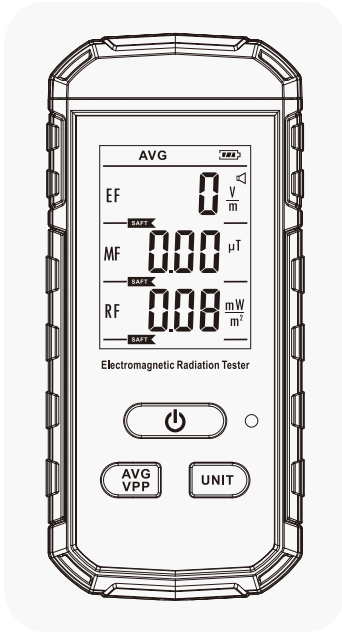


Electromagnetic Radiation Tester Instruction manual



Version: 3125-EN-00

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I. Introduction

Electromagnetic Radiation Tester can test electric field radiation and magnetic field emission to reach the optimal test result. It is used to test and learn electromagnetic radiation situation indoor and outdoor. It is equipped with a built-in electromagnetic radiation sensor, which can display the radiation value on LCD digital display after processing by the control microchip. You can make reasonable processing or taking effective prevention measures to ward the electromagnetic radiation according to the test result.

Influence and harms of electromagnetic radiation on human body:

1. Being one of the causes of leukemia for children.
2. Can cause cancer and accelerate proliferation of cancer cells.
3. Can cause direct harm to human genital system, nervous system and immune system.
4. Can cause mental disabilities of children and diminution of vision, affect tissue development and skeletal development of children.
5. Can cause diminution of hematopoietic function of livers and even cause amotio retinae.
6. Being one of the main causes of cardiovascular disease and diabetes.
7. Having bad influence on human visual system.

Moreover, strong electromagnetic radiation may influence and destroy original bioelectric current and biomagnetic field in human body and cause abnormality of the original electromagnetic field in human body. The elderly, children and the pregnant are susceptible to electromagnetic radiation.

Artificial electromagnetic radiation sources include all kinds of electric appliances and devices. By fair use of household appliances and taking reasonable precautions measures, electromagnetic radiation can be effectively prevented and reduced.

II. Features

1. One detector for three usage, simultaneous detection of electric, magnetic field and RF radiation value.
2. Color-screen display.
3. Sound and light alarm, automatic alarm above safe value.
4. Data hold.
5. Radiation intensity indication.
6. Radiation assessment, indicating if current radiation value is at safe level.

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7. Stylish appearance, easy to operate with one hand, move or perform on-site measurement.

III. Range of application

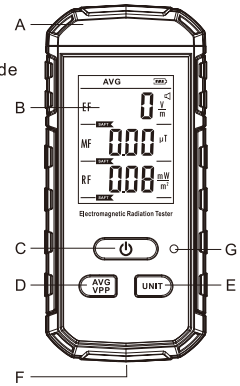
1. Electromagnetic radiation monitoring: House and apartment, office, outdoor and industrial site.
2. Electromagnetic radiation test: Mobile phone, computer, TV set, refrigerator and high voltage cable radiation test.
3. Radiation protection product test: Test effects of radiation-proof clothes, radiation proof film and other prevention articles.

VI. Radiation indexes

- X-ray radiation index: ★★★★★
 Electric hair drier radiation index: ★★★★★
 Electric blanket radiation index: ★★★★★
 Microwave oven radiation index: ★★★★★
 Computer monitor and host radiation index: ★★★
 Mobile phone radiation index: ★★
 TV set radiation index: ★★
 Keyboard and mouse radiation index: ★
 Copying machine and printer radiation index: ★
 Security check radiation index: ★

V. Part names

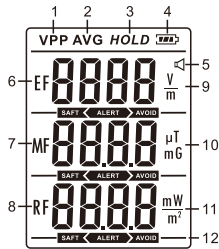
- A. Front sensing area
- B. LCD
- C. Power/HOLD button
- D. Average/Peak value mode switch button
- E. Unit switch button
- F. Charging port
- G. Indicator light



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VI. LCD display

1. Peak (maximum)
2. Average
3. Data Hold
4. Battery power
5. Buzzer is on
6. Electric field value
7. Magnetic field value
8. Rf value
9. Electric field unit
10. Magnetic field unit
11. RF unit
12. Radiation intensity indication



VII. Operation Instruction

1. Startup/shutdown:

Short press Power button to turn on detector, measured value of current electric, magnetic field and RF radiation value will be displayed after about 1 second of full screen display, long press Power button after startup to turn off detector. Detector will automatically shut down after 5 minutes of no button operation.

