SUNPOW NX-GD02

SUNPOW Pinpointer Metal Detector NX-GD02 User Manual

Model: NX-GD02

1. INTRODUCTION

The SUNPOW Pinpointer Metal Detector NX-GD02 is a versatile and robust tool designed for efficient metal detection. Featuring advanced technology, a rechargeable battery, and a durable waterproof design, it is suitable for both adults and children engaging in activities such as archaeology, exploration, and construction. This manual provides detailed instructions for the proper use, maintenance, and troubleshooting of your device.

2. PRODUCT OVERVIEW AND FEATURES

The NX-GD02 Pinpointer is engineered for precision and durability, offering a seamless metal detection experience. Key features include:

- **Rechargeable Li-ion Battery:** Equipped with an 800mAh lithium-ion polymer battery, providing an extra-long runtime of 12 to 15 hours on a single charge. This ensures extended use for uninterrupted treasure hunting.
- **One-Click Operation & 360° Omnidirectional Detection:** Easily powered on with a single click, the device offers a 360° side-scan capability. It can detect all types of metals, including gold, platinum, nickel, copper, and iron, and is effective up to a depth of 10 inches (25 cm) underwater.
- **IP68 Waterproof Design & High-Strength Materials:** The body is constructed from an excellent blend of PP (polypropylene) and glass fibers, ensuring exceptional durability. This unique material combination allows the product to effectively withstand impacts, friction, and scratches during daily use, maintaining its appearance and stable performance long-term.
- **Three Feedback Modes:** Offers three distinct feedback modes: audio, vibration, and audio + vibration. Users can customize their detection experience based on the environment and personal preference, ensuring no target is missed.
- **Simple One-Button Control:** The intuitive single-button design simplifies powering on/off and switching between detection modes, ensuring straightforward and stress-free operation.
- **Integrated LED Light:** Provides illumination for low-light conditions or dark search areas.
- **Precise Scale Display:** Features a visual scale to indicate proximity to the detected object.

Figure 2.1: The SUNPOW Pinpointer Metal Detector NX-GD02, shown with its included lanyard, holster, and USB charging cable.

Figure 2.2: Illustration of the pinpointer's extended battery life, demonstrating use from morning to night. The device offers 15 hours of continuous operation on a single charge.
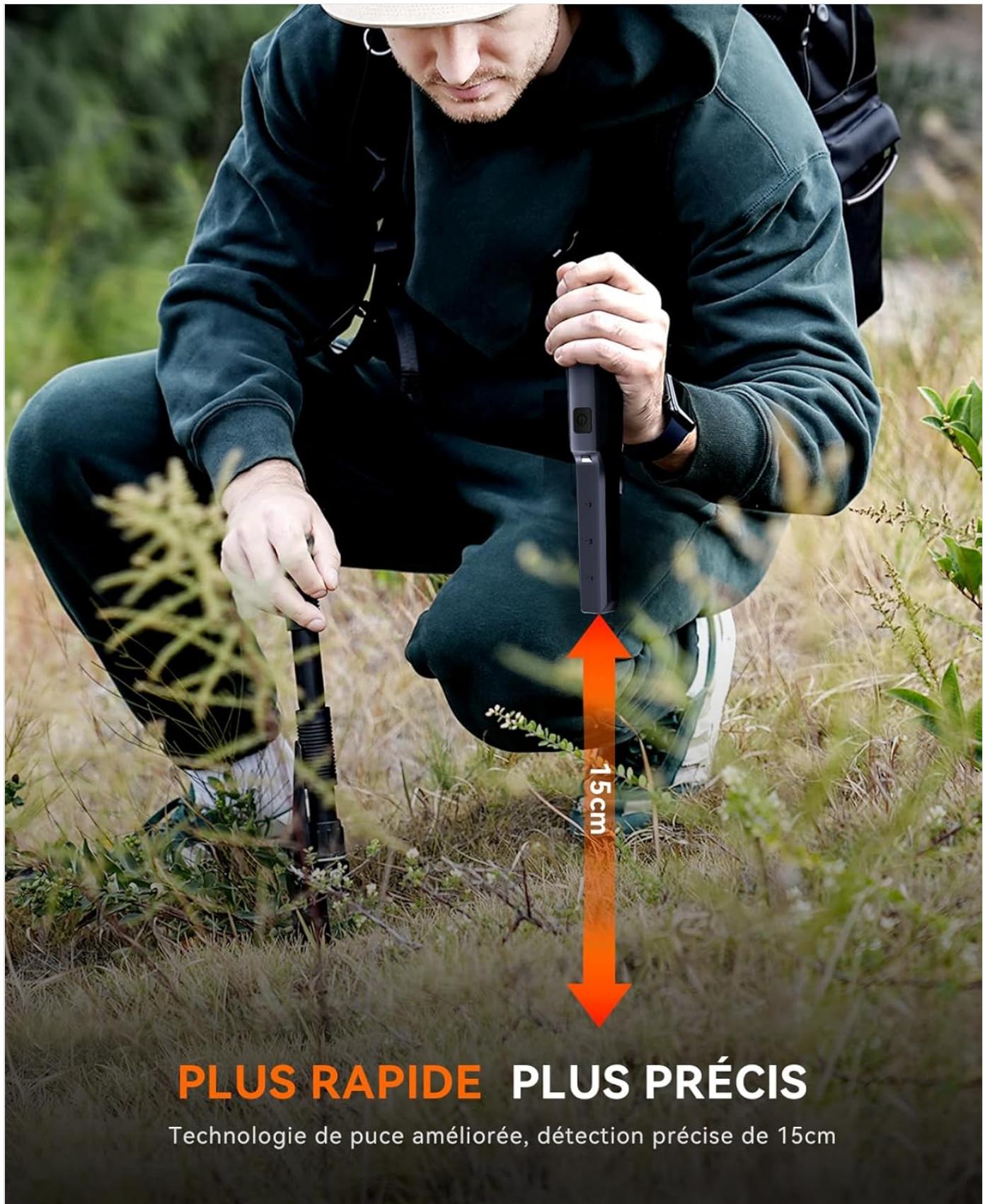
Figure 2.3: The pinpointer demonstrating its precise detection capability up to 15cm (approximately 6 inches) depth, highlighting its improved chip technology for faster and more accurate target identification.

