



SP851

Digital Radio Bluetooth Speaker



Interactive User Guide

Version 1.9.2

Start Setup

< Back



Main Menu

1. Before You Start
2. Button Functions
3. How to Charge
4. Choose Mode
 - A. DAB Radio
 - B. FM Radio
 - C. Bluetooth Speaker
 - D. MicroSD Card Player
 - E. USB Drive Player
5. Advanced Features
6. FAQ & Troubleshooting
7. Rate This Guide
8. Get Help & Updates

Next



1. Before You Start

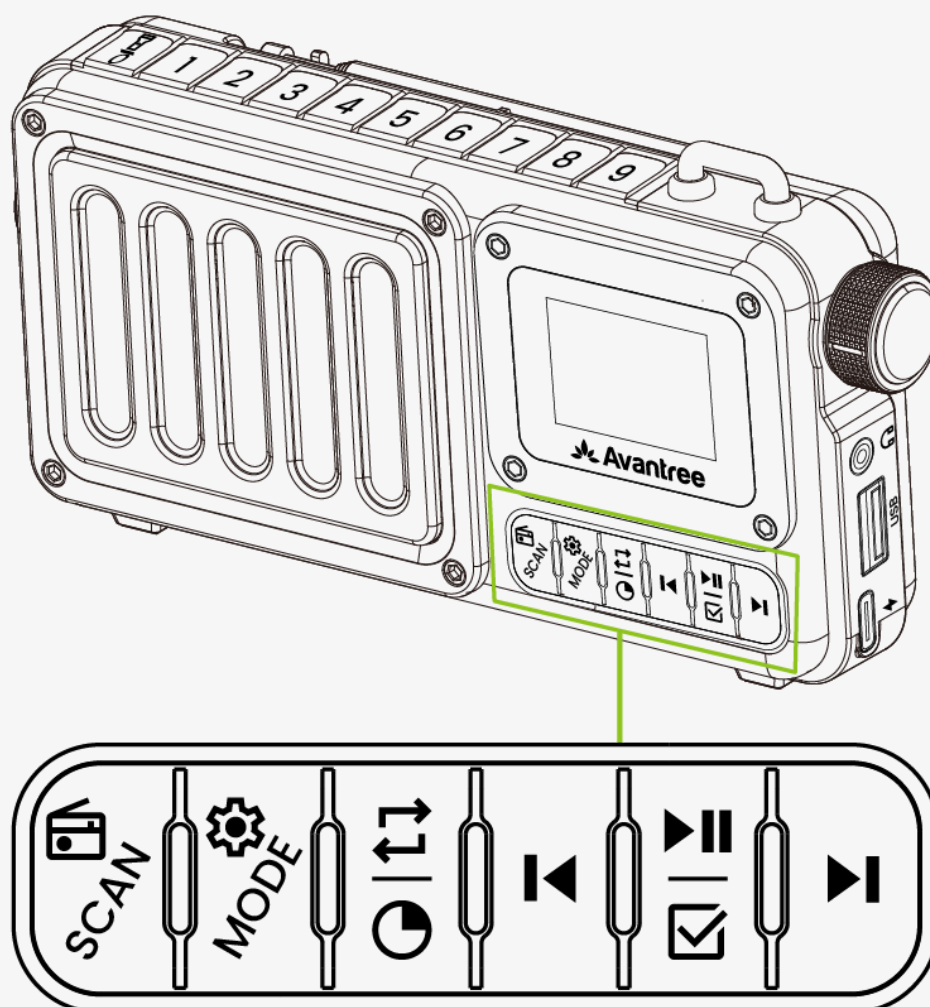
- This device lets you enjoy DAB+ and FM radio, stream audio from your phone via Bluetooth, and play music from a microSD card or USB drive.
- It's easy to use with features like auto-scanning for stations and saving presets.
- For optimal reception, **fully extend the antenna** and use near windows or outdoors.

Next

Was this helpful?



2. Button Functions



Press to switch DAB+ / FM modes



Press to switch Bluetooth Speaker / microSD Card / USB Drive modes



Press to cycle Repeat All / Repeat One / Random Play



Press to confirm a selected DAB station



Hold “0” key to turn flashlight on/off



[See All Button Functions](#) ↗

Next

Was this helpful?



3. How to Charge

- Use USB-C (5V, **1A**)
- Charging: Battery icon blinks
- Fully charged: Battery icon solid (~2 hrs)
- Playtime: Up to 10 hrs (varies by volume)

[Next](#)

Was this helpful?





