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RME ADI2FS

RME ADI-2 FS High Precision AD/DA Converter User Manual

Model: ADI2FS

Brand: RME

INTRODUCTION

The RME ADI-2 FS is a compact and highly flexible 2-channel Hi-End AD/DA-converter designed for professional audio applications. It provides first-class analog-to-digital and digital-to-analog conversion at sample rates up to 192 kHz, supporting SPDIF, AES, and ADAT formats. This device features an analog bypass mode, accommodating levels up to +22dBu, and facilitates conversion between balanced and unbalanced analog signals. Its versatile connectivity ensures broad compatibility, making it a universal solution for various audio setups.

SETUP

This section details the initial steps for setting up your RME ADI-2 FS converter.

1. Unpacking and Inspection

Carefully remove the ADI-2 FS from its packaging. Inspect the unit for any signs of damage that may have occurred during transit. Ensure all included accessories, such as the power supply, are present.

2. Power Connection

Connect the provided power supply to the **POWER** input on the rear panel of the ADI-2 FS. The power plug features a locking mechanism; insert it at the correct angle and twist to secure it firmly in place. This prevents accidental disconnection. Connect the power supply to a suitable electrical outlet.



Image: Front and rear view of the RME ADI-2 FS, showing the power input on the rear panel.

3. Analog Input Connections

Connect your analog audio sources to the **ANALOG INPUTS** on the rear panel. The ADI-2 FS features two balanced XLR/TRS combo jacks for Left (L) and Right (R) channels. Ensure your cables are securely connected.



Image: Close-up of the RME ADI-2 FS rear panel, highlighting the analog input and output connections.

4. Analog Output Connections

Connect your monitoring system (e.g., studio monitors) to the **ANALOG OUTPUTS** on the rear panel. These consist of two balanced XLR outputs for Left (L) and Right (R) channels, and two unbalanced RCA outputs. Choose the appropriate connection type for your equipment.

5. Digital I/O Connections

The ADI-2 FS offers various digital input/output options:

- **AES-3 / SPDIF:** Use the coaxial RCA connectors for AES/EBU (with adapter) or SPDIF signals.
- **ADAT (Ch. 1/2):** Use the optical TOSLINK connectors for ADAT signals.

Connect your digital audio devices accordingly to the **DIGITAL I/O** section on the rear panel.

OPERATING INSTRUCTIONS

This section covers the primary functions and controls of the RME ADI-2 FS.

1. Front Panel Overview



Image: Front panel of the RME ADI-2 FS, showing controls and indicators.

- **ANALOG INPUT (DIG) Level Meters:** Displays input levels for Left (L) and Right (R) channels. The OVR (Overload) indicator illuminates when the signal is too high.
- **LEVEL Knob (Analog Input):** Adjusts the input gain for analog signals.
- **CLOCK Section:** Indicators for sample rates (32, 44.1, 48, QS, DS) and clock source (COAX, OPT).
- **DIG IN / DIG OUT Buttons:** Selects digital input and output formats (ADAT, PRO, CON).
- **ANALOG OUTPUT (D/A MONITOR) Level Meters:** Displays output levels.
- **LEVEL Knob (Analog Output):** Adjusts the output level for analog signals.
- **VOL Knob (Headphones):** Controls the volume for the headphone output.
- **PHONES Jack:** Connect your headphones here.

2. Input and Output Level Settings

The ADI-2 FS features three distinct settings for input and output levels (+4 dBu, +13 dBu, +19 dBu) to ensure optimal compatibility with various analog equipment. Adjust these settings as needed to match the nominal operating levels of your connected devices and prevent clipping or low signal-to-noise ratios.

3. Digital Connectivity and Format Conversion

The coaxial RCA SPDIF I/O offers a switchable Channel Status, allowing it to be fully AES/EBU compatible (a cable adapter may be required). When the input selection is set to DIG, the device functions as a digital format converter, enabling simultaneous monitoring of the converted signal.

4. Headphone Output

The High Power² headphone circuitry provides robust performance with up to 0.7 watts per channel, a 0.1 ohm output impedance, and a maximum output level of +19 dBu. This ensures compatibility with a wide range of headphones. Adjust the VOL knob to set your desired listening level.

5. Clocking

The ADI-2 FS is equipped with custom-built digital clocking for excellent performance across all clock modes. Ensure your clock source is correctly selected (e.g., internal, COAX, OPT) and that the sample rate matches your session settings (32 kHz, 44.1 kHz, 48 kHz, or higher via QS/DS modes).

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your RME ADI-2 FS.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Avoid abrasive cleaners or solvents, which can damage the finish.
- **Ventilation:** Ensure the unit has adequate ventilation to prevent overheating. Do not block the ventilation grilles.

- **Environment:** Operate the ADI-2 FS in a clean, dry environment, away from extreme temperatures, humidity, and direct sunlight.
- **Cable Connections:** Periodically check all cable connections for security and integrity. Loose connections can lead to signal loss or noise.

TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your RME ADI-2 FS.

Problem	Possible Cause / Solution
No Power	<ul style="list-style-type: none"> ◦ Ensure the power adapter is securely connected to both the unit and the electrical outlet. Remember the locking mechanism on the unit's power input. ◦ Check if the power outlet is functional.
No Audio Output	<ul style="list-style-type: none"> ◦ Verify that the correct input source (Analog or Digital) is selected. ◦ Check all analog and digital cable connections. ◦ Ensure output levels (main and headphone) are not set to minimum. ◦ Confirm that the sample rate and clock source are correctly configured and synchronized with your connected devices. ◦ Check the OVR indicators on the input meters; if constantly lit, reduce the input level from your source.
Distorted Audio	<ul style="list-style-type: none"> ◦ Reduce input levels to prevent clipping (OVR indicator). ◦ Ensure output levels are not overdriving your monitoring system. ◦ Verify that the analog input/output level settings (+4 dBu, +13 dBu, +19 dBu) match your connected equipment.
Headphone Output Too Loud	<ul style="list-style-type: none"> ◦ Adjust the dedicated VOL knob for the headphone output. The ADI-2 FS features a powerful headphone amplifier.

SPECIFICATIONS

Key technical specifications for the RME ADI-2 FS.

- **Model Number:** ADI2FS
- **Item Weight:** 3.52 ounces
- **Product Dimensions:** 14 x 4 x 8 inches
- **Conversion:** 2-channel AD/DA
- **Sample Rates:** Up to 192 kHz
- **Digital I/O:** ADAT, SPDIF (coaxial), AES (via SPDIF with adapter)
- **Analog Input Levels:** +4 dBu, +13 dBu, +19 dBu
- **Analog Output Levels:** +4 dBu, +13 dBu, +19 dBu
- **Headphone Output Power:** Up to 0.7 watts per channel

- **Headphone Output Impedance:** 0.1 ohm
- **Headphone Max Output Level:** +19 dBu
- **THD (Headphone):** -110 dB

WARRANTY INFORMATION

RME products are manufactured to high standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official RME website. Keep your proof of purchase for warranty claims.

SUPPORT

For further assistance, technical support, or to download the latest drivers and firmware updates, please visit the official RME website. You can typically find support resources, FAQs, and contact information there.

Official RME Website: www.rme-audio.de