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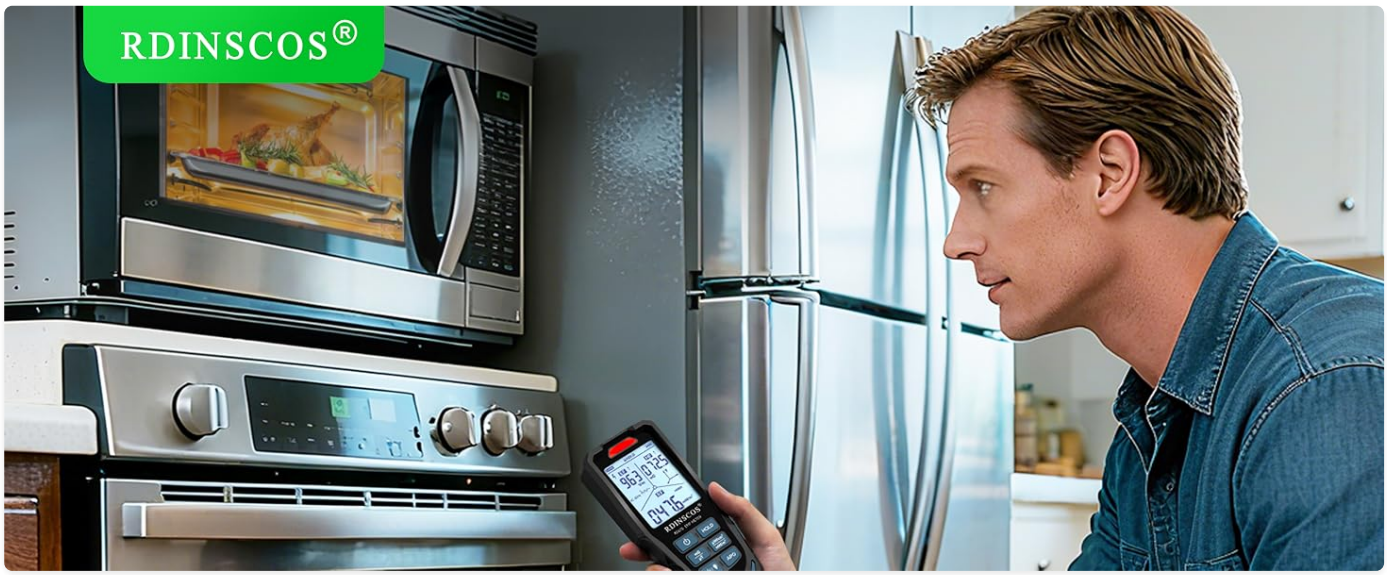
RDINSCOS RD670

RDINSCOS EMF Detector (Model RD670) User Manual

Detects Electric, Magnetic, and Radio Frequency Radiation

1. Introduction

The RDINSCOS RD670 EMF Detector is a versatile 3-in-1 device designed to measure Electric Fields (EF), Magnetic Fields (MF), and Radio Frequency (RF) radiation. This instrument provides real-time data to help users identify and monitor electromagnetic radiation sources in their environment, contributing to a healthier living space. It is suitable for home, office, and industrial use, offering clear readings and intelligent alarms for various radiation types.



The RDINSCOS EMF Detector in use, measuring radiation levels in a typical household setting.

Understanding the importance of effective EMF detection for maintaining a healthier living environment.

