YAMAHA

UR22 MK3
UR12 MK3

USB AUDIO INTERFACE

User Guide

EN

Contents

Main Features

USB Type-C™ Audio Interface with 24-bit/192 kHz support

The URMK3 series is an audio interface that was developed primarily to meet the needs of music production, but has evolved to handle music streaming as well, powerfully supporting music activities focused on online use.

Updated audio input/output

Through a review of the preamp circuitry design and AD/DA, which is a crucial basic feature for music production, we expanded the dynamic range and improved the overall audio performance of this unit. We also reviewed the headphone output level to make recording more comfortable, and designed the unit in consideration of synchronized performances using a click monitor as well as the monitoring environment for simultaneous recording of bands.

Built-in functions appropriate for real-time streaming

We've incorporated features that are useful for real-time streaming, including a much-needed loopback function for streaming the sound of your computer, switches to easily mute the input sound of your microphones and so forth.

Compact design available in two colors

This new product features a compact external design that can be comfortably used even in production rooms that are short on space. Select from one of two color variations, black or white according to your tastes.

Before Using this Product

Manuals

There are two types of manuals included with the UR22MK3 and UR12MK3.

■ UR22MK3 UR12MK3 Setup Guide

This manual describes precautions for safe use of the UR22MK3 and UR12MK3, and provides information on power supplies, product specifications, and product support. It is intended for use by all creators who use these products.

■ UR22MK3 UR12MK3 User Guide (this manual)

This manual describes the functions and how to use the UR22MK3 and UR12MK3. It is intended for use by those who have basic knowledge of music production and distribution.

Conventions in this Manual

■ Windows and Mac

If a procedure or explanation differs between Windows and Mac, or if a function is available only on one OS, the name of the OS is indicated. If no OS is indicated, the operation is the same for both operating systems. Images that are used in explanations are from the Windows version.

However, if a function is available only for the Mac version, images from the Mac version are used.

■ Cubase Series

In this manual, “Cubase Series” refers to all grades of Cubase (except Cubase LE). If an explanation refers to a specific grade, that grade is indicated. Images that are used in explanations are from the Cubase 12 series. If you are using another version of Cubase, it might differ from the images that are shown. Please refer to your Cubase manual for details.

■ Cubasis Series

Images that are used in explanations are from Cubasis 3. If you are using another version of Cubasis, it might differ from the images that are shown.

■ Procedures

“→” symbols are used in some procedures to keep explanations simple. For example, [Studio] → [Studio Setup] → [Yamaha Steinberg USB ASIO] → [Control Panel] indicates the following series of operations.

1. Click the [Studio] menu.
2. Select the [Studio Setup] option.
3. Select [Yamaha Steinberg USB ASIO].
4. Click [Control Panel].

■ Version information

Versions are indicated as x.x.x and x.xx.

Notice

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

■ Handling and maintenance

- 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.
- Do not use the product in the vicinity of a TV, radio, or other electric products. Otherwise, the product, TV, or radio may generate noise.
- Do not expose the product to excessive dust or vibration, or extreme cold or heat, in order to prevent the possibility of panel disfiguration, unstable operation, or damage to the internal components.
- Do not install in locations where temperature changes are severe. Otherwise, condensation may form on the inside or the surface of the product, causing it to break.
- If there is reason to believe that condensation might have occurred, leave the product for several hours without turning on the power until the condensation has completely dried out, in order to prevent possible damage.

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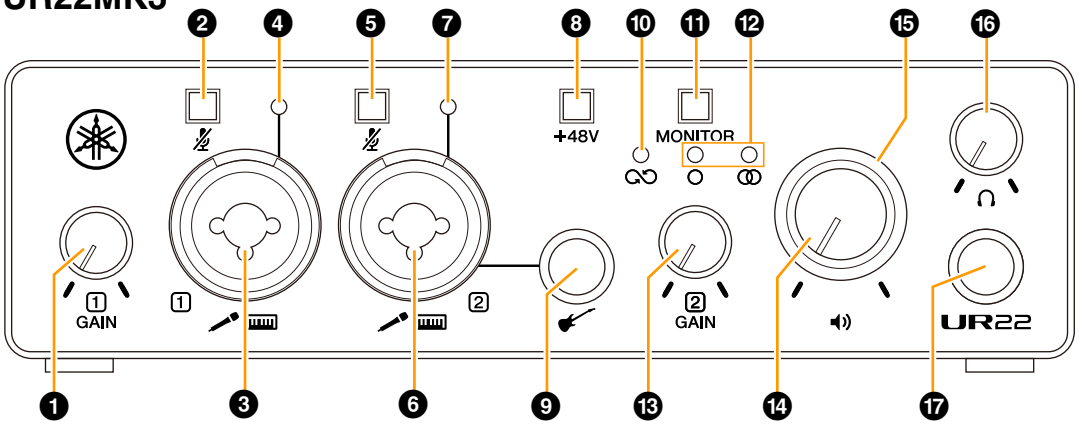
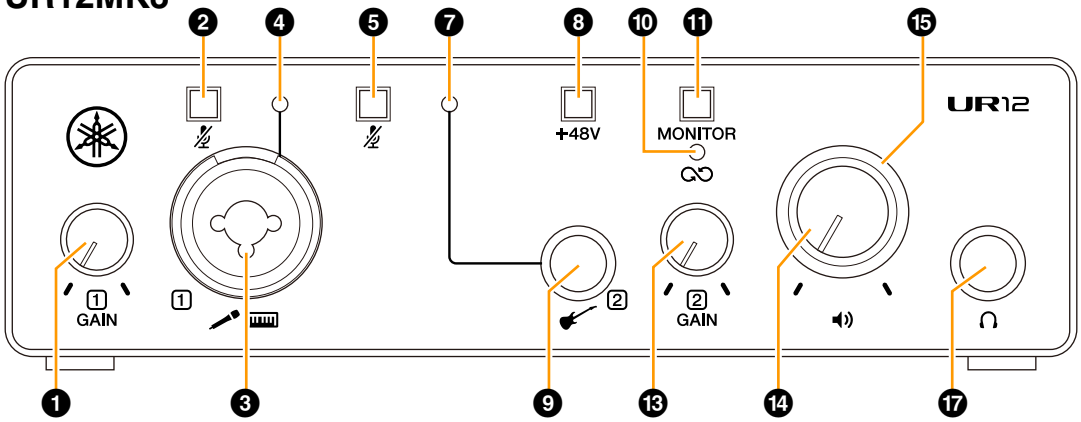
Panel Controls and Terminals

Front Panel

UR22MK3



UR12MK3



❶ [INPUT 1 GAIN] knob

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

❷ [INPUT 1 🎤 (Mute)] switch

Mutes the input signal of the [MIC/LINE 1] connector. The switch lights up when the input signal is muted.

❸ [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.

NOTE

Phantom power is supplied when an XLR plug is connected to the [MIC/LINE 1] connector.

❹ [INPUT 1 SIG/PEAK] indicator

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

Adjust the input signal level so that this indicator lights up green at normal volumes and flashes red briefly at the loudest input volume.

Lamp Color	Description
Red	–3 dBFS or greater
Green	From –20 dBFS to less than –3 dBFS
Off	Less than –20 dBFS

❺ [INPUT 2 🎤 (Mute)] switch

UR22MK3: Mutes the input signal of the [MIC/LINE 2] connector or the guitar [🎸] connector.

UR12MK3: Mutes the input signal of the guitar [🎸] connector.

The switch lights up when the input signal is muted.

❻ [MIC/LINE 2] connector (UR22MK3 only)

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

NOTE

- Phantom power is supplied when an XLR plug is connected to the [MIC/LINE 2] connector.
- If a cable is connected to the guitar [🎸] connector, the input signal to the [MIC/LINE 2] connector is canceled.

❼ [INPUT 2 SIG/PEAK] indicator

UR22MK3: Indicates the input signal level of the [MIC/LINE 2] connector or the guitar [🎸] connector.

UR12MK3: Indicates the input signal level of the guitar [🎸] connector.

Otherwise, this indicator operates the same as the ❹ [INPUT 1 SIG/PEAK] indicator.

❽ [+48V] switch

Turns the phantom power (+48V) on and off. When you turn this switch on, the phantom power will be supplied to the XLR plug connected to the [MIC/LINE 1, 2] connectors. Turn this switch on when using a phantom powered condenser microphone.

The switch lights up when phantom power is supplied.

NOTICE

When using phantom power, observe the following to prevent noise and possible damage to UR22MK3/UR12MK3 or connected equipment.