Figure 2.4: Detailed view of the pinpointer's features, including its 360° detection capability, simple one-click power button, integrated LED light for visibility, and the precise scale display indicating signal strength.

Figure 2.5: The pinpointer in an outdoor setting, emphasizing its robust construction designed to withstand various environmental conditions and impacts, functioning reliably between -10°C and 40°C.

Figure 2.6: The pinpointer partially submerged in water, demonstrating its IP68 waterproof rating, which allows for precise detection up to 3 meters (10 feet) underwater.

3. SETUP

3.1 Charging the Battery

Before first use, fully charge the pinpointer's internal lithium-ion battery. Use the provided USB charging cable and connect it to a standard USB power adapter (not included) or a computer USB port.

1. Locate the charging port cover on the device.

2. Carefully open the cover to expose the USB charging port.

3. Insert the small end of the USB cable into the pinpointer's charging port.

4. Connect the larger end of the USB cable to a power source.

5. The charging indicator (if present, refer to device display) will show charging status. Once fully charged, disconnect the cable and securely close the charging port cover to maintain IP68 waterproofing.

3.2 Attaching Accessories

The pinpointer comes with a lanyard and a holster for convenient carrying and use.

- **Lanyard:** Attach the lanyard to the designated loop on the pinpointer to prevent accidental drops, especially when working near water or in dense terrain.

- **Holster:** Slide the pinpointer into the provided holster. The holster can be attached to a belt or backpack strap for easy access during detection activities.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

The NX-GD02 features a simple one-button control for power and mode selection.

- **To Power On:** Press the power button once. The device will activate, and the LED light may illuminate.

- **To Power Off:** Press and hold the power button for a few seconds until the device powers down.

4.2 Selecting Detection Modes

The pinpointer offers three feedback modes to suit different environments and preferences:

- **Audio Mode:** Ideal for quiet environments like parks and lawns, providing clear and precise audio feedback.

- **Vibration Mode:** Suitable for nighttime or underground detection, offering low noise and vibration feedback to avoid disturbing others.

- **Audio + Vibration Mode:** Combines both audio and vibration feedback, useful for noisy environments or when maximum feedback is desired.

To switch between modes, briefly press the power button while the device is on. Each press will cycle through the available modes.

Figure 4.2: The pinpointer operating in Vibration Mode, ideal for discreet detection.

Figure 4.3: The pinpointer operating in Audio + Vibration Mode, providing comprehensive feedback.

4.3 Detection Technique

The pinpointer is designed for precise target location after a larger metal detector has identified a general area.

- **Scanning:** Hold the pinpointer with the tip pointed towards the ground or area of interest. Move it slowly over the surface. The 360° detection field allows for scanning from all sides.

- **Pinpointing:** Once a signal is detected, narrow down the search area by moving the pinpointer in a cross-hatch pattern. The signal strength (indicated by audio pitch, vibration intensity, and the visual scale on the device) will increase as you get closer to the target.

- **Depth Indication:** The visual scale on the device provides an approximate indication of the target's depth or proximity.

- **Using the LED Light:** If working in dark or confined spaces, press the power button briefly (if it's a separate function, or cycle through modes until light activates) to turn on the integrated LED light for better visibility.

Figure 4.4: Examples of common uses for the pinpointer, including searching for lost precious metals, finding nails in wood, and locating rings in grass.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your SUNPOW Pinpointer.

