

WnewTools MT525

MT525 Electromagnetic Radiation Tester

User Manual

Model: MT525 | Brand: WnewTools

1. INTRODUCTION

The WnewTools MT525 is a versatile electromagnetic radiation tester designed to measure both electric field and magnetic field radiation. This device is equipped with a built-in sensor and a clear LCD digital display, making it suitable for monitoring electromagnetic radiation in various environments, including homes, offices, and industrial sites. It can also be used to test radiation from common electronic devices and assess the effectiveness of radiation-protection products.

This manual provides detailed instructions for the safe and effective use of your MT525 Electromagnetic Radiation Tester. Please read it thoroughly before operation and keep it for future reference.

2. SAFETY INFORMATION

To ensure safe operation and to prevent damage to the device, please observe the following safety precautions:

- Do not attempt to disassemble or modify the device. Unauthorized modifications may cause damage or injury.
- Keep the device away from water and other liquids. Do not operate in wet environments.
- Avoid exposing the device to extreme temperatures, direct sunlight, or high humidity.
- Use only the specified battery type (3 x 1.5V AAA batteries). Ensure correct polarity when installing batteries.
- If the device is not used for an extended period, remove the batteries to prevent leakage.
- Do not use the device if it appears damaged or is not functioning correctly.
- This device is for measurement purposes only and should not be used as a substitute for professional safety equipment or advice.

3. PRODUCT OVERVIEW

The MT525 Electromagnetic Radiation Tester is designed for ease of use and accurate readings. Familiarize yourself with its components:



Figure 3.1: Front view of the MT525 Electromagnetic Radiation Tester, showing the LCD display, power button, AVG/VPP button, and HOLD/BEEP button.

One EMF Meter with Two Uses

Testing the electric field magnetic field radiation at the same time



Sound
alarm



EMF
Tester



Low battery
indicator



Auto
power off



Backlight

Figure 3.2: The MT525's dual measurement capability for electric and magnetic fields, along with icons indicating sound alarm, EMF testing, low battery, auto power off, and backlight features.

3.1 Device Components

- **LCD Digital Display:** Shows electric field (E-field) and magnetic field (H-field) readings, battery status, alarm indicators, and measurement modes.
- **Power Button (Red):** Turns the device ON/OFF.
- **AVG/VPP Button:** Toggles between Average (AVG) and Peak (VPP) value measurement modes.
- **HOLD/BEEP Button:** Locks the current reading (HOLD) and toggles the sound alarm (BEEP).
- **Battery Compartment:** Located on the back, for 3 x 1.5V AAA batteries.

4. SETUP

4.1 Battery Installation

1. Locate the battery compartment cover on the back of the MT525.

2. Slide the cover open in the direction indicated by the arrow.
3. Insert three (3) 1.5V AAA batteries, ensuring correct polarity (+/-) as marked inside the compartment.
4. Close the battery compartment cover securely until it clicks into place.

Note: Batteries are not included with the device and must be purchased separately.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

- To power on the device, press the red **Power Button**. The LCD display will light up.
- To power off the device, press and hold the red **Power Button** for a few seconds until the display turns off. The device also features an auto power-off function to conserve battery life.

5.2 Taking Measurements

Once powered on, the MT525 will automatically begin measuring both electric field (E-field) and magnetic field (H-field) radiation simultaneously. Readings are displayed in real-time on the LCD.

