Onkyo SE-U55SX2 R2

ONKYO SE-U55SX2 R2 WAVIO USB Digital Audio Processor Instruction Manual

Model: SE-U55SX2 R2

1. PRODUCT OVERVIEW

The ONKYO SE-U55SX2 R2 WAVIO USB Digital Audio Processor is designed to enhance your PC audio experience and facilitate high-quality audio recording. It connects to your PC via USB, upgrading your computer's sound output and allowing you to import external audio sources.

Key features include ONKYO's patented VLSC (Vector Linear Shaping Circuitry) to minimize pulse noise during D/A conversion, and an asynchronous transfer method to significantly reduce jitter noise. This results in a high signal-to-noise ratio of 115dB, delivering a realistic soundstage and subtle nuances in audio reproduction.

2. KEY FEATURES

- **High-Performance D/A Converter:** Equipped with a Burr-Brown PCM1796 DAC, known for its quality in high-end audio equipment, achieving a 115dB S/N ratio.
- **High-Precision Clock Circuit:** Features a crystal oscillator with a frequency deviation of ±10PPM, significantly reducing jitter noise for improved sound realism and spatial rendering.
- **VLSC (Vector Linear Shaping Circuitry):** ONKYO's patented technology suppresses pulse-shaped digital noise generated during D/A conversion, enhancing the playback quality of digital audio sources, including compressed audio.
- **24bit/96kHz High-Resolution Audio Support:** Compatible with high-resolution audio signals, offering superior expressive power compared to CD quality (16bit/44.1kHz). The A/D converter achieves a high S/N ratio of 114dB.
- **Versatile Input/Output Terminals:** Includes USB, 3 digital inputs (2 optical, 1 coaxial), 1 analog input (RCA), 2 digital outputs (optical), 1 analog output (RCA), and a φ3.5mm headphone jack, allowing connection to various audio devices. Gold-plated analog input/output and coaxial input terminals prevent degradation over time.

- **Digital Input Auto Selector:** Automatically switches input based on detected digital signals.
- **Bundled Software:** Comes with "DigiOnSound6 L.E. for ONKYO" for recording and editing.
- **Self-Powering Method:** Can function as an audio selector or a standalone DAC.
- **User-Friendly Design:** Features a large, easy-to-operate dial.

3. PACKAGE CONTENTS

Please ensure all items are present before proceeding with setup.

- ONKYO SE-U55SX2 R2 Unit
- USB Cable x1
- Optical Digital Cable x1
- Stereo RCA Pin Cord x1
- AC Adapter
- Software CD-ROM (DigiOnSound6 L.E. for ONKYO)
- User Manual (this document)

4. CONNECTIONS

Follow these steps to connect your ONKYO SE-U55SX2 R2 to your devices.

4.1 Front Panel Overview

Image: Top view of the ONKYO SE-U55SX2 R2, showing the USB indicator, input level controls for phones, and input selection dial.

4.2 Side Panel Overview

Image: Side view of the ONKYO SE-U55SX2 R2, highlighting the 3.5mm headphone output, microphone input, and optical digital input.

4.3 Rear Panel Overview

Image: Rear view of the ONKYO SE-U55SX2 R2, detailing the RCA line input/output, coaxial digital input, optical digital output, and PC-USB input.

4.4 Connecting to a PC

1. Connect the provided USB cable from the SE-U55SX2 R2's PC-USB port to an available USB port on your computer.
2. Connect the AC adapter to the DC 5V input on the SE-U55SX2 R2 and plug it into a power outlet.
3. Install the necessary drivers from the included software CD-ROM. Refer to the software manual for detailed installation instructions.

