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PMD64 PINPOINTER MANUAL



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PINPOINTER MANUAL

Thank you for choosing our PINPOINTER.

The **PINPOINTER** is designed to determine the position of the metal object precisely and it can be used with the search coil metal detector. When the metal detector finds buried metal objects it only determines the position. In addition, small metal objects are hard to find since it is often oxidized and combined with sediments. This makes it difficult to distinguish.

The pinpointer adopts the advanced one-button design. It's very simple and suitable for all kinds of complex environment like heavily mineralized soil or saturated sand with salt water. The mining environment is often complex and has a lot of interferences that affects the positioning accuracy. The pinpointer will balance interferences in the surrounding environment automatically to improve the positioning accuracy. During the process, if the environment is changed or the pinpointer is influenced by the magnetic field, or when sensitivity is dropped in the electromagnetic field the pinpointer will have a new balance to maintain the effective detection sensitivity.

The pinpointer has two kinds of alarm signals which are vibration and LED to indicate the existence of metal objects. When the front of the probe rod approaches the metal object, the unit will vibrate at the same time and the LED will glow in the order of red, green, blue and white light.

- Red light indicates the pinpointer approaches metal objects. It will change from red, green and blue then to frequent vibration indicating the metal object is nearby.
- White light will glow when the distance is nearest. The white LED in front of the pinpointer can provide illumination in dark environment or underwater to help to look for metal objects.

The pinpointer is waterproof and works under the water depth not more than 10 meters. The pinpointer uses a 9V alkaline battery. When the voltage is low the LED will flash all at once. This sends a signal to change the battery. The pinpointer is an effective tool for DIY in the home. You can search and locate metal pipes, wires, reinforced concrete, and control boxes in small spaces such as walls and ceilings. It also can look for metal screws and thumbtacks at home, and jewelry that you lost, etc...

Specification

Operation Frequency: about 12 KHz

Target Indication: four colors LED and Vibration

Pinpoint Signal Strength: four colors LED (red/green/blue/white)

Waterproof Grade: IP68. The water depth is not more than 10 meters

One-button Operation

Automatic Shutdown

Power supply: 1x9V alkaline (not included)

Low Battery Indication: about 6.8V

Operating Temperature: 0-104°F

Size: Ø4.6cmx28cm

Net Weight: About 0.25kg

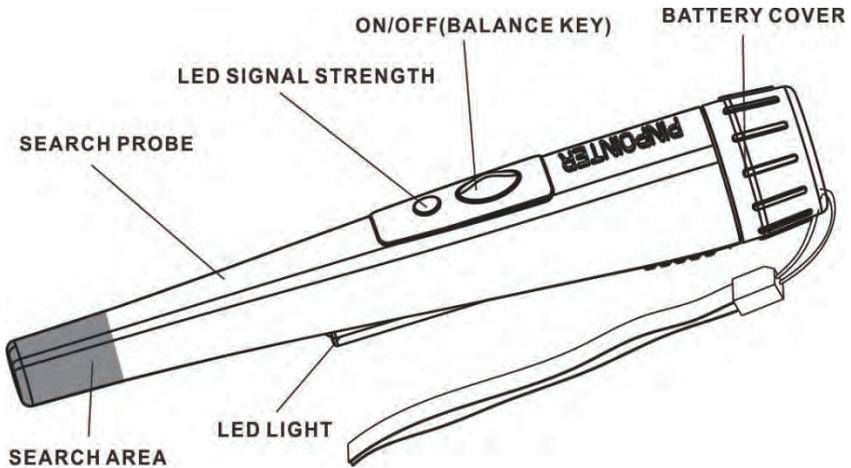


Fig. 1

\Function Introduction

Power Supply/ Balance Switch - the power supply button is used as balance button as well. Press it once and the signal strength LED will flash twice and will vibrate for a short time. Then the white LED will light which means the pinpointer is connected and completed balance state. Press the power supply switch for about 3 seconds. The white LED will disappear and the power supply will turn off.

LED signal strength indication and vibration alarm - When metals are detected, the vibration motor will begin to vibrate while the red signal strengthen LED is light. With the probe's movement it approaches more nearby to metal targets the vibration frequency will be higher. The signal strength LED will light in the order of red, green, blue and white. When it lights until white the motor vibration frequency will be highest.

