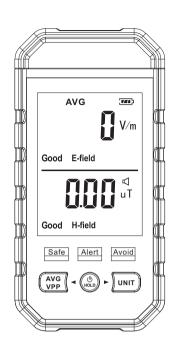
# **Electromagnetic Radiation Tester**

Instruction manual



Version : WT9049-EN-00

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# I. Introduction

Radiation survey meter 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 micro-chip. You can make reasonable processing or taking effective prevention measures toward 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 abnormity 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 precautious measures, electromagnetic radiation can be effectively prevented and reduced.

# II. Features

Electromagnetic radiation detector has the following function features:

- ▶ One detector for two usage, simultaneous detection of electric and magnetic field radiation:
- Sound and light alarm, automatic alarm above safe value:
- ▶ Data hold, press one button to lock radiation
- LCD graphic display of radiation value trend;
- ▶ Radiation assessment, indicating if current radiation value is at safe level:
- ▶ Stylish appearance, easy to operate with one hand, move or perform on-site measurement.

### III. Range of application

- ► Electromagnetic radiation monitoring: House and apartment, office, outdoor and industrial site;
- ► Electromagnetic radiation test: Mobile phone, computer, TV set, refrigerator and high voltage cable radiation test;
- 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:★★★★

Flectric 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:★

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### V.LCD display and part names

1.Full screen LCD: as shown in the figure below



2.Part names: as shown in the figure below

A.Front sensing area B.LCD C.Indicator light D.Average / Peak value mode switch button E.Power / HOLD button F.Unit switch button Safe Alert Avoid AVG VPP - UNIT

# VI. Operation Instruction

# 1.Startup/shutdown:

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

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Note: Due to possible electromagnetic interfer-ence 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 appraoching 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.

Note: please measure from a distance for highpressure facilities to make sure of safety.

After startup, short press "Power / HOLD" button, reading will be locked and [HOLD] icon shows up on the screen; press again to resume normal measurement and [HOLD] icon will not show.

### 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] icon, peak value mode displays [VPP] icon.

# 5.Buzzer switch:

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

### 6 Unit switch:

After startup, short press "UNIT" button to switch magnetic field unit between uT and mG.

### 7. Backlight alarm:

After startup, long press "UNIT" button to turn backlight alarm on or off.

### 8. Zeroing of electric field/magnetic field:

After startup, long press "AVG/VPP" button and "UNIT" button simultaneously, and enter zeroing

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

# 9. Low battery indicator:

If this battery volume icon shows as [ ], replace the battery immediately.

# VII. Technical parameters

	Electric field	Magnetic field
Unit	V/m	uT/mG
Accuracy	1V/m	0.01uT/ 0.1mG
Range	1~1999V/m	0.01~99.99uT/ 0.1~999.9mG
Alarm threshold	40V/m	0.4uT/ 4mG
Reading display		3-1/2digit LCD
Measurement bandwidth		5Hz~3500MHz
Sampling time		About 0.4 second
Measurement mode		Dual mode 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		4.5V
Power		2*1.5V AAA batteries
Dimensions		64*27.5*130mm
Weight		124.5g

Reference standards:
GB8702-2014 Regulations for Electromagnetic Radiation Protection
HJ/T10.3-1996 Environmental Impact Assessment Methods and
standards on Electromagnetic Radiation
GB9175-88 Hygienic Standard for Environmental
Electromagnetic Waves

Specific Declarations

Our company shall hold no any responisibility resulting from using output from this product as an direct or indirect evidence. We reserves the right to modify product design and specification without