- **Do not connect or disconnect any devices while the phantom power switch is turned to ON.**
- **Set the PHONES level knob and the OUTPUT level knob to the minimum before turning the phantom power switch to ON or OFF.**
- **When connecting devices not requiring phantom power to the [MIC/LINE 1, 2] connectors, make sure to turn the phantom power switch to OFF.**

❾ Guitar [🎸] connector

Connect a high impedance instrument, such as an electric guitar or electric bass, to this connector. Use an unbalanced phone plug to connect an instrument to this connector.

NOTE

For UR22MK3, if a cable is connected to the guitar [🎸] connector, the input signal to the [MIC/LINE 2] connector is canceled.

❿ Loopback [∞] indicator

Lights up when the loopback function is on.

⓫ [MONITOR] switch

Turns the loopback and direct monitoring functions on and off. This switch lights up when direct monitoring is on. Each press of this switch toggles the loopback and direct monitoring functions between on and off.

For UR22MK3, it also switches between MONO/STEREO for direct monitoring. Press and hold the switch for more than 1 second to turn the loopback function on and off without changing the setting for direct monitoring.

HINT

What Is Loopback?

Loopback is a convenient function for broadcasting over the Internet. It mixes the input audio signals (such as microphone and guitar) with the audio signals playing back in the software in the computer into UR22MK3/UR12MK3, and sends them back to the computer. Refer to the block diagrams (page 21) for the specific signal path.

What Is Direct Monitoring?

This function outputs audio signals (such as microphone and guitar) to the [LINE OUT L/R] connectors or PHONES [🎧] connector without going through a computer or an app on an iOS/iPadOS device.

⓬ MONO [○], STEREO [◎] indicators (UR22MK3 only)

The MONO [○] indicator lights up if both INPUT 1 and 2 are output to the [LINE OUT L/R] connectors or both L and R channels of PHONES [🎧] connector.

The STEREO [◎] indicator lights up if INPUT 1 is output only to the L channel and INPUT 2 is output only to the R channel. To treat INPUT 1 and 2 as individual input channels, use the [MONITOR] switch to set them to MONO [○]. To treat them as stereo inputs, set them to STEREO [◎].

⓭ [INPUT 2 GAIN] knob

UR22MK3: Adjusts the input signal level (GAIN) of the [MIC/LINE 2] connector or the guitar [🎸] connector.

UR12MK3: Adjusts the input signal level (GAIN) of the guitar [🎸] connector.

⓮ OUTPUT [🔊] level knob

Adjusts the output signal level of the [LINE OUT L/R] connectors.

For UR12MK3, the output signal level of the PHONES [🎧] connector is also changed at the same time.

⓯ Power indicator

Lights up when the power is turned on. The indicator flashes continuously if the power supply is insufficient.

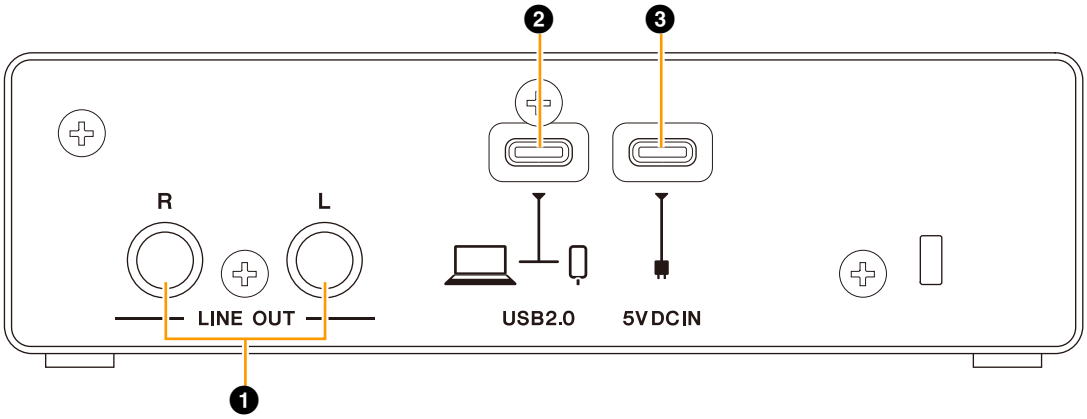
⓰ PHONES [🎧] level knob (UR22MK3 only)

Adjusts the output signal level of the headphones.

⓱ PHONES [🎧] connector

For connection to a set of stereo headphones.

Rear Panel



❶ [LINE OUT L/R] connectors

For connection to external equipment or monitor speakers. These connectors can be connected to phone-type (balanced/unbalanced) plugs. To adjust the output signal level, use the OUTPUT [🔊] level knob on the front panel.

❷ [USB 2.0] port

For connection to a computer or iOS/iPadOS device.

NOTICE

When connecting to a computer with a [USB 2.0] port, observe the following to prevent the computer from freezing or shutting down, as well as corruption or even loss of data.

- **Before using a USB cable to connect the device to a computer, deactivate the power-saving (suspend/sleep/standby) mode of the computer.**
- **Before connecting/disconnecting a USB cable, quit all open software applications.**
- **Before connecting/disconnecting a USB cable from the [USB 2.0] port, set the speaker output knob to minimum.**
- **Wait at least 6 seconds between connecting/disconnecting a USB cable.**

NOTE

- Apple accessories might be required when connecting UR22MK3/UR12MK3 with iOS/iPadOS devices.
- USB-C to Lightning cables that are supplied with an iPhone/iPad are not supported.
- An Apple Lightning-USB3 Camera Adaptor is required to connect to an iPhone/iPad with a Lightning port.

❸ [5V DC IN] port

For connecting a USB power adaptor or USB mobile battery. Connect a USB Type-C plug to this port.

Use a power supply when connecting UR22MK3/UR12MK3 to a device that does not supply sufficient bus power, such as an iOS/iPadOS device. (UR22MK3/UR12MK3 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 accepts a USB Type-C plug and can supply power in compliance with the following standards.**
  Output voltage: 5 V DC
  Output current: 0.5 A or greater

Software

This section explains how to use the Yamaha Steinberg USB Driver with a computer.

Yamaha Steinberg USB Driver

Yamaha Steinberg USB Driver is a software program that allows communication between UR22MK3/UR12MK3 and a computer. In Control Panel, you can configure the basic settings for the audio driver (Windows) or confirm the audio driver information (Mac).

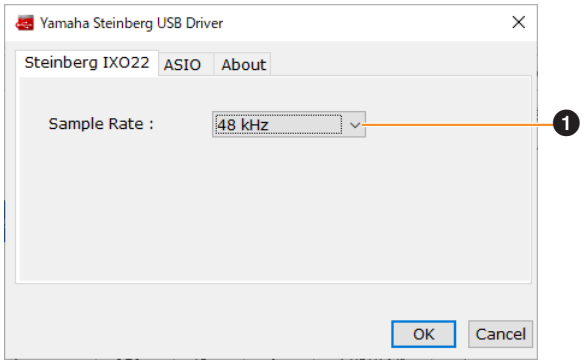
■ Windows

How to Open the Window

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

How to Select Windows

Click on the tabs at the top of the window to switch windows.



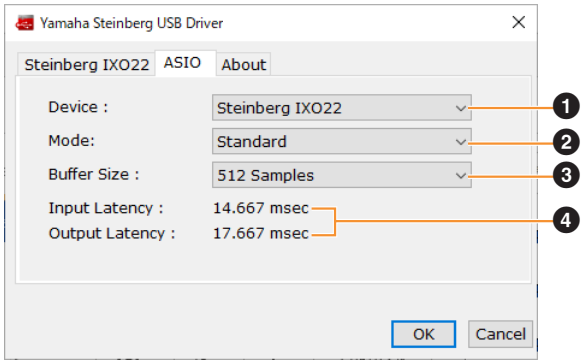
❶ Sample Rate

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

ASIO Window

For selecting the ASIO driver settings.



❶ 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.)

❷ Mode

Lets you select the latency mode.

Setting	Description
Low Latency	Low latency mode. High-performance computer is required.
Standard	Standard latency mode.
Stable	High latency mode. This prioritizes stability for low-performance computer and high-load projects.

