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Tascam US2X2HR

Tascam US-2x2HR USB Audio Interface User Manual

Model: US-2x2HR

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your Tascam US-2x2HR USB Audio Interface. The US-2x2HR is a versatile 2-in/2-out high-resolution audio/MIDI interface designed for recording, streaming, podcasting, and music creation.

2. KEY FEATURES

- **2-in/2-out USB Audio Interface:** Connect two inputs and two outputs for flexible recording and playback.
- **High-Resolution Audio:** Supports audio formats up to 24-bit/192 kHz for pristine sound quality.
- **Ultra-HDDA Mic Preamps:** Equipped with two combo (XLR) inputs featuring Ultra-HDDA mic preamps and +48V phantom power for condenser microphones.
- **Versatile Inputs:** Two combo (TRS) line inputs with guitar input support for direct instrument connection.
- **Low-Latency Driver:** Improved TASCAM driver with selectable buffer size (from 4 samples on Windows) for stable, low-latency performance.
- **Zero-Latency Direct Monitoring:** Allows real-time monitoring of input signals before they reach the computer, eliminating latency during recording.
- **MIDI IN/OUT:** Integrated MIDI input and output for connecting MIDI keyboards, drum machines, and other controllers.
- **Stereo/Mono Selectable Loopback Function:** Enables internal routing of audio for streaming and podcasting applications.
- **USB Type-C Connection:** Modern and reliable connectivity to your computer or compatible iOS device.
- **Robust Metal Casing:** Durable metal construction with aluminum side panels ensures stability and longevity.
- **Software Bundle:** Includes Cubase LE, Sample Tank 4 SE, and a 3-month Auto-Tune Unlimited subscription.

3. SETUP GUIDE

3.1 Unpacking and Initial Inspection

Carefully remove the US-2x2HR from its packaging. Verify that all components are present and undamaged. Retain the packaging for future transport or storage.

3.2 Driver Installation

Before connecting the US-2x2HR to your computer, download and install the latest drivers from the official Tascam website. This ensures optimal performance and compatibility with your operating system (Windows/macOS). For Windows users, the TASCAM native driver offers selectable buffer sizes for low-latency operation.

3.3 Connecting to Your Computer

Connect the US-2x2HR to your computer using the supplied USB Type-C cable. The interface is bus-powered, meaning it draws power directly from the USB connection. For iOS devices (iPad/iPhone), an optional battery pack or AC adapter may be required for power.



The ideal interface for home recording.

Features two mic/line inputs with guitar input support, a headphone output to accommodate diverse music and multimedia production needs, and a USB-C port for simple bus-powered operation.

Figure 3.3.1: Connecting the USB Type-C cable to the interface.

3.4 Connecting Microphones and Instruments

The US-2x2HR features two combo inputs (IN1 and IN2) on the front panel, which accept both XLR and 1/4-inch TRS/TS connectors.

- **XLR Inputs:** Use XLR cables for microphones. If using condenser microphones, activate the +48V phantom power switch located on the front panel.
- **1/4-inch TRS/TS Inputs:** Use 1/4-inch cables for line-level instruments (keyboards, drum machines) or guitars. Use the MIC/LINE/INST switch to select the appropriate input type. Set to 'INST' for guitars and basses.



Figure 3.4.1: Front and rear panel connections and controls.

3.5 Connecting Headphones and Monitors

- **Headphones:** Plug your headphones into the 1/4-inch PHONES jack on the front panel. Adjust the headphone volume using the VOL knob.
- **Studio Monitors:** Connect your active studio monitors to the LINE OUT (BALANCED) TRS jacks on the rear panel.



The ultimate interface for musicians and producers.

Figure 3.5.1: Rear panel connections including balanced line outputs and MIDI ports.

3.6 MIDI Connections

The US-2x2HR includes MIDI IN and OUT ports on the rear panel. Use standard 5-pin DIN MIDI cables to connect external MIDI devices such as keyboards, synthesizers, or drum machines. This allows for synchronization and control of your MIDI equipment.



