

BODY SCANNER METAL DETECTOR

Users Manual

Read this manual thoroughly before use

INTRODUCTION

This instrument is a handheld metal detector with a LCD. It is designed mainly to detect dagger, pistol and other dangerous metallic objects carried on a person. It can also be used to detect metallic object in packaged food or parcel.

It can be used at airports, industrial sites, government buildings, schools, hospitals, conferences, sport events, and anywhere security is needed. When it detects metal, it will give optical, audio, and/or vibratory alarm.

Features:

1. Settings are set through a single key.
2. The display shows the settings and the operating status of the detector.
3. Alarm Method: When the detector detects metal, the backlight will turn from green to red, meanwhile the detector will sound and/or vibrate depending your alarm setting.
4. The detector can be powered by specified lithium battery. The battery level indicator on the LCD indicates the charge level of the battery. When the battery is not high enough, the detector will give low battery alarm.
5. Environment temperature indication.
6. The display shows the alarm count automatically.
7. Locating Button: Pressing and holding the Locating Button reduces the detector's sensitivity, so you can scan for example near floors which contain a lot of steel rebars, or scan in the place where only larger objects are required to be detected, or locate metallic object.

- 8. The detector can be used with earphone.
- 9. Wireless charging.

STRUCTURE

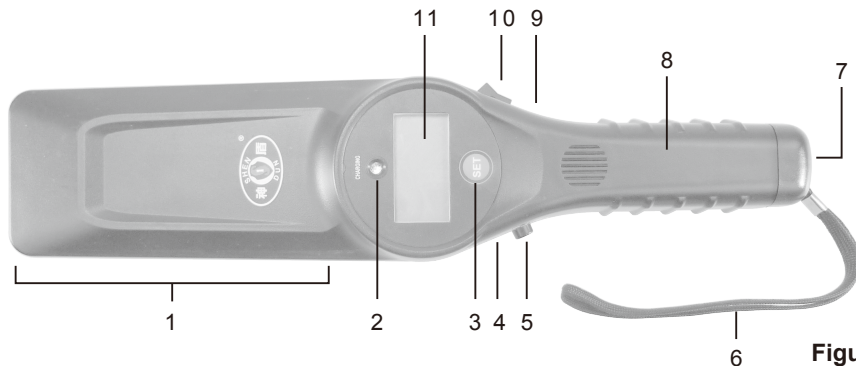


Figure 1

- 1. Detection Area
- 2. Charging Indicator
- 3. " SET " Key
- 4. Earphone Jack

5. Locating Button

Pressing and holding down this Locating button decreases the detector's sensitivity.

6. Carrying Strap

7. Battery Cover

8. Handle

9. Sensitivity Adjuster

Used to adjust the detector's detection sensitivity.

If the detector's detection sensitivity is set too high, the detector may give alarm wrongly.

Before use, make sure that the sensitivity meets your need.

10. Power Switch

11. LCD

UNDERSTANDING THE DISPLAY

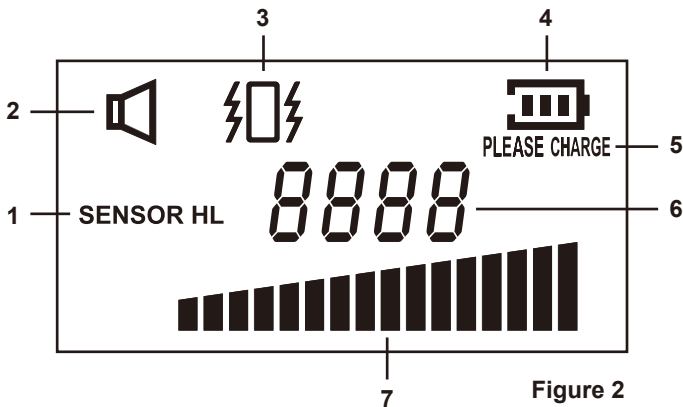










Figure 2

1. **SENSOR HL** -- When you press and hold down the Locating Button, the detector's sensitivity is relatively low and the display shows " **SENSOR L** " as an indication. When you release the Locating Button, the detector's sensitivity is relatively high and the display shows " **SENSOR H** " as an indication.
2.  ----- Audio alarm function is enabled.
3.  ----- Vibration alarm function is enabled.

4.  ----- Battery level indicator. The number of the rectangle bars in this Battery level indicator indicates the charge level of the battery.
When the battery is high, this indicator shows "  ".
When the battery is not high enough, this indicator shows "  " and you should replace the battery or recharge the battery if it is rechargeable; otherwise the detector may not give alarm when it detects metal.
5. **PLEASE CHARGE** ---- When the battery level indicator shows "  ", the battery is not high enough; in this condition, the display shows " **PLEASE CHARGE** " in order to remind the operator to charge rechargeable battery. (The detector presumes that the detectore is using a rechargeable battery as power supply.)
Warning: Do not charge any non-rechargeable battery; otherwise it may explode.
Before charging battery, make sure that the battery's polarity connections are correct.
6.  ----- Digital display used to indicate the count or environment temperature.
7.  -- Level indicator used to indicate the metal detection intensity. The larger the number of lit segments, the higher the metal detection intensity.