❸ Buffer Size

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

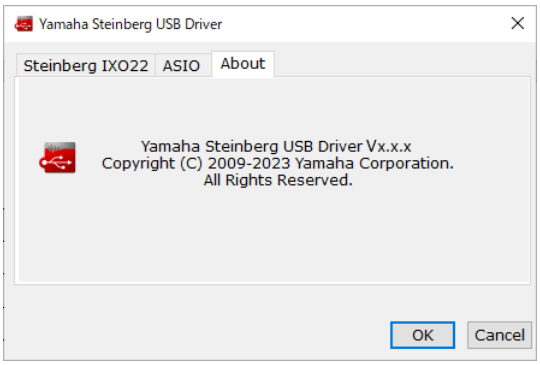
Sample Rate	Range
44.1 kHz/48 kHz	32 Samples–2048 Samples
88.2 kHz/96 kHz	64 Samples–4096 Samples
176.4 kHz/192 kHz	128 Samples–8192 Samples

❹ Input Latency/Output Latency

Indicates the latency (delay time) for the audio input and output in millisecond units. The latency value depends on the buffer size. The lower the value of the buffer size, the lower the value of audio latency.

About Window

Indicates the version and copyright information of the audio driver.



■ Mac

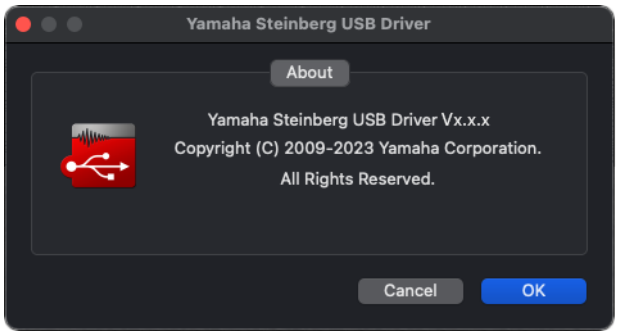
How to Open the Window

- Select [Applications] → [Yamaha Steinberg USB Control Panel].
- From the Cubase series menu, select [Studio] → [Studio Setup] → [Steinberg IXO** DAW] → [Control Panel] → [Open Config App].

Either 22 or 12 is shown in place of **.

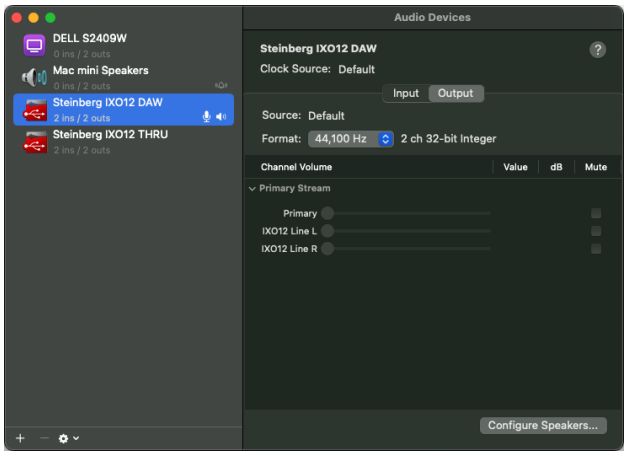
About Window

Indicates the version and copyright information of the audio driver.



How to Select the Sample Rate

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.

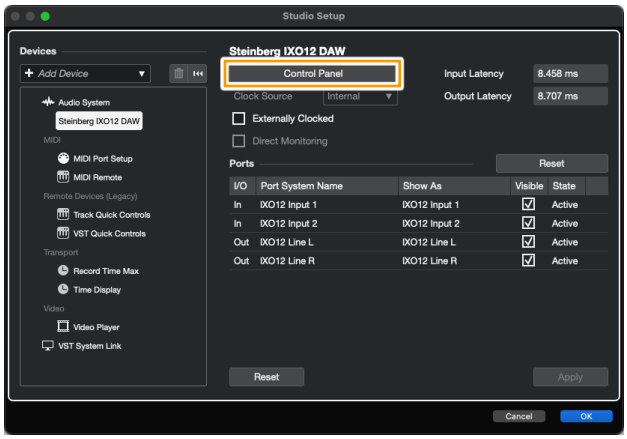


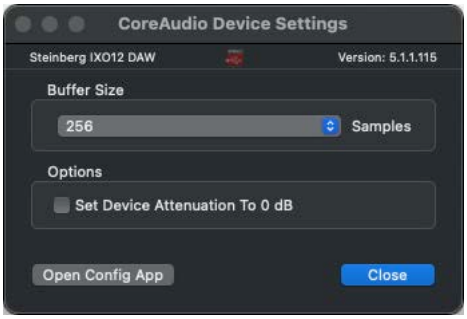
How to Select the Buffer Size

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 IXO** DAW] in the menu on the left side of the window and select a buffer size in the “CoreAudio Device Settings” window. (Either 22 or 12 is shown in place of **.)

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

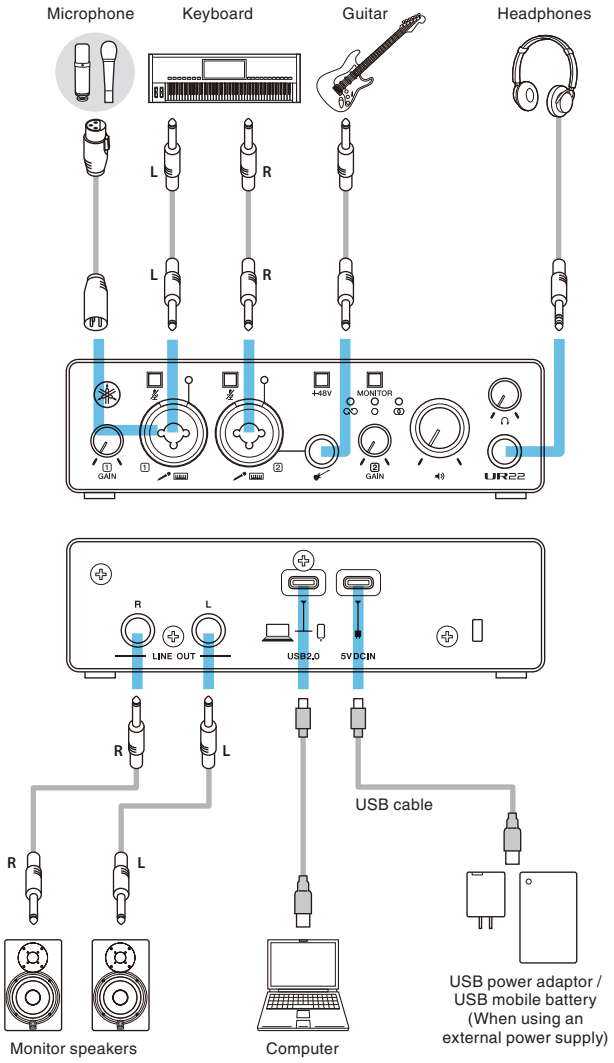




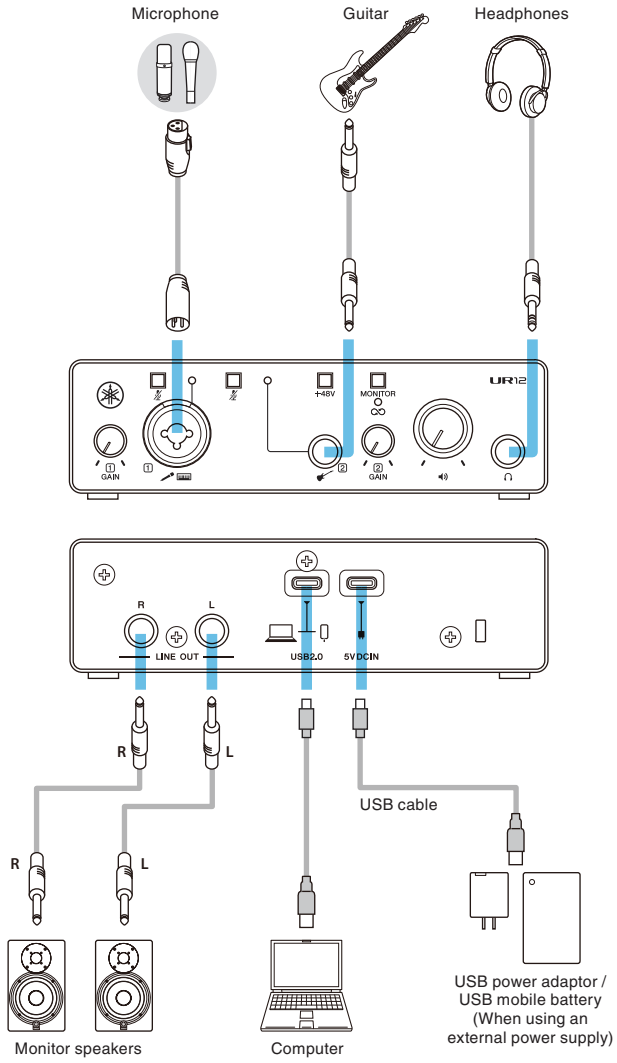
Using with a Computer

Connection Example

UR22MK3



UR12MK3



NOTE

- Use the supplied USB 2.0 cable (Type-C to Type-A) for connecting to a computer.
- If your computer does not have a USB A port, use a commercially available USB C to USB C cable.
- Do not use a USB hub. Make a direct connection.
- Refer to the UR22MK3 UR12MK3 Setup Guide instructions for details on how to connect a commercially available USB power adaptor or USB mobile battery.