Figure 3.6.1: MIDI IN/OUT ports for connecting external MIDI devices.

4. OPERATING INSTRUCTIONS

4.1 Input Gain Adjustment

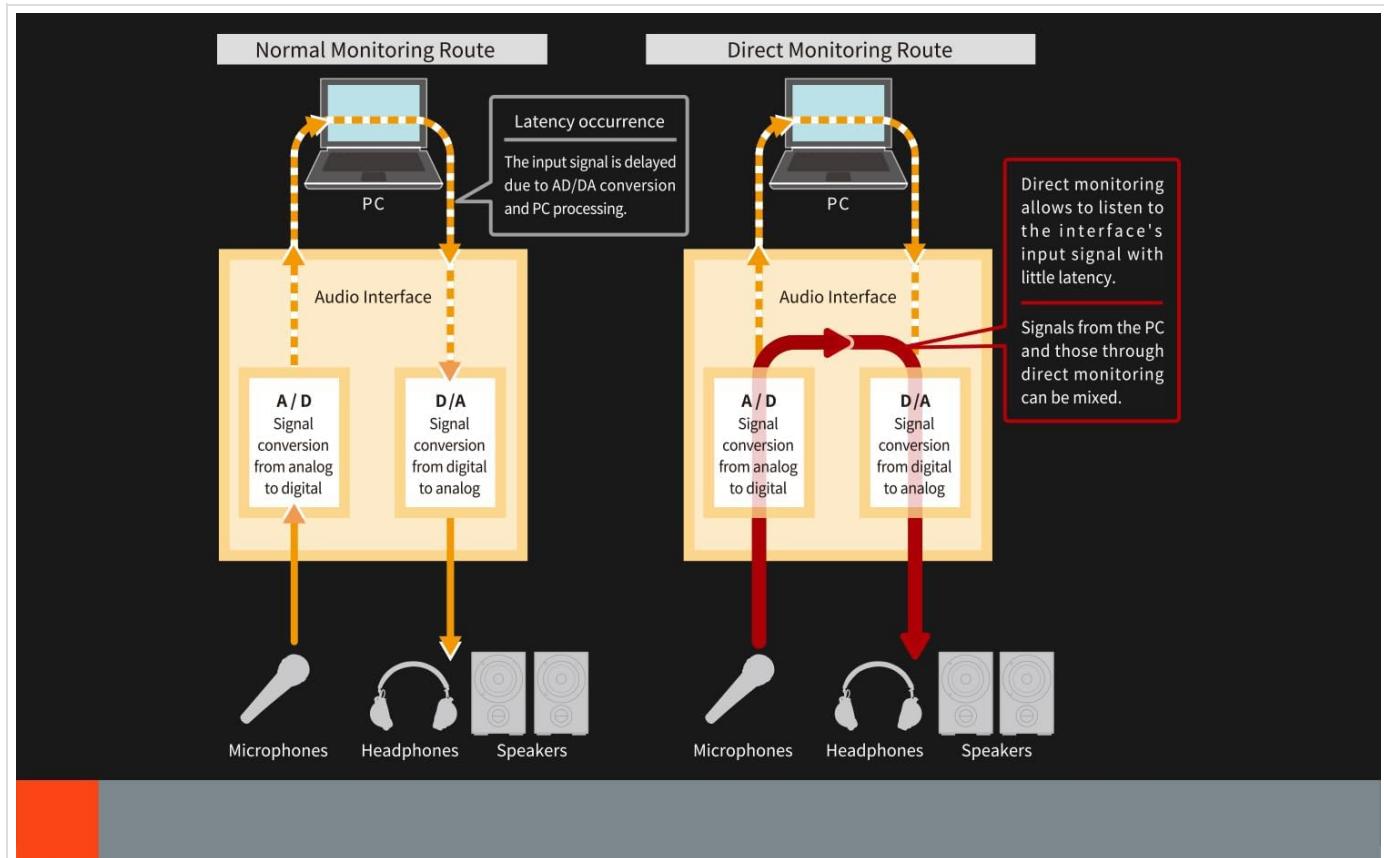
Use the GAIN knobs for IN1 and IN2 to adjust the input level of your microphones or instruments. The SIG (Signal) indicator will light up when an input signal is detected, and the PEAK indicator will light up if the signal is too high, indicating potential clipping. Adjust the gain to achieve a strong signal without peaking.