4. Choose Mode

A



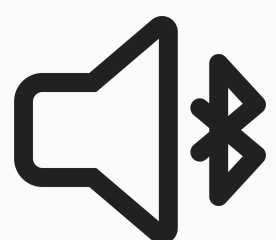
[DAB Radio](#)

B



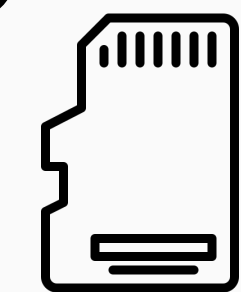
[FM Radio](#)

C



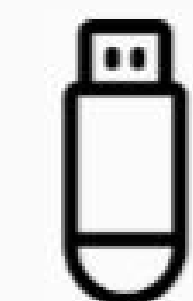
[Bluetooth Speaker](#)

D



[MicroSD Card Player](#)

E



[USB Drive Player](#)

Was this helpful?



A. DAB Radio

Option 1. Auto-Scan (First Time Use)

- ➊ Extend the antenna before scanning.
- ➋ Turn on SP851 → It auto-scans for DAB stations.
- ➌ Wait for the scan to finish. All stations will be saved automatically.
- ➍ Press  /  to select a station, then press  to confirm.


[Next](#)

Was this helpful?



Option 2. Manual Scan

- ➊ Hold **SCAN** for 1s to search for available stations → results are saved automatically.
- ➋ **To save:** Tune to a station, then hold a number key (1–9) for 2s until "Channel Saved" appears.
- ➌ **To recall:** Press the same number key to tune directly to that station.



Note: You can save up to 9 stations.

Next

Was this helpful?



B. FM Radio

1. Manual Scan

- ➊ Extend the antenna before scanning.
- ➋ Turn on SP851.
- ➌ Press **SCAN** to switch to **FM mode**.
- ➍ Hold **SCAN** for 1s to search for available stations → results are saved automatically.
- ➎ Press **⏮ / ⏭** to switch stations.

[Next](#)

Was this helpful?



2. Save & Recall

- 1 To save:** Tune to a station, then hold a number key (1–9) for 2s until "Channel Saved" appears.
- 2 To recall:** Press the same number key to tune directly to that station.



Note: You can save up to 9 stations.

[Next](#)

Was this helpful?



3. Direct Frequency Entry

- ➊ Press number keys (0–9) to enter a frequency directly (e.g., 1–0–2–5 for FM 102.5).
- ➋ Hold a number key (1–9) for 2s → “Channel Saved” appears.
- ➌ Press the same number key to recall the saved frequency.



Next

Was this helpful?



C. Bluetooth Speaker

- ❶ Turn on SP851.
- ❷ Press **MODE** to enter Bluetooth Speaker mode → Auto-enter pairing.
- ❸ On your phone, turn on Bluetooth and select "Avantree SP851-DAB".
- ❹ Wait for "**Connected**" on screen and play music.



Note: EQ is available in Bluetooth mode only and resets after power off.

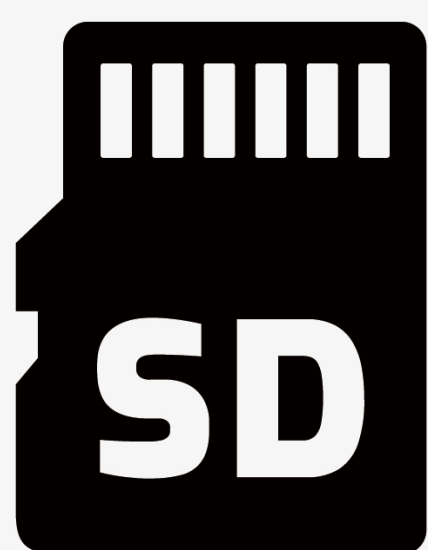
Next

Was this helpful?



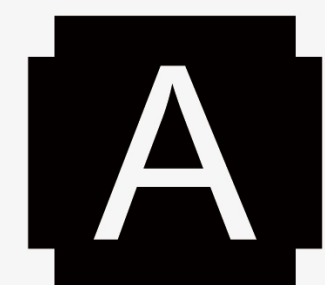
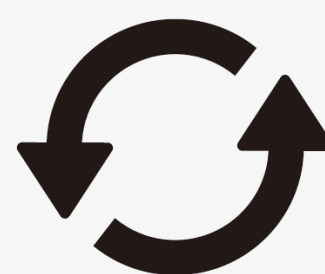
D. MicroSD Card Player

- ➊ Insert a microSD card.
- ➋ Turn on SP851.
- ➌ Press **MODE** to switch to microSD card mode; music will play automatically.
- ➍ Choose playback mode:
 - **Cycle Key**  : Press to switch between Repeat All, Repeat One, or Random Play.
 - **◀ / ▶ Keys**: Tap to change tracks; hold to rewind or fast-forward.



