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Nobsound DZ102

Nobsound Mini FM Radio Tuner User Manual

Model: DZ102 | **Brand:** Nobsound

1. Introduction

Thank you for purchasing the Nobsound Mini FM Radio Tuner, Model DZ102. This compact and versatile FM tuner is designed to provide high-quality audio reception across various global frequency bands. It features an intuitive digital display, automatic and manual station search capabilities, and flexible power options, making it suitable for home, car, or outdoor use.



Figure 1.1: Front-left view of the Nobsound Mini FM Radio Tuner. This image shows the compact size and sleek design of the device, with the main control knob visible on top.

The DZ102 incorporates the SI4730 radio chip for stable and clear reception. Its durable aluminum alloy shell ensures longevity and a premium feel. This manual will guide you through the setup, operation, and maintenance of your new FM radio tuner.



Figure 1.2: The Nobsound Mini FM Radio Tuner placed on top of a speaker, highlighting its durable and portable design. The image emphasizes its compact form factor, suitable for various environments.

2. Package Contents

Please check the package for the following items:

- 1x Nobsound Mini FM Radio Tuner (Model NS-10G FM)
- 1x FM Antenna
- 1x USB Type-C Cable (with power switch)
- 1x 3.5mm to RCA Audio Cable
- 1x 3.5mm Audio Cable
- 1x User Manual



Figure 2.1: Detailed diagram showing all items included in the Nobsound Mini FM Radio Tuner package. This includes the tuner unit, antenna, various cables, and the user manual.

3. Product Overview & Controls

Familiarize yourself with the various parts and controls of your Nobsound Mini FM Radio Tuner.