4.2 Phantom Power (+48V)

The +48V switch activates phantom power for condenser microphones connected to the XLR inputs. Ensure this is only enabled when using microphones that require phantom power. Turn off phantom power when connecting dynamic microphones or line-level devices.

4.3 Direct Monitoring

The US-2x2HR features a direct monitoring function to eliminate latency during recording. This allows you to hear your input signal directly through the interface without going through your computer's software. Use the MONITOR BALANCE knob to blend between the input signal (INPUT) and the computer playback (COMPUTER) in your headphones or monitors.



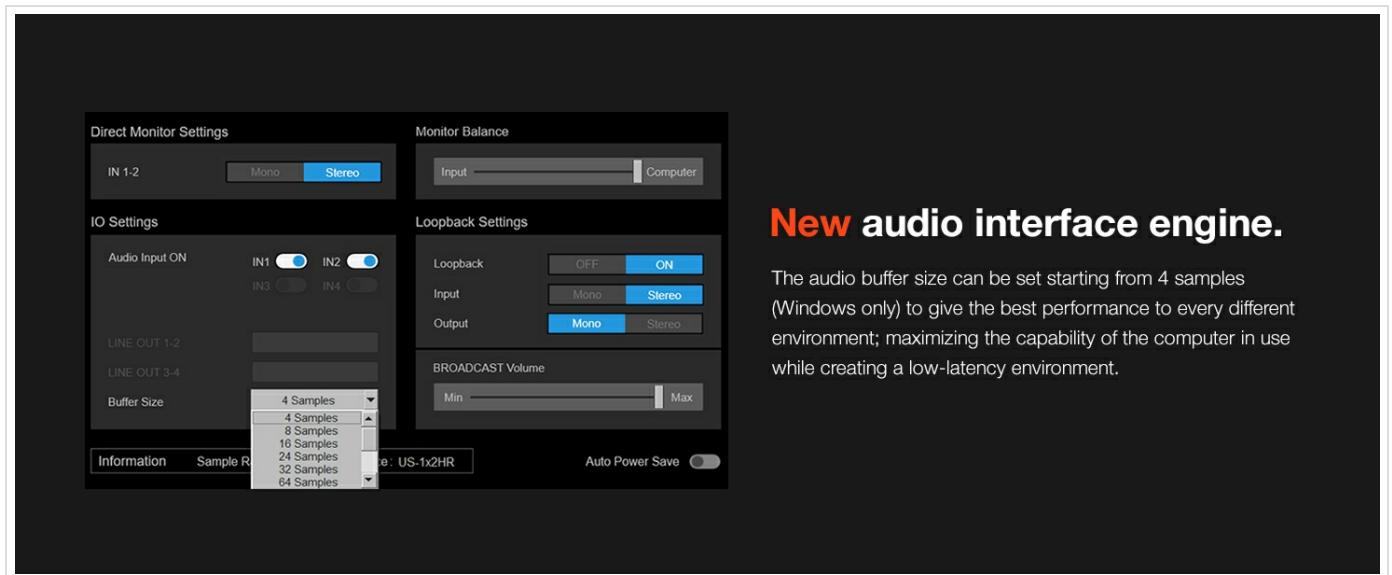
Zero-latency direct monitoring function.

Direct monitoring routes signals before they reach the computer, enabling smooth, real-time monitoring with zero latency during recording and performance.

Figure 4.3.1: Comparison of normal and zero-latency direct monitoring routes.

