CHNADKS EM-101

EMF Meter User Manual

Model: EM-101 | Brand: CHNADKS

1. Introduction

Thank you for choosing the CHNADKS EM-101 EMF Meter. This advanced 3-in-1 rechargeable electromagnetic field radiation detector is designed for precise measurement of electric field strength, radiation power, and magnetic field strength. It is an essential tool for home and office EMF inspections, and can also be used for detecting anomalous magnetic field fluctuations, making it suitable for various applications including ghost hunting.
This manual provides detailed instructions on how to set up, operate, and maintain your device to ensure optimal performance and longevity.

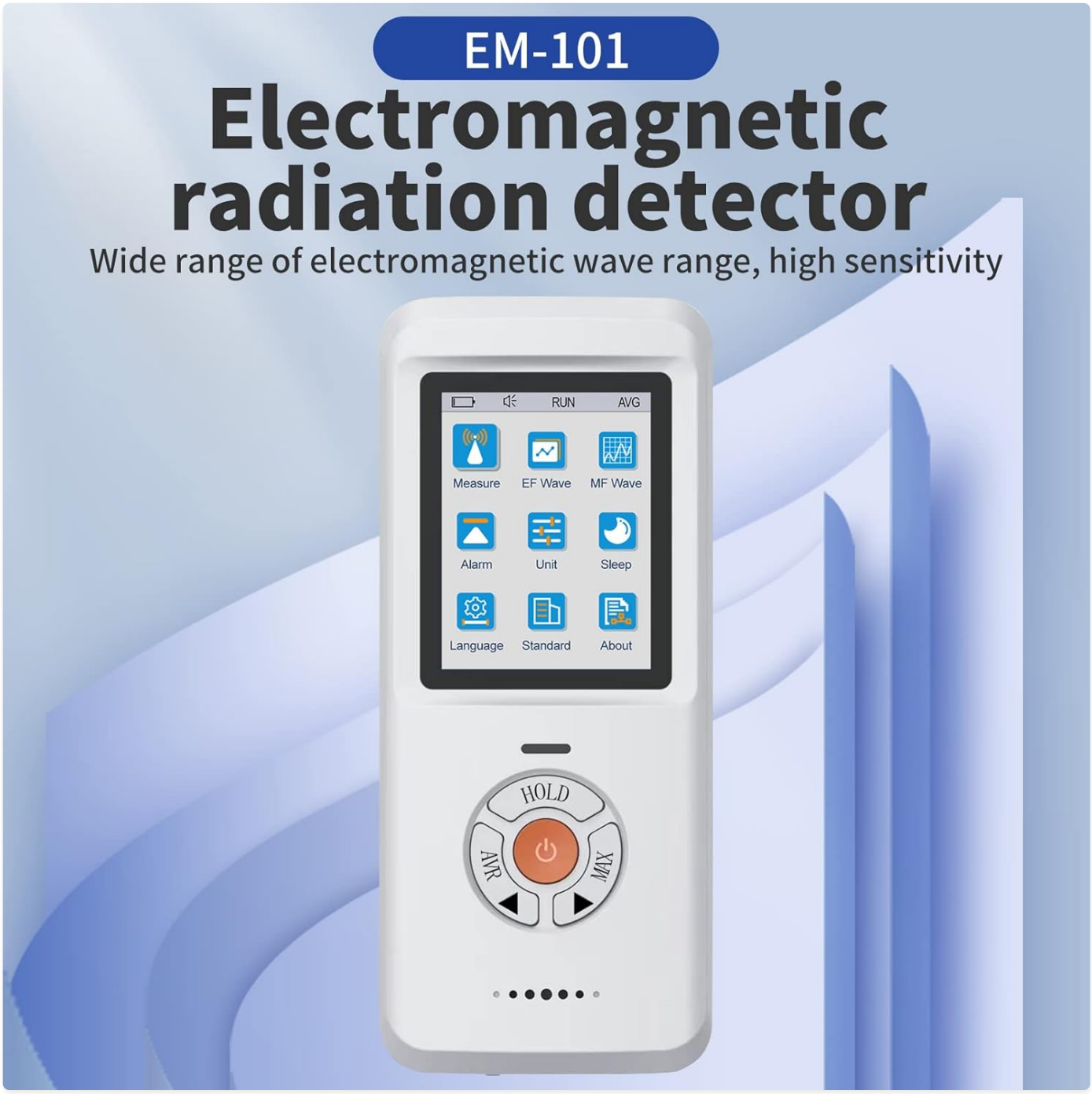


Figure 1.1: The CHNADKS EM-101 Electromagnetic Radiation Detector, showcasing its compact design and clear display.