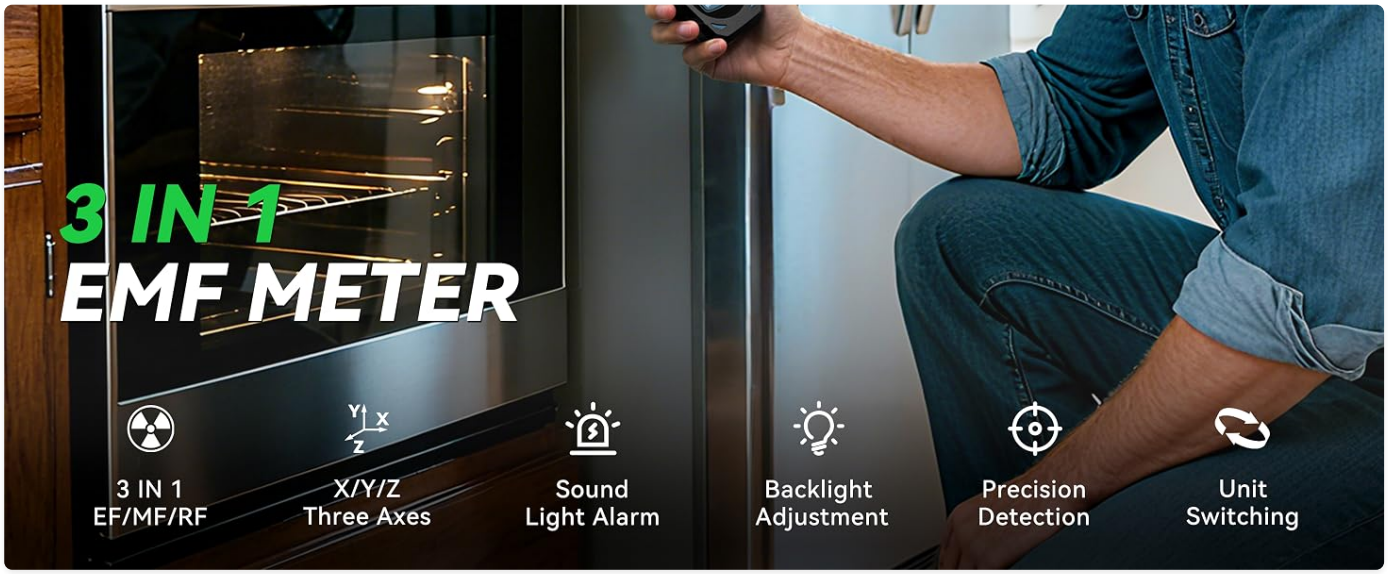
2. Product Overview

The RDINSCOS RD670 EMF Detector combines three essential measurement capabilities into one compact device. It features a wideband coverage from 40 Hz to 10 GHz, making it suitable for detecting various electromagnetic radiation sources.

Key Features:

- **3-in-1 EMF Meter:** Detects Electric Fields (EF), Magnetic Fields (MF), and Radio Frequency (RF) with a wideband coverage of 40 Hz to 10 GHz.
- **3-Axis X/Y/Z Sensors:** Built-in sensors provide stable and reliable readings for magnetic fields, regardless of the device's orientation.
- **Multi-Type RF Recognition:** Identifies Wi-Fi/cellular (WiFi/PHONE), microwave (MICROWAVE), and mixed RF sources.
- **Intelligent Alarm System:** Features a tri-color LED and sound alarm (muteable) to indicate LOW, MEDIUM, or HIGH risk levels with dedicated thresholds for EF, MF, and RF.
- **User-Friendly Design:** Includes data hold, switchable units, ±5% accuracy, backlit screen, 15-minute auto-off function, and a USB rechargeable 1200mAh battery.

The RDINSCOS RD670 EMF Detector showing its 3-in-1 capabilities and measurement ranges for Electric Field (EF), Magnetic Field (MF), and Radio Frequency (RF).



An overview of the triple-functionality of the RDINSCOS EMF Detector, capable of measuring Electric, Magnetic, and Radio Frequency fields.

3. Package Contents

Verify that all items are present in the package:

- 1 x RDINSCOS EMF Meter (Model RD670)
- 1 x User Manual
- 1 x USB Charging Cable

4. Setup

4.1 Initial Charging

Before first use, fully charge the device using the provided USB charging cable. Connect the cable to the device's USB-C port and a standard USB power adapter (not included). The battery indicator on the screen will show charging status.

The EMF Detector being charged via its USB-C port, indicating its 1200mAh battery capacity.

4.2 Powering On/Off

- To power on, press and hold the power button () until the screen illuminates.
- To power off, press and hold the power button until the screen turns off.