- **Cleaning:** After each use, especially in dirty or wet conditions, wipe down the device with a damp cloth. For stubborn dirt, a mild soap solution can be used. Ensure the charging port cover is securely closed before cleaning with water. Do not use abrasive cleaners or solvents.
- **Battery Care:**
  - Avoid completely draining the battery before recharging.
  - If storing the device for an extended period, charge the battery to approximately 50% and recharge every 3-6 months to prevent deep discharge.
  - Use only the provided charging cable or a compatible USB cable.
- **Storage:** Store the pinpointer in a cool, dry place away from direct sunlight and extreme temperatures. Keep it in its holster or a protective case when not in use to prevent scratches and damage.
- **Waterproof Seal:** Regularly inspect the charging port cover and any other seals for signs of wear or damage. Ensure they are clean and properly seated before submerging the device in water.

6. TROUBLESHOOTING

If you encounter issues with your SUNPOW Pinpointer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on.	Battery is drained.	Charge the battery fully using the provided USB cable.
No detection or weak signal.	Incorrect mode selected; target too deep; interference.	Ensure correct mode (Audio, Vibration, or both) is selected. Move closer to the target. Move away from large metal objects or strong electromagnetic fields.
Audio feedback is too low.	Environmental noise; user preference.	Switch to Vibration or Audio + Vibration mode for additional feedback. Use in quieter environments if possible.

Problem	Possible Cause	Solution
Button triggers too easily / Device turns on accidentally.	Sensitive button design.	Be mindful of how the device is handled and stored. Use the holster to protect the button when not in active use.
Water leakage (if submerged).	Charging port cover not sealed properly; damaged seal.	Ensure the charging port cover is completely and securely closed before submerging. Inspect seals for any damage. If damaged, discontinue use in water.

If the problem persists after trying these solutions, please contact SUNPOW customer support for further assistance.

7. SPECIFICATIONS

Feature	Detail
Model Number	NX-GD02
Dimensions (L x W x H)	25.4 x 4.2 x 4.2 cm (10 x 1.65 x 1.65 inches)
Weight	300 Grams (0.66 lbs)
Battery Type	800mAh Rechargeable Lithium Metal (included)
Battery Life	12-15 hours (typical)
Waterproof Rating	IP68 (up to 3 meters / 10 feet underwater)
Material	PP (Polypropylene) and Glass Fiber blend
Power Source	Electric Cable (USB charging)
Detection Modes	Audio, Vibration, Audio + Vibration
Detection Depth	Up to 10 inches (25 cm)
Display Type	LED (for signal strength and light)
Recommended Uses	Archaeology, Exploration, Construction
Operating Temperature	-10°C to 40°C

8. WARRANTY AND SUPPORT

Information regarding specific warranty terms for the SUNPOW Pinpointer Metal Detector NX-GD02 is not provided in this manual. For warranty details, product support, or any inquiries not covered in this guide, please contact SUNPOW customer service directly through their official website or the retailer from whom you purchased the product.
Always refer to the latest information provided by the manufacturer for the most accurate and up-to-date support.
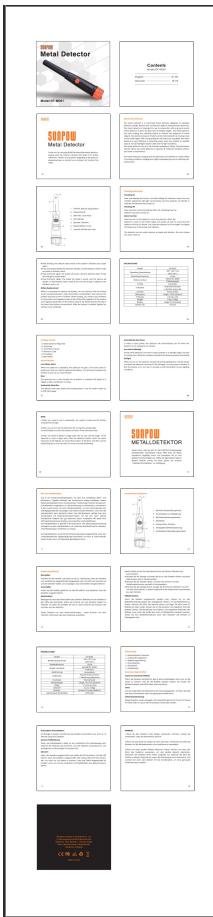
Related Documents - NX-GD02

Thank you for choosing **MD-620** metal detector. Please read the owner's manual carefully before operating the metal detector. Save this manual for future reference. If you have any poblems and questions, please contact us.
Email US:sunpow.service@hotmail.com
Email UK:sunpow.eu@outlook.com

—01—

TABLE OF CONTENTS

—02—

FEATURES

With your MD - 620 metal detector, you can hunt for coins, jewelry, gold, and silver anywhere. The detector comes with high sensitivity and strong ability of discrimination. It is versatile and easy to use.

•**LCD Display:**Shows the probable type of metal, the signal intensity, the range of DISC & NOTCH, the level of SENS and VOLUME , and battery condition.It also shows numeric display for target.

•**Three Tone Audio Discrimination:**Sounds three distinctive tones (high, medium and ow) for different types of metal.

•**Notch:**Ignores junk metal and finds valuable items by setting the notch range.

•**DISC:**Discriminates the unwanted target by setting the DISC numeric range. The detector will not detect the target beyond the numeric setting.

•**Pinpoint:**Pinpoints the location of the target accurately.

•**Super Slow Sweep Identification:**With a very slow sweep of the search coil to discriminate different types of metal.

•**Headphone Jack:**Connect headphones of 3.5mm and operate without trouble.

•**Waterproof Search coil:**Use the detector even if you must put it under shallow water.