4.4 Loopback Function

The loopback function allows you to record or stream the audio output from your computer along with your live input signals. This is particularly useful for podcasts, live streams, and online collaborations. The loopback function can be set to stereo or mono via the Tascam driver settings panel.



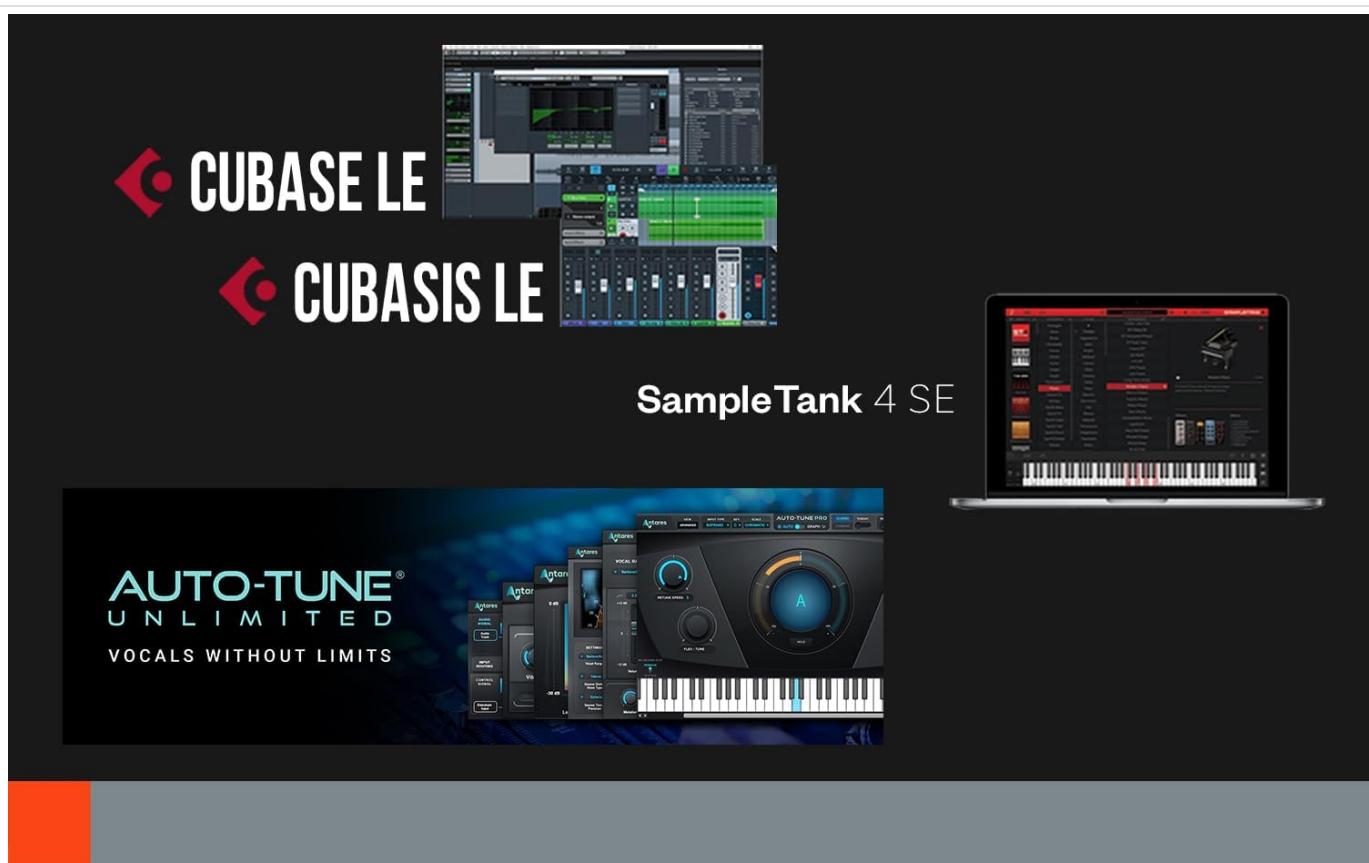
New audio interface engine.

