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> RME ADI-2 DAC FS User Manual

RME ADI2DACFS

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Ultra-Fidelity 2 Channel DA Converter and Headphone Amplifier

INTRODUCTION

The RME ADI-2 DAC FS is an ultra-fidelity PCM/DSD 768 kHz 2-Channel Digital-to-Analog Converter designed for exceptional home and hi-fi listening experiences. It provides minimal distortion and a low noise floor, making it suitable for discerning music lovers, musicians, and engineers. This device functions as a two-channel full-duplex audio interface, capable of recording SPDIF input signals via USB.

SAFETY INFORMATION

- Read all instructions carefully before operating the device.
- Keep this manual for future reference.
- Do not expose the device to rain, moisture, or extreme temperatures.
- Ensure proper ventilation to prevent overheating.
- Only use the power adapter supplied with the unit.
- Do not attempt to open or service the unit yourself. Refer all servicing to qualified personnel.
- Avoid listening at high volume levels for extended periods to prevent hearing damage.

PACKAGE CONTENTS

Please check that all items listed below are included in your package:

- RME ADI-2 DAC FS Unit
- Multi-Remote Control
- External Power Supply Unit
- USB Cable
- Printed User Manual (this document)

PRODUCT OVERVIEW

The RME ADI-2 DAC FS features a compact design with a comprehensive set of inputs, outputs, and controls for versatile audio applications.

Front Panel



Figure 1: Front view of the ADI-2 DAC FS.

The front panel provides access to the main user interface. It includes a high-resolution display, a large volume knob, and dedicated buttons for input/output selection and equalization. Two headphone outputs are present: a standard 1/4" PHONES output for high-power headphones and a dedicated IEM (In-Ear Monitor) output designed for sensitive in-ear monitors with a lower noise floor.

Rear Panel



Figure 2: Rear view of the ADI-2 DAC FS.

The rear panel houses all connectivity options. This includes the power input, a USB 2.0 port for computer connection, S/PDIF digital inputs (Coaxial and Optical), and both balanced XLR and unbalanced RCA analog line outputs. The balanced/unbalanced analog I/Os ensure versatile connectivity with various audio systems.

Multi-Remote Control



Figure 3: ADI-2 DAC FS with Multi-Remote Control.

The included multi-remote control provides convenient access to various functions. It features clearly labeled buttons for standby on/off, volume, balance, bass and treble adjustments, input selection (optical, coaxial, USB), mute, on/off loudness, and EQ control. Additionally, there are four programmable buttons that can be customized to access up to 32 different functions and commands, enhancing user accessibility in any lighting situation.

SETUP

1. **Placement:** Place the ADI-2 DAC FS on a stable, flat surface with adequate ventilation. Avoid placing it near heat sources or in direct sunlight.
2. **Power Connection:** Connect the supplied external power supply unit to the "POWER USB 2.0" input on the rear panel of the ADI-2 DAC FS. Plug the power adapter into a suitable wall outlet. The power cable can be locked into place for secure connection.
3. **Digital Input Connection:**
 - **USB:** For connecting to a computer (PC, Mac, or Linux device), use the provided USB cable to connect the ADI-2 DAC FS to a USB port on your computer. The device is class-compliant, meaning no special drivers are typically required for basic functionality.
 - **Coaxial S/PDIF:** Connect a coaxial digital audio cable from your source device (e.g., CD/DVD player) to the "COAX" input.
 - **Optical S/PDIF:** Connect an optical digital audio cable from your source device (e.g., TV) to the "OPTICAL" input.
4. **Analog Output Connection:**
 - **Balanced XLR:** For connecting to professional audio equipment or amplifiers with XLR inputs, use XLR cables to connect the "RIGHT" and "LEFT" balanced outputs.
 - **Unbalanced RCA:** For connecting to consumer audio equipment or amplifiers with RCA inputs, use RCA cables to connect the "R" and "L" unbalanced outputs.
5. **Headphone Connection:** Connect your headphones to the "PHONES" (1/4" jack) or "IEM" (3.5mm jack) outputs on the front panel. The IEM output is optimized for sensitive in-ear monitors.
6. **Power On:** Press the power button on the front panel or the remote control to turn on the unit. The display will

illuminate.

