



Fredenstein
Professional Audio

ramDI
Re-Amplification and
Direct Input

Operating Manual

Fredenstein ramDI



Important Safety Instructions

1. Do Not try to service this product yourself! It may expose you to dangerous high voltage and other risks.
2. Do Not operate this product near water.
3. Do Not place or operate near or over radiator or heat register.
4. Do Not expose this product to dampness, dust or corrosive liquids.
5. Do Not connect this product and Disconnect from wall socket during a lightning or thunderstorm
6. Do Not obstruct this product ventilation slots, as insufficient airflow may harm this product.
7. Do Not insert any objects into the openings of the equipment.
8. Plug directly into wall socket (100Vac~240Vac). Do Not use an extension cord between this product and the AC power source.
9. When plugging this product into wall socket, make sure that electrical socket are not damaged, and no leakage for gas or water pipes to begin with.
10. Place the connecting cables carefully so people won't stumble or walk on it.
11. The equipment should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult the qualified technician.
12. Unplug the equipment from the mains and refer the product to qualified service personnel for the following conditions:
 - If liquid has been spilled on the product
 - If the product has been exposed to rain or water
13. Unplug from the wall socket before cleaning. Use a damp cloth for cleaning. Do not use liquid cleaners or aerosol cleaners

CAUTION!

The Federal Communication Commission warns the user that changes or modifications to the unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Fredenstein ramDI

The Fredenstein ramDI is a stand-alone instrument interface. It consists of a DI (Direct Input) and a Re-Amplification circuit. Both are isolated from XLR input and output to prevent ground loops. In normal operations, a instrument like a guitar or a keyboard, is connected to the DI TS input and an instrument amplifier to the AMP TS connector both connectors are located on the front-panel. The OUT DI XLR connector is connected to an input of a recording interface or console and the IN AMP XLR connector to an output of the audio interface or console, both XLR connectors are located on the back-panel.

The recording level can be adjusted by the DI GAIN control. After a instrument amplifier is connected to the AMP TS connector, the track is played back via the IN AMP XLR connector. This technique allows the decision which instrument amplifier to use or which setting is the best to be postponed up to mixing. A convenient direct function connects the instrument to the amplifier and disables the re-amplification.

For easy touring and recording around the world, the Fredenstein ramDI has a built-in universal power supply ranging from 90VAC to 240VAC, 50-60 Hz.

As all Fredenstein products, the ramDI is designed by a German-American team and manufactured in Taiwan.

Installation:

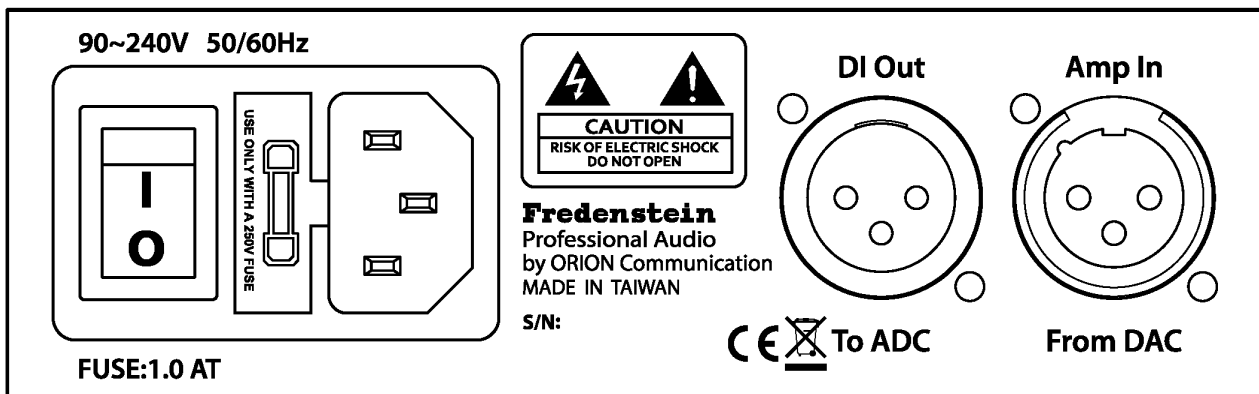
Electrical Safety Warnings:

Do not open the enclosure, hazardous voltages are present!

There are no user serviceable parts inside.

If you need to replace the mains fuse, located between the On-Off switch and the IEC power inlet, make sure the replacement has the same rating (1.0AT 250V).