Illumination LED - After the pinpointer turned on the white LED will light which means the detector is in the work and also can use as a flashlight.

Search Probe - The built in antenna uses for transmitting and receiving signals. A 360 ° degree of 2-3 cm in the head is the higher sensitivity detection section.

Low voltage alarm - When the battery is low LED will flash continuously. It means it is time to change the 9V battery.

Battery and the battery cover - rotate the battery cover counter clockwise to open it and rotate clockwise to fasten it. Use 9V alkaline battery. The alkaline battery can be used for 20 hours. When changing batteries ensure tight connection on batteries and the O-type rubber ring is placed well. Tighten the battery cover to prevent water leak.

Leather cover and wristband - insert the pinpointer into the leather cover. To use easily, put the wristband on the battery cover.

Automatic Shutdown - if you don't operate for 5 minutes it will shut down automatically.

Battery - Please use 9v alkaline battery. Some carbon battery can't provide enough power to pivot the motor and will not be suitable for this machine to use. Please rotate the battery cover counter clockwise to open it .Then please fix 9v batteries in the battery buckle and put into the battery box .Next rotate clockwise to fasten the battery cover.

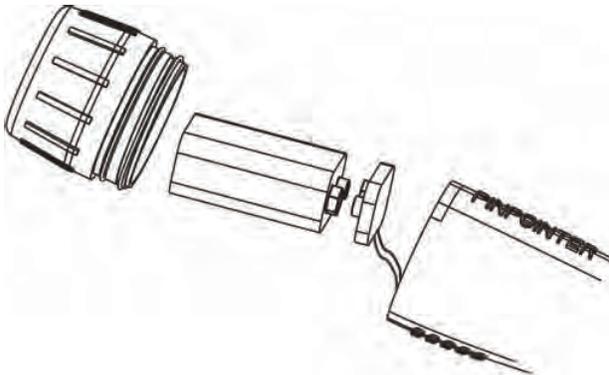


Fig. 2

NOTE: When the white LED flashes continuously it is time to change batteries. Some batteries are not strong enough to pivot the motor and signal same light flashes. This means you need to change the battery as well.

Caution: If you want to dive ensure the battery cover is fastened tightly to protect water leak.

Quick-Start

In order to master the usage of the pinpointer we recommend you to read the quick start carefully and practice it indoors. You should explore treasures outdoors after you have tried to settle into the basic performance.

- 1.Prepare metal samples. This pinpointer is the non-motion metal detector. As long as you're approximate to the target all kinds of metals will respond. You can use 25 dollar coin as sample.
- 2.Please take off your watch, ring and other metal accessories. Keep the pinpointer far away from the wall, the floor and other metal objects and also the electric light, television, computer, mobile phone and other electrical appliances that will cause the electromagnetic interference.
- 3.Put 25 dollar in a plastic or place it on wooden table. There should be no other metals under the table or around the coin in order to avoid the influence of metal. Please set the pinpointer above the coin vertically. (See figure.3)



Fig. 3

- 4.Please turn on the power supply. The signal strength LED will flash two times and will vibrate twice and the LED will light. The unit is balanced automatically. Then it will be in the state of waiting.

Note: Because of the impact of the magnetic field or surrounding electromagnetic field the unit may be self-excitation or decline the sensitivity when you change the position or rotating direction. In this time you should press the balance button lightly to enter a new balance to maintain effective detection sensitivity. Please hold the pinpointer straight downward and balanced it once. Then keep holding as the device approaches the bottom of the coin slowly (see Figure.4). When the distance is within about 3cm the pinpointer begins to response, the motor begin to vibrate, and the red LED will light. If you let the pinpointer approach the coin more, the sensitivity of the motor will make it vibrate frequency and higher. The LED will light in the order of red, green, blue and white .When it lights until white the motor frequency will be at its highest.