OPERATING INSTRUCTIONS

The ADI-2 DAC FS offers a range of features for precise audio control and playback.

Basic Operation

- **Volume Control:** Use the large "VOLUME" knob on the front panel or the VOL +/- buttons on the remote to adjust the output level.
- **Input Selection:** Press the "I/O" button on the front panel or use the dedicated input buttons (COAX, OPT, USB) on the remote to cycle through available digital inputs.
- **Display:** The high-resolution display provides real-time information, including level meters, sample rate, and menu settings.

Advanced Features

- **Parametric Equalizer (EQ):** The integrated 5-band equalizer is available for both headphone and main outputs. This allows for creating custom sound profiles and even different filter curves for left and right ears. The EQ stores 20 presets. Access via the "EQ" button on the front panel or remote.
- **Room Correction:** The integrated EQ can be used for room correction, helping to optimize sound based on your listening environment's acoustics.
- **DSP Effects:** Explore various DSP effects such as Loudness, Bass/Treble adjustments, Stereo Width, Mono, De-Emphasis, and MS-Processing to tailor your listening experience.
- **Crossfeed:** This feature emulates speaker sound perception for headphones, providing a more natural listening experience.
- **AutoDark:** When activated, the display, function keys, volume knob, and standby button will turn off after 10 seconds of inactivity. Touching any control will reactivate them for 10 seconds.
- **DSD Playback:** Supports Direct Stream Digital (DSD) playback at 64/128/256, including full level meters.
- **SteadyClock FS:** Features ultra-precise audio clocking with FemtoSecond Accuracy, providing highly efficient jitter suppression and cleaning up any clock signal.
- **Auto Hearing Protection:** The Overcurrent Protection prevents damage to headphones and hearing by automatically reducing output when a headphone jack is inserted or removed.

Official Product Video

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Video 1: RME ADI-2 DAC FS Overview.

This video provides a comprehensive overview of the RME ADI-2 DAC FS, highlighting its key features, connectivity options, and advanced functionalities such as the 5-band parametric EQ, various DSP effects, and the versatile remote control. It demonstrates how the device integrates into different audio setups, from driving high-power headphones to connecting with speakers and in-ear monitors, showcasing its adaptability for diverse listening needs.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid cleaners or aerosols.
- **Ventilation:** Ensure that the ventilation openings are not blocked to prevent overheating.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight and dust.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cable not connected or power outlet faulty.	Check power cable connection to unit and wall outlet. Try a different outlet.
No sound output	Incorrect input selected, volume too low, or output cables disconnected.	Verify the correct input is selected. Increase volume. Check all audio cable connections. Ensure headphones are fully inserted.
Distorted sound	Input signal too high, incorrect sample rate, or faulty cables.	Reduce input signal level. Check sample rate settings on source device. Replace audio cables.
Remote control not working	Batteries drained or line of sight blocked.	Replace remote control batteries. Ensure no obstructions between remote and unit.

SPECIFICATIONS

Feature	Detail
Brand	RME
Model Number	ADI2DACFS
Type	2 Channel DA Converter and Headphone Amplifier
Interface Type	USB
Maximum Sample Rate	768 kHz
Digital Inputs	S/PDIF Coaxial, S/PDIF Optical, USB 2.0
Analog Outputs	Balanced XLR, Unbalanced RCA
Headphone Outputs	1/4" PHONES (Extreme Power), 3.5mm IEM (Low Noise)
Power Supply	12 Volts (DC)
Product Dimensions	8.46"L x 5.91"W
Item Weight	1.72 pounds
Origin	Made in Germany

WARRANTY AND SUPPORT

For detailed warranty information, please refer to the official RME website or the warranty card included with your product. RME products typically come with a manufacturer's warranty covering defects in materials and workmanship.

For technical support, troubleshooting assistance beyond this manual, or service inquiries, please contact RME customer support through their official website:

[RME Official Support Page](#)

You may also find additional resources and firmware updates on the RME website.

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Product Model: ADI2DACFS