4.5 Connecting Audio Devices

- **Analog Input (LINE IN):** Use the provided stereo RCA pin cord to connect external analog audio sources (e.g., CD player, cassette deck) to the LINE IN (RCA) ports.
- **Digital Input (DIGITAL IN):** Use optical or coaxial digital cables to connect digital audio sources (e.g., TV, game console) to the OPTICAL IN or COAXIAL IN ports.
- **Analog Output (LINE OUT):** Use a stereo RCA pin cord to connect the LINE OUT (RCA) ports to an amplifier or powered speakers.
- **Digital Output (DIGITAL OUT):** Use optical digital cables to connect the OPTICAL OUT ports to a digital amplifier or other digital audio equipment.
- **Headphone Output:** Connect headphones to the φ3.5mm HEADPHONE jack on the side panel.
- **Microphone Input:** Connect a microphone to the φ3.5mm MIC jack on the side panel.

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5. BASIC OPERATION

5.1 Power On/Off

Press the power button located on the rear panel to turn the unit on or off.

5.2 Input Selection

Use the INPUT selector dial on the front panel to choose between USB, DIGITAL, LINE, or MIC inputs.

5.3 Volume Control

Adjust the main volume using the large VOLUME dial on the front panel. For headphone volume, use the PHONES LEVEL dial.

5.4 Recording Audio

To record audio from external sources to your PC:

1. Connect your external audio device to the appropriate input (LINE IN, DIGITAL IN, or MIC).
2. Select the corresponding input using the INPUT selector dial.
3. Launch the "DigiOnSound6 L.E. for ONKYO" software on your PC.
4. Follow the software's instructions to configure recording settings and begin recording.

Note: Recording of copyright-protected data from SCMS-compliant digital inputs is not possible. Digital output from the SE-U55SX2 R2 cannot be recorded.

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6. SOFTWARE INSTALLATION

The SE-U55SX2 R2 includes "DigiOnSound6 L.E. for ONKYO" software for audio recording and editing. Please refer to the dedicated software manual provided on the CD-ROM for detailed installation and usage instructions.

Supported Operating Systems: Windows 8/7/Vista/XP.

Important: For Windows 10/11 users, driver compatibility may vary. Please check the official Onkyo support website for the latest driver updates and compatibility information. Some users have reported issues with USB 3.0 ports, suggesting the use of a USB 2.0 hub as a workaround.

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7. TROUBLESHOOTING

- **No Sound Output:**

  - Ensure the unit is powered on and the AC adapter is properly connected.
  - Verify that the correct input source is selected on the SE-U55SX2 R2.
  - Check all audio cable connections between the SE-U55SX2 R2, your PC, and output devices (speakers/headphones).
  - Adjust the volume levels on both the SE-U55SX2 R2 and your connected devices.
  - Confirm that the correct audio output device is selected in your PC's sound settings (e.g., "ONKYO SE-U55SX2 R2").

- **Sound Interruption/Noise:**

  - Ensure the USB cable is securely connected.
  - If using a USB 3.0 port, try connecting to a USB 2.0 port or using a USB 2.0 hub.
  - Minimize other applications running on your PC that might consume significant CPU resources.
  - Check for driver updates on the Onkyo support website.

- **Microphone/Speaker Issues:**

  - Ensure the microphone is properly connected to the MIC input.
  - Adjust the MIC LEVEL control on the front panel.

- Verify microphone settings in your PC's sound control panel or recording software.

8. SPECIFICATIONS

Model Number	SE-U55SX2 R2
Brand	Onkyo
Dimensions (W x D x H)	16.9 x 24.4 x 6.7 cm
Weight	700 g
S/N Ratio (USB to LINE OUT)	115dB
Supported OS	Windows 8/7/Vista/XP (Check Onkyo website for newer OS compatibility)
Output Terminals	LINE OUT x1 (Stereo RCA), DIGITAL OUT x2 (Optical), Headphone Jack x1 (φ3.5mm Stereo)
Input Terminals	LINE IN x1 (Stereo RCA), DIGITAL IN x3 (Optical x2, Coaxial x1), Microphone Jack x1 (φ3.5mm Mono)

9. WARRANTY AND SUPPORT

This product comes with a manufacturer's warranty. Please refer to the warranty card included in the package for details on coverage and duration. For technical support, driver downloads, or further assistance, please visit the official Onkyo website or contact their customer service department.

Onkyo Official Website: www.onkyo.com

Please retain your proof of purchase for warranty claims.