2. Product Features

- **Versatile Precise Measurements:** Measures electric field strength, radiation power, magnetic field strength, and polarity of static magnetic fields with an effective measurement range of 50MHz-3.5GHz. Provides numerical reference for anomalous magnetic field fluctuations.
- **Easy to Use Interface:** Features a TFT 2.0 color screen with a graphical menu for intuitive operation. Includes sound and flash alerts with adjustable alarm thresholds. Supports electric and magnetic field waveform display modes.
- **Portable Design:** Compact dimensions (4.64x 2x0.78 inches) and lightweight (67g) with an IP3X protection level, making it easy to carry and durable for various settings.
- **Wide Application:** Detects RF and measures electromagnetic radiation from household appliances, cell phone towers, and low-frequency appliances. Ideal for ghost hunting enthusiasts, office workers, pregnant women, and the elderly to limit exposure to potentially harmful radiation.

3. Package Contents

Upon opening the package, please verify that all the following items are included:

- CHNADKS EM-101 EMF Meter (with built-in Li-ion battery)
- USB Charging Cable
- Portable Strap
- User Manual (this document)

4. Device Layout and Components

Figure 4.1: Front view of the EM-101 EMF Meter, showing the LCD screen and control buttons.

Figure 4.2: Detailed view of the EM-101, highlighting the USB interface, comfort buttons, buzzer hole, and LCD screen.

1. **LCD Screen:** TFT 2.0 color display for showing measurement data, graphical menus, and settings.
2. **Control Buttons:**
   - **Power/OK Button:** Central button for turning the device on/off and confirming selections.
   - **Navigation Buttons (AVR, MAX, HOLD):** Used for navigating menus, adjusting settings, and selecting measurement modes. The HOLD button freezes the current reading.
3. **USB Interface:** Located on the side for charging the device.
4. **Buzzer Hole:** Emits audible alerts for detected radiation levels.
5. **Sensors:** Internal sensors for detecting electric fields, magnetic fields, and RF radiation. The magnetic sensor and RF antennas are indicated by markings on the case.

5. Setup

5.1 Initial Charging

Before first use, ensure the device is fully charged. The EM-101 has a built-in high-performance lithium battery.

1. Connect the provided USB charging cable to the USB interface on the side of the EMF meter.
2. Connect the other end of the USB cable to a standard USB power adapter (not included) or a computer USB port.
3. The battery indicator on the LCD screen will show charging status. Allow the device to charge until the battery icon indicates a full charge.

Figure 5.1: The EM-101 connected for USB charging, illustrating its convenient and durable charging method.

5.2 Attaching the Portable Strap

Attach the portable strap to the designated loop on the device for convenient carrying and to prevent accidental drops.

6. Operating Instructions

6.1 Powering On/Off

- **To Power On:** Press and hold the central Power/OK button until the LCD screen illuminates.
- **To Power Off:** Press and hold the central Power/OK button until the screen turns off.

6.2 Navigating the Menu

The device features a graphical menu for easy navigation. Use the navigation buttons (AVR, MAX, HOLD) around the central Power/OK button to move through options and make selections.

- **Measure:** Enter this mode to begin real-time EMF measurements.
- **EF Wave:** Displays the electric field waveform.
- **MF Wave:** Displays the magnetic field waveform.
- **Alarm:** Adjust alarm thresholds for different field types.
- **Unit:** Change measurement units (e.g., V/m, µW/cm²).
- **Sleep:** Configure auto-sleep settings to conserve battery.
- **Language:** Select the display language.
- **Standard:** View or adjust measurement standards.
- **About:** View device information and firmware version.

6.3 Taking Measurements

Once powered on, select the "Measure" option from the main menu to enter the measurement interface. The device will display real-time readings for Electric Field, Radiated Power, and Magnetic Field.

