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FNIRSI ERD-10 Electromagnetic Radiation Detector



Specifications

• Product Name: ERD-10

• Weight: 143g

• Unit: V/m

• Accuracy: 1V/m

• Range: 1V/m - 1999V/m

• Magnetic Field: 40V/m

• T: 0.01T

• Range T: 0.01T - 99.99T

• Product Size: 2.4 inch

• Power Input: TYP C (5V/1A)

Operation

To turn on the device, press the power button. Use the selection buttons to navigate through different functions. Press the corresponding buttons to adjust settings or activate specific features.

Functionality

The device offers various functions such as measuring electric and magnetic fields. Use the appropriate buttons to select the desired function and view the readings on the display.

Data Storage

To store data, enable the data storage function by accessing the settings menu and toggling the data storage option on. Data will be saved for future reference.

Please read this instruction manual carefully before using the product and keep it properly.

SECURITY REQUIREMENT

Environmental Requirement

Precautions

- Avoid high temperatures, open flames, corrosive gases, and humid or dusty environments to prevent device failure.
- Ensure that the vents are not blocked to prevent the device from overheating.

Keep away from the following items

- Heaters: Avoid overheating or fire risks.
- Water sources, chemical solvents: Leakage may damage the device or cause a fire.
- Strong magnetic equipment: Prevent magnetic fields from interfering with the normal operation of the device.

Please do not dispose of used batteries or equipment with regular household waste.

They should be handled according to national or local regulations.

PRODUCT OVERVIEW

Production Introduction

The ERD-10 is an electromagnetic radiation detector, a professional instrument used for measuring electromagnetic radiation. It is suitable for various application scenarios, such

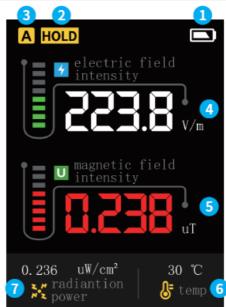
as homes, offices, vehicles, and outdoor environments. It features a 2.4-inch highdefinition color screen and supports monitoring of electric field strength, magnetic field strength, radiation power, and environmental temperature.

Production Description



- 1. Power Indicator: Indicates the system's battery level
- 2. Data Retention: Short-press to activate Data Retention.
- 3. Auto Power Off Indicator Indicates the status of the automatic power-off function.
- 4. Electric Field Strength Measurement This area displays the measured value of the electric field strength.
- 5. Magnetic Field Strength Measurement This area displays the measured value of the magnetic field strength.
- 6. Temperature Value This area displays the real-time temperature measured by the device.
- 7. Radiation Power Measurement This area displays the power of radio-frequency radiation.

Key	Operation	Function	
७ ५	Long press	Power off	
	Short press	Power on(Off condition)/Back	
HOLD ▶	Short press	Turn on/off Data Retention	
0	Long press	Enter system menu,long press again out	
MODE	Short press	Switch to curve interface, visualize data. Click again get out of curve interface	



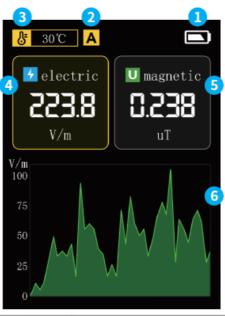
System Settings Page Illustration

- 1. System setting: This area displays the name of the selected function.
- 2. Volume setting: Allows adjustment of the volume from level 0 to 10.
- 3. Luminance setting Allows adjustment of the brightness from level 1 to 10.
- 4. Language setting Use the left and right keys to select between Simplified Chinese and English.
- 5. Factory data reset Use the left and right keys to choose whether to restore to factory settings, then press the OK button to confirm.



Key	Operation	Function
ტ ტ	Long Press	Power Off
0 19	Short Press	Back Operation
<u>♦</u> / HOLD	Short Press	Select Button
<u>0</u>	Long Press	Quit system menu, long press again enter system menu
MODE	Short Press	Confirm selection

- 1. Power Indicator: Indicates the system's battery level.
- 2. Auto Power Off Indicator: Indicates the status of the automatic power-off function.
- 3. Temperature Value This area displays the real-time temperature measured by the device.
- 4. Electric Field Strength Measurement This area displays the measured value of the electric field strength.
- 5. Magnetic Field Strength Measurement. This area displays the measured value of the magnetic field strength.
- 6. Curve Display This area displays the real-time values of the curve measurement. The curve page updates every 0.5 seconds.



