DT-1130

Generic DT-1130 Handheld Digital Electromagnetic Radiation Detector User Manual

Model: DT-1130

1. Introduction

The Generic DT-1130 is a handheld digital electromagnetic radiation detector designed for measuring electromagnetic fields (EMF) in various environments. This device provides readings for both low-frequency electric fields (V/m) and high-frequency magnetic fields (μW/cm²).
It is suitable for detecting radiation from common sources such as household appliances, office equipment (computers, copiers, fax machines), power cables, monitors, and other electronic devices.

2. Safety Information

- Read this manual thoroughly before operating the device to ensure safe and correct usage.
- Do not attempt to open or modify the device. Unauthorized modifications may void the warranty and pose safety risks.
- Keep the device away from water and high humidity to prevent damage.
- Avoid exposing the device to extreme temperatures or direct sunlight for prolonged periods.
- Dispose of batteries according to local regulations. Do not incinerate batteries.
- This device is for informational measurement purposes only and should not be used as a substitute for professional safety equipment or advice.

3. Product Overview

Familiarize yourself with the components of your DT-1130 detector:

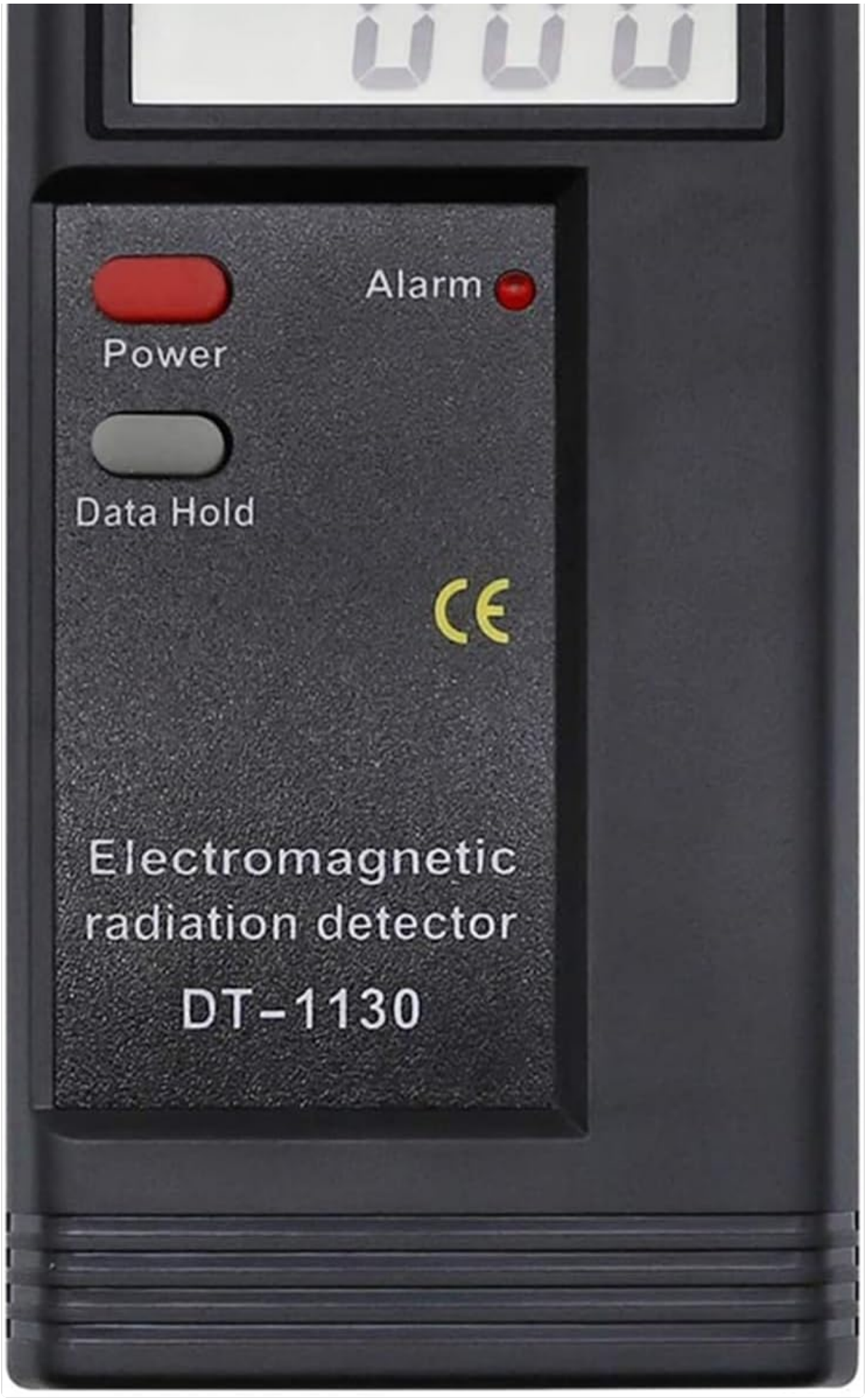

Image 3.1: Front view of the DT-1130 detector, showing the display and control buttons.