•**Adjustable Shaft:**Adjust the length of shaft for comfortable use.

•**Power:** Your metal detector requires two 9-volt alkaline batteries.

—03—

PREPARATION

STEP 1. Your MD-620 detector requires no assembly or tools. Simply removes the detector from the box.

Remove the fixing strap

—04—

STEP 2. Turn the detector 180 degree as shown in the figure.

STEP 3. Press down the UNLOCK button to release the handle

Press the lock button

—05—

STEP 4. Slide out the armrest to the desired length (typically just under your elbow). And fully extend the lower shaft to the desired

under your elbow). And fully extend the lower shaft to the desired length for your height.

•Please use two 9V alkaline battery.
•Open the battery cover and install the battery according to the polarity sign in the battery box.
•Warning:Dispose of old batteries promptly and properly. Never bury or burn them.
Cautions:
①Do not mix the old and new batteries or different types of batteries.
②Use only fresh alkaline batteries of required size.
③If you don't plan to use the unit for a week or more time, remove the batteries.Batteries can leak chemicals that can destroy electronic parts.
④If the battery indicator on the LCD lights up, repace the battery.

—06—

USING HEADPHONES

•It is recommended to choose the headphones with volume control.
•Insert the headphones' 3.5mm plug into the PHONE jack. At this time the internal speaker disconnects.

Listening Safely
①To protect your hearing, set the volume to the lowest setting.
②Before you begin listening,adjust the volume to a comfortable level.
③Do not listen at extremely high volume levels.Extended high volume listening can lead to permanent hearing loss.
④Do not wear headphones while operating your detector near high traffic areas. Pay attention to traffic safety.

INSTRUCTIONS FOR CONTROL PANEL

POWER   BACKLIGHT

1.POWER SWITCH
Press the power switch to turn on/off the detector.

—07—

2.LCD DISPLAY

Target numeric indicator
Low BATT indicator
DISC/NOTCH indicator
DISC numeric indicator
SENS/SIGNAL indicator
MENU CONTENT

3.CONTROL BUTTONS
•MENU: Press MENU,LCD will display VOLUME, SENS, DISC, NOTCH.
•VOLUME: Press MENU to select VOLUME. Then press-or-to adjust the level (0-4) of VOLUME.The level will be displayed on the LCD.
•SENS: Press MENU to select SENS. Then press-or-to adjust the level (2-8) of sensitivity.The level will be displayed on the LCD.
•DISC: Discriminates the unwanted target by setting the numeric range. Press MENU to select DISC. Then press-or-to adjust the numeric range of discrimination. The number will be displayed on the LCD.
•NOTCH: Eliminates the target you don't want. Press MENU to select NOTCH.Then press-or-to select the target to be notched.The cursor around the selected target will flash.Press ENTER again, the target name inside the cursor will disappear.
•PINPOINT: Pinpoints the location of the target accurately

—08—

4.BACKLIGHT SWITCH
Press the backlight switch to turn on/off the backlight of the detector.
5.MEMORY
The detector will memorize all the settings before power is off.

TARGET INDICATIONS

1.Numeric ranges of target:

-IRON	00-10
-5¢	11-25
-P-TAB	26-40
-1¢	41-60
-10¢	61-80
-25¢	81-99

Note:There are a wide variety of metals and no target can be identified for certain until unearthed. This table is for general reference only.
2.Types of target
-IRON:It indicates that the target is probably iron.
-5¢:It indicates that the target is probaby 5¢ or a nickel. Some one1 go1d rings might register within this range.
-P-TAB:It indicates that the target is probably a pull tab of an aluminum can.Some small gold rings might register within this range.
-1¢:It is indicated that the target is probably a coin of 1¢ or type of metal of zinc alloy.Some medium sized gold rings might register within this category.
-10¢:It indicates that the target might be a coin of 10¢. Some large rough gold items might register within this category.
-25¢:It indicates that the target is probably 25¢ or a silver coin.

—09—

3.Tones
The detector comes with three tones for different types of metal. But the built in audio identification system sounds a unique tone for each of three categories of metal. This makes it easier to identify the metal being detected.
A low tone is for IRON, 5¢, same as for foil, bottle cap or nickels.
A medium tone is for P-TAB, ZN, 1¢(aluminum pull tabs, zinc or copper items). A high tone is for 10¢,25¢,same as for brass or silver items.

INDOOR TESTING AND USE

1.Press the power switch to turn on the detector.
2. Setting the mode:
①.DISC:Press MENU to select DISC, then set the DISC numeric value. If the DISC value is set to "00", the detector can detect all kinds of metal. In this case, when the detector finds a target, the cursor around the target will light up. If you don't want to find the target listed on the LCD, you can press-or-to set the relative numeric range of DISC.
For example, the numeric target range for 5¢ is 11-25, you can simply press MENUS to select DISC, then press-or-to set the DISC value to "28". In this case, the numeric range is beyond 5¢.The detector will not have response to it. Neither will the detector have response to iron. Because the target numeric range for iron is 0-10.
②NOTCH:Press MENU to select NOTCH, then press-or-to select the target to be notched. The cursor around the selected target will flash. Then press ENTER , the target will disappear.(If ENTER is not pressed within few seconds, the detector will enter standby state.) It means this target have been notched. If you want to pick up the target that notched, press ENTER again and the target will be shown.
Note:It is not recommended to notch all targets listed on the LCD. Because if you notch everything, you can't find anything.