Key	Operation	Function	
4514	Long Press	Power Off	
ψ •	Short Press	Power On(Off condition)	
<u>♦</u> / HOLD	Short Press	Switch electric field strength/ magnetic field strength	
0	Long Press	Switch to system menu, long press again out	

TECHNICAL SPECIFICATION

Device Parameters

Parameters	Specification	
Item No.	ERD-10	
Screen Material	2.4 inches	
Backlight	Brightness adjustable	
Charging Power	TYPE-C (5V/1A)	
Battery	1000mAh	
Languages	Chinese/English	
Product Size	≈143×68×29mm	
Product Weight	≈143g	

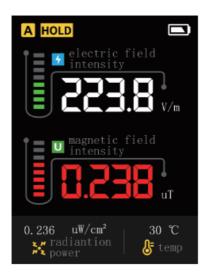
Measurement Parameters

Parameter	Electric Field	Magnetic Field
Unit	V/m	μТ
Accuracy	1V/m	0.01μΤ
Range	1V/m - 1999V/m	0.01μΤ - 99.99μΤ
Alarm Threshold	40V/m	0.4μΤ
Power Range of Radiofrequency Radiation 0.2-1000mW/cm²		DmW/cm²

OPERATION GUIDE

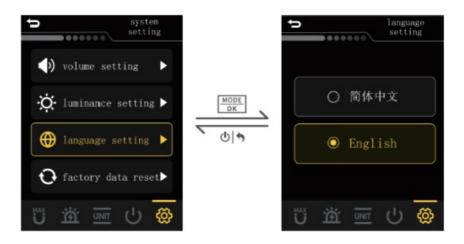
Boot

Short-press of to turn on the device, then wait for the system to load then enter the default system settings interface.



Language Settings

On the main interface, long-press do enter the system menu do by, select system settings, short-press OK to enter system settings do by, select language settings do by, then short-press OK to enter language settings, select Chinese or English OK to confirm.



Adjust the upper limit of the magnetic and electric field strength

Magnetic field strength upper limit adjustment

Long-press on the main interface to enter the system menu ▶, select the magnetic field strength upper limit setting parameter, short-press OK to enter the magnetic field strength upper limit setting, adjust the value, click ७ to save the setting, and return to the previous page

Electric field strength upper limit adjustment. Long-press on the main interface to enter the system menu ◆ ▶, select the electric field strength upper limit setting parameter, short-press OK to enter the electric field strength upper limit setting, adjust the value, click of to save the setting, and return to the previous page.





General settings and other function adjustments

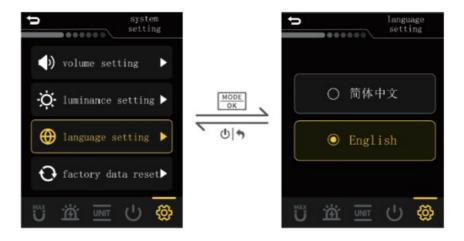
The corresponding function selections and opening are roughly the same as the above two points of operation navigation, and the step description is omitted.





Brightness adjustment

Long-press on the main interface to enter the system menu ♠, select system settings ♠, short-press OK to enter the system settings, select brightness settings ♠, and then short-press OK to enter the brightness settings, adjust the brightness in real time, click ీ to save the setting, and return to the previous page.



System settings and other function adjustments

The corresponding function selection and opening are roughly the same as the above two points of operation navigation, and the step description is omitted.

QUICK START GUIDE

Rapid Measurement

- 1. Turn on the electromagnetic radiation detector. After the device is turned on, it measures the environmental electric field, magnetic field, and radiation in real time.
- 2. View the measurement data on the main screen interface, and switch the curve page, visualize the data, analyze the data, and record the data.
- 3. Short-press bota to activate the Data Retention.
- 4. Long-press to enter the system menu. You can set the upper limit of the electric field and magnetic field and adjust other parameter settings.

Firmware Upgrade

- Turn off the device, press OK, and bottogether the device will boot the firmware upgrade interface. Use a data cable to connect the device and the computer, and enter the firmware update interface to upgrade the firmware.
- After entering the firmware update, the computer recognizes the U disk. Copy the firmware file directly to the U disk, then it's done.
- Long-pressing the power button in the firmware update interface can shut down the device.