NOTE

For UR22MK3, if a cable is connected to the guitar [🎸] connector, the input signal to the [MIC/LINE 2] connector is canceled.

Computer Settings

First, download and install the “Yamaha Steinberg USB Driver” from the Yamaha website. This driver is required for your computer to recognize UR22MK3/UR12MK3.

UR22MK3
https://www.yamaha.com/2/ur22mk3/

UR12MK3
https://www.yamaha.com/2/ur12mk3/

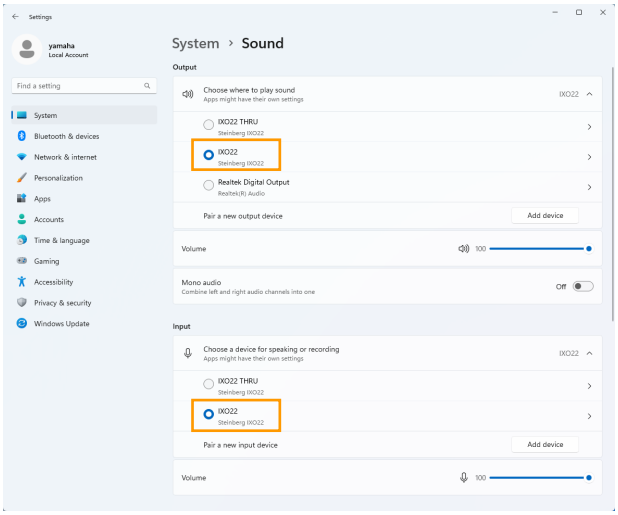
NOTE

For the installation procedure, refer to the Installation Guide that is included in the compressed file you downloaded. The Release Notes included in the compressed file you downloaded contain information about supported operating systems.

■ Windows

1. **On the “Task Bar,” open “Search.”**
   The procedure for opening this window might vary depending on your computer configuration.

2. **In the “Search” window, enter “Sound Settings.” When “Sound Settings” appears, select it.**



The image shown above is from Windows 11.

For output, select [IXO22 (Steinberg IXO22)] or [IXO12 (Steinberg IXO12)].

For input, select [IXO22 (Steinberg IXO22)] or [IXO12 (Steinberg IXO12)].

NOTE

- Do not select [IXO22 THRU (Steinberg IXO22)] or [IXO12 THRU (Steinberg IXO12)] for the output. If you select either of these, no audio will be output from the device.
- Do not select [IXO22 THRU (Steinberg IXO22)] or [IXO12 THRU (Steinberg IXO12)] for the input. Use IXO** THRU for situations such as passing audio signals between computer applications.

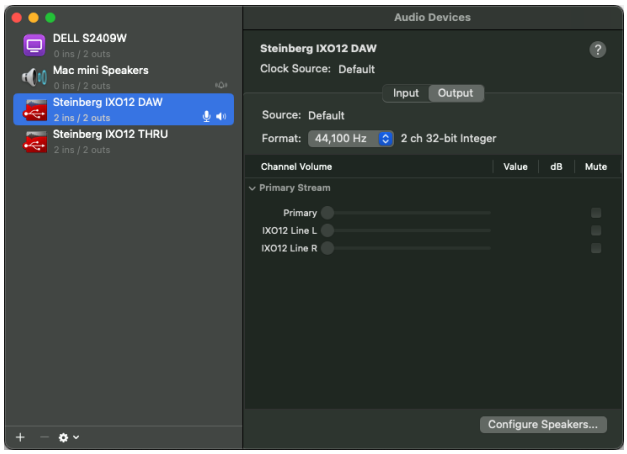
■ Mac

1. **Select “Finder” → “Go” → “Applications” → “Utilities” → “Audio MIDI Setup.”**

2. **Select [Steinberg IXO22 DAW] or [Steinberg IXO12 DAW] from the list on the left side of the Audio Devices window.**
   If the Audio Devices window is not displayed, select “Window” → “Show Audio Devices” from the menu to display it.

3. **Click [v] in the lower left corner of the window and select “Use This Device For Sound Output.”**

4. **Similarly, select “Use This Device For Sound Input.”**
   After steps 3 and 4 are completed, the microphone and speaker icons will appear in the lower right corner of [Steinberg IXO22 DAW] or [Steinberg IXO12 DAW] in the list.



NOTE

- Do not select [Steinberg IXO22 THRU] or [Steinberg IXO12 THRU] as the input or output device.
- Use IXO** THRU for situations such as passing audio signals between computer applications.

■ Configuring Audio Driver Settings on the DAW Software

Cubase Series Programs

This product includes a license for Cubase AI.

Cubase AI is DAW software for music production that allows you to record, play back, and edit audio on your computer. Refer to the following website to download and activate your license in advance.

https://www.yamaha.com/2/ur-software-1/

NOTE

A download access code is required to activate the license. Your code is printed on the included Cubase AI License Card.

Search for the Cubase AI manual at the following URL.

https://steinberg.help/

1. **Make sure that all applications have been closed.**
2. **Use the included USB cable to connect the device directly to the computer.**
3. **Double-click the shortcut of Cubase series on the desktop to start Cubase.**
4. **When the [Audio Driver Setup] window appears while the Cubase series program is launching, configure the setting as shown below.**

   Windows

   Select [Yamaha Steinberg USB ASIO] and click [OK].

   Mac

   Select [Steinberg IXO22 DAW] or [Steinberg IXO12 DAW] and click [OK].
5. **When the [Steinberg Hub] window appears, select [Empty] under [More], and then click [Create].**
6. **If the [Audio Driver Setup] window did not appear in step 4, select [Studio] → [Studio Setup] → [ASIO Driver] under [Audio System], and configure the setting as shown below.**

   Windows

   Select [Yamaha Steinberg USB ASIO] and click [OK].

   Mac

   Select [Steinberg IXO22 DAW] or [Steinberg IXO12 DAW] and click [OK].
7. **Select [Studio] → [Audio Connections] → [Inputs], and configure Audio Devices as shown below.**

   Windows

   Select [Yamaha Steinberg USB ASIO].

   Mac

   Select [Steinberg IXO22 DAW] or [Steinberg IXO12 DAW].
8. **Select [Studio] → [Audio Connections] → [Outputs], and configure the settings in the same way as step 7.**

The audio driver settings are now complete.

For more information about the Cubase series, please read the Cubase series operation manual.

Programs Other Than Cubase Series

1. **Make sure that all applications have been closed.**
2. **Use the included USB cable to connect the device directly to the computer.**
3. **Launch the DAW software.**
4. **Open the audio interface settings window.**
5. **(Windows only) Select the ASIO Driver for the audio driver settings.**
6. **Set the ASIO Driver for Windows and audio interface for Mac as shown below.**

   Windows

   Select [Yamaha Steinberg USB ASIO] as the ASIO driver.

   Mac

   Select [Steinberg IXO22 DAW] or [Steinberg IXO12 DAW] as the audio interface.

The audio driver settings are now complete.

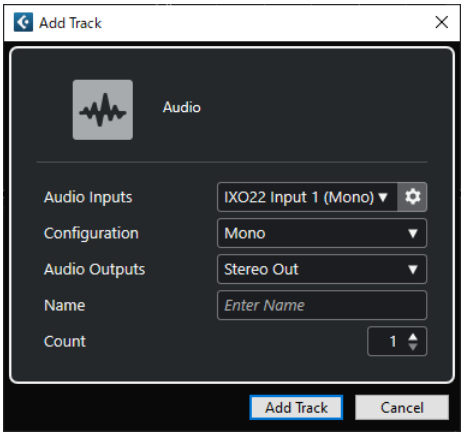
■ Recording/Playback

This section explains simple recording/playback operations for using a microphone. Connect a microphone to the [MIC/LINE 1] connector as shown in the connection example (page 10). Turn the [+48V] switch on when using a phantom powered condenser microphone.

The following explanation assumes that the device is set to the factory settings (loopback off, direct monitoring on (MONO)).