—10—

3. Press MENU to select SENS, then press-or-to set the sensitivity.
4.Place the detector on a wooden or plastic table, then remove watch, ring, or metal jewelry you are wearing.
5.Adjust the search coil so that it points flat to the ceiling. (As picture shown)

Note:Never test the detector on a floor inside a building. Most buildings have metal in the floor, which might interfere with the objects you're testing or mask the signal completely.
6.Slowly sweep a sample of the material you want the detector to find (such as a gold ring or a coin) to 2-3 inches or more above the face of the search coil.When the detector detects any metal, it sounds a tone and the cursor around the target will light up. Also LCD displays the numeric value of target and the signal strength of it. Please note that the signal strength is only a reference.
Note:
If you are using a coin, make the side of the coin is parallel to the side of the search coil, so that the detector will detect the coin more easily. Sweeping the side of the coin over the search coil may cause false indications and unstable target display.
7. PP(PINPOINT)
After you find a metal object, you can use PP to pinpoint the target. Press the PP button and slowly move the search coil

—11—

above the sound area.The detector sounds and the signal indicator on the LCD displays the level of signal. Then press PP button again to release the PP. Sweep the search coil again, keeping the same distance of search coil, sound disappears. Press PP button again.coser the search coil to the sound area, the detector sounds again. Repeat the above steps until the detector displays the stronger signal where the location of the target is.
Note: To find the exact location of target, you need to practise more times.

OUTDOOR TESTING AND USE

1.Press the power switch to turn on the detector
2.Follow the steps of 2 described in section of Indoor Testing and Use to set the operating mode
3.Find an area on the ground outside where there is no metal.
4.Place a sample of the material that you want the detector to find (such as a gold ring or a coin) on the ground.
5.Hold the search coil to the ground about 1-2 inches above the surface and then move the search coil over the area slowly where you placed the sample and sweeping the search coil in a side-to-side motion.

Search coil Sweeping Hints:
•Never sweep the search coil as if it were a pendulum. Raising the search coil while sweeping or at the end of a sweep will cause false readings.

Correct   Wrong

—12—

•Sweep slowly, hurrying will cause you to miss targets.
•It's better you sweep the search coil from side to side in an arc line of 3 inches motion and keep the search coil parallel with the ground.
•If the detector detects the item, it sounds a tone, and the cursor around the target name will light. Also LCD displays the numeric range of target as well as the signal strength.
•If the detector does not detect the item, make sure that the mode is set correct,y for the type of metal you're searching for. Also make sure that you're moving the search coil correctly.

Notes:
•The detector responds with a signal when it detects most valuable metal objects. If a signal does not repeat after you sweep the search coil over the target a few times, the target is probably junk metal.
•False signals can be caused by trashy ground,electrical interference, or large irregular piece of junk metal.
•False signals are usually broken or non-repeatable.

Adjusting SENSITIVITY
After you become familiar with how your detector works, it's important to fine-tune the sensitivity to get a good result.
Press MENU to select SENS. Then press or to increase
—or—decrease the sensitivity. The level will be displayed on the LCD.
Note:
The sensitivity of the machine is set to medium and low sensitivity at the factory. You need to adjust the sensitivity for the first detection. This machine has a memory function. It will continue the last setting when it is turned on again.
When the machine is in the detection mode or is disturbed, the machine will turn on the self-protection function

—13—

and cannot switch the function by pressing the button. You can release the self-protection state by changing the working state, stay away from the interference area or reduce the detection sensitivity.Then the button switch function will return to normal.

Using Backlight

In dark area, you can use Backlight for better searching. Press backlight button to turn on the backlight
Note: As the backlight consumes more power, we suggest you turn off the backlight in normal environment.

Factors that Affect the Detecting

It's difficult to have an accurate detecting result. Sometimes the detecting may be restricted by some factors.
• The angle of the target buried in the soil.
• The depth of the target.
• The level of oxidization of the target.
• The size of the target.
• Electromagnetic and electrical interference surrounding the target.
In an area of highly mineralized ground,or fertile ground,or wet sand, the detector wil sound over if there is no metal.In this case,you can lower the sensitivity or increase the DISC numeric value. Meantime enhance the distance between the search coil and the ground. In area with trashy metal, you can set the DISC numeric value to 50. In this case most nails and small pieces of iron will be eliminated.