The audio buffer size can be set starting from 4 samples (Windows only) to give the best performance to every different environment; maximizing the capability of the computer in use while creating a low-latency environment.

Figure 4.4.1: Tascam driver settings panel for configuring buffer size and loopback.

4.5 Software Usage

The US-2x2HR comes bundled with professional software including Cubase LE, Sample Tank 4 SE, and a 3-month Auto-Tune Unlimited subscription. Install these applications on your computer to begin recording, mixing, and processing your audio. Refer to the individual software manuals for detailed usage instructions.



Create quality content with bundled software.

Includes a professional software bundle: Cubase LE for recording/mixing, Sample Tank SE 4 with over 2,000 instruments (30GB sound library), and a 3-month Auto-Tune Unlimited subscription for vocal processing.

Figure 4.5.1: Bundled software for recording and production.

5. MAINTENANCE

To ensure the longevity and optimal performance of your Tascam US-2x2HR, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Avoid abrasive cleaners, solvents, or waxes. Do not allow liquids to enter the unit.
- **Storage:** When not in use, store the interface in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Management:** Avoid excessive bending or pulling of cables. Ensure connections are secure but not overly tight.
- **Firmware Updates:** Periodically check the Tascam website for any available firmware updates for your device. Follow the instructions provided by Tascam for safe updating.

6. TROUBLESHOOTING

If you encounter issues with your US-2x2HR, refer to the following common troubleshooting steps:

- **No Power/No Connection:**

- Ensure the USB cable is securely connected to both the interface and your computer.
- Try a different USB port on your computer.
- If using a USB hub, try connecting directly to the computer.
- Verify that the correct drivers are installed and recognized by your operating system.

- **No Sound Input:**

- Check that the input source (microphone, instrument) is properly connected and powered on.
- Adjust the GAIN knob for the corresponding input.
- Ensure the MIC/LINE/INST switch is set correctly for your input source.
- If using a condenser microphone, verify that +48V phantom power is enabled.
- Check your Digital Audio Workstation (DAW) or recording software settings to ensure the US-2x2HR is selected as the input device and the correct input channel is armed.

- **No Sound Output:**

- Check headphone and monitor connections.
- Adjust the PHONES VOL knob and the MONITOR BALANCE knob.
- Ensure your computer's sound output is directed to the US-2x2HR.
- Verify that your DAW or playback software is routing audio to the US-2x2HR outputs.

- **High Latency:**

- Ensure the latest Tascam drivers are installed.
- Adjust the buffer size in the Tascam driver settings panel (lower buffer size reduces latency but requires more CPU power).
- Utilize the direct monitoring function to bypass software latency for input signals.

- **Unexpected Phantom Power Behavior:**

- Some users have reported that phantom power may be active on startup even if the switch is in the OFF position. If you experience this, toggle the +48V switch ON and then OFF again to ensure it is disengaged, especially when using sensitive equipment like ribbon microphones.

7. SPECIFICATIONS

Item Weight	1 pounds
Product Dimensions	8 x 8 x 4 inches
Item Model Number	US2X2HR
Color Name	Black
Compatible Devices	Personal Computer, iOS Devices (with optional power)
Hardware Interface	USB
Supported Software	TASCAM, Cubase LE, Sample Tank 4 SE, Auto-Tune Unlimited

Mixer Channel Quantity	2
Operating System	Windows, macOS, iOS
Connectivity Technology	USB
Number of Channels	2
Audio Resolution	Up to 24-bit/192 kHz

8. WARRANTY INFORMATION

The Tascam US-2x2HR is covered by a manufacturer's warranty. Please refer to the warranty card included with your product or visit the official Tascam website for detailed terms and conditions regarding warranty coverage, duration, and service procedures.

9. SUPPORT

For technical assistance, driver downloads, firmware updates, or further inquiries, please visit the official Tascam support website. You can also find FAQs and contact information for customer service there.

Official Tascam Website: tascam.com