5. Operating Instructions

The RDINSCOS RD670 EMF Detector is designed for straightforward operation. Familiarize yourself with the buttons and display before use.

5.1 General Operation

- **Mode Selection:** The device automatically detects and displays EF, MF, and RF readings simultaneously.
- **Unit Switching:** Use the dedicated buttons to switch between units for Magnetic Field (mG/µT) and Radio Frequency (mW/m²/µW/cm²).
- **Data Hold:** Press the HOLD button to freeze the current readings on the screen. Press again to release.
- **Backlight:** Press the backlight button to toggle the screen backlight on or off.
- **Auto-Off:** The device features a 15-minute auto-off function to conserve battery. This can typically be disabled or enabled via a long press on the APO button.

Illustrations of common sources for Electric Field (EF), Radio Frequency (RF), and Magnetic Field (MF) radiation in a typical home.

5.2 Electric Field (EF) Detection

The EF mode measures electric field strength. Hold the device near electrical appliances, wiring, or power lines to detect their electric fields. Higher readings indicate stronger fields. The instrument identifies and displays 50Hz and 60Hz frequencies.

Measuring the Electric Field (EF) emitted by a television, showing the device automatically detecting 50/60 Hz frequencies.

EF MF RF

Electric Field (EF)

Range: 1-1999 V/m

Measures electric field strength by appliances.Higher readings mean stronger fields, giving a full view of our electromagnetic environment. The instrument identifies and displays two specific frequencies: 50Hz & 60Hz.

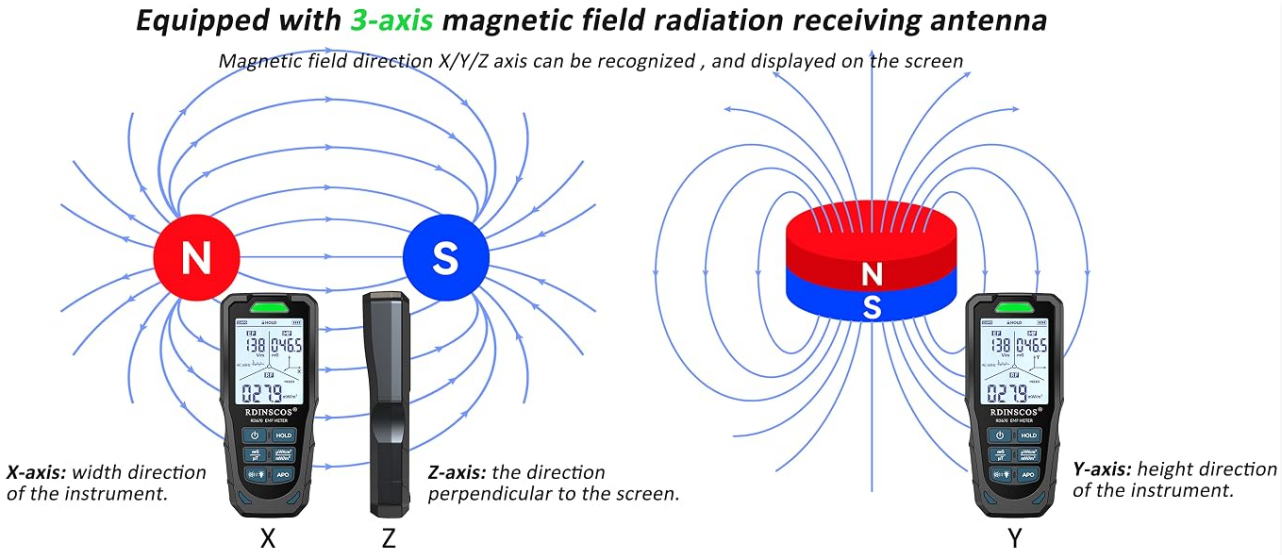
An in-depth look at Electric Field (EF) measurement, including its range and how it helps understand the electromagnetic environment.