Cubase Series Programs

1. **Launch the Cubase series DAW and display the [Steinberg Hub] window.**
2. **Select the template [Empty] in [More] in the [Steinberg Hub] window, then click [Create].**
3. **In the Project window, click [Project] → [Add Track] → [Audio] to display [Add Track].**
4. **Select [Audio Inputs], set [Configuration] to [Mono], enter a [Name], and set [Count] to [1], and then click [Add Track] to create a new audio track.**



5. **Confirm that the [Record Enable] indicator is on and the [Monitor] indicator is off for the added audio track.**

NOTE

To monitor the sound through the Cubase series software without using direct monitoring on the device, turn [Monitor] on.

6. **While singing into the microphone, adjust the input signal level of the microphone with the [INPUT 1 GAIN] knob on the device.**
7. **While singing into the microphone, adjust the output signal level of the headphones with the PHONES [∩] level knob on the device (UR22MK3). For UR12MK3, adjust the output signal level with the OUTPUT [🔊] level knob.**
8. **Click [○] to start recording.**

9. **When finished, click [□] to stop recording.**

10. **Turn [Monitor] off for the just recorded audio track.**
11. **Click the ruler to move the project cursor to the desired point for starting playback.**

12. **Click [▷] to check the recorded sound. When listening to the sound over monitor speakers, adjust the output signal level by the OUTPUT [🔊] level knob on the device.**

The recording and playback operations are now complete.

Programs Other Than Cubase Series

1. **Launch the DAW software.**
2. **While singing into the microphone, adjust the input signal level of the microphone with the [INPUT 1 GAIN] knob on the device.**
3. **While singing into the microphone, adjust the output signal level of the headphones with the PHONES [∩] level knob on the device (UR22MK3). For UR12MK3, adjust the output signal level with the OUTPUT [🔊] level knob.**
4. **Start recording on your DAW software.**
5. **When finished, stop recording.**
6. **Play back the newly recorded sound to check it.**

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

Live Streaming

This section describes how to stream audio with a microphone connected to the device, such as when gaming on your computer or when chatting while playing a video/music source.

Connect a microphone to the [MIC/LINE 1] connector as shown in the connection example (page 10). Turn the [+48V] switch on when using a phantom powered condenser microphone.

1. **Use the [MONITOR] switch on the device to set loopback to ON and direct monitoring to ON (MONO).**

   > **HINT**
   > Loopback is a convenient function for broadcasting over the Internet. It mixes the input audio signals (such as microphone and guitar) with the audio signals playing back in the software in the computer into UR22MK3/UR12MK3, and sends them back to the computer.

   NOTE
   When using the loopback function, turn off the monitoring function of the DAW software. If you use the loopback function while monitoring the input signal from the device via the DAW software, feedback which makes a huge noise will be generated. This occurs because an infinite loop of audio signals is created between the device and the DAW software.

2. **While singing into the microphone, adjust the input signal level of the microphone with the [INPUT 1 GAIN] knob on the device.**
3. **While singing into the microphone, adjust the output signal level of the headphones with the PHONES [🎧] level knob on the device (UR22MK3). For UR12MK3, adjust the output signal level with the OUTPUT [🔊] level knob.**

   > **HINT**
   > Adjust the playback level in your computer software to balance the volume with the microphone.

4. **Launch the streaming software.**
5. **Open the audio interface settings window.**

   Windows
   Select [IXO22 (Steinberg IXO22)] or [IXO12 (Steinberg IXO12)] as the audio interface.

   Mac
   Select [Steinberg IXO22 DAW] or [Steinberg IXO12 DAW] as the audio interface.

6. **Start streaming.**
7. **If you leave your seat during a live stream, turn on the [🎤 (Mute)] switch to mute the microphone.**

■ How to Stream Using OBS (Basic Use)

This section describes how to use streaming software, using OBS as an example. For information on how to download and install OBS, refer to the official OBS website.

Steps 1 through 3 are the same as described in the previous procedure.

4. **Launch OBS.**
5. **From “File,” open the “Settings” window.**
6. **Select “Audio” in the navigation menu on the left.**
7. **Set “Desktop Audio” under “Global Audio Devices” to “Default” or “Disabled.”**
8. **Similarly, set “Mic/Auxiliary Audio” under “Global Audio Devices” as shown below.**

   Windows
   Select [IXO22 (Steinberg IXO22)] or [IXO12 (Steinberg IXO12)].

   Mac
   Select [Steinberg IXO22 DAW] or [Steinberg IXO12 DAW].

9. **Select “Stream” in the navigation menu on the left.**
10. **Select a streaming service. If necessary, enter the streaming key provided by the service.**
11. **Close the “Settings” window.**
12. **Start streaming.**

■ How to Stream Using OBS (Advanced Use)

UR22MK3 and UR12MK3 have a USB THRU function that, in combination with the Yamaha Steinberg USB Driver installed on your computer, uses the audio output signal from the computer as a separate audio input signal. This section describes how to use that function when streaming to balance the microphone volume and the audio signal from the software with the audio mixer in OBS.

1. **Use the [MONITOR] switch on the device to set loopback to OFF and direct monitoring to ON.**
2. **While singing into the microphone, adjust the input signal level of the microphone with the [INPUT 1 GAIN] knob on the device.**
3. **While singing into the microphone, adjust the output signal level of the headphones with the PHONES [🎧] level knob on the device (UR22MK3). For UR12MK3, adjust the output signal level with the OUTPUT [🔊] level knob.**
4. **Launch OBS.**
5. **From "File," open the "Settings" window.**
6. **Select "Audio" in the navigation menu on the left.**
7. **Set "Desktop Audio" under "Global Audio Devices" to "Default" or "Disabled."**
8. **Similarly, set "Mic/Auxiliary Audio" under "Global Audio Devices" as shown below.**

   Windows

   Select [IXO22 (Steinberg IXO22)] or [IXO12 (Steinberg IXO12)].

   Mac

   Select [Steinberg IXO22 DAW] or [Steinberg IXO12 DAW].

9. **Similarly, set "Mic/Auxiliary Audio 2" under "Global Audio Devices" as shown below.**

   Windows

   Select [IXO22 THRU (Steinberg IXO22)] or [IXO12 THRU (Steinberg IXO12)].

   Mac

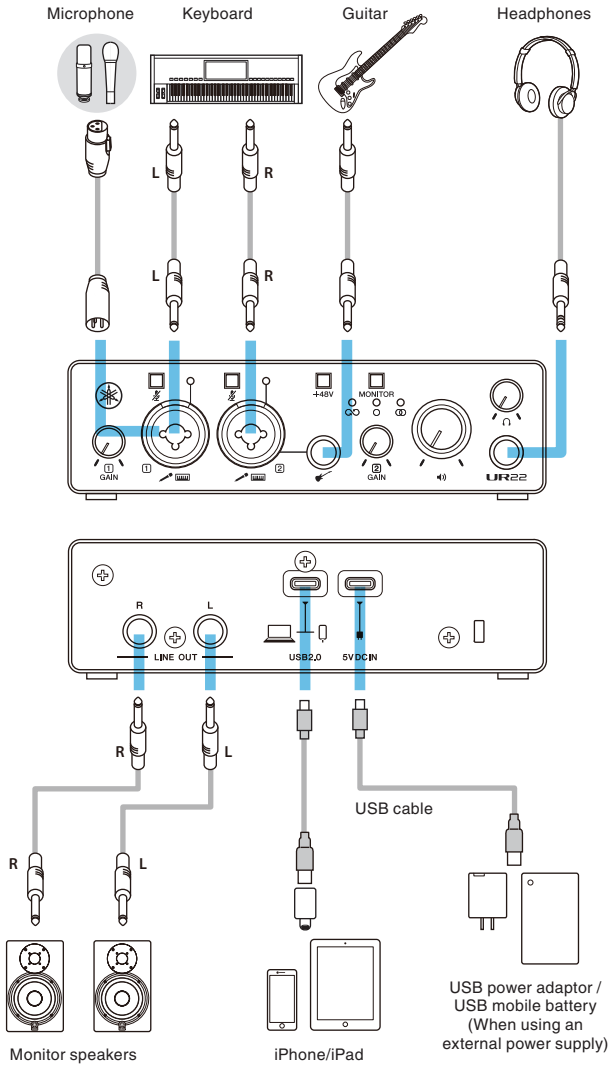
   Select [Steinberg IXO22 THRU] or [Steinberg IXO12 THRU].