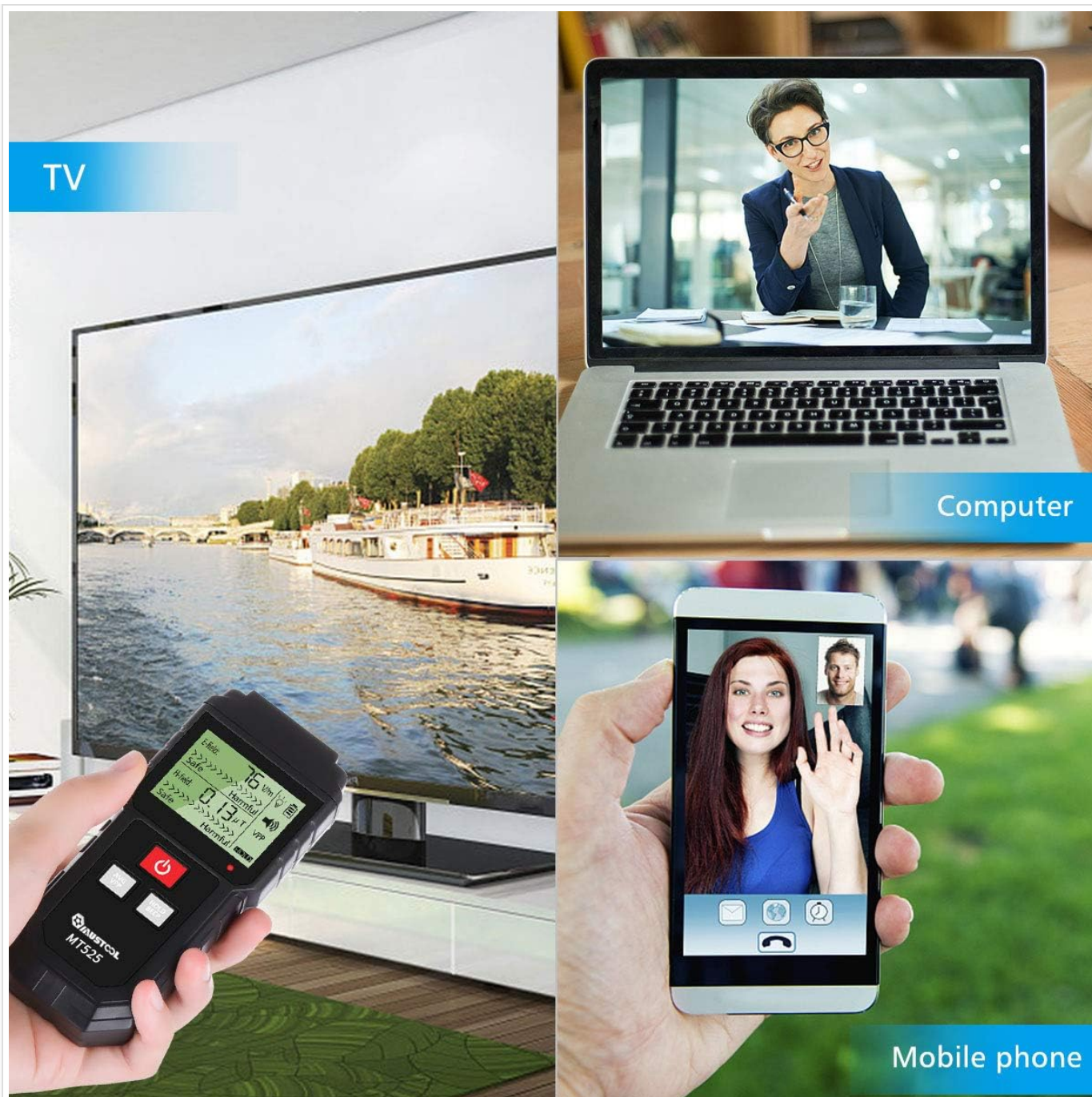


Figure 5.1: Examples of using the MT525 to measure radiation from common household electronics like TVs, computers, and mobile phones.

- **Electric Field (E-field):** Displayed in V/m (Volts per meter).
- **Magnetic Field (H-field):** Displayed in μT (microTesla).
- The display also includes a radiation assessment indicator (Safe/Harmful) and a graphic display of the radiation value trend.

5.3 AVG/VPP Mode Selection

- Press the **AVG/VPP Button** to switch between Average (AVG) and Peak (VPP) value measurement modes.
- **AVG (Average):** Displays the average radiation value over a period.
- **VPP (Peak):** Displays the peak radiation value detected.

5.4 Data Locking (HOLD) and Sound Alarm (BEEP)

- Press the **HOLD/BEEP Button** once to lock the current readings on the display. Press it again to release the hold.
- Press and hold the **HOLD/BEEP Button** to toggle the sound alarm ON or OFF. When the sound alarm is ON and

the measured radiation value exceeds the preset safe threshold, the device will emit an audible alert.

6. SPECIFICATIONS

Parameter	Value
Precision (Electric Field)	1 V/m
Precision (Magnetic Field)	0.01 µT
Range (Electric Field)	1-1999 V/m
Range (Magnetic Field)	0.01 µT - 19.99 µT
Reading Display	3-1/2-digit LCD
Alarm Threshold (Electric Field)	40 V/m
Alarm Threshold (Magnetic Field)	0.4 µT
Testing Bandwidth	5Hz-3500MHz
Sampling Time	About 0.4 seconds
Test Mode	Bimodule synchronous test
Operating Temperature	0~50°C / 30~122°F
Operating Humidity	Relative humidity <80%
Power Supply	3 x 1.5V AAA Battery (Not Included)
Dimensions	Approx. 8.66 x 5.91 x 3.15 inches (Package Dimensions)
Weight	Approx. 7.8 ounces

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. If storing for an extended period, remove the batteries.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display to ensure accurate readings.

8. TROUBLESHOOTING

Problem	Possible Cause & Solution
Device does not power on.	<ul style="list-style-type: none">◦ Batteries are dead or low. <i>Solution: Replace with new 1.5V AAA batteries.</i>◦ Batteries are inserted incorrectly. <i>Solution: Check battery polarity (+/-).</i>

Readings are erratic or unstable.	<ul style="list-style-type: none">◦ Strong interference from other electronic devices. <i>Solution: Move away from other strong electromagnetic sources.</i>◦ Low battery. <i>Solution: Replace batteries.</i>
Sound alarm does not work.	<ul style="list-style-type: none">◦ Sound alarm is turned off. <i>Solution: Press and hold the HOLD/BEEP button to toggle the sound alarm ON.</i>◦ Radiation level is below the alarm threshold. <i>Solution: The alarm only activates when readings exceed the threshold.</i>

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official WnewTools website. Keep your purchase receipt as proof of purchase.

This product is designed for reliable performance. If you encounter any issues not covered in this manual, please contact customer service for assistance.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

