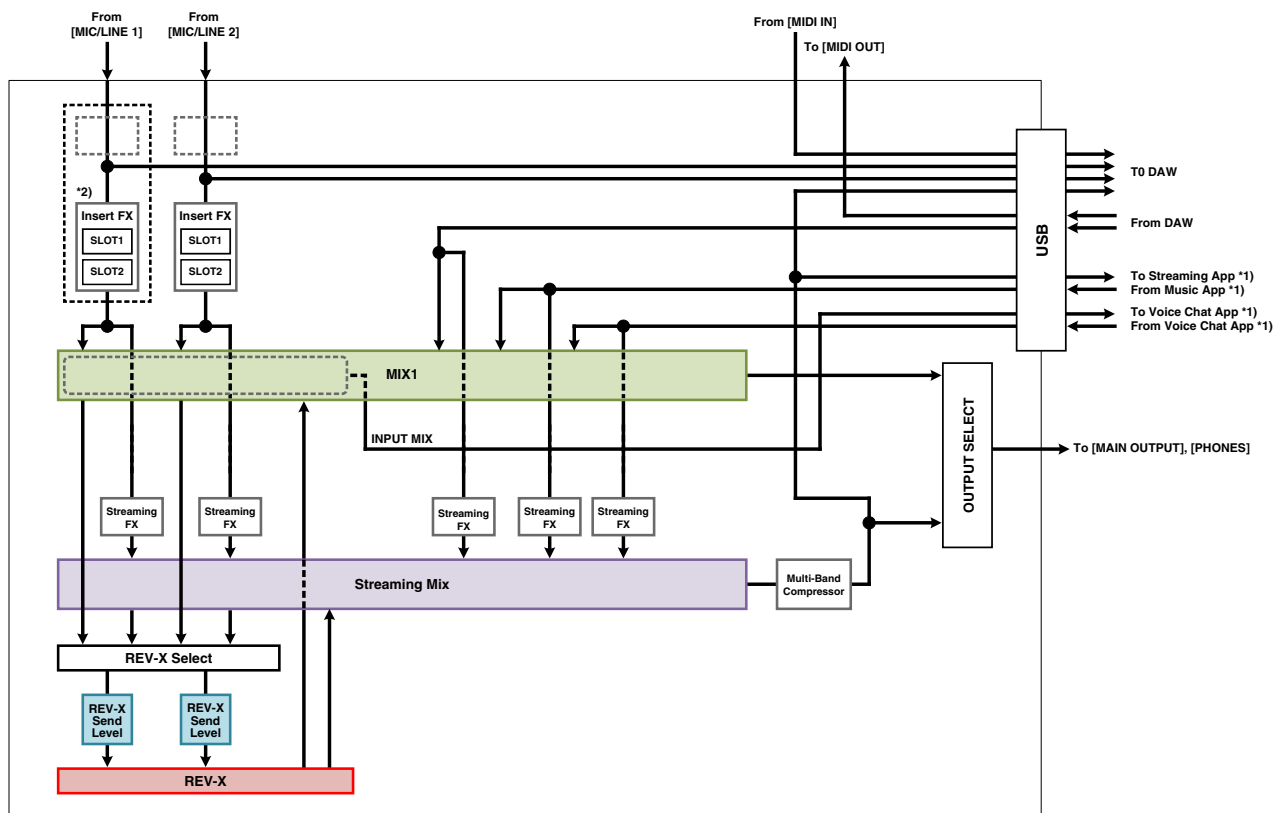
When connecting the device to a USB 3.1 Type-C port, you will need a commercially available USB 3.1 Type-C to Type-C cable (optional).

## Signal Flows

The following chart indicates the signal flow in the device.

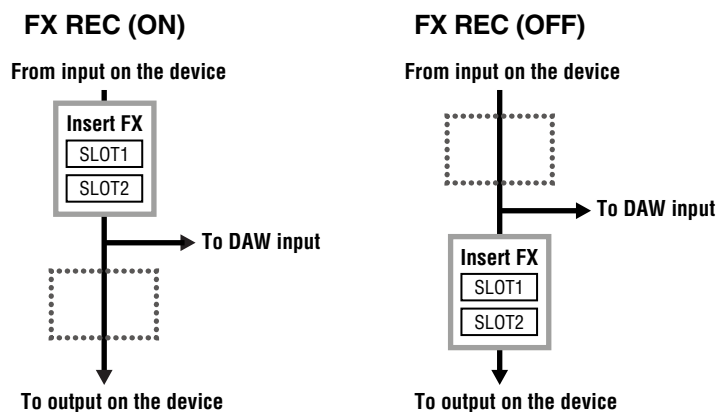
### NOTE

- The controllers on the device, such as the [INPUT GAIN] knobs, [OUTPUT] knob are not included in this chart.
- The built-in Guitar Amp Classics can't be used if the sampling frequency is 176.4 kHz or 192 kHz.