Cancel automatic shutdown: When shutting down, long press power button until the LCD displays [UOFF], and the system will not automatically shut down.

*Note:

Due to possible electromagnetic interference in the environment, the instrument may display minor reading when it is turned on, which has nothing to do with instrument fault.

2. Measurement:

Hold the instrument with hand, with front sensing area slowly approaching electromagnetic radiation source to be tested. If the actual radiation value is within specification range, the value will be displayed. If the instrument has no reading, the electromagnetic radiation value of radiation source is lower than the minimum value of detector, namely 1V/m or 0.01uT or 0.01mW/m².

*Note:

Please measure from a distance for high-pressure facilities to make sure of safety.

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3. Data Hold:

After startup, short press Power button, reading will be locked and [HOLD] shows up on the screen. Press again to resume normal measurement and [HOLD] is not displayed.

4. Average/peak value mode:

After startup, short press AVG/VPP button to switch between average value mode and peak value mode. Average value mode displays [AVG], peak value mode displays [VPP].

5. Buzzer:

After startup, long press AVG/VPP button to turn buzzer on or off. If buzzer is turned on, [<] will be displayed on screen.

6. Unit switch:

Short press UNIT button to switch magnetic field unit between uT and mG.

7. Zeroing of electric field/magnetic field:

After startup, long press AVG/VPP and UNIT button simultaneously, and enter zeroing interface after about 2 seconds. At this time, electric field or magnetic field value flashes; short press AVG/VPP button or UNIT button to switch between electric and magnetic field. When electric field value flashes and the value is less than 10V/m, press Power button, the electric field value will return to zero. When magnetic field value flashes and the value is less than 0.1uT, press Power button, the magnetic field value will return to zero; after zeroing operation finishes, long press AVG/VPP button to exit zeroing interface or long press Power button to shut down.

8. Charging indication:

When battery power shows [], please charge the instrument in time. After connected with charging wire, the instrument displays dynamic charging interface and stops measuring electromagnetic field. After battery is fully charged, battery grid bar is full as well.

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VIII. Alarm instructions

	SAFT	ALERT	AVOID
Backlight	Green	Orange	Red
Electric field (V/m)	0~40	40~400	Over 400
Magnetic field (uT)	0~0.4	0.4~4	Over 4
RF(mW/m²)	0~10	10~100	Over 100

IX. Technical parameters

	Electric field	Magnetic field	RF
Range	1~1999V/m	0.01~99.99uT/ 0.1~999.9mG	0.01~300mW/m²
Resolution	1V/m	0.01uT/0.1mG	0.01mW/m²
Alarm threshold	40V/m	0.4uT/4mG	10mW/m²
Measurement bandwidth	5Hz~3500MHz		50MHz~3.5GHz
Reading display	3-1/2digit LCD		
Sampling time	About 0.4 second		
Measurement mode	Three modes measurement at the same time		
Overload indication	Maximum value of measurement range on LCD		
Operation temperature	0°C~50°C		
Operation humidity	Relative humidity below 80%		
Working voltage	3.7V		
Power	3.7V lithium battery		
Dimensions	61*25*134mm		
Weight	132.2g		

Reference standards:

HJ/T10.3-1996 Environmental Impact Assessment Methods and standards on Electromagnetic Radiation.
 GB8702-2014 Controlling limits for electromagnetic environment.

Specific Declarations:

Our company shall hold no any responsibility resulting from using output from this product as a direct or indirect evidence.

We reserves the right to modify product design and specification without notice.



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