—14—

Troubleshooting Guide

Problem	Reason	Suggestion
	1:The detector may receive	

[SUNPOW Foldable Metal Detector User Manual](#)

This document provides instructions and specifications for the SUNPOW Foldable Metal Detector for Adults, a professional, waterproof, and adjustable metal detector with an LCD display, 11-inch search coil, and 5 modes.

Comprehensive user manual for the SUNPOW OT-MD03 Metal Detector. Learn how to use this high-accuracy device, featuring an LCD display, pinpoint function, DISC mode, and a waterproof search coil, for metal detecting adventures.
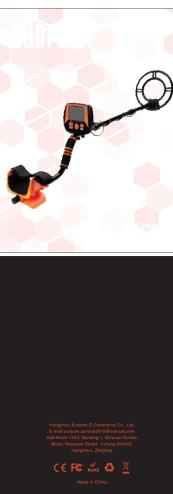
FEATURES

• **LCD Display:**Shows the probable type of metal, the depth of the target, range of DISC, NOTCH, the level of SENS, VOLUME and battery condition. It also has digital display for target ID.
• **Backlight:**For better use in dark areas.
• **Five Control Buttons:**
①POWER: Turns on or off the power.
②MENU: Press it to select desired operation mode and the setting of SENS and VOLUME.
③INCREASE (+): Increase the level of sensitivity or volume and the range of DISC (discrimination) or NOTCH.
④DECREASE (-): Decrease the level of sensitivity or volume and the range of discrimination or NOTCH.
⑤PINPOINT: Pinpoints the location of the target accurately.
• **Three Tone Audio Discrimination:**Sounds three distinctive tones (high, medium and low) for different types of metal.
• **Headphone Jack:**Lets you connect headphones of 3.5mm and operate without trouble.
• **10 Inch Waterproof Search coil:**Lets you use the detector even if you must put it under shallow water.
• **Adjustable Shaft:**Lets you adjust the length of shaft for comfortable use.

EASY ASSEMBLY

Assembling your metal detector is easy and requires no special tools. Just follow these steps:
1.Put the washers into the groove of the lower stem. Then using the supplied bolt and knob, attach the search coil to the lower stem.

2.Press the button on the upper end of the lower stem and slide the lower stem into the middle stem. Then tighten the lock nut on the middle stem.

3.Press the button on the middle stem and slide the middle stem into the S stem. Then tighten the lock nut on the S stem.

4.Press the button on the top stem, and slide the top stem into the S stem.Adjust the stem to a length that lets you maintain a comfortable upright posture, with your arm relaxed at your side.

5.Fix the control box on the S stem and tighten the fixing screw properly.

6.Wind the search coil cable around the stem. Insert the cable plug into the jack at the back of the control box.
Caution:
• **Do not over-tighten the search coil or use tools to tighten it.**
• **Do not force the plug in. Excess force will cause damage.**
• **To disconnect the cable, pull out the plug. Do not pull on the cable.**

INSTALLING THE BATTERIES

IMPORTANT:
• Always use ALKALINE batteries for optimal performance.
• Always remove the batteries for prolonged storage.
• DON'T use carbon batteries.
• DO NOT MIX OLD AND NEW BATTERIES.
• CHECK THE BATTERIES if your detector exhibits any of the following symptoms:
① The unit does not turn on.
② Low speaker volume.
③ Unit beeps continuously at low sensitivity setting.
Follow these steps to install the batteries.
1.Turn off before installing the batteries.
2.Take off the battery cover.
3.Place two 9V alkaline batteries into the battery compartment matching the polarity symbols (+ and -) marked inside.
**Warning:**
•**Dispose of old batteries properly. Never bury or burn them.**

USING HEADPHONES

1.It is recommended to choose the headphones with volume control.
2.Insert the headphones' 3.5mm plug into the headphone jack at the bottom of the control box. At this time the internal speaker disconnects.

LAYOUT OF THE CONTROL PANEL

TARGET ID
TARGET DIGITAL ID
COIN DEPTH Indicator
MENU Indicator
LOW BATT Indicator
MENU
INCREASE
POWER
PINPOINT
DECREASE

LCD DISPLAY

Target ID DISC/NOTCH range
MENU indicator
DEPTH Indicator
Target Digital ID /SENS /VOLUME level indicator
Battery indicator
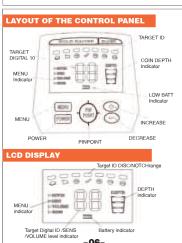
1.Target ID indications

Metal range	IRON	GOLD RANGE					SILVER RANGE			
Target	Bottle cap	Foil	5c	1c	10c	25c	25c+			
Tone	Low	Medium	Medium	Medium	Medium	High	High	High		
ID Display										
Digital value	1-19	20-29	30-39	40-49	50-59	60-69	70-79	80-99		