TROUBLESHOOTING

Unable to boot

Possible causes:

- · Battery exhausted
- · Loose or damaged battery connection

Solution:

- 1. Check battery charge and charge if low
- 2. If the battery fails to charge or the device still does not power on, try reinstalling or replacing the battery.
- 3. If the device still does not power on, please contact technical support.

The screen does not display

Possible causes:

- The screen backlight is off
- Display hardware malfunction
- System software abnormality

Solution:

- 1. Check and adjust the backlight brightness settings according to the manual.
- 2. Try restarting the device to ensure the system returns to normal.
- 3. If the screen still does not display properly, the display may need to be repaired or replaced.

MAINTENANCE

Clean the outside of the device

- Frequency: Clean once a month, depending on the usage environment.
- Method: Use a soft cloth to gently wipe the surface of the device. Avoid using

chemical cleaners, especially those containing alcohol or strong acids or alkalis, to avoid damaging the casing or screen.

Note:

- Keep the device clean and remove dust around the buttons regularly to keep it in good condition.
- Ensure that no liquid, dust, or debris enters the device interface.

Check the battery and power supply.

- Battery maintenance: For the device's built-in battery, check its health of the battery regularly. Avoid complete battery discharge. It is recommended to charge regularly and avoid not using the device for a long time.
- Charging specifications: Use the official charger to charge, avoid overcharging or over-discharging, and ensure that the battery is in the appropriate operating voltage range.
- Battery replacement: If the battery shows excessive attenuation (such as failure to charge normally or extremely fast discharge), it should be replaced in time.

Storage and Carrying

- Battery maintenance: Storage environment: The device should be stored in a dry and ventilated environment, avoiding high temperature, high humidity, or drastic temperature changes. Avoid placing it in direct sunlight.
- Carrying: Be careful to avoid falling when using, especially when carrying. It is recommended to use a protective case or a special bag for carrying.

Software Update

- Regularly check whether the device has new firmware to update. The latest firmware can fix known bugs and improve device performance.
- When updating, make sure the operation steps are correct, use the officially released firmware files, and avoid power outages or other interference.

Restore factory settings

- If the device is abnormal or does not work properly, try to restore the factory settings.
 After restoring the settings, the device will clear all custom configurations and return to the initial state.
- For methods to restore factory settings, please refer to the user manual or contact the manufacturer's customer service.

CONTACT US

 Any FNIRSI users who contact us with questions will receive our promise of a satisfactory solution, plus an extra 6-month warranty as a token of our appreciation for your support! By the way, we have created an exciting community, and we welcome you to contact the FNIRSI staff to join.

SHENZHEN FNIRSI TECHNOLOGY CO., LTD

- Product Name: Electronmagnetic Radiation Detector
- Model: ERD-10
- Address 8th Floor, West Side, Building C, Weihua Da
- Industrial Park, Dalang Street, Longhua District, Shenzhen,
- Guangdong, China
- Tel: 0755-28020752
- Service Email: support@fnirsi.com
- Business Email: business@fnirsi.com
- Website: www.fnirsi.com



WARRANTY INFORMATION

This page is the basic warranty card. Please keep it.

Thank you for choosing our company's products. The warranty period of this product

starts from the date of sale. During the product warranty period, if the product is installed and used in accordance with the product manual and used in a normal environment and conditions, and the fault is caused by defects in the original materials and processing, you can enjoy free repair services according to the content of this warranty clause. Please keep this warranty card properly as a warranty certificate. No reissue will be issued if it is lost.

The following situations will incur paid repair services

- 1. Unable to present the original, valid warranty card.
- 2. Damage caused by improper installation not meeting product requirements, standards, or relevant specifications.
- 3. Damage caused by accessories in the installation environment not meeting product requirements, standards, or relevant specifications.
- 4. Damage caused by improper use, improper storage, unauthorized disassembly, or unauthorized repairs by the user.
- 5. Expiration of the warranty period.

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FAQS

What should I do if the device fails to start?

If the device does not start, try performing a factory reset following the instructions in the user manual. If the issue persists, contact customer support for further assistance.

Documents / Resources



FNIRSI ERD-10 Electromagnetic Radiation Detector [pdf] User Manual 055, ERD-10 Electromagnetic Radiation Detector, ERD-10, Electromagne tic Radiation Detector, Radiation Detector, Detector

References

- User Manual
- FNIRSI
- 055, Detector, Electromagnetic Radiation Detector, ERD-10, ERD-10 Electromagnetic Radiation Detector, FNIRSI, Radiation Detector

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