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RME ADI2PROFSRBE

RME ADI-2 Pro FS R Black Edition AD/DA Converter User Manual

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your RME ADI-2 Pro FS R Black Edition AD/DA Converter. Please read this manual thoroughly to ensure proper use and to maximize the performance of your device. The ADI-2 Pro FS R is a high-fidelity 2-channel PCM/DSD 768 kHz AD/DA converter designed for critical stereo recording, listening, audio test and measurement, and mastering applications.

2. PRODUCT OVERVIEW

The RME ADI-2 Pro FS R Black Edition is a versatile audio device offering a wide range of features for professional audio environments. It includes balanced/unbalanced I/Os, dual Extreme Power headphone outputs, SteadyClock III technology, 4-stage hardware input and output control, DSP-based signal processing, and class-compliant USB compatibility.

2.1 Front Panel



Figure 1: Front panel of the RME ADI-2 Pro FS R Black Edition. This view shows the main display, volume knob, input/output selection buttons, EQ and setup buttons, and two headphone outputs (PH 1/2 and PH 3/4) with their respective balance indicators.

The front panel provides access to primary controls and monitoring. Key elements include:

- **Display:** High-resolution screen for monitoring levels, settings, and various audio parameters.
- **Volume Knob:** Controls the main output volume.
- **I/O Button:** Toggles between input and output settings.

- **EQ Button:** Accesses equalization settings.
- **Setup Button:** Enters the device's configuration menu.
- **Headphone Outputs (PH 1/2, PH 3/4):** Two stereo Extreme Power headphone outputs.

2.2 Rear Panel



Figure 2: Rear panel of the RME ADI-2 Pro FS R Black Edition. This view displays the power input, USB 2.0 port, digital I/O (SPDIF/AES-3), main outputs (XLR), and analog inputs (XLR/TRS combo jacks).

The rear panel houses all primary audio and data connections:

- **Power Input:** For connecting the external power supply.
- **USB 2.0:** For connecting to a computer (PC/Mac) for audio and control.
- **Digital I/O (SPDIF/AES-3):** Optical SPDIF I/O (also supports ADAT) and coaxial SPDIF (RCA) and AES I/O (XLR) via breakout cable.
- **Main Outputs 1/2:** Two separate balanced XLR and unbalanced TS outputs.
- **Analog Inputs:** Two servo-balanced analog inputs on combo XLR / TRS jacks.

2.3 Included Accessories



Figure 3: The RME ADI-2 Pro FS R Black Edition shown with its dedicated remote control. The remote allows for convenient adjustment of various settings from a distance.

The ADI-2 Pro FS R Black Edition typically includes a remote control for convenient operation and a breakout cable for AES I/O connectivity.

3. SETUP

3.1 Power Connection

1. Connect the provided power adapter to the 'POWER' input on the rear panel of the ADI-2 Pro FS R.
2. Plug the power adapter into a suitable electrical outlet.
3. The device will power on automatically.

3.2 USB Connection to Computer

1. Connect a USB 2.0 cable from the 'USB 2.0' port on the rear panel of the ADI-2 Pro FS R to an available USB port on your computer.
2. For Windows users, install the latest drivers from the RME website. For macOS, the device is class-compliant and generally does not require additional drivers.
3. Verify that your operating system recognizes the ADI-2 Pro FS R as an audio device.

3.3 Analog Audio Connections

1. **Inputs:** Connect your analog audio sources (e.g., microphones, line-level instruments) to the 'ANALOG INPUTS' combo XLR/TRS jacks on the rear panel.
2. **Outputs:** Connect your studio monitors or other playback systems to the 'MAIN OUTPUTS 1/2' XLR or TS jacks on the rear panel.

3.4 Digital Audio Connections

1. **Optical SPDIF/ADAT:** Use an optical cable for connecting compatible digital audio devices.
2. **Coaxial SPDIF/AES:** Use the provided breakout cable to connect coaxial SPDIF (RCA) or AES (XLR) digital audio devices.

4. OPERATING INSTRUCTIONS

The ADI-2 Pro FS R offers extensive control through its front panel interface and optional remote control.

4.1 Basic Navigation

- **Volume Knob:** Rotate to adjust volume. Press to confirm selections or enter sub-menus.
- **I/O Button:** Cycles through input and output monitoring modes on the display.
- **Setup Button:** Enters the main menu for detailed configuration. Use the volume knob to navigate and select options.

4.2 Input and Output Control

The device allows independent control over input gain and output levels. Use the 'I/O' button to switch between input and output views on the display. Adjust parameters using the main volume knob and dedicated buttons.

4.3 Equalization and Filters

Press the 'EQ' button to access the 5-band parametric EQs for individual headphone compensation, adjustable

Bass/Treble controls, and a loudness filter. The device also offers selectable AD/DA filters to tailor the sound to your preference.

4.4 Headphone Operation

The two Extreme Power headphone outputs can be configured independently. When using balanced headphone capability, the device utilizes all four D/A converters to achieve an additional 3 dB lower noise floor, which may temporarily disable speaker outputs.

5. MAINTENANCE

To ensure the longevity and optimal performance of your RME ADI-2 Pro FS R, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Avoid abrasive cleaners or solvents.
- **Ventilation:** Ensure adequate airflow around the device. Do not block ventilation openings.
- **Environment:** Operate the device in a stable environment, away from extreme temperatures, humidity, and direct sunlight.
- **Firmware Updates:** Periodically check the RME website for firmware updates to ensure you have the latest features and bug fixes.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your ADI-2 Pro FS R.

- **No Power:**
 - Check that the power adapter is securely connected to both the device and a working electrical outlet.
 - Ensure the power adapter is the correct one supplied with the unit.
- **No Audio Output:**
 - Verify all audio cables are correctly connected to the appropriate inputs and outputs.
 - Check the volume levels on the device and your connected playback system.
 - Ensure the correct input source is selected on the ADI-2 Pro FS R.
 - Confirm that the device is selected as the audio output device in your computer's sound settings.
- **Computer Not Recognizing Device:**
 - Ensure the USB cable is securely connected. Try a different USB port or cable.
 - For Windows, verify that the RME drivers are installed correctly and are up to date.
 - Restart your computer and the ADI-2 Pro FS R.
- **Distorted Audio:**
 - Check input gain levels to prevent clipping.
 - Ensure sample rates and clocking are correctly synchronized between the ADI-2 Pro FS R and other digital devices.

For further assistance, refer to the comprehensive RME user manual available on their official website or contact RME technical support.

7. SPECIFICATIONS

Below are the key technical specifications for the RME ADI-2 Pro FS R Black Edition.

Feature	Specification
Model Number	ADI2PROFSRBE
Item Weight	4.5 pounds
Product Dimensions	13.75 x 8.75 x 3.75 inches
Compatible Devices	PC
Connector Type	USB
Material Type	Aluminum (exterior)
Analog Inputs	2 x Servo-balanced XLR / TRS Combo Jacks
Analog Outputs	2 x Balanced XLR, 2 x Unbalanced TS
Headphone Outputs	2 x Stereo Extreme Power
Digital I/O	Optical SPDIF (ADAT compatible), Coaxial SPDIF (RCA), AES I/O (XLR via breakout cable)
Sample Rates	Up to 768 kHz (PCM/DSD)

8. WARRANTY AND SUPPORT

RME products are designed for reliability and performance. For information regarding the product warranty, please refer to the warranty card included with your purchase or visit the official RME website. For technical support, driver downloads, and additional resources, please visit the RME support page or contact their customer service department directly.

RME Official Website: <https://www.rme-audio.de/>