5.3 Magnetic Field (MF) Detection

The MF mode measures magnetic field strength. This is particularly useful for testing appliances, cables, and motors. The device features 3-axis (X/Y/Z) sensors, providing stable readings regardless of the device's orientation and displaying the radiation direction on screen.

The EMF detector demonstrating 3-axis (X/Y/Z) magnetic field detection, showing how it identifies magnetic field radiation directions.

Information on Magnetic Field (MF) measurement, including its range and how it helps manage magnetic radiation exposure.



A diagram explaining the 3-axis magnetic field radiation receiving antenna, showing how X, Y, and Z directions are recognized and displayed.

5.4 Radio Frequency (RF) Detection

The RF mode measures radio frequency power density. Use this mode to detect signals from Wi-Fi routers, cellular devices (including 5G), smart meters, and microwave ovens. The device identifies and displays RF radiation source types as WiFi/PHONE, MICROWAVE, or MIXED.

Measuring Radio Frequency (RF) radiation from a Wi-Fi router, showing the device identifying RF radiation types.

EF MF RF

Radio Frequency (RF)

Range: 0.1-999.9mW/m²
0.01-99.99µW/cm²

Measure RF power density from base stations, phones, and routers. Monitoring RF levels helps ensure wireless connection safety.The instrument identifies and displays RF radiation source types.

Information on Radio Frequency (RF) power density measurement, including its range and how it helps ensure wireless connection safety.

The EMF detector actively measuring radiation from a Wi-Fi router and a nearby smartphone.

The EMF detector indicating 5G radiation detection near a cell tower.

The EMF detector showing a high 5G radiation reading with a red alarm, indicating a high-risk level.

5.5 Product Usage Demonstration Video

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This video provides a visual demonstration of the RDINSCOS EMF Detector's product usage, showcasing its features and operation in various detection scenarios.

6. Understanding Readings and Alarms

The RD670 features an intelligent alarm system with a tri-color LED indicator and an audible alarm (which can be muted). The alarm thresholds are pre-set to indicate different risk levels.

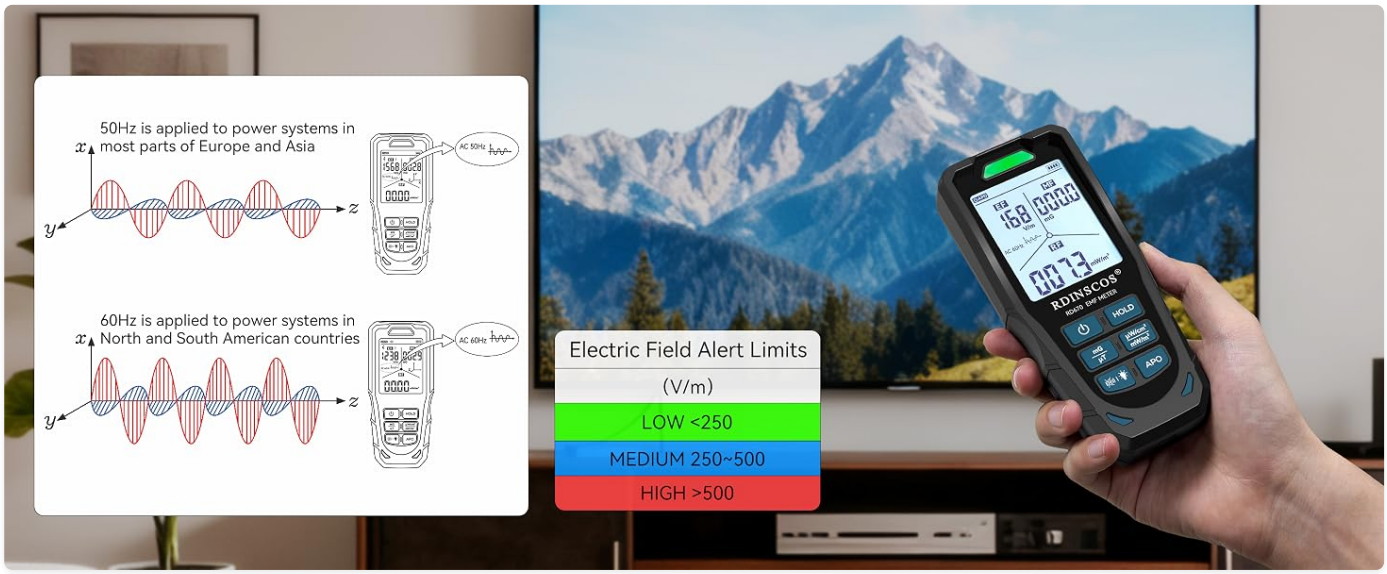
- **Green Light:** Indicates a LOW radiation risk.
- **Orange Light:** Indicates a MEDIUM radiation risk.
- **Red Light:** Indicates a HIGH radiation risk, accompanied by an audible alarm (if not muted).