2.SENS (Sensitivity): Adjust the sensitivity from 1 to 10. The higher the number, the more sensitive the detector. This sensitivity control does not affect Pinpoint sensitivity.
If the detector beeps erratically or beeps when there are no metal objects being detected, reduce the sensitivity.
Note: Cell phones, cell phone towers, etc…all produce interference signals and will cause the detector to beep when no metal is present, and sometimes to beep erratically.
3.VOLUME :Adjust the volume level from 0 to 10.
4.DISC: Discrimination is an important feature of professional metal detectors. It allows user to ignore trash and unwanted objects.
The **DISC** control is Discrimination function of the detector. In its default setting, all metals are detected. Use this DISC function in order to eliminate unwanted types of metals from detection. You only need to eliminate the targets in order.Each time you press "+" button, a

target will disappear. The target disappears means that category is eliminated from detection. To pick up the eliminated target category, press "-" and categories will be accepted back in order.
Notice: The two targets on the right cannot be eliminated. These two targets represent silver or other high value targets, which are generally desirable. So the detector does not allow them to be discriminated out.
5.NOTCH: It is similar to Discrimination （DISC）.It allows you out of turn to accept or reject different types of metals .The DISC can only accept or reject metals in order.
The NOTCH Mode is only applicable in FOIL, 5c, ALUM, and 1c these four categories.
Press "+" or "-" to a new category. The target ID will flash for 3 seconds and then it will change to the opposite state. Or press MENU while the target ID is flashing,and then it will change to the opposite state. If the target had been illuminated previously and disappears now indicates that the target has been eliminated from detection. As same, the target disappeared before and illuminates now indicates that target is notched in or can be detected.

Owner's manual for the SUNPOW GC-1083 Metal Detector, covering features, assembly, battery installation, control box layout, LCD display, control buttons, testing, outdoor detecting, pinpointing, troubleshooting, and maintenance.

CONTROL BUTTONS

MENU INCREASE
POWER DECREASE
PINPOINT

• **POWER:** Press the button to turn on the detector. Press it again to turn off the detector.
• **MENU:** Press MENU to make it active and select operation mode(NOTCH or DISC), set SENS or VOLUME.
• **INCREASE (+):** Increase the level of sensitivity or volume and the range of DISC (discrimination) or NOTCH.
• **DECREASE (-):** Decrease the level of sensitivity or volume and the range of DISC (discrimination) or NOTCH.
• **PINPOINT:** Press and hold for precision target pinpoint at any time.

TESTIGN THE DETECTOR

1.Supplies Needed:
• A bottle cap (made of iron)   • A quarter (25c)
• A nickel(5c)   • A Penny(1c)
• A Gold Ring   • A dime(10c)

–09–

2.Position the Detector:
① Place the detector on a table with the search coil hanging over the edge.
② Be sure that the search coil is far away from walls or metal objects. Keep the search coil away from any metal in the table.
③ Turn off equipment that may interfere with electromagnetic radiation.
④ Pivot the search coil back.
⑤ Press POWER to turn on.

3.Using ALL METAL Feature:
Wave all objects over the search coil and notice the different tones.

4.Using DISC (Discrimination) Feature:
① Press MENU until DISC is displayed on LCD.
② Press "+" once. The bottle cap(iron) indicator will disappear.
③ Wave the bottle cap. It will not be detected because it has been "discriminated out."

5.Using NOTCH Feature:
①Press MENU until NOTCH is displayed on LCD.
② Press "+"twice, 5c will flash for 3 seconds and disappear that means 5c is "notch out" (eliminated). To eliminate 1c, press"+" until 1c flash and disappear.

–10–

③ Wave 5c or 1c over the search coil. 5c and 1c will not be detected because they have been "notched out"(eliminated). Notice: the target categories disappear on LCD can not be detected.

If you want to pick up the target type you eliminated before, press "+" or " - " to the target, and then wait for the target to flash for 3 seconds, or press MENU button when it is flashing.

6.Using PINPOINT Feature:
① Press and hold "PINPOINT" button, PP will appear on LCD display.
② Hold a coin motionless over the search coil.
③ Sweeping coin over search coil.
④ Notice that the sound changes as the coin moves closer or further.
⑤ Notice that the depth indicator changes as the coin moves up and down.

7.Adjusting SENS(Sensitivity)
① Press MENU until SENS is displayed on LCD.
② Press "+" or"-" to set the SEN. Sensitivity level can be set from 1 to 10.

8.Adjusting VOLUME
① Press MENU until VOLUME is displayed on LCD.
② Press "+" or "-" to set Volume. Volume level can be set from 0 to 10.

OVERLOAD WARNING
If a metal object or highly magnetic soil are too close to the

–11–

search coil, the detector will overload and "- -" will appear on LCD display. The detector will make a rapid, repeating mid-tone warning sound. Overload will not harm the detector, but the detector will not function in these conditions. If overload occurs, keep the search coil away from the target.

Note: There is a wide variety of metals and no target can be identified for certain until unearthed. This table is for general reference only.