10. **Select "Stream" in the navigation menu on the left.**
11. **Select a streaming service. If necessary, enter the streaming key provided by the service.**
12. **Close the "Settings" window.**
13. **Click the Properties (settings) icon in the lower left corner of the Audio Mixer window to open the "Advanced Audio Properties" window.**
14. **Select the Mono check box for the microphone. If this check box is not selected, microphone audio is broadcast only on the left channel. (Do not select the Mono check box for Mic/Aux 2.)**
15. **Close the "Advanced Audio Properties" window.**
16. **Use the sliders on the Audio Mixer window to adjust the volume balance.**
17. **Start streaming.**

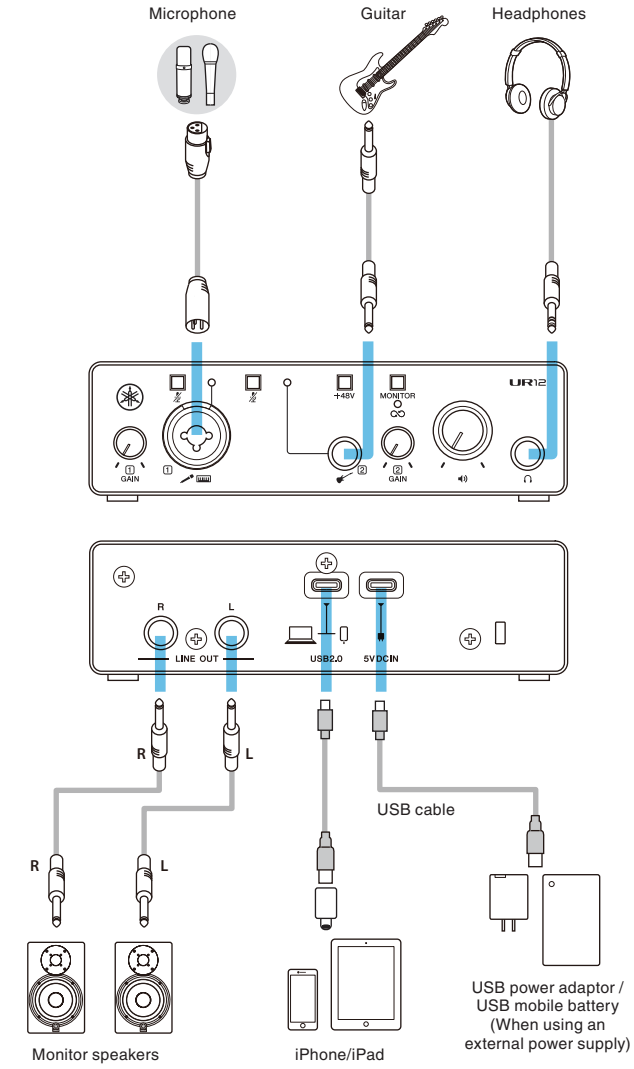
Using with an iPhone/iPad

Connection Example

UR22MK3



UR12MK3



NOTE

- To connect to an iPhone/iPad with a Lightning port, use the supplied USB 2.0 cable (Type-C to Type-A) and an Apple Lightning-USB3 Camera Adaptor. USB-C to Lightning cables that are supplied with an iPhone/iPad are not supported. When using an iPhone/iPad with a Lightning port, be sure to use a commercially available USB power adaptor or USB mobile battery to supply power to the [5V DC IN] port.
- Use a commercially available USB C to USB C cable to connect directly to an iPad with a USB Type-C port. Since time is limited by the battery level of the iPad, it is recommended to use a commercially available USB power adaptor or USB mobile battery to supply power to the [5V DC IN] port. Another connection option is to use the supplied USB 2.0 cable (Type-C to Type-A) and an Apple USB-C Digital AV Multiport Adaptor. In that case, be sure to use a commercially available USB power adaptor or USB mobile battery to supply power to the [5V DC IN] port.
- Refer to the UR22MK3 UR12MK3 Setup Guide instructions for details on how to connect a commercially available USB power adaptor or USB mobile battery.

NOTE

For UR22MK3, if a cable is connected to the guitar [🎸] connector, the input signal to the [MIC/LINE 2] connector is canceled.

Once connected, the device is automatically recognized by the iPhone/iPad.

It is not necessary to configure any settings on the iPhone/iPad.

Cubasis Series Programs

Cubasis LE is bundled with this product.

You can use Cubasis LE in combination with this product to record and edit audio. Cubasis LE is a lite version of the Cubasis mobile DAW. Like Cubasis, this music production app allows you to record, play back, and edit audio from your iPhone/iPad.

Search for “Cubasis LE” in the App Store to download it. When you connect an iPhone/iPad with Cubasis LE installed to this device, the functionality restrictions will be unlocked.

For more information on Cubasis LE, please visit the Steinberg website.

https://www.steinberg.net/cubasis/le/

■ Recording/Playback

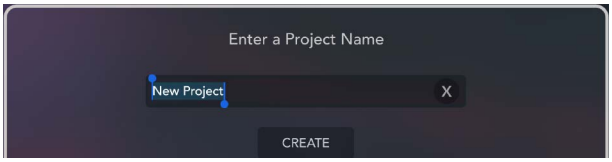
This section explains simple recording/playback operations for using a microphone. Connect a microphone to the [MIC/LINE 1] connector as shown in the connection example (page 16). Turn the [+48V] switch on when using a phantom powered condenser microphone.

The following explanation assumes that the device is set to the factory settings (loopback off, direct monitoring on (MONO)).

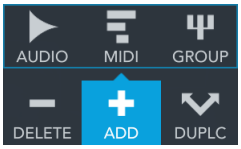
The procedure for using Cubasis LE 3 to record and play back audio is described below.

1. **Launch Cubasis LE 3.**
2. **Tap [NEW] on the left side of the window.**

3. **Enter a project name, and tap [CREATE].**

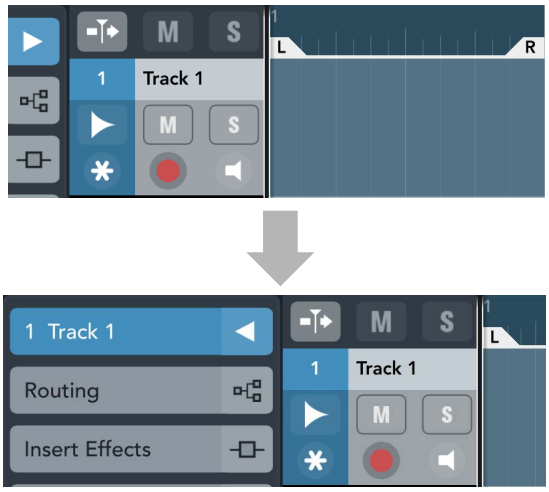


4. **Tap [+ ADD] on the left side of the window, and then tap [AUDIO] to add an audio track.**

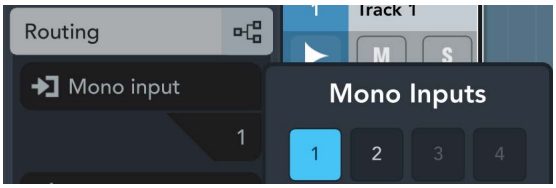


One MIDI track and one audio track have already been created. You can tap [– DELETE] to delete them if necessary.

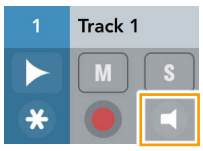
5. **Tap [▶] on the tab on the far left side of the window to display the Track inspector.**



6. **Tap [⊶] to display the Details window, and then tap the number for the input connector to which the instrument or microphone is connected.**



7. **Confirm that monitoring is off.**



To record while monitoring the sound through Cubasis LE 3 without using direct monitoring on the device, turn monitoring on.

8. **While singing into the microphone, adjust the input signal level of the microphone with the [INPUT 1 GAIN] knob on the device.**
9. **While singing into the microphone, adjust the output signal level of the headphones with the PHONES [🎧] level knob on the device (UR22MK3). For UR12MK3, adjust the output signal level with the OUTPUT [🔊] level knob.**
10. **Tap [○] to start recording.**

11. **When finished, tap [▷] to stop recording.**

12. **Tap and drag the ruler to move the project cursor to the desired point for starting playback.**

You can also tap [⏮] to return to the position where you started recording.

13. **Tap [▷] to check the recorded sound.**

Live Streaming

This section describes how to stream audio with a microphone connected to the device, such as when gaming on your iPhone/iPad or when chatting while playing a video/music source. Connect a microphone to the [MIC/LINE 1] connector as shown in the connection example (page 16). Turn the [+48V] switch on when using a phantom powered condenser microphone.