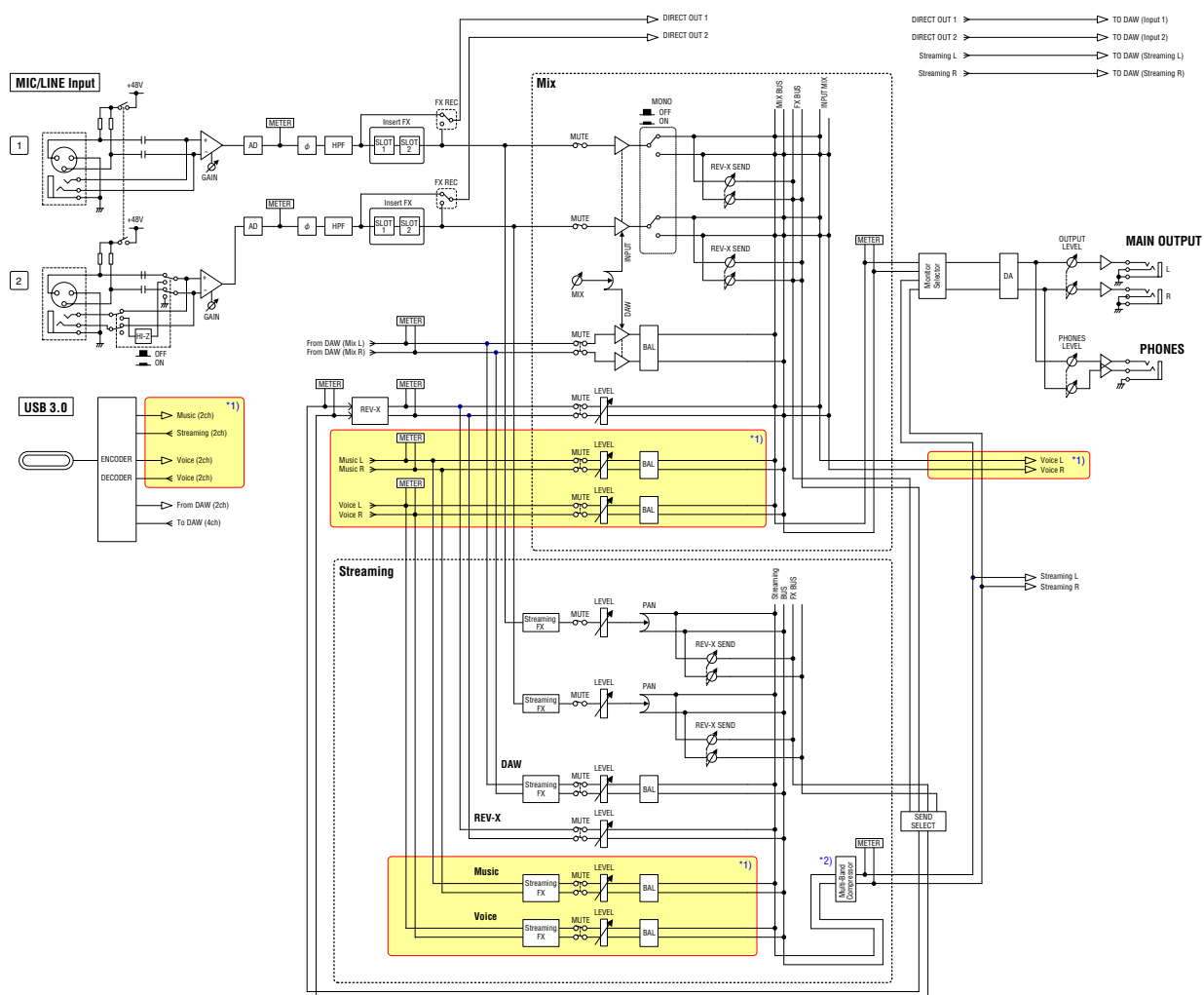
\*1) Cannot be used when connected to an iPhone or iPad.

\*2) The following chart indicates an effect insertion location.



- Set FX REC ON when recording the DSP effect processed signal with the DAW.
- Set FX REC OFF when recording a signal without DSP effect processing with the DAW.


# Block Diagrams



\*1) Not available when connecting iPhone or iPad.

\*2) Not available when sample rate is 176.4 kHz or 196 kHz.