OUTDOOR DETECTING

1.Find a place outside where there is no metal.
2.Place a sample you want to find on the ground.
3.Press POWER to turn on the detector.
4.Swing the search coil gently from side to side, slightly overlapping each sweep as you move forward. Keep your search coil approximately 1-2 inches above the ground as you search.

Correct   Wrong

Notes:
• Raising it during the sweep ,or at the ends of your sweep, coin cause false reeadings.
• Move slowly, hurrying will cause you to miss targets.

–12–

• Most desirable objects will respond with a repeatable tone. When discriminating, iron and foil objects generally do not respond.
• False signals can be caused by trashy ground, electrical interference, or by large irregular trash objects. These signals are easily recognized by their often broken or non-repeatable nature.

DETECTING WITH PINPOINT

After you find a target, you can use PP(Pinpoint) to find the exact location of the target as follows.
1.Press and hold PP to activate the Pinpoint feature.
2.Move the search coil slowly across the target, and you can locate it by the sound.

Narrow the Detection Rage:
1.To narrow the response further, position the search coil near the the target.
2.Press PP button and hold, move the search coil slowly.
3.When you hear the sound, you can release the PP.
4.And then press PP to continue the detection. In this way, you can narrow the range of the target.
5.Repeat the above steps.
When the coil moves to the center of the target, the signal from the detector is the strongest.

–13–

Troubleshooting Guide

Problem	Reason	Suggestion
The detector displays or sounds without detecting any target	1.The detector may receive interference and false signals from broadcast antenna and other electronic lines. 2.The humidity of environment may be extremely high.	1.Change searching place. 2.Wait for some time to check again.
The detector sounds false signals	1.Sensitivity set too high/ environmental electromagnetic interference. 2.Sweeping the detector's search coil too fast or at wrong angle. 3.Using 2 detectors in close proximity.	1.Reduce sensitivity. 2.Sweep the search coil more slowly and hold the detector correctly. 3.Keep two detectors at least 4-meters(2ft) apart.
The detector does not detect anything.	1.Sensitivity set too low. 2.Target range is eliminated. 3.Search coil is not parallel to the ground.	1.Increase sensitivity. 2.Recover all target range. 3.Adjust the search coil angel to be parallel to the ground.
LCD display multiple target categories or emits several sounds at once.	1.There may be over one kind of metal targets. 2.The detector can't identify the target. Sometimes, oxidized metal also causes the reduction of target amoe and tone	1.Reduce the sensitivity to eliminate the detection of the deeper target. 2.Sweep the search coil with different angles.
No power, no sound.	1.The pin cable not connected well. 2.Dead Battery.	1.Re-plug it properly. 2.Replace batteries.

–14–

NOTE: IF YOU EXPERIENCE A PROBLEM, PLEASE CONTACT OUR CUSTOMER SERVICE FIRST.
YOU CAN REACH US AT surpow.service2019@outlook.com.
OUR PROFESSIONAL REPRESENTATIVES AND ENGINEERS ARE HERE READY TO HELP?

Care and Maintenance

Our metal detector is an example of superior design and craftsmanship. The following suggestions will help you care for your metal detector so you can enjoy it for years.

Handle the detector gently and carefully. Dropping it can damage circuit boards and cases and can cause the detector to work improperly

Use the detector only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage the cases of the detector

Keep the detector away from dust and dirt, which can cause premature wear of parts.

Wipe the detector with a damp cloth occasionally to keep it looking new.Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the detector

–15–
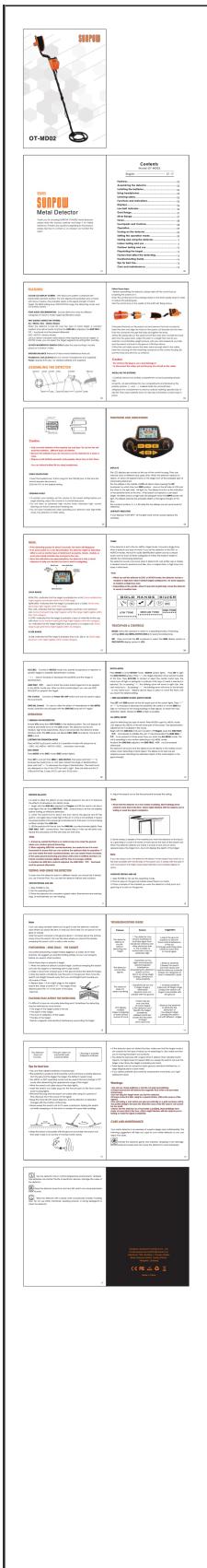
	SUNPOW OT-MD02 Metal Detector User Manual
	Comprehensive user manual for the SUNPOW OT-MD02 metal detector, detailing its features, operation, specifications, and troubleshooting tips for hobbyists and enthusiasts.
	SUNPOW HP1172 Electric Pressure Washer User Manual
	This user manual provides comprehensive instructions for the SUNPOW HP1172 Electric Pressure Washer, detailing safety precautions, product features, assembly, operation, maintenance, and troubleshooting for optimal use.