

1. Overview

The LEOTEC AM/FM Radio is a portable transistor radio designed for indoor and outdoor use. It receives AM and FM radio bands and can be powered by either an AC wall outlet or batteries.



Key characteristics include:

- **Dual Power Options:** Operates on included AC power cord or 2 x D-cell batteries (not included).
- **Portable Design:** Compact size for handheld use or carrying with the integrated strap.

- **Analog Tuning:** Features a large, precise tuning knob and a clear frequency dial.
- **Audio Output:** Built-in speaker and a 3.5mm headphone jack for private listening.

2. Included Items

- LEOTEC AM/FM Portable Radio (1x)
- AC Power Cord (1x)
- Quick Start Guide (1x)

Note: Batteries are not included.

3. Features and Controls

3.1 Front Panel

- **Speaker Grille:** Covers the large external speaker for sound output.
- **Frequency Dial:** An easy-to-read analog scale showing AM (520-1600 KHz) and FM (87.5-108 MHz) bands.
- **Tuning Knob:** The large knob on the right is used to select radio stations. Turn it slowly to tune precisely.
- **Power/Volume Knob:** The knob on the left. Rotate clockwise to turn the radio on and increase volume. Rotate fully counterclockwise to turn off.

3.2 Side and Rear Panel

- **Telescopic Antenna:** Located on the top/side. Extend fully and adjust its angle to improve signal reception.
- **Headphone Jack (3.5mm):** For connecting standard headphones for private listening. Inserting headphones will mute the internal speaker.
- **DC Power Jack:** For connecting the included AC power cord.
- **Battery Compartment:** Located on the back. Holds 2 x D-cell batteries.
- **Carrying Strap:** Attached to the sides for portable use.

4. Quick Start Guide

4.1 Powering the Radio

Option A: Using AC Power (Indoor Use)

1. Plug the included AC power cord into the DC power jack on the side of the radio.
2. Plug the other end into a standard 120V AC wall outlet.

Option B: Using Batteries (Portable Use)

1. Open the battery compartment cover on the back of the radio.
2. Insert 2 x D-cell batteries, observing the correct polarity (+/-) markings inside the compartment.
3. Close the battery compartment cover.

4.2 Basic Operation

1. **Turn On:** Rotate the left knob (Power/Volume) clockwise. You will hear a click and may hear static.
2. **Extend Antenna:** Fully extend the telescopic antenna for best reception.
3. **Select Band:** The radio receives both AM and FM bands automatically. The dial shows both scales.
4. **Tune to a Station:** Slowly rotate the right knob (Tuning) until you find a desired station. Fine-tune for clearest sound.
5. **Adjust Volume:** Rotate the left knob to your preferred listening level.
6. **Turn Off:** Rotate the left knob fully counterclockwise until it clicks off.

5. Detailed Usage Guide

5.1 Optimizing Reception

- For FM reception, fully extend the telescopic antenna. Adjust its direction and angle for the strongest signal.
- For AM reception, the antenna is internal. Rotating the entire radio may improve AM signal strength.
- Move to a location near a window or away from large metal objects and electronic interference for better reception.

5.2 Using Headphones

Plug a standard 3.5mm audio plug headphone into the jack on the side of the radio. The internal speaker will be disabled automatically.

5.3 Portable and Outdoor Use

The radio is sized at approximately 8.1" L x 5.1" H x 2.9" W. Use the carrying strap for convenience during activities such as:

- Walking, hiking, or camping
- Use in the kitchen, garage, or garden

- During power outages (when using batteries)

6. Specifications

- **Brand:** LEOTEC
- **Model:** LT-1808
- **Color (as documented):** White
- **Radio Bands:** AM / FM
- **Frequency Range:**
 - FM: 87.5 - 108 MHz
 - AM: 520 - 1600 KHz
- **Power Sources:**
 - AC Power: 120V, via included cord
 - DC Power: 2 x D-cell batteries (not included)
- **Audio Output:** Built-in speaker & 3.5mm headphone jack
- **Dimensions:** 8" L x 5" H x 3" W
- **Weight:** Approximately 1.3 lbs
- **Included Components:** Radio, AC Power Cord, Quick Start Guide

7. Care and Maintenance

- **Cleaning:** Wipe the exterior with a soft, dry cloth. Do not use liquid cleaners or sprays directly on the radio.
- **Storage:** Store in a cool, dry place. Remove batteries if the radio will not be used for an extended period to prevent potential leakage.
- **Power:** Use only the provided AC power cord. For batteries, use the correct size (D-cell) and type (alkaline recommended for longer life).
- **Water Resistance:** This radio is not water-resistant. Keep it away from moisture and liquids.

8. Troubleshooting

- **No power / Radio doesn't turn on:**
 - If using AC power, ensure the cord is firmly connected to both the radio and the wall outlet.

- If using batteries, check that they are installed with correct polarity and are not depleted. Replace if necessary.
- Ensure the Power/Volume knob is rotated clockwise sufficiently.
- **Poor or no reception:**
 - Fully extend the telescopic antenna.
 - Move the radio to a different location, preferably near a window.
 - Check for local sources of interference (e.g., other electronics, fluorescent lights).
 - Tune slowly and precisely; stations are found at specific points on the dial.
- **Distorted sound or weak volume:**
 - Check battery strength. Weak batteries can cause low volume and distortion.
 - Adjust the antenna for a clearer signal.
 - Ensure the headphone jack is empty and clean.
- **Headphones not working:**
 - Ensure headphones are fully inserted into the 3.5mm jack.
 - Test the headphones with another device to confirm they are functional.

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.