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Douk Audio SUC-M1-FM

Douk Audio M1FM HiFi Bluetooth 5.1 Digital Amplifier with FM Receiver User Manual

Model: SUC-M1-FM

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your Douk Audio M1FM HiFi Bluetooth 5.1 Digital Amplifier with FM Receiver. Please read this manual thoroughly before using the product to ensure proper function and to maximize your listening experience. Keep this manual for future reference.

SAFETY INSTRUCTIONS

- Ensure the power supply voltage matches the requirements specified on the device.
- Do not expose the unit to rain, moisture, or extreme temperatures.
- Avoid placing the unit near heat sources or in direct sunlight.
- Do not open the casing. Refer all servicing to qualified personnel.
- Keep the unit away from strong magnetic fields.
- Disconnect the power adapter during lightning storms or when unused for long periods.
- Ensure proper ventilation around the unit to prevent overheating.

PACKAGE CONTENTS

Verify that all items are present in the package:

- 1x Douk Audio M1FM Amplifier
- 1x 24V/4A Power Supply
- 1x Bluetooth Antenna
- 1x FM Antenna
- 1x Remote Control (batteries not included)

PACKING LIST



Figure 1: Package Contents. This image displays all items included in the Douk Audio M1FM amplifier package, including the amplifier unit, power supply, Bluetooth antenna, FM antenna, and remote control.

PRODUCT OVERVIEW

Familiarize yourself with the front and rear panels of the M1FM amplifier.



Figure 2: Front and Rear Panel. This diagram illustrates the various inputs, outputs, and controls on the front and rear of the Douk Audio M1FM amplifier, including the display screen, multi-function knob, power/volume/mute knob, infrared receiver, FM antenna input, RCA inputs, AUX input, AUX output, speaker outputs, and DC power input.

Front Panel Controls:

- **Display Screen:** Shows current input mode, FM frequency, and volume level.
- **Multi-function Knob:** Used for menu navigation and selection.
- **Power / Volume / Mute Knob:** Press to power on/off or mute, rotate to adjust volume.
- **Infrared Receiver:** For remote control signals.

Rear Panel Connections:

- **FM ANT:** Connect the FM antenna.
- **RCA IN (L/R):** Analog audio input for devices like CD players.
- **AUX IN (3.5mm):** Analog audio input for portable devices.
- **AUX OUT (3.5mm):** Audio output to connect to another amplifier or active speaker/subwoofer.

- **Speaker Output (L/R):** Connect passive speakers using banana plugs or bare wire.
- **DC 15-24V:** Power input.

SETUP

1. Connect Speakers:

Connect your passive speakers to the "SPK OUT L" and "SPK OUT R" terminals on the rear panel. Ensure correct polarity (red to red, black to black). The amplifier supports 3-8Ω passive speakers.

2. Connect Audio Sources:

- **RCA Input:** Connect devices such as CD players or DACs to the "RCA IN" ports using an RCA cable.
- **AUX Input:** Connect portable devices (e.g., smartphones, tablets) to the "AUX IN" (3.5mm) port using a 3.5mm audio cable.

3. Connect FM Antenna:

Attach the provided FM antenna to the "FM ANT" connector on the rear panel. Extend the antenna for optimal reception.



Figure 3: FM Antenna Setup. This image shows the Douk Audio M1FM amplifier connected to speakers and an FM antenna, illustrating the setup for radio reception.

4. Connect Bluetooth Antenna:

Screw the provided Bluetooth antenna into the dedicated connector on the rear panel for stable wireless connectivity.

Your browser does not support the video tag.

Video 1: Douk Audio M1FM Amplifier Setup. This video demonstrates the physical connections for the Douk Audio M1FM amplifier, including speaker wires, RCA cables, AUX cables, and antenna connections, showcasing the rear panel setup.

5. Power Connection:

Connect the 24V/4A power supply to the DC input on the rear panel, then plug the power supply into a wall outlet.

OPERATION

Power On/Off and Volume Control:

- Press the Power/Volume/Mute knob on the front panel to turn the unit on or off.
- Rotate the Power/Volume/Mute knob to adjust the volume level.
- Press the knob briefly to mute or unmute the audio.