INSTALLING BATTERY

The detector requires a 9V (6F22 or equivalent) battery for power. We recommend using an alkaline battery. You can also use a rechargeable battery.

Note: Before use, charge the rechargeable battery if want to use a rechargeable battery to power the detector.

If you will not use the detector in a long period of time, remove any battery from the detector.

Use the following procedure to install battery:

1. Remove the battery cover by sliding the battery cover in the direction indicated by the mark on the battery cover.
2. Refer to Figure 3, on the bottom of the battery compartment there are a positive polarity mark "+" and a negative polarity mark "-". (In order to facilitate observation, the marks in the figure have been whitened). Install a new battery into the battery compartment, make sure that polarity connections are correct (see Figure 3); otherwise the detector may be damaged.
3. Install the battery cover.
4. When the battery level indicator shows "", the display will show "PLEASE CHARGE" and the built-in buzzer will sound a beep every 2 to 4 secs to remind you that the battery is not high enough. Maybe the detector can still be used for a while, but the detection sensitivity of the detector may decrease. If the battery in the battery compartment of the detector is a non-rechargeable battery, you should replace it immediately, and if it is a rechargeable battery, you should charge it immediately.

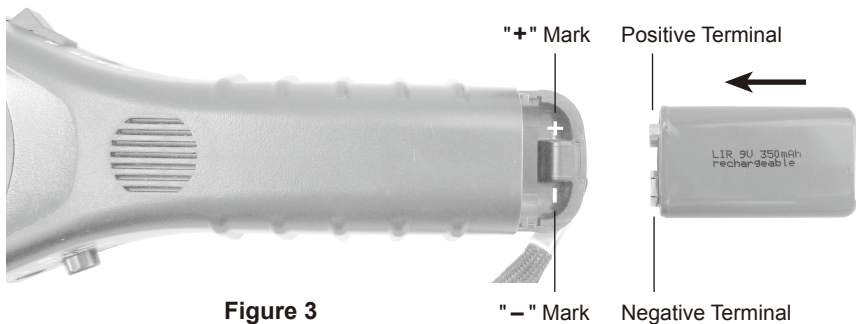


Figure 3

Warning

- Do not attempt to charge any non-rechargeable battery; otherwise it may explode.
- Before you charge a rechargeable battery, make sure that its polarity connections are correct; otherwise it may explode.

CHARGING RECHARGEABLE BATTERY

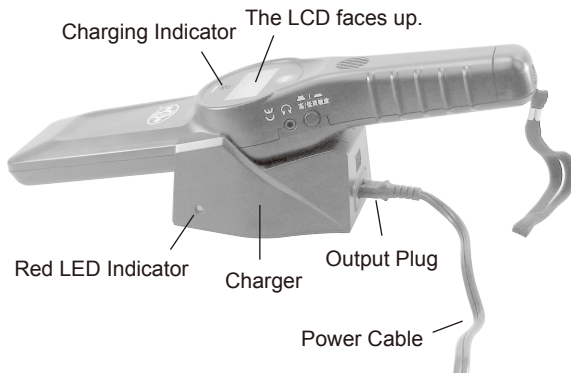


Figure 4

1. Turn off the detector.

Warning: To avoid accident, which can be deadly, never charge battery when the detector is on.

2. Remove the battery cover. Install the rechargeable battery into the battery compartment, make sure that the polarity connections are correct (see Figure 3). Reinstall the battery cover.

Warning: Do not charge any battery if the polarity connections of the battery are wrong; otherwise it may explode.





3. Place the supplied charger on a platform. Inset the output plug of the power cable into the power input socket on the charger (see Figure 4), then insert the input plug of the power cable into a

- standard AC 110V (or AC 220V) power socket. The Red LED Indicator on the charger lights up.
4. Insert the detector into the slot on the charger, as indicated in Figure 4, until the detector is in place, make sure that LCD of the detector faces up.
 5. The charging indicator on the detector lights red indicating that charging is ongoing.
 6. Usually, it takes about 10 hours (or more) to charge an exhausted battery. When the charging indicator on the detector lights green, the battery is full and the charging is finished.


Warning:

1. Use only the supplied charger to charge the battery. Use of incompatible chargers may present a risk of fire, explosion, or other hazard.
2. Do not use the charger if it is damaged.
3. Do not charge any battery if the battery is damaged or if the battery case is cracked or open.

OPERATING INSTRUCTION

1. Turn on the detector with the power switch. The LCD turns green. About 1 to 2 secs later, the battery level indicator indicates the present charge level of the battery and the digital display shows the present environment temperature.
2. Press the "**SET**" key to select and enable audio alarm function (" " appears), vibration alarm function (" " appears), or both audio alarm function and vibration alarm function (both " " and " " appear)

and "  " are displayed), the display will show the corresponding icon(s).