1. **Use the [MONITOR] switch on the device to set loopback to ON and direct monitoring to ON (MONO).**

> **HINT**
> Loopback is a convenient function for broadcasting over the Internet. It mixes the input audio signals (such as microphone and guitar) with the audio signals playing back in the software on your iPhone/iPad into UR22MK3/UR12MK3, and sends them back to the computer.

NOTE

When using the loopback function, turn off the monitoring function of the DAW software. If you use the loopback function while monitoring the input signal from the device via the DAW software, feedback will be generated. This occurs because an infinite loop of audio signals is created between the device and the DAW software.

2. **While singing into the microphone, adjust the input signal level of the microphone with the [INPUT 1 GAIN] knob on the device.**
3. **While singing into the microphone, adjust the output signal level of the headphones with the PHONES [🎧] level knob on the device (UR22MK3). For UR12MK3, adjust the output signal level with the OUTPUT [🔊] level knob.**
4. **Launch the streaming app and start streaming.**
5. **If you leave your seat during a live stream, turn on the [🎤 (Mute)] switch to mute the microphone.**

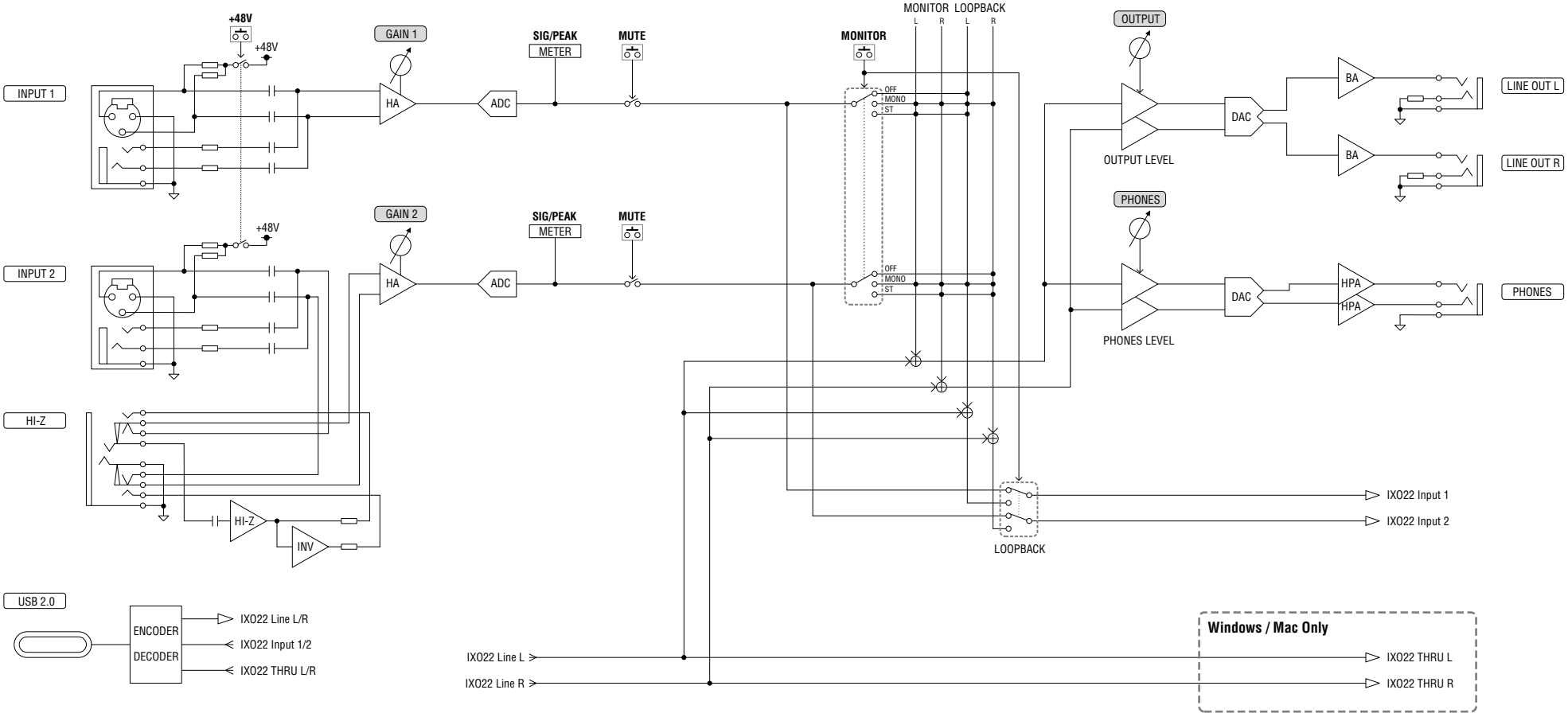
Troubleshooting

The power indicator is off	The power indicator does not light when power is not supplied to the device. When operating on bus power, make sure that the computer connected to the [USB 2.0] port is turned on. When connecting an iPhone/iPad with a Lightning port or using an Apple USB-C Digital AV Multiport Adaptor to connect an iPad with a USB Type-C port, be sure to supply power to the [5V DC IN] port from a commercially available USB power adaptor or USB mobile battery.
The power indicator flashes continuously	The indicator flashes continuously if the power supply is insufficient. If you are running the device on bus power, make sure that the computer to which it is connected is not malfunctioning. If you are supplying power to the [5V DC IN] port, use a USB power adaptor or USB mobile battery that can supply power in compliance with the specifications. Output voltage: 5 V DC Output current: 0.5 A or greater
Indicators are dark (even when used in a dark location)	This is not a malfunction. Some computers might continue to supply power via the USB port even in shutdown/sleep mode. When connected to such a computer and operating on bus power, the indicators on the device will light up dimly if USB communication is interrupted while the computer is in shutdown/sleep mode.
No sound	Are the microphone, digital instrument, and guitar settings configured correctly? Make sure that the equipment is not switched off and that the volume is not turned down.
	If you are using a condenser microphone, turn on the [+48V] switch.
	Are the [INPUT 1, 2 (Mute)] switches turned off?
	Is the [MONITOR] switch turned on? If you want to monitor the input signal of a microphone, digital instrument, or guitar directly (without passing it through a computer app), use the [MONITOR] switch on the front panel to turn on direct monitoring (page 6).
	Are the OUTPUT [] level knob and PHONES [] level knob (UR22MK3 only) set correctly? No sound can be heard if these knobs are set to their minimum value.
	Is the computer configured correctly? Refer to “Computer Settings” (page 11) to check the computer settings.
	Are the audio settings in your software configured correctly? Refer to “Configuring Audio Driver Settings on the DAW Software” (page 12) and “Live Streaming” (page 14) to check the audio settings in the software.
	Is your iPhone/iPad connected correctly? Refer to “Connection Example” (page 16) to check the iPhone/iPad connection. USB-C to Lightning cables that are supplied with an iPhone/iPad are not supported. The output volume of some iPhone/iPad software might be dependent on the volume/mute setting of the iPhone/iPad itself.
	Are the sample rate settings the same for all software that is transmitting and receiving USB audio to and from the device? For Windows, use the “Yamaha Steinberg USB Control Panel.” For Mac, use the sample rate setting in “Audio MIDI Setup.”