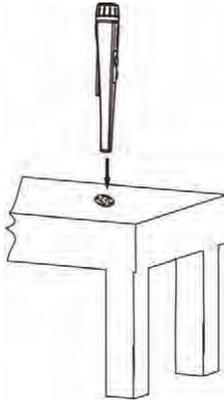


Fig. 4

5. When the white LED just lights and the motor frequency just reaches highest please keep the pinpointer motionless and press the balance button lightly. Then the pinpointer will balance again and the sensitivity will decline. At this time if the LED doesn't light and the motor doesn't vibrate it means the detection range turns smaller.

6. Please let the front head of the probe approach the coin once again and the LED will light and the motor will vibrate, then will detect once again.

7. The function of auto balance is very important. The air balance and the sensitivity will be highest if far away from the metal and ground. If the vicinity of the metal is at a complex detection environment the pinpointer will balance the influence of the environment and reduces the detection range to achieve the accurate positioning.

8. The pinpointer is an effective waterproof device. You can use the pinpointer if need to immerse it in the water.

Field Operation

After you get accustomed to the basic operation of the pinpointer you can carry out field operations outdoors. Because the field exploration is relatively complex, the soil composition of the detection area, the composition, size, shape and degree of oxidation of the underground metal will all affect the detection result. This chapter is just about the general steps of the field detection. The operator needs practice repeatedly to accumulate experience to achieve good results.

1. In general, the pinpointer should be used cooperatively with the scanning metal detector. The general metal detector needs moving to scan with higher sensitivity but the target position is often not accurate, so it is difficult for mining. You can use the pinpointer to determine the exact location of the target.

2.You need to dig a hole after you determine the rough position of the metal detected. Please hold the pinpointer straight downward and balanced it. Then use the probe of the pinpointer to stir the clod you dug out. If the LED light comes on and the pinpointer vibrates at that time it means probably there is the metal target. (See Figure.5).



Fig. 5

3.If the pinpointer won't send out the warning signal you should scan the hole dug out. Please scan the bottom and surround of the hole with the front-end of the pinpointer slowly to determine the position of the target object, and dig again (see Figure.6).

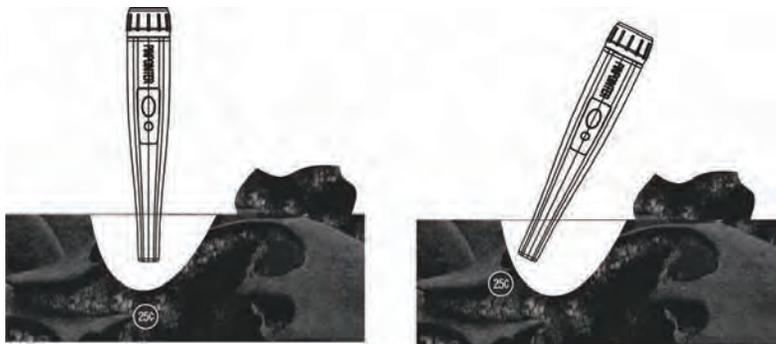


Fig. 6

Reminder: If the site is complex. Once the pinpointer alarms everywhere and appears self-excitation, it should be balance again. You should pay particular attention to the change of LED light color and when it vibrates frequently to determine the position. If the frequency turns higher, the LED glows white light which means the distance to the target object will be close. In order to improve the positioning accuracy you also can detect in the cave after re-balancing.

4.You can be assured that the pinpointer will work well underwater. Ensure that the depth is not more than 10 meters.

You should check and make sure to change batteries, the O-type rubber ring on the battery cover is placed well and the battery cover should be fastened tightly.

5.The pinpointer can be used as a non-motion metal detector that can be used at home. It cannot distinguish all metal types but only can find whether there are metals. You can scan on the wall, ceiling and plaster both to find and to detect the position of the screw, metal pipe, switch box and other metal objects.

PARTS LIST

Order Number	Name	Quantity	Order Number	Name	Quantity
1	Battery Cover	1	7	Magnetic Rod	1
2	O-typed Rubber sealed Ring	2	8	Battery	1
3	Round Plastic case	1	9	Battery Elevator	1
4	Battery Buckle	1	10	PCB	1
5	LED	1	11	Switch	1
6	Lighten LED	1	12	Magnetic Rod Frame	1

