Model: RD637
Manufacturer: SHENZHEN REDDRAGON INSTRUMENTS CO.,LTD

1. Overview

The RD637 is a handheld electromagnetic field (EMF) detector designed to measure three types of electromagnetic radiation: Electric Fields (EF), Radio Frequency (RF), and Magnetic Fields (MF). It is intended for use in environments such as homes, offices, and outdoors to identify sources of electromagnetic radiation from common devices like cell towers, WiFi routers, smart meters, and 5G infrastructure.

The device features a digital LCD screen for real-time readings, audio and visual alerts, and a rechargeable battery.

2. Features

2.1 Multi-Field Detection

The detector can simultaneously measure and display readings for three types of fields:

- **Electric Field (EF):** Measures low-frequency electric fields from power lines and electrical wiring.
- **Radio Frequency (RF):** Detects high-frequency radiation from wireless sources such as 5G, cell towers, WiFi, and Bluetooth.
- **Magnetic Field (MF):** Measures low-frequency magnetic fields from appliances and electrical equipment.

2.2 Display and Indicators

- **Digital LCD Screen:** Shows real-time numerical values for each field type.
- **Visual Alerts:** The screen or indicator lights may change color or flash based on field strength.
- **Audio Alarm:** An audible beep can signal when readings exceed a set threshold.

2.3 Portability and Power

- **Rechargeable Battery:** Powered by an included Lithium Polymer battery.
- **Compact Design:** Handheld form factor with dimensions 16.8 x 8.3 x 3.4 cm and a weight of 240 g.

3. Use Guide

3.1 Initial Setup

1. Ensure the device is fully charged using the provided cable.
2. Power on the device using the power button.
3. Allow the device to initialize. The screen will display zeros or a startup sequence.

3.2 Taking Measurements

1. Hold the device steadily in your hand. The primary sensor is located at the top or front of the unit.
2. Slowly move the detector through the area you wish to inspect. For best results, move at a consistent pace.
3. Observe the LCD screen. Readings will update in real-time.
    - Higher numbers indicate stronger field strength.
    - Note which field type (EF, RF, MF) shows elevated readings.
4. If the audio alarm activates, it indicates the detected field strength has surpassed a pre-set level. Move the device to locate the source of the strongest signal.

3.3 Interpreting Results

- **Baseline Readings:** First, take measurements in an area you believe has low EMF activity (e.g., a room with most electronics off) to establish a baseline.
- **Identifying Sources:** Approach potential sources like routers, microwaves, power strips, or cell phones. Observe which field type increases.
    - RF spikes near WiFi routers or smartphones.
    - EF/MF spikes near power lines, transformers, or operating appliances.
- **Ghost Hunting Application:** Some users employ the device in paranormal investigation. In this context, unexplained fluctuations in MF readings are sometimes of interest. Move

systematically through an area and document any significant, unexplained changes in readings.

3.4 Power Management

- Charge the device fully before extended use.
- Power off the device when not in use to conserve battery.
- The included battery is a 1 Lithium Polymer cell.

4. Specifications

- **Model Number:** RD637
- **Manufacturer:** SHENZHEN REDDRAGON INSTRUMENTS CO.,LTD
- **Detection Types:** Electric Field (EF), Radio Frequency (RF), Magnetic Field (MF)
- **Power Source:** 1 x Rechargeable Lithium Polymer Battery (included)
- **Dimensions:** 16.8 x 8.3 x 3.4 cm
- **Weight:** 240 g
- **Display:** Digital LCD
- **Alerts:** Visual and Audio

5. Safety and Maintenance

5.1 Safety Information

- This device is a measuring instrument. It does not protect you from electromagnetic fields.
- Do not disassemble the device.
- Keep the device away from water and extreme temperatures.
- Use the provided charger or a compatible one to avoid battery damage.

5.2 Care and Cleaning

- Wipe the exterior with a soft, dry cloth.
- Do not use abrasive cleaners or solvents.
- Store the device in a cool, dry place when not in use.

6. Troubleshooting

- **Device does not power on:** Ensure the battery is charged. Connect to the charger and allow it to charge for several hours.

- **No readings or frozen display:** Power the device off and on again.
- **Inconsistent readings:** Ensure you are not holding the device too close to your own body or electronic devices on your person (e.g., a smartphone). Move to an open area and retest.
- **Audio alarm not working:** Check the device settings or menu to ensure the alarm function is enabled. Consult the alarm threshold settings.