Image 3.2: Labeled diagram of the DT-1130 detector's front and rear components.

1. **Power Button:** Used to turn the device ON or OFF.
2. **Data Hold Button:** Press to freeze the current reading on the display. Press again to release.
3. **Indicator Display Area:** Shows the measured radiation values.
4. **Alarm Indicator:** A red LED that illuminates when radiation levels exceed a certain threshold.
5. **Kickstand (Rear):** Allows the device to stand upright for hands-free viewing.
6. **Battery Compartment (Rear):** Houses the 9V battery.

4. Setup

4.1. Battery Installation

The DT-1130 requires one 9V battery (not included) for operation.

1. Locate the battery compartment on the rear of the device (refer to Image 3.2, item 6).
2. Slide open the battery compartment cover.
3. Connect a new 9V battery to the battery clip, ensuring correct polarity (+ to + and - to -).
4. Place the battery into the compartment and close the cover securely.

Image 4.1: Illustration of 9V battery installation.

5. Operating Instructions

5.1. Powering On/Off

- To turn the device ON, press the **Power** button (Image 3.2, item 1). The display will illuminate.
- To turn the device OFF, press the **Power** button again.

5.2. Taking Measurements

Once powered on, the DT-1130 will immediately begin measuring electromagnetic radiation. The display will show readings for both low-frequency (V/m) and high-frequency (µW/cm²) radiation.

- Position the detector near the object or area you wish to measure.
- Observe the readings on the 3-digit liquid crystal display.
- The measurement interval is approximately 0.4 seconds, providing near real-time updates.
- If radiation levels exceed a preset threshold, the red **Alarm** indicator (Image 3.2, item 4) will light up.

5.3. Data Hold Function

- To freeze the current reading on the display, press the **Data Hold** button (Image 3.2, item 2).

- The displayed value will remain constant until the button is pressed again.
- Press the **Data Hold** button a second time to resume live measurements.

6. Maintenance

6.1. Cleaning

To clean the device, gently wipe the exterior with a soft, dry cloth. Do not use abrasive cleaners, solvents, or immerse the device in water.

6.2. Battery Replacement

When the display becomes dim or the device fails to power on, it is time to replace the 9V battery. Follow the battery installation steps outlined in Section 4.1.

6.3. Storage

When not in use for extended periods, remove the battery to prevent leakage and store the device in a cool, dry place, away from direct sunlight and extreme temperatures.

7. Troubleshooting

Problem	Possible Cause	Solution
Device does not turn on.	Low or dead battery; incorrect battery installation.	Replace the 9V battery with a new one, ensuring correct polarity.
Display is dim or flickering.	Low battery power.	Replace the 9V battery.
Readings seem inaccurate or inconsistent.	Interference from other electronic devices; device malfunction.	Move away from other strong electromagnetic sources. If problem persists, contact support.
Alarm indicator is constantly on.	High radiation levels detected; sensor malfunction.	Move to an area with lower potential radiation. If the alarm persists in a known low-radiation environment, contact support.

8. Specifications

Image 8.1: Dimensions of the DT-1130 detector.

- **Display:** 3-digit semi-liquid crystal display

- **Measurement Units:**
  - Low Frequency: V/m (Volts per meter) - Maximum read: 1999 V/m
  - High Frequency: µW/cm² (Microwatts per square centimeter) - Maximum read: 1999 µW/cm²
- **Measuring Time Intervals:** 0.4 seconds
- **Power Supply:** 9V Battery (not included)
- **Frequency Range:** 50MHz - 2000MHz
- **Operating Temperature:** -15°C to 60°C (5°F to 140°F)
- **Dimensions:** 132 x 69 x 29 mm (approximately 5.2 x 2.7 x 1.1 inches)
- **Weight:** 195g (approximately 0.43 lbs)
- **Material:** Plastic

9. Warranty and Support

For warranty information, technical assistance, or any questions regarding your Generic DT-1130 Electromagnetic Radiation Detector, please contact the retailer from whom you purchased the product or refer to the manufacturer's official support channels.
Please retain your purchase receipt as proof of purchase for warranty claims.