

Product Specification Sheet

1. Product Overview

This specification defines the requirements for a compact, portable speaker system designed for versatile audio playback. The unit features a multi-driver acoustic system for enhanced sound quality, integrated colorful LED lighting effects, and a comprehensive suite of connectivity options including Bluetooth, USB, and FM radio. It is powered by a high-capacity rechargeable battery, making it suitable for both indoor and outdoor use.

2. Acoustic System

The speaker is engineered with a 3-way driver configuration to deliver a wide frequency response and rich audio experience.

- **Tweeter (High Frequency):** 1 x 1-inch Ultra-High Frequency Tweeter. Designed to reproduce crisp and clear high-frequency sounds.
- **Mid-range Driver:** 1 x 2.5-inch Mid-range Driver. Optimized for accurate reproduction of vocal and instrumental mid-frequencies.
- **Woofer (Low Frequency):** 1 x 5.25-inch Low-Frequency Woofer. Provides deep and impactful bass response.
- **Passive Radiators:** 2 x 6-inch Passive Radiators. These enhance the low-frequency performance, delivering powerful bass from a compact enclosure.

3. Power Specifications

The device is powered by an internal rechargeable battery and can be charged via an external DC adapter.

- **Internal Battery:** Rechargeable Lithium-ion Battery Pack.
- **Battery Rating:** 7.4V, 7200mAh.
- **Total Output Power:** 100W (Peak/Max Power).
- **Power Adapter Input:** DC 9V, 3A.

4. Features & Connectivity

The unit is equipped with a wide range of features for versatile media playback and user control.

- **Wireless Connectivity:** Integrated Bluetooth module for wireless audio streaming from smartphones, tablets, and other Bluetooth-enabled devices.
- **USB Port:** Supports audio playback from USB flash drives.
- **TF Card Slot:** Supports audio playback from MicroSD (TF) cards.
- **FM Radio:** Built-in FM tuner for listening to radio broadcasts.
- **Microphone Input:** 1 x 6.35mm (or 3.5mm, to be confirmed) jack for connecting an external microphone, enabling karaoke or public address functions.
- **Display:** Integrated digital display screen to show operational status (e.g., Bluetooth mode, FM frequency, track number, battery level).
- **Remote Control:** Includes a remote control for convenient operation of playback, volume, mode selection, and lighting effects from a distance.
- **Lighting Effects:** Features built-in multi-color "phantom color" LED lights that sync with the music, creating a dynamic visual experience.

5. Physical Characteristics

- **Main Driver Size:** 5-inch class enclosure.
- **Color:** BLACK
- **Dimensions:** 390*335*245mm
- **Net Weight:** [5KG]

6. Environmental & Compliance

- **Operating Temperature:** 0° C to 40° C
- **Storage Temperature:** -20° C to 60° C
- **Compliance:** The product shall comply with relevant FCC, CE, and RoHS standards.