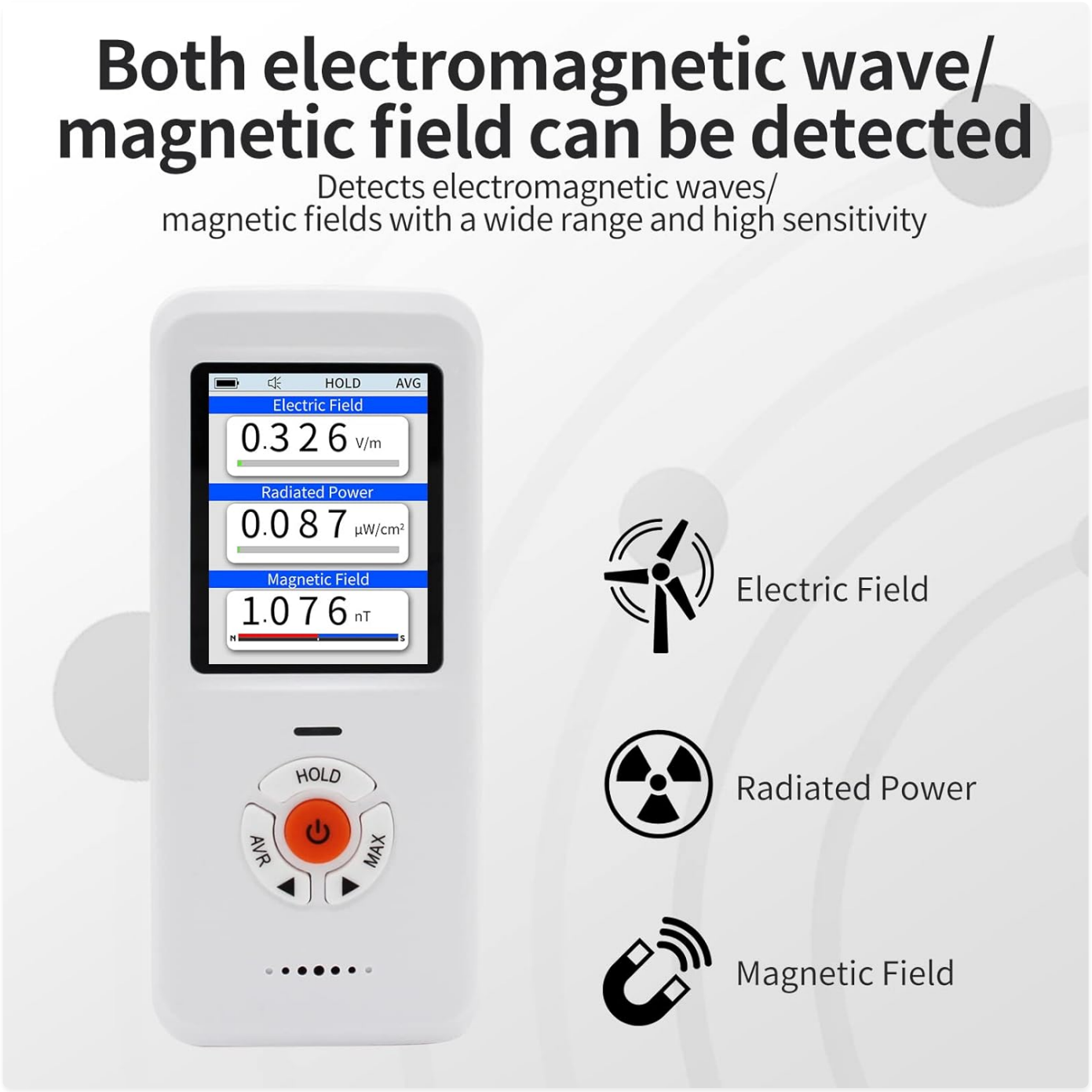


Figure 6.1: The EM-101 displaying simultaneous readings for Electric Field, Radiated Power, and Magnetic Field, along with their respective units.

- **Electric Field (EF):** Measures electric field strength in V/m.
- **Radiated Power (RF):** Measures radiation power in µW/cm².
- **Magnetic Field (MF):** Measures magnetic field strength in nT. The device also indicates N/S polarity for static magnetic fields.
- **HOLD Function:** Press the "HOLD" button to pause the current readings on the screen. Press again to resume real-time measurements.
- **Alarm:** If the detected radiation exceeds the set alarm threshold, the device will emit a sound and/or flash alert.

6.4 Practical Applications

The EM-101 can be used to test various sources of electromagnetic radiation:

Figure 6.2: The EM-101 being used to test common household appliances and devices for electromagnetic radiation, including a TV, microwave, WiFi router, and hairdryer.

- **Household Appliances:** Test TVs, microwaves, refrigerators, washing machines, etc.
- **Wireless Devices:** Check radiation from WiFi routers, mobile phones, Bluetooth devices.
- **Power Lines & Electrical Equipment:** Measure fields near power outlets, cables, and large electrical machinery.
- **Ghost Hunting:** Detect anomalous magnetic field fluctuations.

7. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** For optimal battery life, avoid fully discharging the battery frequently. Charge the device regularly, even if not in use for extended periods.
- **Avoid Impact:** While durable, avoid dropping the device or subjecting it to strong impacts.

8. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low battery or device malfunction.	Charge the device fully. If the issue persists, contact customer service.
Inaccurate readings.	Interference from other electronic devices; incorrect unit settings.	Move away from strong electromagnetic sources. Check and adjust unit settings in the menu.
Alarm not sounding.	Alarm threshold set too high; alarm function disabled.	Adjust the alarm threshold in the "Alarm" menu. Ensure the alarm function is enabled.

If you encounter any issues not listed here or if the suggested solutions do not resolve the problem, please contact our customer service team for professional assistance.

9. Specifications

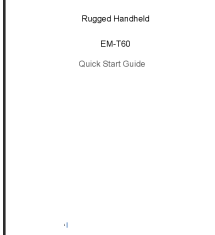
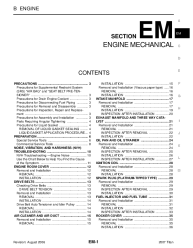
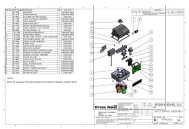
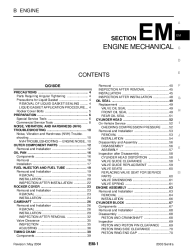
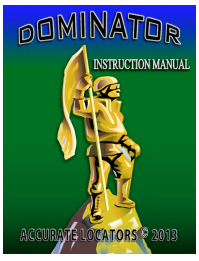
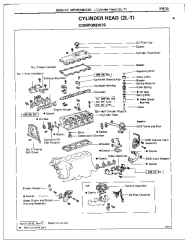
Attribute	Value
Brand	CHNADKS
Model Number	EM-101
Power Source	Battery Powered (Built-in Lithium Ion)
Color	White
Item Weight	67 Grams
Dimensions	Approx. 4.64 x 2 x 0.78 inches (11.78 x 5.08 x 1.98 cm)
Measurement Range (RF)	50MHz-3.5GHz
Display	TFT 2.0 Color LCD
Protection Level	IP3X
Included Components	LCD, Li-ion battery
Certification	CE
Country of Origin	USA

10. Warranty and Support

Your CHNADKS EM-101 EMF Meter is designed for reliability and performance. While specific warranty details are not provided in this manual, CHNADKS is committed to customer satisfaction.
If you have any questions, concerns, or require assistance with your device, please do not hesitate to contact our dedicated customer service team. We are here to provide professional and thoughtful support.
Please refer to the product packaging or the official CHNADKS website for the most up-to-date warranty information and

contact details.

Related Documents - EM-101

	Emdoor EM-T60 Rugged Handheld Quick Start Guide: Setup and Features Comprehensive quick start guide for the Emdoor EM-T60 Rugged Handheld device, covering initial setup, key features, system settings, and important warnings. Learn how to configure your device for optimal use.
	2007 Nissan Titan Engine Mechanical Service Manual Comprehensive service manual detailing engine mechanical systems, procedures, troubleshooting, and specifications for the 2007 Nissan Titan.
	Hydra Rinse HR Control Assembly Parts List and Diagram Detailed parts list and exploded view diagram for the Hydra Rinse HR Control Assembly, including part numbers, descriptions, quantities, and manufacturing/purchase types. This document also provides revision history and general assembly notes for the 999-0341 drawing.
	Nissan Sentra QG18DE Engine Mechanical Service Manual Comprehensive guide to the Nissan Sentra QG18DE engine, covering mechanical procedures, troubleshooting, and specifications. This manual details engine assembly, disassembly, maintenance, and repair for the QG18DE engine found in the 2003 Nissan Sentra.
	Accurate Locators Dominator Underground Surveyor User Manual Comprehensive user manual for the Accurate Locators Dominator Underground Surveyor system, detailing its features, operation, software, and geophysical survey capabilities for locating buried objects and anomalies.
	Toyota 2L-T Engine Cylinder Head Service Manual and Installation Guide Comprehensive service manual detailing the removal, inspection, cleaning, repair, and installation procedures for the cylinder head of Toyota 2L-T diesel engines. Includes component identification, step-by-step instructions, torque specifications, and critical maintenance information.