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› [Walfront TH210 3-in-1 Stud Finder Wall Scanner User Manual](#)

Walfront TH210

Walfront TH210 3-in-1 Stud Finder Wall Scanner User Manual

1. INTRODUCTION AND OVERVIEW

The Walfront TH210 is a versatile 3-in-1 digital multi-scanner engineered to accurately detect studs, metal objects, and live AC wires concealed within walls. Its advanced features include a clear LCD display and an audible warning system, which work in conjunction to pinpoint the exact location of hidden elements. This lightweight and portable device is designed with ergonomics in mind, ensuring a comfortable grip and stable movement for highly accurate scanning results. Crafted from durable, high-quality, and heat-resistant plastic, the TH210 is built for longevity and reliable performance in various environments, including homes, offices, and workshops.

Key features include:

- **Exact Location Detection:** Large LCD display and audible warning for precise object identification.
- **Portable Design:** Lightweight and convenient for use in various settings.
- **Ergonomic Grip:** Designed for comfortable handling and accurate scanning.
- **Durable Construction:** High-quality plastic shell ensures sturdiness and heat resistance.
- **Easy to Use:** Simple operation with clear instructions for battery installation and calibration.

2. SETUP

Before using your Walfront TH210 wall detector, follow these steps to set it up:

1. **Install Battery:** Locate the battery compartment on the back of the detector. Open the compartment cover. Insert one 9V (6F22) battery, ensuring correct polarity. Close the battery compartment cover securely.





Figure 2.1: Battery compartment for 9V battery installation.

3. OPERATING INSTRUCTIONS

The Walfront TH210 offers three detection modes: stud (wood), metal, and AC live wire. Follow these general operating procedures:

1. **Power On and Calibration:** Press the "ON/OFF" key to turn on the device. The device will automatically perform a self-calibration. Ensure the device is held flat against the wall, away from any known objects, during calibration for accurate results.
2. **Select Mode:** Use the mode selection button (often indicated by an arrow or specific icon) to cycle through the different detection modes: Wood mode, Metal mode, and Cable (AC Live Wire) mode. The selected mode will be indicated on the LCD display.
3. **Scanning:** Place the scanner flat against the wall surface. Slowly slide the device horizontally across the wall. The LCD display will show indicators for detected objects, including depth, center, and edges. An audible warning will sound when an object is detected.
4. **Interpreting Display:** The LCD provides visual cues such as signal strength bars, center indicators, and edge indicators to help you precisely locate the target. A low battery reminder will also be displayed when the battery needs replacement.





Figure 3.1: Front view of the TH210 with LCD display.



Figure 3.2: Labeled diagram of the TH210's features and indicators.