## Technical Specifications

| <b>MIC INPUT 1/2 (balanced)</b>         |   |
|---|---|
| Frequency Response                      | +0.0/-0.4 dB, 20 Hz – 22 kHz  |
| Dynamic Range                           | 102 dB, A-Weighted  |
| THD+N                                   | 0.003%, 1 kHz, 22 Hz/22 kHz BPF   |
| Maximum Input Level                     | +6 dBu  |
| Input Impedance                         | 4 k $\Omega$  |
| Gain Range                              | +6 dB – +60 dB  |
| <b>HI-Z INPUT 2 (unbalanced)</b>        |   |
| Maximum Input Level                     | +9.0 dBV  |
| Input Impedance                         | 1 M $\Omega$  |
| Gain Range                              | 0 dB – +54 dB   |
| <b>LINE INPUT 1/2 (balanced)</b>        |   |
| Maximum Input Level                     | +22 dBu   |
| Input Impedance                         | 18.5 k $\Omega$   |
| Gain Range                              | -10 dB – +44 dB   |
| <b>MAIN OUTPUT (Impedance balanced)</b> |   |
| Frequency Response                      | +0.0/-0.2 dB, 20 Hz – 22 kHz  |
| Dynamic Range                           | 105 dB, A-Weighted  |
| THD+N                                   | 0.002%, 1 kHz, 22 Hz/22 kHz BPF   |
| Maximum Output Level                    | +12 dBu   |
| Output Impedance                        | 150 $\Omega$  |
| <b>PHONES</b>                           |   |
| Maximum Output Level                    | 15 mW +15 mW, 40 $\Omega$   |
| <b>USB</b>                              |   |
| Specification                           | USB 3.0, 32-bit, 44.1 kHz/48 kHz/88.2 kHz/96 kHz/176.4 kHz/192 kHz  |
| <b>XLR INPUT</b>                        |   |
| Polarity                                | <div>  1: Ground<br/> 2: Hot (+)<br/> 3: Cold (-) </div> |

## General Specifications

|   |  |
|---|--|
| <b>Power Requirements</b>                   | 4.5 W  |
| <b>Dimensions (W x H x D)</b>               | 159 x 47 x 159 mm  |
| <b>Net Weight</b>                           | 1.0 kg   |
| <b>Operating Free-air Temperature Range</b> | 0 °C – 40 °C   |
| <b>Included Accessories</b>                 | <ul style="list-style-type: none"> <li>• USB 3.0 cable (3.1 Gen1, Type-C to Type-A, 1.0 m)</li> <li>• Setup Guide</li> <li>• Cubase AI License Card</li> <li>• Basic FX Suite License Card</li> <li>• Steinberg Plus License Card</li> </ul> |

The contents of this manual apply to the latest specifications as of the publishing date. Download the latest version from the Yamaha website.

## Uninstalling TOOLS for UR-C

To uninstall the software, you must remove the following software one by one.

- Yamaha Steinberg USB Driver
- Steinberg UR-C Applications
- Basic FX Suite

Follow the steps below to uninstall TOOLS for UR-C.

### Windows

- 1. Disconnect all USB devices other than the mouse and keyboard from the computer.**
- 2. Start the computer and log on to the Administrator account.**  
Exit any open applications and close all open windows.
- 3. Open the window for the uninstall operation as follows.**  
[Control Panel] → [Uninstall a Program] to call up the [Uninstall or change a program] panel.
- 4. Select the software to be uninstalled from the list.**
  - Yamaha Steinberg USB Driver
  - Steinberg UR-C Applications
  - Basic FX Suite
- 5. Click the [Uninstall] / [Uninstall /Change].**  
If the [User Account Control] window appears, click [Continue] or [Yes].
- 6. Follow the on-screen instructions to remove the software.**

Repeat steps 4 through 6 to uninstall the remaining software you have not selected.

Uninstalling TOOLS for UR-C is now complete.

### Mac

- 1. Disconnect all USB devices other than the mouse and keyboard from the computer.**
- 2. Start the computer and log in to the Administrator account.**  
Exit any open applications and close all open windows.
- 3. Extract the TOOLS for UR-C that you downloaded in advance.**
- 4. Double-click the following file in the extracted folder.**
  - Uninstall Yamaha Steinberg USB Driver
  - Uninstall Steinberg UR-C Applications
  - Uninstall Basic FX Suite
- 5. Click [Run] when the “Welcome to the \*\*\*uninstaller.” message appears.**  
The characters \*\*\* represent the software name. After that, follow the onscreen instructions to uninstall the software.
- 6. Click [Restart] or [Close] when the “Uninstallation completed.” message appears.**
- 7. When the message prompting you to restart your computer appears, click [Restart].**

Repeat steps 4 through 7 to uninstall the remaining software you have not selected.

Uninstalling TOOLS for UR-C is now complete.

Yamaha Global website  
<https://www.yamaha.com/>  
  
Yamaha downloads  
<https://download.yamaha.com/>