Steinberg UR22C

Steinberg UR22C USB 3.0 Audio Interface User Manual

Model: UR22C

1. INTRODUCTION

The Steinberg UR22C is a high-quality USB 3.0 audio interface designed for recording and playback. It offers professional-grade sound capture and reproduction with support for up to 32-bit/192 kHz resolution. This manual provides detailed instructions for setting up, operating, and maintaining your UR22C to ensure optimal performance.

Image 1.1: Front and rear view of the Steinberg UR22C Audio Interface.

2. KEY FEATURES

- **High-Resolution Audio:** Supports up to 32-bit/192 kHz recording and playback for detailed sound.

- **USB 3.0 (USB Type-C Compatible):** Ensures high-speed data transfer and low latency.

- **dspMixFx Technology:** Provides latency-free monitoring and DSP effect processing for all devices, including the UR22C.

- **Advanced DSP Processing:** Features a newly developed custom chip, "SSP3," for improved processing capacity.

- **Reduced Latency and Enhanced Stability:** Achieved through the combination of "SSP3" and optimized drivers.

- **Improved Headphone Amplifier:** Delivers clear and powerful headphone output.

- **Robust Design:** Features a durable grey and black finish with a large volume knob for easy adjustment.

3. PACKAGE CONTENTS

Upon opening the package, ensure all the following items are present:

- Steinberg UR22C USB 3.0 Audio Interface

- USB Type-C to USB Type-A cable (for connection to computer)

- Software Download Access Code (for Cubase AI and Cubasis LE)

- Quick Start Guide (this document serves as a comprehensive guide)

Image 3.1: The Steinberg UR22C product packaging.

4. SETUP

4.1. Driver and Software Installation

1. **Download Drivers:** Visit the official Steinberg website and download the latest drivers for the UR22C compatible with your operating system (Windows).

2. **Install Drivers:** Follow the on-screen instructions to install the drivers. It is recommended to install drivers **before** connecting the UR22C to your computer.

3. **Install Software:** Use the provided Download Access Code to download and install Cubase AI and dspMixFx software from the Steinberg website.

4.2. Hardware Connection

1. **Connect to Computer:** Use the supplied USB Type-C cable to connect the UR22C to a USB 3.0 (or higher) port on your computer. The UR22C supports bus power when connected to a USB 3.0 (Type-C) port.

2. **External Power (if necessary):** If connecting to a USB 2.0 Type-A port, or if your computer's USB port does not provide sufficient power, you will need to supply power using a commercial 5V DC power adapter or a USB power bank (a USB cable with a micro USB connection is required for separate power supplies).

3. **Connect Microphones/Instruments:** Connect your microphones to the XLR inputs (INPUT 1, INPUT 2) and instruments (e.g., guitar) to the 1/4" jack inputs. Ensure phantom power (+48V) is only enabled for condenser microphones that require it.

4. **Connect Headphones/Monitors:** Connect your headphones to the PHONES output and your studio monitors to the MAIN OUTPUT (L/R) on the rear panel.

Image 4.1: Front panel of the Steinberg UR22C, showing inputs and controls.

Image 4.2: Rear panel of the Steinberg UR22C, showing outputs and power connections.

5. OPERATING INSTRUCTIONS

5.1. Basic Controls

- **INPUT 1 GAIN** / **INPUT 2 GAIN:** Adjust the input level for connected microphones or instruments. The PEAK indicator lights up if the input signal is too high.

- **+48V:** Activates phantom power for condenser microphones connected to INPUT 1 and INPUT 2.

- **HI-Z (Input 2):** Engages high-impedance mode for direct connection of electric guitars or basses.

- **MIX Knob:** Blends the direct input signal (INPUT) with the signal from your computer (DAW) for monitoring. Turn towards INPUT for more direct signal, towards DAW for more computer playback.

- **MONO Button:** Sums the stereo input signal to mono for monitoring purposes.

- **PHONES Knob:** Adjusts the volume of the headphone output.

- **OUTPUT Knob:** Adjusts the overall volume of the MAIN OUTPUT.

5.2. dspMixFx Technology

The UR22C utilizes dspMixFx technology, allowing for latency-free monitoring and the application of DSP effects directly on the interface, reducing the load on your computer's CPU. This is particularly useful during recording to hear effects without delay.

- **Accessing dspMixFx:** The dspMixFx mixer application can be launched independently or accessed within Cubase.
- **DSP Effects:** Apply effects such as reverb, channel strip, and guitar amp simulations directly from the dspMixFx software.
- **Monitoring:** Use dspMixFx to set up custom monitoring mixes, allowing you to hear your input signal with effects and adjust levels without affecting the recorded signal.

5.3. Recording and Playback

The UR22C supports high-resolution audio at up to 32-bit/192 kHz. When using Cubase AI or other compatible DAW software, ensure your project settings match these specifications for optimal quality.