Input Selection:

Press the Multi-function knob on the front panel to cycle through available input modes: Bluetooth, FM, RCA, AUX.

Bluetooth Operation:

1. Select "Bluetooth" input mode on the amplifier. The display will show "BT".
2. On your mobile device, enable Bluetooth and search for "Douk Audio M1FM".
3. Select the amplifier to pair. Once connected, the display will indicate a successful connection.
4. To clear paired devices, use the Bluetooth reset function via the remote control.

Bluetooth 5.1 Transmission

Supporting SBC/AAC/APTX/APTX-HD, 24bit/48Khz lossless transmission can be achieved to reproduce high-quality music.



Figure 4: Bluetooth Connectivity. This image illustrates the Douk Audio M1FM amplifier wirelessly connected to a smartphone via Bluetooth 5.1, demonstrating its capability for high-quality audio streaming.

FM Radio Operation:

1. Select "FM" input mode.
2. Use the Multi-function knob or remote control to perform automatic or manual station searches.
3. The display will show the current FM frequency (76-108MHz).

Remote Control Usage:

The full-function remote control allows for convenient operation from a distance. Insert 2x AAA batteries (not included) into the remote. Functions include power, input selection, volume adjustment, mute, FM tuning, and Bluetooth reset.

Practical functions to simplify use

With full-function remote control,
all settings can be achieved from a distance.



Figure 5: Remote Control. This image shows the Douk Audio M1FM amplifier on a desk setup, highlighting the use of its remote control for convenient operation and the Bluetooth reset function.

SPECIFICATIONS

Parameter	Value
Audio Input	Bluetooth 5.1 / FM / RCA / AUX
Audio Output	AUX / Banana speaker jacks
Amplifier IC	TPA3116D2
Bluetooth Chip	QCC303X (supports AAC/SBC/APTX/APTX-HD, 48kHz/24bit)
Op-amp	4PCS NE5532 (pluggable sockets)
FM Frequency	76-108Mhz
Frequency Response	20Hz-20kHz (± 1 dB)

Rated Output Power	50W*2 @ 4Ω
Input Sensitivity	0.775V
AUX Rated Output Level	1.3V
THD+N	0.03%
SNR	≥102dB
Working Voltage	DC 15-24V
Dimensions (W*D*H)	132*124*36mm / 5.20*4.88*1.42in
Net Weight	513g / 1.13lb



Figure 6: Internal Components. This image highlights the TPA3116D2 amplifier chip and the four NE5532 op-amps with pluggable sockets, which contribute to the amplifier's audio performance and customization options.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cable not connected; Power outlet faulty; Power adapter damaged.	Check power cable connection; Try a different outlet; Contact support for adapter replacement.
No sound	Incorrect input selected; Volume too low; Speaker cables loose; Mute function active.	Select correct input; Increase volume; Check speaker connections; Deactivate mute.
Bluetooth connection issues	Device not in pairing mode; Amplifier too far from device; Interference; Previously paired device.	Ensure amplifier is in BT mode; Move device closer; Clear Bluetooth history on amplifier and device; Try pairing again.
Poor FM reception	FM antenna not connected or poorly positioned; Weak signal in area.	Ensure FM antenna is securely connected and fully extended; Reposition antenna for better signal; Consider an external FM antenna if needed.
Distorted sound	Volume too high; Input signal too strong; Speaker impedance mismatch.	Reduce volume; Check source device output level; Ensure speakers are 3-8Ω.

MAINTENANCE

- Clean the unit with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- Keep ventilation openings clear of dust and debris.
- Store the amplifier in a cool, dry place when not in use for extended periods.

WARRANTY AND SUPPORT

Douk Audio products are designed for reliability and performance. For warranty information, please refer to the warranty card included with your purchase or visit the official Douk Audio website. For technical support or service inquiries, please contact Douk Audio customer service through their official channels. You can find more information and contact details at the [Douk Audio Store on Amazon](#).

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