



velleman CS50 Low-Cost Metal Detector User Manual

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velleman CS50 Low-Cost Metal Detector



Product Information

Product Name: CS50 Metal Detector

Model Number: CS50

User Manual Language: English, Dutch, French, Spanish, German, Polish, Portuguese

Manufacturer: Velleman NV

Power Supply: 1 x 9V battery (6LR61C, not included)

Frequency: 5.5 kHz

Website: www.velleman.eu

Declaration of Conformity: The CS50 Metal Detector complies with Directive 2014/53/EU. The full text of the EU Declaration of Conformity can be found [here](#).

Product Usage Instructions

1. Introduction:

This product is intended for educational purposes only and should be used under the supervision of an adult instructor.

1. General Guidelines:

Follow the guidelines provided in this user manual for proper usage and maintenance of the CS50 Metal Detector.

1. How to Set Up the Metal Detector:

1. Adjusting the Length of the Stem:

1. Turn the nut off the stem clockwise until it loosens.
2. Adjust the length of the stem until you can walk comfortably with the search coil at 0.5 to 2 inches above the ground.
3. Tighten the nut by turning counterclockwise.

2. Adjusting the Position of the Search Coil:

1. Loosen the knobs of the search coil and rotate the unit until it is parallel to the ground.
2. Tighten the knobs to keep the search coil from vibrating or rotating during use.

2. Battery Installation:

Remove the cover of the battery compartment located on the handle and insert a new 9V battery, observing the polarity indications.

1. Operation:

Use the maximum sensitivity point to perform a test on a metal object. The buzzer will beep at maximum volume and the LED will light at maximum intensity when a metal object is detected. Familiarize yourself with the sensitivity of the device by repeating the test with objects of different sizes made of various metals, such as copper, iron, and aluminum. Note that environmental factors can influence the maximum sensitivity position.

1. Tips for Treasure Hunters:

Avoid swinging the detector like a pendulum. Keep a steady and controlled movement while scanning for treasures.

1. Universal Code of Conduct for the Treasure Hunter:

Follow ethical guidelines and consult an expert in case you find an object you cannot define.

1. Cleaning and Maintenance:

The search head of the metal detector is water-resistant, but not waterproof. Rinse the search head with fresh water after using the device in salt water to prevent corrosion. Avoid exposing the device to extreme temperatures as it may cause malfunction.

1. Technical Specifications:

The CS50 Metal Detector operates on a power supply frequency of 5.5 kHz and requires a 1 x 9V battery (6LR61C, not included). Use the device with original accessories only to ensure proper functionality and safety.

Introduction



To all residents of the European Union Important environmental information about this product

This symbol on the device or the package indicates that disposal of the device after its lifecycle could harm the environment. Do not dispose of the unit (or batteries) as unsorted municipal waste; it should be taken to a specialized company for recycling. This device should be returned to your distributor or a local recycling service. Respect the local environmental rules.

If in doubt, contact your local waste disposal authorities

Thank you for choosing Velleman! Please read the manual thoroughly before bringing this device into service. If the device was damaged in transit, do not install or use it and contact your dealer. For educational purposes only – use only under the supervision of an adult instructor.

General Guidelines

Refer to the Velleman® Service and Quality Warranty on the last pages of this manual.

How to Set Up the Metal Detector

Only the length of the stem and the angle of the search coil have to be adjusted. Adjusting the Length of the Stem

Adjusting the Length of the Stem

1. Turn the nut off the stem clockwise until it loosens.
2. Adjust the length of the stem until you can walk comfortably with the search coil at 0.5 to 2" above the ground.
3. Tighten the nut by turning counterclockwise.

Adjusting the Position of the Search Coil

1. Loosen the knobs of the search coil and rotate the unit until it is parallel to the ground.
2. Tighten the knobs to keep the search coil from vibrating or rotating during use.

Battery Installation

Remove the cover of the battery compartment located on the handle and insert a new 9 V battery. Observe the polarity indications

Operation

- The CS50 Treasure Hunter enables you to hunt for coins, jewelry, gold, and silver.
- The LED indicator on the handle will light when a metal object is detected and the buzzer will be activated.
- Hold the CS50 in a comfortable position with the search coil parallel to a surface free of metal objects. Put the adjustable "ON/OFF" sensitivity switch (on the handle) in the position where the LED indicator lights up slightly and the buzzer produces the faintest of beeping sounds.
- This is the "no-metal-detected" threshold position in which the CS50 is at its most sensitive. Rotate the dial even further to enter the "metal-detected" state.
- Use the "maximum sensitivity point" to perform a test on a metal object. The buzzer will beep at max. volume and the LED will light at max. intensity. These elements indicate that a metal object has been detected.
- Place the sensitivity switch exactly between the "no metal detected"-state and the "metal detected"-state. Familiarize yourself with the sensitivity of the device by repeating the test with objects of different sizes made of various metals, such as copper, iron, and aluminum.

Note: The max. sensitivity position will be influenced by environmental factors.

Tips for Treasure Hunters

- Always install the max. sensitivity position when using the device.
- Sweep the metal detector from side to side while maintaining a constant distance between the search coil and the ground. Do not swing the detector like a pendulum.
- Take your time. You may miss a target if you walk too fast.

Universal Code of Conduct for the Treasure Hunter

1. Never search a site without the permission of the owner.
2. Observe all relevant national, regional, and local laws.
3. Do not destroy objects of historical or archaeological value. Contact a museum or a historical society in case you find an object you cannot define.
4. Leave the vegetation of the site intact and fill in any holes you may have dug during your search.

Cleaning and Maintenance

- The search head is waterproof and can be submerged in either fresh or salt water. The handle, however, is not waterproof. Rinse the search head with fresh water to prevent corrosion of the metal parts after using the device in salt water.
- Replace the battery when the buzzer weakens.
- Replace old batteries to prevent leakage.
- Handle the CS50 gently and with care. Dropping it may damage the circuit board or the housing and may cause the device to malfunction.

Technical Specifications

| | |
|---------------------|-------------------------------------|
| power supply | 1 x 9 V-battery (6LR61C, not incl.) |
| frequency | 5.5 kHz |

IMPORTANT: Use this device with original accessories only. Velleman nv cannot be held responsible in the event of damage or injury resulting from (incorrect) use of this device.

NOTE: For more info concerning this product and the latest version of this manual, please visit our website www.velleman.eu. The information in this manual is subject to change without prior notice.

RED Declaration of Conformity

Hereby, Velleman NV declares that the radio equipment type [CS50] complies with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at the following internet address: www.velleman.eu.

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Velleman® Service and Quality Warranty

Since its foundation in 1972, Velleman® acquired extensive experience in the electronics world and currently distributes its products in over 85 countries. All our products fulfill strict quality requirements and legal stipulations in the EU. To ensure quality, our products regularly go through an extra quality check, both by an internal quality department and by specialized external organizations. If, all precautionary measures notwithstanding, problems should occur, please an appeal to our warranty (see guarantee conditions).

General Warranty Conditions Concerning Consumer Products

- All consumer products are subject to a 24-month warranty on production flaws and defective material from the

- Velleman® can decide to replace an article with an equivalent article or to refund the retail value totally or partially when the complaint is valid and a free repair or replacement of the article is impossible, or if the expenses are out of proportion.

- **Not covered by warranty:**

- Made in PRC Imported by Velleman nv Legen Heirweg 33, 9890 Gavere, Belgium www.velleman.eu

Documents / Resources



-  [Velleman â€™ Wholesaler and developer of electronics](#)

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