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› SMSL SD793-II DAC Digital Audio Decoder Amplifier User Manual

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SMSL SD793-II DAC Digital Audio Decoder Amplifier User Manual

Model: SMSL SD-793II | Brand: S.M.S.L

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your SMSL SD793-II DAC Digital Audio Decoder Amplifier. Please read this manual thoroughly before using the device to ensure proper functionality and to maximize your audio experience.

The S.M.S.L SD-793II DAC features advanced design and high-level hi-fi components, including PCM1793 and DIR9001 chips. It offers excellent workmanship, stylish appearance, simple operation, and perfect sound quality.

PRODUCT FEATURES

- All aluminum alloy shell, knob, and button for durability and premium feel.
- Signal input selection with clear LED indicators.
- Built-in headphone amplifier capable of driving mainstream low impedance audiophile headphones.
- Universal power adapter (100-240VAC) for global compatibility.

PACKAGE CONTENTS

Please verify that all items are present in the package:

- 1 x S.M.S.L SD-793II DAC Unit
- 1 x Power Adapter (US Plug)
- 1 x User Manual (English)



Image: The SMSL SD793-II DAC unit shown with its included power adapter and connecting cables.

PRODUCT OVERVIEW

Front Panel



Image: Front panel of the SMSL SD793-II, featuring the Power button, Select button, 6.35mm headphone output, and Volume knob.

- **Power Button:** Turns the unit on or off.
- **Select Button:** Toggles between Optical and Coaxial digital inputs.
- **Phone Jack:** 6.35mm headphone output.
- **Volume Knob:** Adjusts the headphone output volume. Note: This knob primarily controls the headphone output; the RCA line output is fixed.

Rear Panel



Image: Rear panel of the S.M.S.L SD793-II, showing the Optical input, Coaxial input, RCA Left and Right outputs, and DC 9V power input.

- **Optical Input:** TOSLINK digital audio input.
- **Coaxial Input:** RCA Coaxial digital audio input.
- **RCA Outputs (R OUT, L OUT):** Analog stereo RCA line outputs for connecting to an amplifier or powered speakers.
- **Power Input (DC+9V):** Connect the provided 9V DC power adapter here.

SETUP AND CONNECTION

1. **Power Connection:** Connect the provided power adapter to the DC+9V input on the rear panel of the SD793-II, then plug the adapter into a wall outlet.
2. **Source Connection:**
 - For Optical input: Connect a TOSLINK optical cable from your digital audio source (e.g., TV, CD player, game console) to the Optical input on the SD793-II.
 - For Coaxial input: Connect an RCA coaxial digital cable from your digital audio source to the Coaxial input on the SD793-II.

3. Output Connection:

- For Headphones: Plug your headphones into the 6.35mm Phone jack on the front panel.
- For External Amplifier/Speakers: Connect RCA cables from the R OUT and L OUT jacks on the rear panel to the corresponding analog inputs on your amplifier or powered speakers.

Important Note: Ensure your digital audio source is configured to output PCM stereo audio. The SD793-II does not decode Dolby Digital or DTS signals. Outputting these formats may result in distorted sound.

OPERATING INSTRUCTIONS

1. **Power On/Off:** Press the **Power** button on the front panel to turn the unit on. The power indicator LED will illuminate. Press it again to turn off the unit.
2. **Input Selection:** Press the **Select** button on the front panel to switch between Optical and Coaxial inputs. The input indicator LED will change color (e.g., red for Optical, green for Coaxial) to show the active input.
3. **Volume Adjustment (Headphones):** Rotate the **Volume** knob clockwise to increase headphone volume and counter-clockwise to decrease it.
4. **RCA Line Output:** The RCA line outputs (R OUT, L OUT) provide a fixed-level analog signal and are not controlled by the front panel volume knob. Adjust volume for connected amplifiers or powered speakers using their own volume controls.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid cleaners or abrasive materials.
- **Ventilation:** Ensure the unit has adequate ventilation. Do not block the ventilation slots.
- **Environment:** Avoid exposing the unit to extreme temperatures, humidity, dust, or direct sunlight.
- **Power Off:** Always power off the unit and disconnect it from the power outlet before cleaning or if it will be unused for an extended period.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound from headphones.	Unit is off; incorrect input selected; headphone volume too low; headphones not properly plugged in.	Ensure unit is powered on; press Select button to cycle inputs; increase volume knob; firmly plug in headphones.
No sound from RCA outputs.	Incorrect input selected; external amplifier/speakers are off or set to wrong input; RCA cables loose.	Press Select button to cycle inputs; ensure external equipment is powered on and set to correct input; check RCA cable connections.
Distorted or noisy sound.	Digital audio source is outputting non-PCM format (e.g., Dolby Digital, DTS); poor cable connection; ground loop.	Configure your digital audio source to output PCM stereo; check all cable connections; try a ground loop isolator if necessary.
Unit does not power on.	Power adapter not connected; power outlet not active; faulty power adapter.	Ensure power adapter is securely connected to unit and wall outlet; test outlet with another device; contact support if adapter is suspected faulty.

SPECIFICATIONS

DAC Part Specifications:

- **Standard Input:** Optical/Coaxial
- **Input Frequency:** 32-96KHz / 16-24BIT
- **SNR (Signal-to-Noise Ratio):** 115dB
- **Dynamic Range:** 108dB
- **Distortion:** <0.0008% (at 1KHz)
- **Normal Output:** 1.8VPP
- **Response Frequency:** 20-20KHz (-0.3dB)

Amplifier Part Specifications:

- **Output Power:** 1.8VPP
- **Distortion:** <0.01% (at 1KHz)
- **SNR (Signal-to-Noise Ratio):** 95dB

General Specifications:

- **Power Consumption:** <8W
- **Dimensions (approx.):** 76 x 128 x 33mm (W x D x H)
- **Weight (approx.):** 0.8kg
- **Model Number:** SMSL SD-793II
- **UPC:** 620013014049, 686560910395

WARRANTY AND SUPPORT

This product comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package for specific terms and conditions, or visit the official S.M.S.L website for detailed warranty information. For technical support, troubleshooting assistance, or warranty claims, please contact S.M.S.L customer service through their official channels. Contact information can typically be found on their website or on the product packaging.

Please retain your proof of purchase for warranty purposes.