Alarm Thresholds:

- **Electric Field (EF):** High Alarm Threshold: >500 V/m

- **Magnetic Field (MF):** High Alarm Threshold: >100 mG
- **Radio Frequency (RF):** High Alarm Threshold: >100 mW/m²

The multi-function display of the EMF meter, highlighting the green, blue, and red warning lights, and the on/off mute function for the alarm.



A table detailing the Electric Field (EF) alert limits for LOW, MEDIUM, and HIGH risk levels.

A table detailing the Radio Frequency (RF) alert limits for LOW, MEDIUM, and HIGH risk levels in both mW/m² and μW/cm² units.

7. Maintenance

7.1 Cleaning

Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents, as these may damage the casing or screen.

7.2 Battery Care

The device contains a rechargeable 1200mAh Lithium Polymer battery. For optimal battery life, avoid fully discharging the battery frequently and store the device in a cool, dry place if not used for extended periods. Recharge using the provided USB cable.

8. Troubleshooting

8.1 Device Not Powering On

- Ensure the battery is charged. Connect the device to a USB power source and allow it to charge for at least 30 minutes before attempting to power on again.
- Verify that the power button is pressed and held correctly.

8.2 Inaccurate or Fluctuating Readings

- Ensure no other electronic devices are interfering with the measurement. Move away from strong magnetic or electric fields if testing for ambient levels.
- The device is designed for close-range detection. As distance from the source increases, field strength weakens, making long-distance measurements less reliable.
- Ensure the device is held steadily and not moved excessively during measurement.

8.3 No Sound from Alarm

- Check if the alarm sound is muted. Press the mute button to toggle the sound on/off.
- Ensure the detected radiation level exceeds the set alarm threshold for the respective field (EF, MF, or RF).

9. Specifications

Feature	Specification
Model Number	RD670
Package Dimensions	6.97 x 3.35 x 1.61 inches
Item Weight	9.5 ounces
Battery	1 Lithium Polymer battery (1200mAh, included)
EF Range	1-1999 V/m
MF Range	0.1-999.9 mG / 0.01-99.99 µT
RF Range	0.1-999.9 mW/m² / 0.01-99.99 µW/cm²
Accuracy	±5%
Auto-Off	15 minutes (adjustable/toggleable)

10. Safety Information

Please read and understand the following safety precautions before using the device:

- This device is for detection purposes only and should not be used as a substitute for professional safety assessments.
- Do not attempt to open or modify the device. This may void the warranty and pose safety risks.
- Keep the device away from water and extreme temperatures.
- Dispose of the battery and device according to local regulations. Do not incinerate.
- While the device helps identify radiation, it does not eliminate radiation sources. Take appropriate measures to reduce exposure based on readings.

A visual guide to high-radiation hotspots in daily life, emphasizing the importance of knowing the risks and staying safe.

11. Warranty and Support

The RDINSCOS RD670 EMF Detector comes with a standard manufacturer's warranty. Please refer to the product packaging or contact your retailer for specific warranty terms and conditions. For technical support or inquiries, please contact RDINSCOS customer service through the official brand channels or your point of purchase.

Additional protection plans may be available for purchase separately, offering extended coverage beyond the standard warranty.

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