



FR-182US

# User Manual: Solar Powered Portable Radio with Flashlight

MODEL: FR-182US | BRAND: GENERIC

## 1. Product Overview

---

This multi-band portable emergency radio is designed for reliable communication and illumination in various situations, from outdoor adventures to power outages. It features AM/FM/SW1-6 tuning, a built-in LED flashlight, and versatile power options including solar and rechargeable battery.



**Figure 1.1:** Front view of the Solar Powered Portable Radio, highlighting its compact design and integrated solar panel.

Key features include:

- **7-Band Radio Receiver:** Covers AM, FM, and SW1-6 frequencies for comprehensive broadcast access.
- **Built-in Emergency Flashlight:** High-brightness LED for illumination in dark conditions.
- **Dual Power Options:** Rechargeable battery with solar charging capability and USB charging.
- **Clear, Loud Audio:** Enhanced front-facing speaker for optimal sound quality.
- **Portable Design:** Compact and lightweight for easy transport.

## 2. Setup and Charging

Before first use, ensure the radio is adequately charged. The device offers multiple charging methods to keep it powered.

# Charging Methods



① SOLAR PANEL



② DC 5V charge



③ BATTERY1:3.7V  
lithium battery



④ BATTERY2:UM-1\*2PCS

Figure 2.1: Overview of the radio's charging methods, including solar, DC 5V input, and battery compartments.

1. **Solar Charging:** Place the radio with the solar panel (located on top) facing direct sunlight. The solar panel will convert sunlight into electrical energy to charge the internal battery.

# Solar Charge



Figure 2.2: The solar panel on top of the radio, designed for efficient charging in sunlight.

2. **DC 5V Charging:** Connect a standard USB charging cable to the DC 5V input port on the radio and to a compatible USB power adapter or computer USB port.
3. **Battery Installation:** The radio supports both a 3.7V lithium battery and two UM-1 (D-cell) batteries. Ensure batteries are inserted with correct polarity as indicated in the battery compartment.

### 3. Operating Instructions

Familiarize yourself with the controls and functions of your portable radio.

