

TECSUN S-8800

TECSUN S-8800 Multi-conversion AM/FM/LW/SW/SSB Radio Receiver User Manual

Model: S-8800

1. INTRODUCTION

The TECSUN S-8800 is a versatile multi-conversion radio receiver designed for optimal reception across AM, FM, LW, SW, and SSB bands. It incorporates advanced High-IF analog circuits, triple AM conversion, and DSP decoding technology to deliver superior audio performance. This manual provides comprehensive instructions for setting up, operating, and maintaining your S-8800 receiver.

2. PACKAGE CONTENTS

Please check that all items listed below are included in your package:

- TECSUN S-8800 Radio Receiver
- USB-MiniUSB Cable
- 2 x 18650 Li-ion Batteries
- Remote Control
- 2 x AAA Batteries (for remote control)
- BNC Antenna Adapter
- User Manual (This document)

3. PRODUCT OVERVIEW

Familiarize yourself with the main components and controls of your TECSUN S-8800 radio receiver.



Figure 3.1: TECSUN S-8800 radio receiver and its remote control.



Figure 3.2: Front panel with display, tuning knob, and audio controls.



Figure 3.3: Side view illustrating headphone, line-out, and external antenna connections.



Figure 3.4: Rear panel with FM/SW BNC, AM/GND antenna terminals, and MiniUSB charging port.

4. SETUP

4.1. Power Supply

1. **Battery Installation:** Open the battery compartment cover on the rear of the radio. Insert the two 18650 Li-ion batteries, ensuring correct polarity as indicated inside the compartment. Close the cover securely.
2. **AC Power / Charging:** Connect the supplied USB-MiniUSB cable to the radio's MiniUSB port (DC 5V/1A) and a compatible USB power adapter (not included) or a computer's USB port. The radio can operate while charging.

4.2. Antenna Connections

- **Internal Antenna:** For FM and SW reception, extend the telescopic antenna fully. For AM (MW) and LW reception, the radio utilizes an internal ferrite bar antenna.
- **External Antennas:**
 - **FM/SW:** Connect an external FM or SW antenna to the BNC (50 Ohm) connector on the side of the radio. Use the provided BNC adapter if necessary.
 - **AM/LW:** For improved AM/LW reception, connect an external AM antenna to the AM + GND (500 Ohm) terminals on the rear panel.

4.3. Audio Output

- **Headphones:** Connect 3.5mm stereo headphones to the 'STEREO VIA EARPHONE' jack for private listening.
- **Line Out:** Use the RCA (LEFT+RIGHT) line-out ports to connect the radio to an external amplifier or recording device.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off

Press the **POWER/SLEEP** button located on the top right of the front panel to turn the radio on or off.

5.2. Band Selection

Press the **BAND SELECT** button repeatedly to cycle through the available frequency bands: FM, AM (MW), LW, SW, and SSB.

5.3. Tuning Modes

- **Rotary Tuning Knob:** Rotate the large central tuning knob to adjust the frequency.
- **Direct Frequency Entry:** Using the remote control, enter the desired frequency directly using the number pad.
- **AutoScan (ATS):** Press the **ATS** button to automatically scan and store available stations within the current band into memory.
- **Manual Tuning:** Use the +/- buttons (if available on remote/front panel) for step-by-step frequency adjustments.
- **Fine Tuning:** Use the dedicated **FINE TUNING** knob for precise frequency adjustments, particularly useful for SSB reception.

5.4. Frequency Steps

The radio supports various tuning steps depending on the band:

- FM: 10 KHz / 100 KHz
- LW: 1 KHz / 9 KHz
- MW: 1 KHz / 9-10 KHz
- SW: 1 KHz / 5 KHz

5.5. Memory Functions

The S-8800 can store up to 650 stations (FM 100, LW 100, MW 100, SW 250, SSB 100).

- **Store Station:** Tune to the desired station, then press and hold the **MEMORY** button until the display confirms storage.
- **Recall Station:** Press the **MEMORY** button briefly, then use the tuning knob or number pad on the remote to select a stored memory location.

5.6. SSB (Single Side Band) Operation

1. Select the SSB band using the **BAND SELECT** button.
2. Use the **USB/LSB** switch to select either Upper Side Band (USB) or Lower Side Band (LSB).
3. Adjust the dedicated **FINE TUNING** controller (± 10 Hz) for clear voice reception.