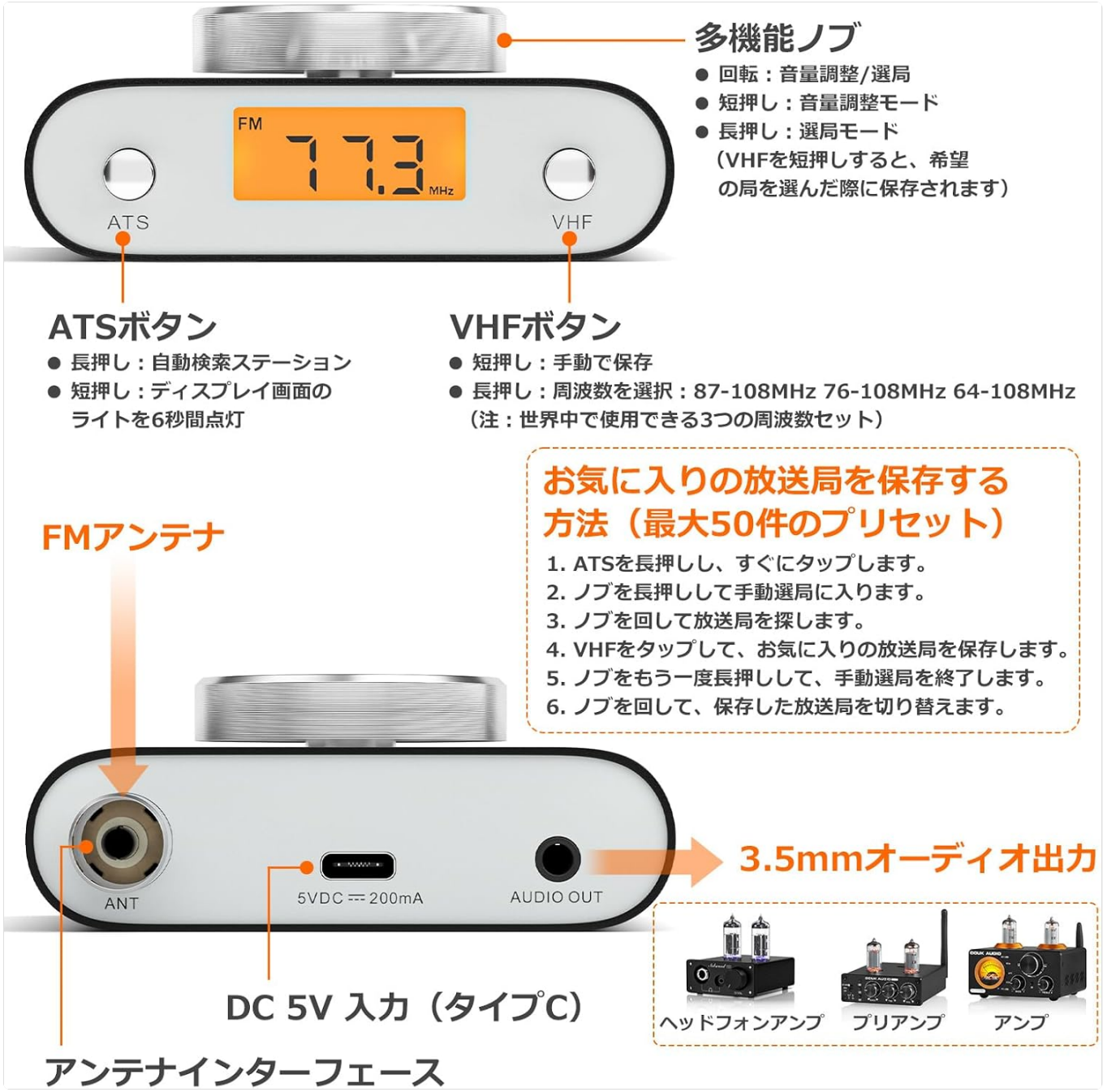


Figure 3.1: Detailed diagram illustrating the controls and ports of the Nobsound Mini FM Radio Tuner. Labels indicate the multi-function knob, ATS button, VHF button, FM antenna input, DC 5V input, and 3.5mm audio output.

3.1 Front Panel

- **ATS Button:** Short press to manually save a station. Long press to initiate automatic station search (ATS). The display light will illuminate for 6 seconds during operation.
- **VHF Button:** Short press to manually select a frequency. Long press to cycle through available frequency bands (87-108MHz, 76-108MHz, 64-108MHz).
- **Digital Display:** Shows the current FM frequency and other operational information.

3.2 Rear Panel

- **ANT (Antenna Interface):** Connect the provided FM antenna here.
- **DC 5V Input (Type-C):** Connect the USB Type-C power cable here.
- **AUDIO OUT (3.5mm Audio Output):** Connect to headphones, active speakers, or an amplifier using the provided 3.5mm audio cables.

3.3 Top Panel

- **Multi-function Knob (VOL / TUNING):**
  - **Rotate:** Adjusts volume or tunes frequency.
  - **Short Press:** Toggles between volume adjustment mode and tuning mode.
  - **Long Press:** Enters selection mode (for saving stations).

4. Setup

4.1 Power Connection

1. Connect one end of the provided USB Type-C cable to the**DC 5V Input** port on the rear of the tuner.
2. Connect the other end of the USB cable to a 5V USB power adapter (not included), a computer USB port, or a power bank.
3. Use the in-line switch on the USB cable to power the device on or off.



Figure 4.1: The Nobsound Mini FM Radio Tuner being powered via USB in a car and an outdoor camping scenario. This illustrates the convenience and versatility of its USB power supply.

4.2 Antenna Connection

1. Connect the provided FM antenna to the**ANT** port on the rear of the tuner.
2. Position the antenna for optimal reception. Extending it fully and placing it near a window often improves signal quality.

4.3 Audio Output Connection

1. Connect one end of the 3.5mm audio cable (or 3.5mm to RCA cable) to the**AUDIO OUT** port on the rear of the tuner.
2. Connect the other end of the cable to your desired audio device, such as headphones, active speakers, or an amplifier.

5. Operating Instructions

5.1 Power On/Off

Use the in-line switch on the USB Type-C power cable to turn the tuner on or off. The digital display will illuminate when powered on.