3. Now you can start metal detection. When the detector is operating, it will detect metal only while it is in motion. Move the detector close to the person (or object) to be scanned. When the detector detects metal, the LCD will turn red, and the level indicator at the bottom area of the LCD will indicate the metal detection intensity, which is dependent upon the quantity and composition of the metallic object(s), detection sensitivity of the detector, and etc. According to the alarm setting, the detector will give additional alarm when it detects metal, which is described as follows:
 - The built-in buzzer sounds if the audio alarm function is enabled.
 - The detector vibrates if the vibration alarm function is enabled.
 - The built-in buzzer sounds and the detector vibrates if both the audio alarm function and the vibration alarm function are enabled.
4. If you want to locate the detected metallic object more accurately, press and hold down the Locating Button and move the detector around the area where you suspect the detected metallic object may be.
5. The detector has alarm statistics function. When it gives alarm, the digital display automatically shows the number (4-digit) of alarms recorded since you turn on the detector. If the detector has not given alarm for about 3 to 4 secs, the digital display will show present environment temperature again.
6. You can use the detector with an earphone. After you insert the earphone's plug into the earphone jack on the detector, the built-in buzzer will be disabled. If the audio alarm function is enabled ("  " is displayed), you can hear audio alarm through the earphone when the detector detects metal.
7. After the detection finishes, turn off the detector.

Warning:

1. To avoid damage to the detector or battery, do not use or store the detector and battery in high or cold temperatures.
2. Handle the detector gently and carefully. Dropping and bumping can damage the battery, the circuit and the case, and may cause the detector to malfunction.

ADJUSTING THE SENSITIVITY

The detector has been set to the optimum sensitivity level for most security scanning applications at factory. You can adjust the sensitivity level for special applications, which require higher or lower sensitivity.

To adjust the sensitivity:

1. Turn on the detector.
2. Refer to Figure 5, locate the Sensitivity Adjuster.
3. Prepare a suitable metallic object which is to be used as a test object.

Gently place the tip of a suitable screwdriver onto the Sensitivity Adjuster. Then turn the screwdriver slowly until its tip fits the slot of the Sensitivity Adjuster.

Adjust the Sensitivity Adjuster for the desired sensitivity.

(Turning it clockwise increases the sensitivity, while turning it anticlockwise decreases the sensitivity. If the sensitivity is set too high, the detector may give alarm wrongly and you should

decrease the sensitivity appropriately.)

Each time you finish a sensitivity adjustment, move the detector to the test object to verify the detector's sensitivity. If the detector does not give alarm when moved to the test object, adjust the Sensitivity Adjuster again. Keep trying until the detector can give alarm at a desired distance from the test object when you move the detector to the test object.

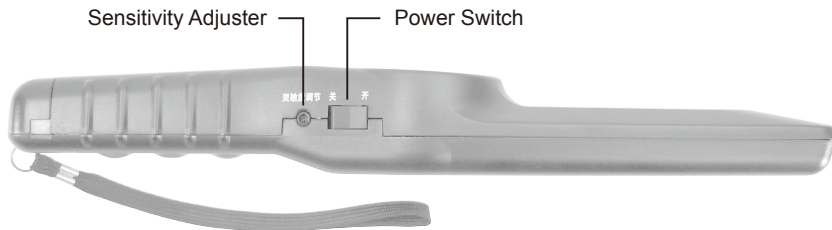


Figure 5

MAINTENANCE

1. Keep the detector dry. If liquid enters the case or the battery compartment, the battery may be shorted, and as a result the battery may explode.
2. Use and store the detector and battery only in the specified temperature ranges; otherwise the life of the detector will be shortened and the battery may explode.
3. Keep the detector clean. Dirt can deteriorate components.
4. Clean the detector with a soft cloth periodically. Do not use abrasive or solvent.
5. Do not modify (or tamper with) the detector's internal circuit or component; otherwise the detector may malfunction, the performance of the detector may decrease, or the battery may be shorted and explode.

SPECIFICATION

Sensitivity	A 25-cent coin (USD)	60mm (15mm*)
	Iron pipe of Ø20mm	100mm (30mm*)
Quiescent Operating Current		< 20mA
Battery		9V 6F22 battery, or 7.4V lithium battery
Operating Frequency		about 17kHz
Tuning		Automatic
Alarm		When the detector detects metal, the backlight will turn from green to red, meanwhile the detector will sound and/or vibrate depending on the alarm setting.
Operating Temperature		operating temperature: 10°C to 40°C relative humidity: < 75%
Storage Temperature		operating temperature: -10°C to 50°C relative humidity: < 75%
Size		370×78×38mm
Weight		about 330g (including battery)

* With reduced sensitivity by pressing and holding the Locating Button.

Note: Specifications are typical values and may be changed without notice.

ACCESSORIES

Manual: 1 piece

Test Lead: 1 pair

NOTE

1. This manual is subject to change without notice.
2. Our company will not take the other responsibilities for any loss.
3. The contents of this manual can not be used as the reason to use the detector for any special application.

DISPOSAL OF THIS ARTICLE

Dear Customer,

If you at some point intend to dispose of this article, then please keep in mind that many of its components consist of valuable materials, which can be recycled.

Please do not discharge it in the garbage bin, but check with your local council for recycling facilities in your area.