5.7. Audio Controls

- **Volume:** Adjust the audio output level using the **VOLUME** knob.
- **Bass/Treble:** Use the dedicated **BASS** and **TREBLE** knobs to adjust the audio tone to your preference.

5.8. Display and Backlight

The LCD display shows the current frequency, time, and other operational information. Press the **DISPLAY** button to activate the backlight or set it to stay on. A visual signal meter indicates the strength of the received signal.

5.9. Alarm and Sleep Timer

- **Alarm:** Set an alarm to automatically turn on the radio at a specified time. Refer to the display controls for setting the alarm time.
- **Sleep Timer:** The radio can be set to automatically turn off after a period ranging from 1 to 120 minutes.

5.10. Lock Function

Press the **LOCK** button to disable all controls and prevent accidental changes to settings. Press it again to unlock.

6. MAINTENANCE

6.1. Cleaning

Wipe the radio with a soft, dry cloth. Do not use abrasive cleaners, solvents, or strong chemicals, as these may damage the finish or internal components.

6.2. Battery Care

If the radio will not be used for an extended period, remove the 18650 Li-ion batteries from the main unit and the AAA batteries from the remote control to prevent leakage and damage.

6.3. Storage

Store the radio in a cool, dry place, away from direct sunlight, high humidity, and extreme temperatures. Protect it from dust and physical impact.

7. TROUBLESHOOTING

If you encounter issues with your TECSUN S-8800, please refer to the following common problems and solutions:

- **No Power:**
 - Ensure the 18650 Li-ion batteries are correctly installed and fully charged.

- Verify the USB-MiniUSB cable is properly connected for AC power or charging.
- Confirm the **POWER/SLEEP** button has been pressed.

- **Poor Reception:**

- Fully extend the telescopic antenna for FM/SW bands.
- Try connecting an external antenna to the appropriate BNC or AM/GND terminals.
- Adjust the radio's position or location to minimize interference.
- For AM/LW, rotate the radio to optimize the internal ferrite bar antenna's reception.
- Check the **RF SENSITIVITY** switch (DX/Local) for optimal signal handling.

- **No Sound:**

- Check the **VOLUME** level.
- Ensure headphones are not connected if expecting sound from the internal speaker.
- Verify that the correct band and frequency are selected.

- **SSB Distortion:**

- Carefully adjust the **FINE TUNING** knob for clear voice reception.
- Ensure the correct USB/LSB mode is selected for the signal you are trying to receive.

8. SPECIFICATIONS

Model	TECSUN S-8800
Frequency Ranges	FM: 64/76/87.5-108 MHz MW (AM): 522-1620 KHz LW: 100-519 KHz SW: 1711-29999 KHz
Tuning Steps	FM: 10 KHz / 100 KHz LW: 1 KHz / 9 KHz MW: 1 KHz / 9-10 KHz SW: 1 KHz / 5 KHz
Tuning Modes	Direct Frequency Entry, AutoScan, Manual, Rotary Knob
Memory Presets	650 (FM 100, LW 100, MW 100, SW 250, SSB 100)
SSB	USB/LSB with ± 10 Hz Fine Tuning
Audio	Class AB Amplifier, Ultra-dynamic Full-range Speaker, Bass/Treble Controls
Power Source	2 x 18650 Li-ion Batteries (included), MiniUSB DC 5V/1A for charging
Connections	FM/SW Antenna: BNC (50 Ohm) AM Antenna: AM + GND (500 Ohm) Headphone Output: 3.5mm Stereo Jack Line Output: RCA (Left + Right)
Display	Backlit LCD with Signal Meter

Special Features	Triple Conversion, PLL Digital Synthesized, DSP Decoding, Remote Control, Alarm, Sleep Timer, Lock Function
Dimensions	27 x 17 x 9 cm (approximately)
Weight	1.5 kg (with batteries, approximately)
Manufacturer	JETFON
Country of Origin	Hong Kong

9. WARRANTY INFORMATION

This product is covered by a standard manufacturer's warranty. Please refer to the warranty card included in your package or contact your retailer for specific terms and conditions regarding warranty coverage and service. Keep your purchase receipt as proof of purchase.

10. CUSTOMER SUPPORT

For technical assistance, troubleshooting, or service inquiries, please contact your local dealer or the point of purchase. When contacting support, please have your product model (S-8800) and purchase details readily available for faster service.