5.2 Frequency Band Selection

The tuner supports three global frequency bands:

- 87-108MHz (Standard FM)
- 76-108MHz (Japan FM, Wide FM)
- 64-108MHz (Eastern Europe/China FM)

To change the frequency band, **long press the VHF button**. The tuner will cycle through the available bands. Select the band appropriate for your region.



Figure 5.1: Visual representation of the Nobsound Mini FM Radio Tuner's global frequency compatibility, highlighting the SI4730 chip and the three supported frequency ranges: 87-108MHz, 76-108MHz, and 64-108MHz.

5.3 Automatic Station Search (ATS)

1. Ensure the antenna is connected and positioned correctly.
2. **Long press the ATS button**. The tuner will automatically scan for available FM stations and save them to presets.
3. The display will show the scanning progress. Once complete, the tuner will stop on the first saved station.

5.4 Manual Tuning

1. **Short press the multi-function knob** until the display indicates it is in tuning mode (e.g., a tuning icon or flashing frequency).
2. **Rotate the multi-function knob** to manually adjust the frequency up or down until you find your desired station.



Figure 5.2: Illustration of the Nobsound Mini FM Radio Tuner's easy tuning features, including automatic scan, manual selection, and manual saving of stations.

5.5 Saving Favorite Stations (Up to 50 Presets)

1. Tune to the desired station using manual tuning or ATS.
2. **Long press the multi-function knob** to enter manual save mode. The display may show a preset number flashing.
3. **Rotate the multi-function knob** to select the desired preset number (P01-P50).
4. **Short press the VHF button** to confirm and save the station to the selected preset.
5. **Long press the multi-function knob again** to exit manual save mode.

5.6 Recalling Saved Stations

After saving stations, you can recall them by rotating the multi-function knob when it is in station selection mode (after an ATS scan or when cycling through presets).



Figure 5.3: The intuitive and large display screen of the Nobsound Mini FM Radio Tuner, clearly showing the frequency for seamless use and adjustment.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the tuner. Do not use liquid cleaners or abrasive materials, as they may damage the finish.
- **Storage:** When not in use for extended periods, store the tuner in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping the device or subjecting it to strong impacts, which could damage internal components.

7. Troubleshooting

7.1 No Power

- Ensure the USB Type-C cable is securely connected to both the tuner and the power source.
- Check if the power source (USB adapter, computer, power bank) is functioning correctly.
- Verify that the in-line power switch on the USB cable is in the 'ON' position.

7.2 No Sound

- Check if the audio output cable is securely connected to both the tuner's **AUDIO OUT** port and your audio device.

- Ensure your connected audio device (headphones, speakers, amplifier) is powered on and its volume is turned up.
- Adjust the volume on the tuner using the multi-function knob.
- Confirm that a station is tuned in and receiving a signal.

7.3 Poor Reception / Static

- Ensure the FM antenna is securely connected to the **ANT** port.
- Adjust the position and orientation of the antenna. Try extending it fully and placing it near a window.
- Check for sources of interference, such as other electronic devices, and move the tuner away from them if possible.
- Try switching to a different frequency band if available in your region.
- Perform an automatic station search (ATS) to find stronger signals.

8. Specifications

Feature	Specification
Brand	Nobsound
Model	DZ102
Color	Black
Dimensions (L x W x H)	7.7 x 6.2 x 2.1 cm
Weight	80 grams
Tuner Technology	FM
Supported Frequencies	64-108MHz, 76-108MHz, 87-108MHz
Power Input	DC 5V (via USB Type-C)
Audio Output	3.5mm Stereo Jack
Display Type	LCD
Hardware Interface	USB Type-C

9. Warranty and Support

This Nobsound Mini FM Radio Tuner (Model DZ102) comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use.

For technical support, troubleshooting assistance, or warranty claims, please contact your retailer or visit the official Nobsound website for customer service information. Please have your product model and purchase details ready when contacting support.

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