



Manuals.plus /

› Walfront /

› Walfront Handheld Metal Detector GC-101H User Manual

## Walfront GC-101H

# Walfront Handheld Metal Detector GC-101H User Manual

Model: GC-101H

## 1. INTRODUCTION

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This manual provides comprehensive instructions for the safe and effective use of the Walfront Handheld Metal Detector, model GC-101H. This device is designed for security screening and detection of metallic objects. Please read this manual thoroughly before operating the device and retain it for future reference.



Figure 1: Walfront Handheld Metal Detector GC-101H

The Walfront GC-101H is a lightweight and easy-to-use handheld metal detector featuring dual alarm modes (audio and vibration) and adjustable sensitivity. It is powered by a 9V battery and includes LED indicators for battery status and metal detection.

## 2. SAFETY INFORMATION

- Do not expose the device to extreme temperatures, moisture, or direct sunlight.
- Avoid dropping the device or subjecting it to strong impacts.
- Do not attempt to open or modify the device, as this will void the warranty and may cause damage.
- Keep the device away from strong magnetic fields.
- Dispose of batteries properly according to local regulations.
- This device is designed for detecting metallic objects. It is not intended for medical diagnosis or treatment.

## 3. PRODUCT OVERVIEW

The Walfront GC-101H metal detector is equipped with several key components for efficient operation.

### 3.1 Components

1. **Detection Head:** The area responsible for sensing metallic objects.
2. **Handle:** Ergonomically designed for comfortable grip.
3. **Power Switch:** Used to turn the device ON/OFF and select alarm mode.
4. **LED Indicators:** Display battery status and metal detection.

5. **Sensitivity Adjustment:** Allows modification of detection sensitivity.
6. **Battery Compartment:** Located at the base of the handle for 9V battery installation.



Figure 2: Close-up of Controls and Indicators

### 3.2 Features

- **Power Supply:** Designed for 9V batteries, with a socket for rechargeable batteries.
- **Indicator Lights:** Green for sufficient battery, Yellow for low battery, Red for metal detection.
- **Alarm Methods:** Audio indication and vibration indication.
- **Adjustable Sensitivity:** Allows customization for different detection needs.
- **Lightweight Design:** Easy to carry and operate.

## 4. SETUP

## 4.1 Battery Installation

1. Locate the battery compartment cover at the bottom of the handle.
2. Slide or unclip the cover to open the compartment.
3. Insert a fresh 9V battery, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

The device can also accommodate rechargeable 9V batteries. Ensure the battery is fully charged before use for optimal performance.

## 5. OPERATING INSTRUCTIONS

### 5.1 Power On/Off and Mode Selection

1. To power on the device, slide the power switch to the 'I' position for audio alarm mode or 'II' position for vibration alarm mode.
2. The green LED indicator will illuminate, indicating the device is ready for operation.
3. To power off the device, slide the power switch to the 'O' position.



Figure 3: Handheld Metal Detector in use for security screening

## 5.2 Metal Detection

1. Hold the detector by the handle and sweep the detection head evenly over the area to be scanned.
2. When a metallic object is detected, the red LED indicator will light up, and the device will either emit an audible alarm or vibrate, depending on the selected mode.
3. Move the detector slowly to pinpoint the exact location of the metallic object. The alarm signal will be strongest when the detection head is directly over the object.

## 5.3 Sensitivity Adjustment

The Walfront GC-101H features adjustable sensitivity. Refer to the device's specific controls for adjusting sensitivity. Typically, a higher sensitivity setting allows for the detection of smaller or more deeply embedded metallic objects, while a lower setting can help reduce false alarms in areas with high metallic interference.



Figure 4: Examples of metal detection in different environments

## 6. MAINTENANCE

### 6.1 Cleaning

- Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or solvents.

- Ensure the device is completely dry before storage or next use.

## 6.2 Storage

- When not in use for extended periods, remove the battery to prevent leakage.
- Store the device in a cool, dry place, away from direct sunlight and extreme temperatures.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Battery is dead or incorrectly installed.	Replace the 9V battery or ensure it is installed with correct polarity.
No metal detection.	Sensitivity is too low; object is too small or too deep.	Increase sensitivity. Ensure the detection head is close to the object.
False alarms or erratic behavior.	High electromagnetic interference; sensitivity is too high.	Move away from sources of interference. Decrease sensitivity.
Yellow LED (low battery) illuminates frequently.	Battery is nearing depletion.	Replace or recharge the 9V battery.

## 8. SPECIFICATIONS

- **Model:** GC-101H
- **Brand:** Walfront
- **Operating Frequency:** 22 KHz
- **Power Source:** 9V Battery (not included)
- **Item Weight:** 390 Grams
- **Adjustable Length:** Yes
- **International Protection Rating:** IP65
- **Alarm Modes:** Audio and Vibration
- **Indicators:** Green (Power/Ready), Yellow (Low Battery), Red (Metal Detected)

## 9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact Walfront customer service directly. Keep your purchase receipt as proof of purchase.

**Walfront Customer Service:** Please visit the official Walfront website or contact your retailer for support.