0 0 0 1

0 0 4 2



Next

Was this helpful?



MicroSD Card Notes:

- Capacity: up to 256GB
- File systems: FAT32 / exFAT
- Music formats: MP3, WAV, WMA, APE, FLAC
- Use a computer to transfer music to the microSD card's root directory or a few folders.
- Recommended: Keep files within one folder level only – avoid two or more subfolder layers.

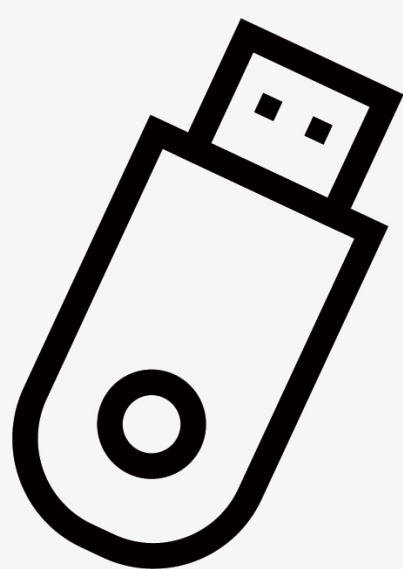
[Next](#)

Was this helpful?

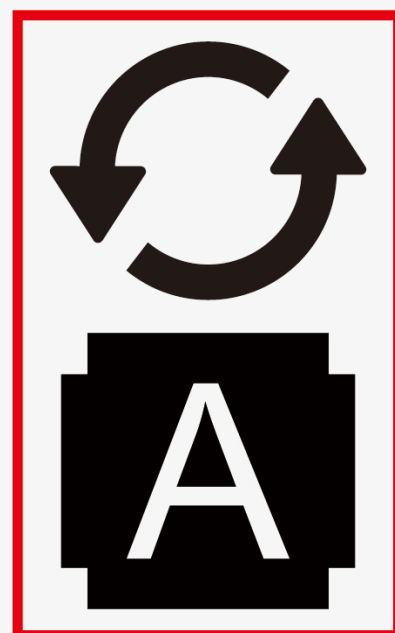


E. USB Drive Player

- ➊ Insert a USB drive.
- ➋ Turn on SP851.
- ➌ Press **MODE** to switch to USB Drive mode; music will play automatically.
- ➍ Choose playback mode:
 - **Cycle Key**  : Press to switch between Repeat All, Repeat One, or Random Play.
 - **◀ / ▶ Keys**: Tap to change tracks; hold to rewind or fast-forward.



0 0 0 1
0 0 5 4



Next

Was this helpful?



USB Drive Notes:

- Capacity: up to 256GB
- Supported file systems: FAT32 / exFAT
- Music formats: MP3, WAV, WMA, APE, FLAC
- Use a computer to transfer music to the USB drive's root directory or a few folders.
- Recommended: Keep files within one folder level only – avoid two or more subfolder layers.

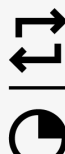
[Next](#)