- 1.LAMP OR TORCH SWITCH
- 2.USB-MINI JACK-5VIN
- 3.PHONE JACK
- 4.USB JACK
- 5.TF JACK
- 6.PREV
- 7.PLAY/PAUSE
- 8.NEXT

- 9.MODE
- 10.TUNING
- 11.POWER ON/OFF AND VOLUME
- 12.BAND SWITCH
- 13.LED light
- 14.SOLAR PANEL

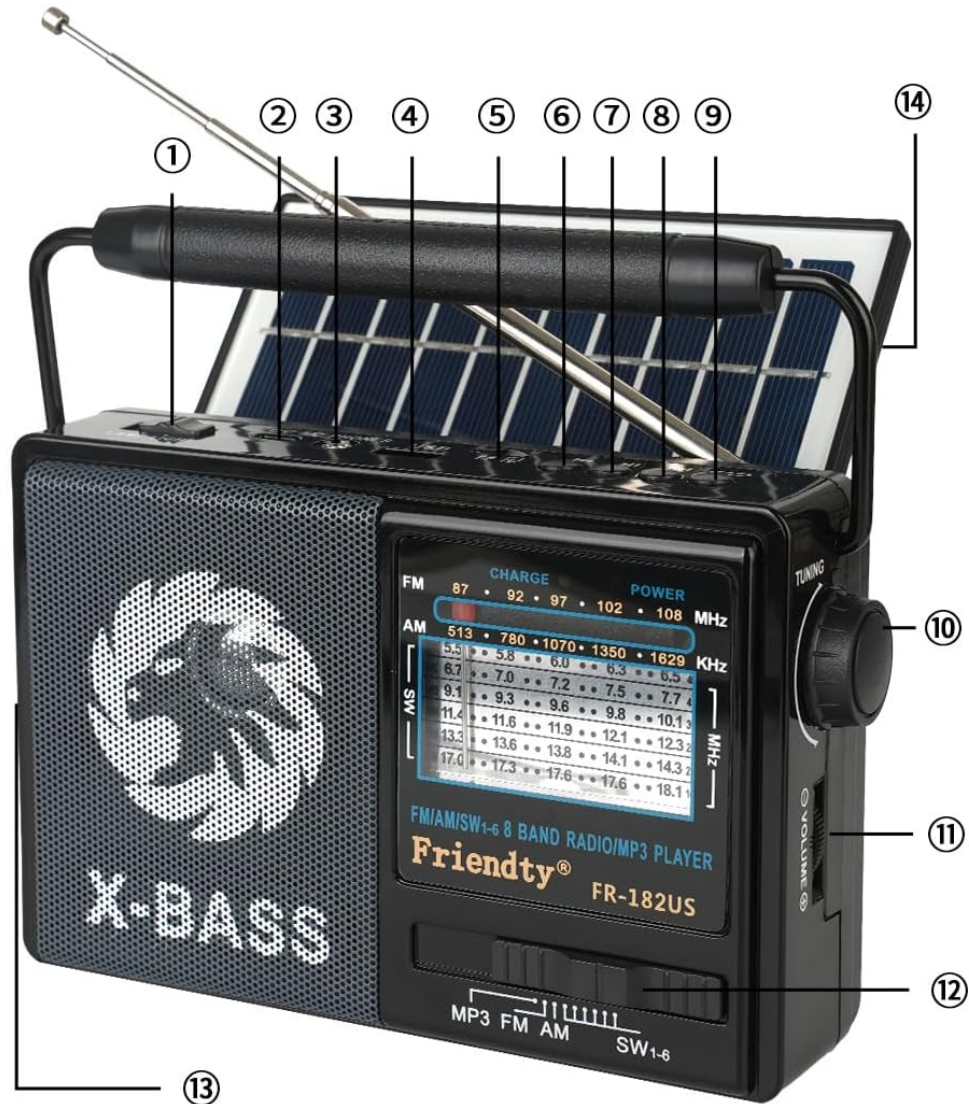


Figure 3.1: Labeled diagram of the radio's controls and ports.

### 3.1 Basic Operation

1. **Power On/Off and Volume (11):** Rotate the knob labeled "POWER ON/OFF AND VOLUME" clockwise to turn on the radio and increase volume. Rotate counter-clockwise to decrease volume and turn off.
2. **Band Selection (12):** Use the "BAND SWITCH" to select between FM, AM, SW1, SW2, SW3, SW4, SW5, and SW6 bands.
3. **Tuning (10):** Rotate the "TUNING" knob to scan for radio stations within the selected band. Extend the telescopic antenna for better FM and SW reception.

### 3.2 Flashlight Operation

The radio includes a built-in LED flashlight for emergency illumination.



Figure 3.2: The radio's built-in LED light providing illumination.

- **Activate Flashlight (1):** Use the "LAMP OR TORCH SWITCH" to turn the LED light on or off.

### 3.3 Multiple Functions Overview

# Multiple Functions



Figure 3.3: Visual representation of the radio's multi-functional capabilities.

- **Earphone Jack (3):** Connect standard 3.5mm earphones for private listening.
- **USB Jack (4) & TF Jack (5):** Insert a USB drive or TF (MicroSD) card to play MP3 audio files.
- **Mode Button (9):** Press the "MODE" button to switch between radio mode and MP3 player mode (USB/TF card).
- **Playback Controls (6, 7, 8):** Use "PREV" (6), "PLAY/PAUSE" (7), and "NEXT" (8) buttons for media playback control in MP3 mode.

## 4. Maintenance

- **Cleaning:** Wipe the radio with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Battery Care:** If storing the radio for an extended period, remove the UM-1 batteries to prevent leakage. Ensure the rechargeable battery is periodically charged to maintain its lifespan.
- **Storage:** Store the radio in a cool, dry place away from direct sunlight and extreme temperatures.

## 5. Troubleshooting

Problem	Solution
No power / Radio does not turn on.	<ul style="list-style-type: none"> <li>◦ Check if the power/volume knob is turned on.</li> <li>◦ Ensure the internal rechargeable battery is charged.</li> <li>◦ If using UM-1 batteries, check if they are inserted correctly and are not depleted.</li> <li>◦ Try charging the radio via solar or DC 5V input.</li> </ul>
Poor radio reception.	<ul style="list-style-type: none"> <li>◦ Extend the telescopic antenna fully.</li> <li>◦ Rotate the radio for optimal signal reception.</li> <li>◦ Move to an open area away from large metal objects or electronic devices that may cause interference.</li> <li>◦ For AM, try rotating the radio as the internal antenna is directional.</li> </ul>
Flashlight not working.	<ul style="list-style-type: none"> <li>◦ Ensure the "LAMP OR TORCH SWITCH" is in the ON position.</li> <li>◦ Check battery level; the flashlight may not operate if the battery is too low.</li> </ul>
MP3 playback issues.	<ul style="list-style-type: none"> <li>◦ Ensure the USB drive or TF card is inserted correctly.</li> <li>◦ Verify that the audio files are in a supported format (e.g., MP3).</li> <li>◦ Press the "MODE" button to switch to MP3 player mode.</li> </ul>

## 6. Specifications

Feature	Detail
Model Number	FR-182US
Tuner Technology	FM, AM, SW1-6 (7-Band)
Power Source	Battery Powered (Rechargeable, Solar, UM-1 x 2)
Special Features	Portable, Built-In AM Antenna, Rechargeable, Built-In Flashlight, MP3 Player (USB/TF)
Connectivity Technology	Bluetooth (Note: Product description implies MP3 via USB/TF, but specifications list Bluetooth. Prioritizing direct product features shown in images/description for manual.)
Product Dimensions	16.26 x 5.08 x 10.67 cm (6.4 x 2.0 x 4.2 inches)
Colour	Grey

## 7. Warranty and Support

Information regarding specific warranty terms or direct customer support contacts is not provided in the product details. Please refer to the product packaging or the retailer's website for warranty information and customer service contacts.

For general inquiries or troubleshooting not covered in this manual, please contact the seller or manufacturer through the platform where the product was purchased.