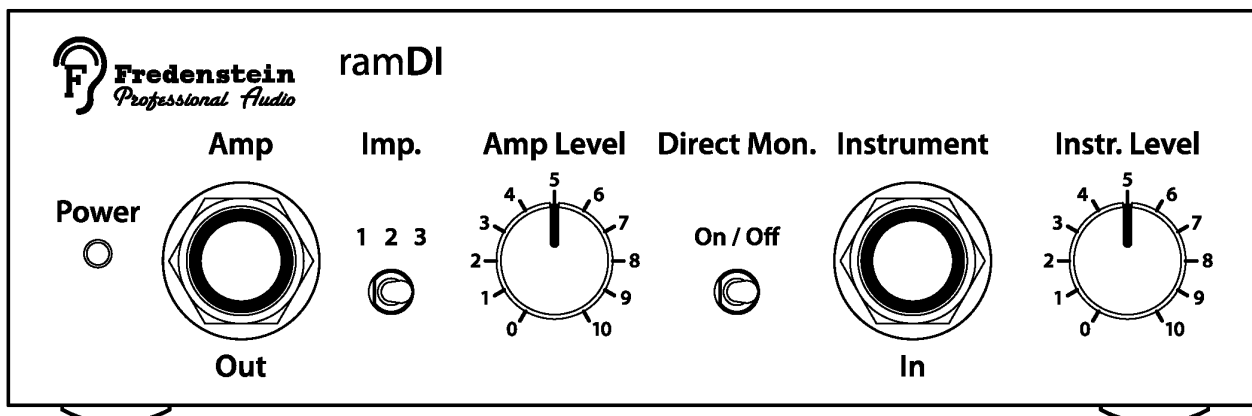
Rear View:



Please connect an input of your audio interface or console to the DI OUT XLR and an output to the AMP IN XLR connector. Connect the mains cable to the ramDI and then to a grounded mains outlet. The power ON/OFF switch is located on the back panel as well near the IEC power cable connector. After the unit is powered on, the POWER indicator on the front panel will be illuminated.

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Front View:



Indicators:

Power : Power indicator

Rotary Controls:

Instr. Level : Output level to the audio interface or console
Amp Level : Output level to the instrument amplifier

Switches:

Imp. : Select-able output impedance to recreate the behavior of the instrument pick-up, available settings are 1 low, 2 high and 3 middle. Chose the setting sounding the best.

Direct Mon. : Connects the instrument directly to the instrument amplifier and disconnects the re-amplification circuit. The DI function is still available to record.

Connectors:

Instrument In : TS high impedance input (2 M Ohms) to connect an instrument

Amp Out : TS output to the instrument amplifier (guitar amp, etc)

Detailed Description:

Fredenstein ramDI

DI Function:

Connect an instrument like a guitar or keyboard using a 1/4" standard instrument cable (TS, TIP-Sleeve). The input impedance is 2M Ohms to insure compatibility with most instrument pickups. The balanced output of the DI amplifier is located on the back-panel, a male XLR connector labeled DI Out.

Please connect this output to an input of your audio interface or console. Now you are able to record the instrument through your audio interface or console. The recording level can be set by the Instrument level control. If the Direct Mon. switch is in the On position, an attached instrument amplifier (see Re-Amplification section below) is active as well to give the player his usual acoustical feedback. The Re-Amplification circuit is disabled as long as Direct Mon. is On. The instrument input and the output are isolated from each other to prevent hum generated by ground loops.

Re-Amplification:

First, please turn the Amp Level control all the way counterclockwise to minimum and set the Direct Mon switch to the Off position. Provide a signal from your audio interface or console to the Amp In female XLR connector located on the back-panel. Connect your instrument amplifier with a standard TS instrument cable to the Amp Out jack. Adjust the Amp Level control to the desired volume. Try the impedance settings 1, 2, and 3 to find the optimal sound.

Technical Data:

DI:

Input Noise	:	< -90 dB
DI Gain	:	6 dB to 40 dB
DI Input Impedance	:	2 MOhms
Max. Input Level	:	+ 10 dBu
Max. Output Level	:	+ 20 dBu

AMP:

Output Impedance	:	10 KOhms, 20 KOhms or 50 KOhms selectable
Output Level	:	-∞ to -10 dBu

General:

Frequency Response	:	20 Hz – 20,000 Hz, +/- 1 dB
Distortion	:	< 0.2%
Mains Voltage	:	90 VAC to 240 VAC, 50 – 60 Hz
Power Consumption	:	10W max.

Dimensions:

L x H x D	:	140 mm x 44 mm x 120 mm 5.5" x 1.75" x 4.75"
Weight	:	500 g, 17.5 oz

Contact Info:

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