Sensitive sensor

Central target positioning to ensure detection accuracy

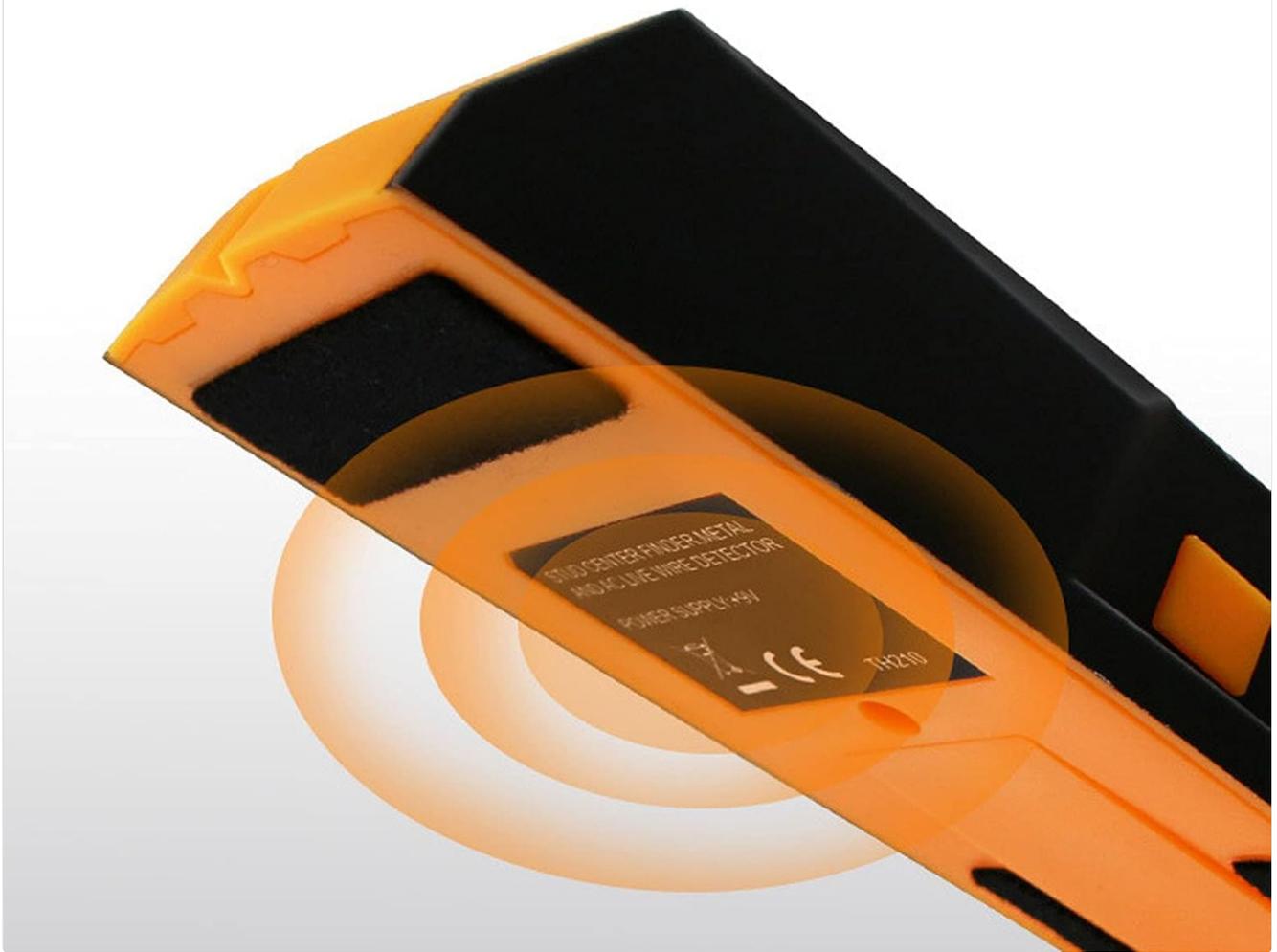


Figure 3.3: Ergonomic design for comfortable handling.



Figure 3.4: Sensitive sensor for accurate detection.



Figure 3.5: Example of detection capabilities (rebar, cable, wood).



Figure 3.6: HD backlit display for clear visibility.

4. MAINTENANCE

To ensure the longevity and optimal performance of your Walfront TH210, follow these maintenance guidelines:

- **Cleaning:** Wipe the device with a soft, dry cloth after each use. Do not use abrasive cleaners or solvents, as they may damage the plastic casing or LCD screen.
- **Storage:** Store the detector in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for an extended period, remove the 9V battery to prevent leakage and potential damage to the device.
- **Battery Replacement:** Replace the 9V battery promptly when the low battery indicator appears on the LCD display to ensure accurate readings.

5. TROUBLESHOOTING

If you encounter issues with your Walfront TH210, consider the following common troubleshooting steps:

- **Device Not Turning On:**
 - Check if the 9V battery is installed correctly with the correct polarity.
 - Replace the battery with a fresh one.

- **Inaccurate Readings or No Detection:**

- Ensure the device is properly calibrated before scanning. Perform calibration by pressing the ON/OFF button while holding the device flat against the wall in an area free of known objects.
- Verify that the correct detection mode (wood, metal, or AC live wire) is selected for the material you are trying to locate.
- Scan slowly and consistently across the surface. Rapid movement can lead to missed detections.
- Check for any obstructions on the wall surface that might interfere with the scan.

- **Audible Warning Not Functioning:**

- Ensure the device is detecting an object. The audible warning only activates upon detection.
- Check battery level; low battery can affect all functions.

6. SPECIFICATIONS

Feature	Description
Model	TH210 Wall Metal Detector
Item Type	Wall Detector
Material	Plastic
Scope of Application	Metal detection, voltage cable detection, stud/joist/drywall detection
Working Temperature	-7°C to 40°C (<70% humidity)
Storage Temperature	-20°C to 50°C (<85% humidity)
Applicable Battery	1 x 6F22 9V battery (not included)
Automatic Shutdown Time	3 minutes
Item Weight	183 Grams (approx. 6.5 ounces)
Product Dimensions	Approx. 0.39 x 0.39 x 0.39 inches (10 x 10 x 10 mm)
Display Type	LCD
International Protection Rating	IP66

7. WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please refer to the documentation provided at the time of purchase or contact the seller/manufacturer directly. Specific warranty terms and conditions may vary. You may also visit the Walfront store on Amazon for additional product information and support resources:[Walfront Amazon Store](#)