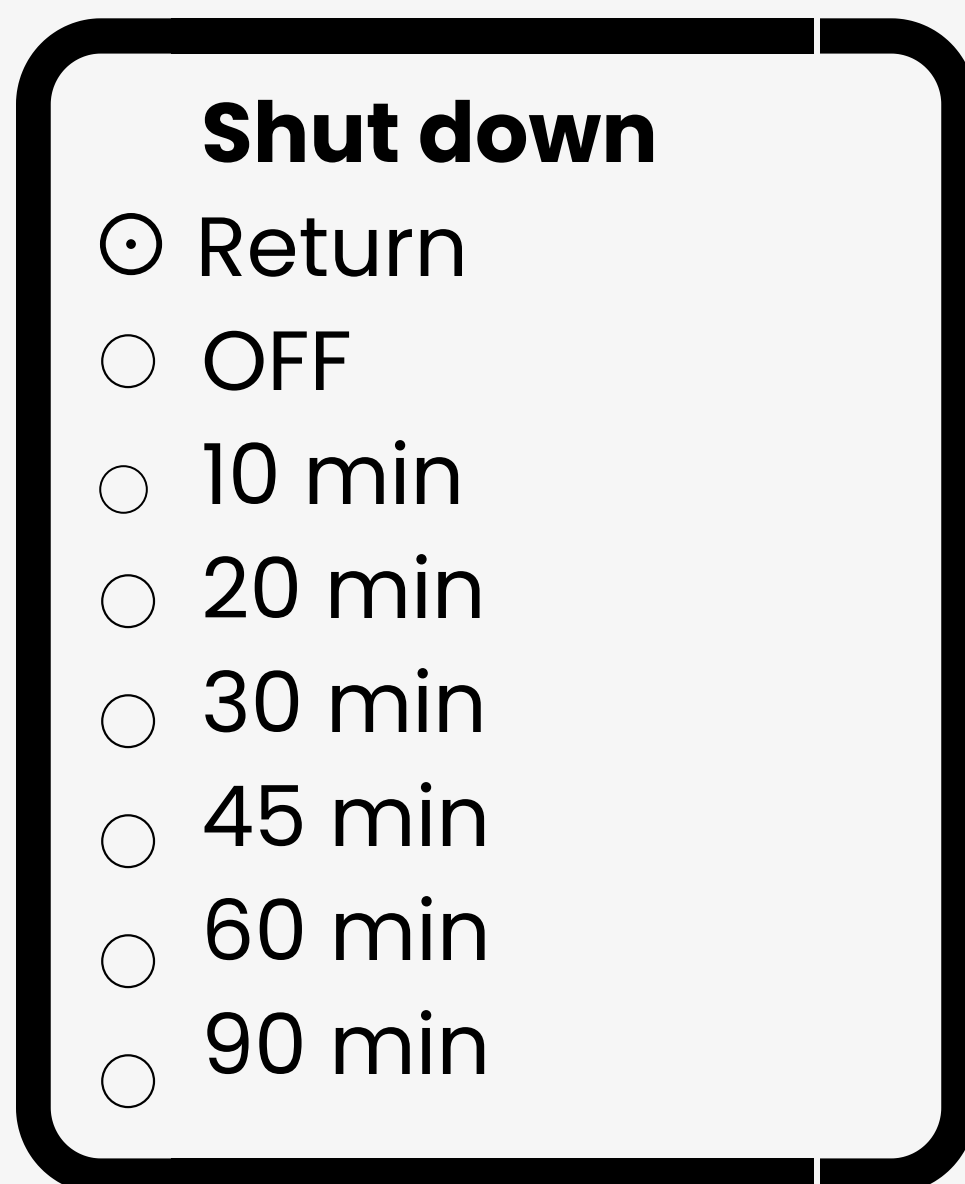
Was this helpful?



5. Advanced Features

1. Set Sleep Timer

- 1 Hold  to open "**Shut down**" menu.
- 2 Use  /  to choose a timer, then press  to confirm.
- 3 To cancel, select **OFF** and press .



Next

Was this helpful?



2. How to Reset

- ➊ Turn on SP851.
- ➋ Hold **MODE** to enter System Settings.
- ➌ Press **▶|** to select **Factory Reset**, then press  to confirm.

Note: A factory reset will erase all saved data and settings.

[Next](#)

Was this helpful?



6. FAQ & Troubleshooting

Here are some common questions:

- [Improve radio reception and reduce static ↗](#)
- [Bad sound quality ↗](#)
- [Adjust system settings ↗](#)

 [More FAQ & Troubleshooting ↗](#)

Next

Was this helpful?

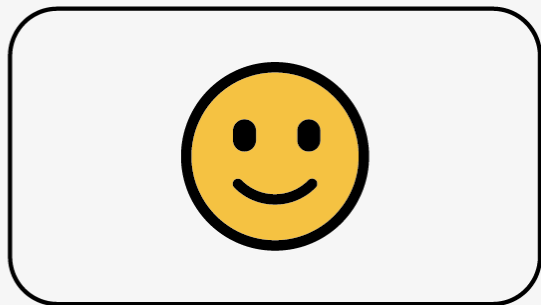
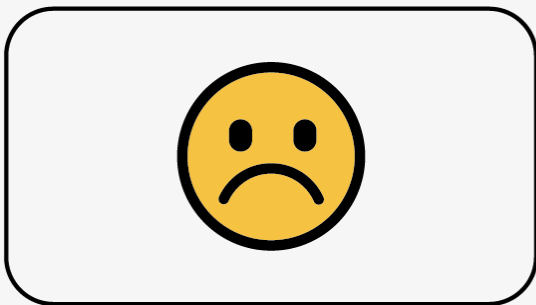


7. Rate This Guide

Thanks for choosing SP851!

Was this guide helpful?

Tap a face—just 1 second:



Thanks for your feedback!

You're helping make this guide better.

Next



8. Get Help & Updates

1. Register Your Product

Extended warranty & get updates.

Register Your Product

2. Agent Support

Need help? Contact our agents.



Email



Call



Chat