

Nobsound DZ102-2024

Nobsound Mini FM Radio Transistor User Manual

Model: DZ102-2024

1. INTRODUCTION

This manual provides detailed instructions for the Nobsound Mini FM Radio Transistor, model DZ102-2024. This compact and versatile FM radio is designed for global use, featuring automatic and manual station search, a digital display, and flexible power options. Please read this manual thoroughly before operating the device to ensure proper use and longevity.

2. SAFETY INFORMATION

Important Safety Tips:

- It is not recommended to connect headphones to the 3.5mm output. The sound effect may not be optimal, and the volume cannot be adjusted through the device when headphones are connected.
- A DC 5V power adapter is required for operation and is not included in the package. Please ensure you use a compatible power adapter (200mA recommended).
- Do not expose the device to water or excessive moisture.
- Avoid dropping or subjecting the device to strong impacts.
- Do not attempt to disassemble or repair the device yourself. Refer to qualified personnel for service.

3. PRODUCT OVERVIEW

3.1. Package Contents

Upon unboxing, please verify that all items listed below are present:

- 1x Nobsound Mini FM Radio Tuner
- 1x 3.5mm to RCA Cable
- 1x USB Cable (Type-C)
- 1x 3.5mm Cable
- 1x FM Antenna

PACKING LIST



Figure 3.1: Contents of the Nobsound Mini FM Radio package, including the radio tuner, USB-C cable, 3.5mm to RCA cable, 3.5mm cable, and FM antenna.

3.2. Device Layout and Controls



Figure 3.2: Detailed diagram illustrating the front and rear panels of the Nobsound Mini FM Radio, highlighting the multifunctional knob, ATS button, VHF button, FM antenna input, DC 5V Type-C power input, and 3.5mm audio output.

Multifunctional Knob:

- **Rotate:** Adjusts volume or selects stations.
- **Short Press:** Enters volume adjustment mode.
- **Long Press:** Enters manual selection station mode.

ATS Button: (Automatic Search Station)

- **Long Press:** Initiates automatic station search.
- **Short Press:** Turns the display screen light on for 6 seconds.

VHF Button:

- **Short Press:** Saves the currently selected station.
- **Long Press:** Selects the FM frequency range (87-108MHz, 76-108MHz, or 64-108MHz).

FM Antenna Interface (ANT): Connect the included FM antenna here.

DC 5V IN (Type-C): Power input port for the device.

3.5mm Audio Output (AUDIO OUT): Connect to external audio devices like preamplifiers or amplifiers.

4. SETUP

- Connect the FM Antenna:** Insert the provided FM antenna into the "ANT" interface on the rear of the radio. Extend the antenna fully for optimal reception.
- Connect Power:** Use the included USB Type-C cable to connect the "DC 5V IN" port on the radio to a compatible DC 5V (200mA) power adapter (not included) or a USB power source.
- Connect Audio Output (Optional):** If connecting to an external audio system, use the 3.5mm to RCA cable or a 3.5mm cable to connect the "AUDIO OUT" port on the radio to the audio input of your amplifier or preamplifier.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off

The device powers on automatically when connected to a power source. To turn off the display, short press the ATS button. The radio will remain active.

5.2. Automatic Station Search (ATS)

To automatically search for and store available FM stations:

1. Ensure the antenna is properly connected and extended.
2. Long press the **ATS button**. The radio will begin scanning and storing stations with strong signals.
3. The scanning process will display the frequencies as it searches. Once complete, it will stop on the first found station.

Intelligent operation

Designed with an automatic search function, can quickly and accurately search for radio stations; It also supports the manual selection of specific frequencies and manual storage functions. With a digital display screen and encoder knob selection design, it is more convenient to use.



Figure 5.2: The Nobsound Mini FM Radio in an intelligent operation setup, illustrating its automatic search capabilities for radio stations.

5.3. Manual Station Selection and Storage

1. **Enter Manual Mode:** Long press the **Multifunctional Knob**. The display will indicate manual tuning mode.
2. **Tune Frequency:** Rotate the **Multifunctional Knob** to manually adjust the frequency to your desired station.
3. **Save Station:** Once you have tuned to the desired frequency, short press the **VHF button** to save the station.

5.4. Adjusting Volume

To adjust the volume:

1. Short press the **Multifunctional Knob** to enter volume adjustment mode.
2. Rotate the **Multifunctional Knob** to increase or decrease the volume.
3. The display will show the volume level.

5.5. Selecting Frequency Range

The Nobsound Mini FM Radio supports three global frequency ranges:

- 87-108MHz
- 76-108MHz
- 64-108MHz

To change the frequency range, long press the **VHF button**. Each long press will cycle through the available frequency groups.



Figure 5.5: The Nobsound Mini FM Radio showcasing its global universality feature, capable of operating across three different FM frequency ranges (87-108MHz, 76-108MHz, 64-108MHz) for worldwide compatibility.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the radio. Do not use liquid cleaners or aerosols.
- **Storage:** When not in use for extended periods, store the radio in a cool, dry place away from direct sunlight and extreme temperatures.
- **Antenna Care:** Handle the antenna gently to prevent bending or breaking.

Durable material

Adopts a sturdy and durable aluminum alloy shell, not only has a good appearance and texture, but also effectively protects the internal circuit from external factors, ensuring the long-term stable working performance of the product.



Figure 6.1: The Nobsound Mini FM Radio, highlighting its durable aluminum alloy shell designed for long-term stability and protection of internal components.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power/Device not turning on.	No power adapter connected or adapter is faulty.	Ensure a DC 5V (200mA) power adapter is correctly connected. Try a different USB power source or adapter.
Poor radio reception.	Antenna not properly connected or extended; weak signal in location.	Ensure the FM antenna is fully extended and securely connected. Try repositioning the antenna or the radio for better signal.

Problem	Possible Cause	Solution
Headphone sound quality is poor or volume cannot be adjusted.	This is a known characteristic of the 3.5mm output.	The 3.5mm output is primarily for connecting to external amplifiers/preamplifiers. It is not recommended for direct headphone use. Volume adjustment should be done via the connected amplifier.
Cannot find desired station during auto search.	Station signal is too weak for auto-detection; incorrect frequency range selected.	Try manual tuning (Section 5.3). Ensure the correct frequency range is selected for your region (Section 5.5).

8. SPECIFICATIONS

Parameter	Value
Model Number	DZ102-2024
Audio Input	FM
Audio Output	3.5mm Jack
FM Frequency Ranges	87-108MHz / 76-108MHz / 64-108MHz
Power Supply	DC 5V (200mA)
Dimensions (W*D*H)	77*62*21mm / 3.03*2.44*0.83in
Net Weight	80g / 0.18lb
Item Weight	1.01 pounds (Package weight: 500g / 1.10lb)
Material	Aluminum Alloy Shell
Color	Black
Connectivity Technology	Auxiliary

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Nobsound website or contact your retailer. Keep your purchase receipt for warranty claims.

For further assistance, you may visit the Nobsound store on Amazon: [Nobsound Amazon Store](#)