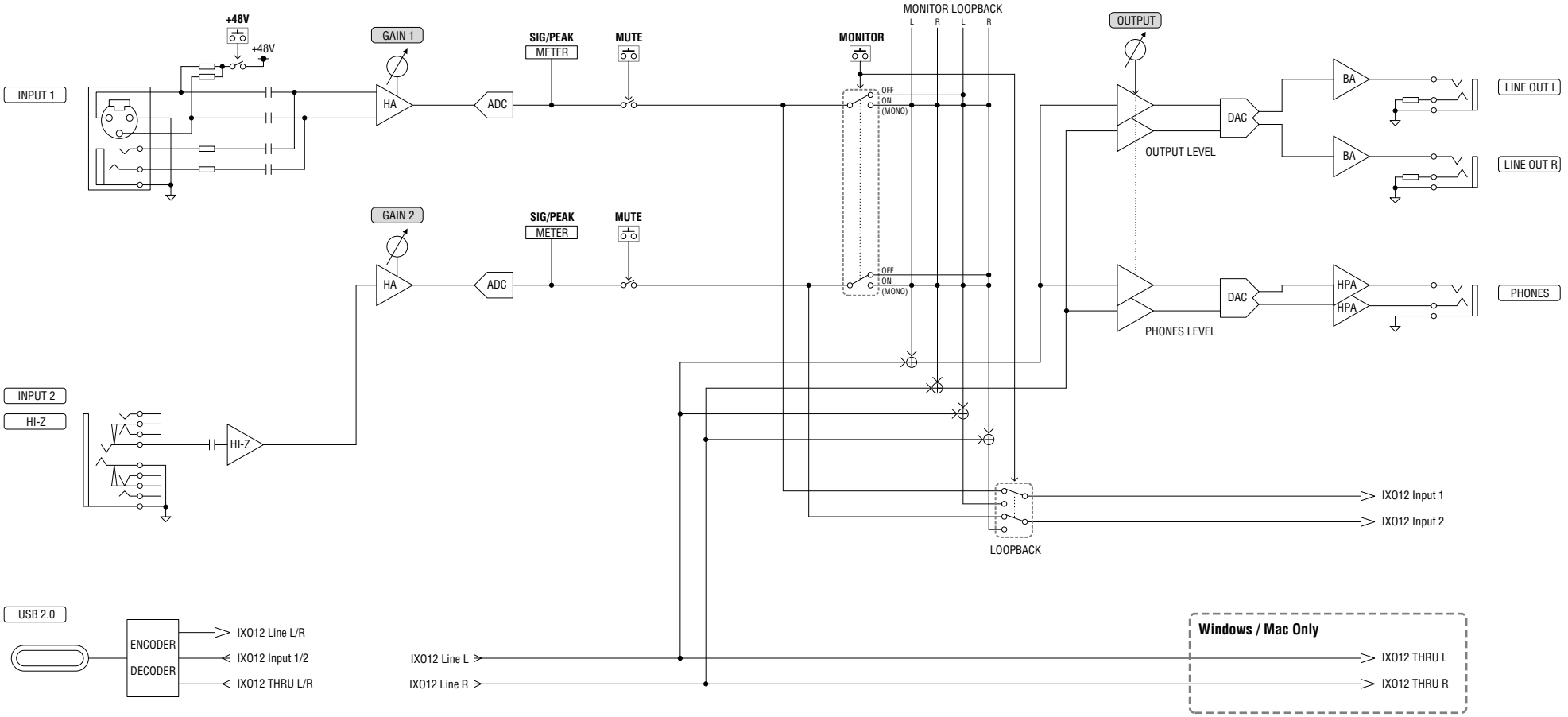
Unusual sound (Noise, interruption, distortion, or feedback)	Is the Yamaha Steinberg USB Driver installed? If you are using a computer, install the Yamaha Steinberg USB Driver.
	Is the buffer size set too small? Refer to “Yamaha Steinberg USB Driver (Windows)” (page 8) or “How to Select the Buffer Size (Mac)” (page 9) to check the buffer size.
	Does your computer satisfy the requirements for the operating environment? Check the operating environment. Refer to the following Yamaha website for the latest information. UR22MK3 https://www.yamaha.com/2/ur22mk3/ UR12MK3 https://www.yamaha.com/2/ur12mk3/
	Are you playing back a lot of audio tracks in your DAW software? Depending on the performance of your computer, the sound might become choppy when playing back many audio tracks. Reduce the number of audio tracks and check the sound again.
	Is there a wired or wireless LAN or other network adaptor operating nearby? Try turning off the network adaptor. Network adaptors can be a source of noise.
	Is the loopback configured correctly? If you are not using the loopback function, use the [MONITOR] switch on the front panel to turn it off. When the loopback function is turned on, audio track monitoring should be turned off. Otherwise, an infinite loop of audio signals will be created between the device and the DAW software.
	Is a microphone connected with a phone plug? Microphones should be connected with XLR plugs. Connecting a microphone with a phone plug will not provide sufficient volume.
Sounds are overlapping	When direct monitoring is turned on, the direct sound and the sound output from the DAW will overlap if [Monitor] is also turned on for the audio tracks in the DAW. Be sure to turn off one of these monitoring options.

Block Diagrams

UR22MK3



UR12MK3


+48V
+48V
INPUT 1
GAIN 1
HA
ADC
SIG/PEAK
METER
MUTE
MONITOR
MONITOR LOOPBACK
L R L R
OFF
ON
(MONO)
OUTPUT
OUTPUT LEVEL
DAC
BA
BA
LINE OUT L
LINE OUT R
GAIN 2
HA
ADC
SIG/PEAK
METER
MUTE
OFF
ON
(MONO)
DAC
HPA
HPA
PHONES
PHONES LEVEL
INPUT 2
HI-Z
HI-Z
LOOPBACK
IXO12 Input 1
IXO12 Input 2
USB 2.0
ENCODER
DECODER
IXO12 Line L/R
IXO12 Input 1/2
IXO12 THRU L/R
IXO12 Line L
IXO12 Line R
Windows / Mac Only
IXO12 THRU L
IXO12 THRU R

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FreeRTOS Kernel V10.4.3

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https://www.FreeRTOS.org

https://github.com/FreeRTOS

Technical Specifications

0 dBu is referenced to 0.775 Vrms and 0 dBV is referenced to 1.0 Vrms.

UR22MK3

MIC INPUT 1/2 (Balanced)	
Frequency Response	+0.0/–0.3 dB, 20 Hz – 20 kHz
Dynamic Range	106 dB, A-Weighted
THD+N	0.004%, 1 kHz, 20 kHz LPF
Maximum Input Level	+6 dBu
Input Impedance	3 kΩ
Gain Range	+6 dB – +60 dB
Equivalent Input Noise	–128 dBu, Rs: 150 Ω, Gain = Max., A-Weighted
LINE INPUT 1/2 (Balanced)	
Maximum Input Level	+24 dBu
Input Impedance	12 kΩ
Gain Range	–12 dB – +42 dB
HI-Z INPUT (INPUT2 Unbalanced)	
Maximum Input Level	+9.8 dBV
Input Impedance	1 MΩ
Gain Range	0 dB – +54 dB
LINE OUTPUT (Impedance Balanced)	
Frequency Response	+0.0/–0.3 dB, 20 Hz – 20 kHz
Dynamic Range	107 dB, A-Weighted
THD+N	0.004%, 1 kHz, 20 kHz LPF
Maximum Output Level	+12 dBu
Output Impedance	150 Ω
PHONES	
Maximum Output Level	40 mW + 40 mW, 40 Ω
USB	
Specification	USB 2.0, 24-bit, 44.1 kHz/48 kHz/88.2 kHz/96 kHz/176.4 kHz/192 kHz
XLR INPUT	
Polarity	 1: Ground 2: Hot (+) 3: Cold (–)

UR12MK3

MIC INPUT 1 (Balanced)	
Frequency Response	+0.0/–0.3 dB, 20 Hz – 20 kHz
Dynamic Range	106 dB, A-Weighted
THD+N	0.004%, 1 kHz, 20 kHz LPF
Maximum Input Level	+6 dBu
Input Impedance	3 kΩ
Gain Range	+6 dB – +60 dB
Equivalent Input Noise	–128 dBu, Rs: 150 Ω, Gain = Max., A-Weighted
LINE INPUT 1 (Balanced)	
Maximum Input Level	+24 dBu
Input Impedance	12 kΩ
Gain Range	–12 dB – +42 dB
HI-Z INPUT (INPUT2 Unbalanced)	
Maximum Input Level	+9.8 dBV
Input Impedance	1 MΩ
Gain Range	0 dB – +39.5 dB
LINE OUTPUT (Impedance Balanced)	
Frequency Response	+0.0/–0.3 dB, 20 Hz – 20 kHz
Dynamic Range	107 dB, A-Weighted
THD+N	0.004%, 1 kHz, 20 kHz LPF
Maximum Output Level	+12 dBu
Output Impedance	150 Ω
PHONES	
Maximum Output Level	40 mW + 40 mW, 40 Ω
USB	
Specification	USB 2.0, 24-bit, 44.1 kHz/48 kHz/88.2 kHz/96 kHz/176.4 kHz/192 kHz
XLR INPUT	
Polarity	 1: Ground 2: Hot (+) 3: Cold (–)

General Specifications

Power Requirements	2.5 W (5 V DC, 0.5 A)
Dimensions	158 (W) × 47 (H) × 102 (D) mm
Net Weight	450 g
Operating Free-air Temperature Range	0 – 40°C
Included Accessories	• UR22MK3 UR12MK3 Setup Guide (booklet) • Cubase AI License Card • Steinberg Plus License Card • USB 2.0 Cable (Type-C to Type-A, 1.5 m)

* The contents of this manual apply to the latest specifications as of the publishing date. To obtain the latest manual, access the Yamaha website then download the manual file.

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

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