1. **Select UR22C as Audio Device:** In your DAW's audio settings, select the Steinberg UR22C as your input and output device.
2. **Create Tracks:** Create audio tracks for your inputs (e.g., vocal track for INPUT 1, guitar track for INPUT 2).
3. **Arm for Recording:** Arm the desired tracks for recording and adjust input gain using the UR22C's knobs.
4. **Monitor:** Use the MIX knob and dspMixFx to achieve a comfortable monitoring balance.
5. **Record and Playback:** Start recording in your DAW. For playback, ensure the DAW output is routed through the UR22C.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the UR22C. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Management:** Ensure cables are not kinked or strained to prevent damage to connectors and ports.
- **Firmware Updates:** Periodically check the Steinberg website for firmware updates, which can improve performance and add new features.

7. TROUBLESHOOTING

7.1. No Sound Output/Input

- **Check Connections:** Ensure all cables (USB, audio outputs, headphones) are securely connected.
- **Power:** Verify the UR22C is receiving power (USB bus power or external adapter).
- **Volume Levels:** Check the PHONES and OUTPUT knobs on the UR22C, as well as volume settings in your operating system and DAW.
- **DAW Settings:** Confirm the UR22C is selected as the primary audio input/output device in your DAW's preferences.
- **Driver Installation:** Reinstall the latest drivers from the Steinberg website.

7.2. Latency Issues

- **Buffer Size:** In your DAW's audio settings, try reducing the buffer size. Lower buffer sizes reduce latency but require more CPU power.
- **dspMixFx:** Utilize the dspMixFx software for direct monitoring, which provides zero-latency monitoring of

your input signal.

- **USB Port:** Ensure the UR22C is connected to a USB 3.0 port for optimal performance.
- **System Resources:** Close unnecessary applications running in the background to free up CPU resources.

7.3. Phantom Power Not Working

- **+48V Button:** Ensure the +48V button on the front panel is engaged.
- **Microphone Type:** Confirm that your microphone is a condenser microphone requiring phantom power. Dynamic microphones do not require it.
- **Cable:** Check the XLR cable for damage.

8. SPECIFICATIONS

Feature	Detail
Item Weight	2.2 pounds
Product Dimensions	6.26 x 6.26 x 1.85 inches
Item Model Number	UR22C
Color Name	grey & black
Compatible Devices	Laptop, Personal Computer, Tablet
Hardware Interface	USB
Supported Software	Sweet Spot Morphing Channel Strip / REV-X / Guitar Amp Classics (via dspMixFx)
Operating System	Windows
Connectivity Technology	USB
Number of Channels	2
Maximum Sampling Rate	192kHz
Bit Depth	32-bit

9. WARRANTY & SUPPORT

The Steinberg UR22C Audio Interface comes with a manufacturer's warranty. For specific details regarding warranty coverage, duration, and terms, please refer to the warranty card included with your product or visit the official Steinberg website.

For technical support, driver downloads, software updates, and additional resources, please visit the Steinberg support page:

Steinberg Official Support

Before contacting support, please ensure you have followed all troubleshooting steps outlined in this manual and have the product's serial number readily available.

Related Documents - **UR22C**

	[Steinberg UR22C USB Audio Interface: Startup Guide](#) Get started with your Steinberg UR22C USB Audio Interface. This guide covers setup, installation of drivers and software, power supply, and important precautions for music production.
	[Steinberg UR22C USB Audio Interface Operation Manual](#) Comprehensive operation manual for the Steinberg UR22C USB Audio Interface, detailing its features, controls, software setup, and troubleshooting.
	[Steinberg UR22C USB Audio Interface Operation Manual](#) Comprehensive operation manual for the Steinberg UR22C 2x2 USB 3.0 audio interface, detailing features, controls, software setup, recording, troubleshooting, and technical specifications.
	[Steinberg UR44C USB Audio Interface Operation Manual](#) This manual provides detailed instructions for operating the Steinberg UR44C USB Audio Interface, covering its features, controls, software integration with DAWs like Cubase, and troubleshooting.
	[Steinberg UR44 V2.2.2 for Windows Release Notes](#) Comprehensive release notes for Steinberg UR44 V2.2.2 for Windows, detailing software updates, bug fixes, and system requirements for the Yamaha Steinberg USB Driver, Steinberg UR44 Applications, Basic FX Suite, and Steinberg UR44 Extension.

[Steinberg UR44 V2.2.2 for Mac Release Notes and System Requirements](#)

Official release notes for Steinberg UR44 V2.2.2 for Mac, detailing software updates for Yamaha Steinberg USB Driver, Steinberg UR44 Applications, Basic FX Suite, Steinberg UR44 Extension, and Steinberg dspMixFx UR44, along with system requirements.