

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

> [Povlen](#) /

> [Povlen TH570 Stud Finder Wall Scanner Detector User Manual](#)

Povlen TH570

Stud Finder Wall Scanner Detector User Manual

Brand: Povlen | Model: TH570

[Introduction](#) [Safety Information](#) [Product Overview](#) [Setup](#) [Operating](#)
[Instructions](#) [Maintenance](#) [Troubleshooting](#) [Specifications](#) [Warranty & Support](#)

1. INTRODUCTION

The Povlen TH570 Stud Finder Wall Scanner Detector is a versatile 5-in-1 electronic tool designed for accurately locating studs, metal objects, pipes, and live AC wires within walls, floors, and ceilings. This device enhances safety and efficiency for various home improvement projects, such as hanging pictures, mounting TVs, or performing renovations. Its advanced sensors and clear display provide reliable detection, helping to prevent damage to hidden utilities and ensure secure installations.

2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always assume that live electrical wires are present in the wall. Exercise extreme caution when working near detected AC wires.
- Do not rely solely on the stud finder to locate live wires. Always turn off power to the area you are working on at the circuit breaker before drilling or cutting into walls.
- This device is intended for detecting objects behind common wall materials such as drywall, plywood, and plasterboard. It may not function accurately on lath and plaster, concrete, brick, or ceramic tile.
- Keep the device dry and clean. Do not expose it to moisture or extreme temperatures.
- Do not attempt to open or modify the device. There are no user-serviceable parts inside.
- Keep out of reach of children.

3. PRODUCT OVERVIEW

The Povlen TH570 Stud Finder features an intuitive design with a clear LCD display and easy-to-use buttons.

3.1 Components and Controls



Image: The Povlen TH570 Stud Finder highlighting its key features: Power Button (ON/OFF), Mode Button, Scan Button, Mode Indicator, Direction Indicator, and The Center Pointing System on the LCD display.

- **LCD Display:** Shows scanning mode, signal strength, direction indicators, and battery level.
- **Power Button (ON/OFF):** Press to turn the device on or off.
- **Mode Button:** Press to cycle through the different scanning modes (Stud 1/2", Stud 1", Stud 1 1/2", Metal, AC).
- **Scan Button:** Located on the side, this button must be pressed and held during calibration and scanning.
- **Direction Indicators:** Arrows on the LCD guide you towards the center of the detected object.
- **Audio Alert:** Provides an audible signal when an object is detected.

4. SETUP

4.1 Battery Installation

The Povlen TH570 Stud Finder requires one 9V alkaline battery (included).



Image: The Povlen TH570 Stud Finder shown alongside a 9V battery, ready for installation.

1. Locate the battery compartment cover on the back of the device.

2. Slide the cover open.
3. Insert a new 9V alkaline battery, ensuring the positive (+) and negative (-) terminals align correctly with the markings inside the compartment.
4. Close the battery compartment cover securely.

The device is now ready for use. The battery indicator on the LCD will show the current battery level. Replace the battery when the indicator shows low power.

5. OPERATING INSTRUCTIONS

5.1 Calibration

Proper calibration is crucial for accurate detection. Calibrate the device before each scan and whenever you move to a new location on the wall.

1. Place the stud finder flat against the wall where you intend to scan, ensuring there are no known studs or metal objects in that immediate area.
2. Press and hold the Scan Button (on the side). The device will emit a short beep, and the display will show a calibration progress bar.
3. Keep the device still until calibration is complete (usually 2-3 seconds). The display will show "CENTER" or a stable reading, indicating it's ready.
4. Do not lift the device from the wall or release the Scan Button during the scanning process.

5.2 Scanning Modes

The Povlen TH570 offers five distinct scanning modes for various detection needs. Press the "MODE" button to switch between them.



Image: Visual representation of the five scanning modes: Stud Mode (1/2", 1", 1 1/2" deep), Metal Scan Mode (up to 2.36" deep), and AC Scan Mode (up to 2" deep).

5.2.1 Stud Scan Modes (1/2", 1", 1 1/2")

These modes are designed to locate the center and edges of wood and metal studs behind drywall.

- **Stud 1/2"**: Detects studs up to 0.5 inches (13 mm) deep.
- **Stud 1"**: Detects studs up to 1 inch (25 mm) deep.
- **Stud 1 1/2"**: Detects studs up to 1.5 inches (38 mm) deep.

Procedure:

1. Select the appropriate stud mode based on wall thickness.
2. Calibrate the device on a clear section of the wall.
3. While holding the Scan Button, slowly slide the device horizontally across the wall.
4. As you approach a stud, the signal strength bars on the LCD will increase, and direction arrows will appear.

- When the device is directly over the center of the stud, the "CENTER" indicator will appear, and an audio alert will sound. Mark this spot.
- Continue sliding past the stud to locate its other edge. Repeat the scan from the opposite direction to confirm the stud's location and width.



Image: The stud finder's LCD display showing how it indicates both the exact center and edges of a stud, accompanied by an audio alarm.

5.2.2 Metal Scan Mode

This mode detects non-ferrous metals (like copper pipes) and ferrous metals (like rebar) up to 2.36 inches (60 mm) deep.

Procedure:

- Select "METAL" mode.
- Calibrate the device on a clear section of the wall.
- While holding the Scan Button, slowly slide the device horizontally or vertically across the wall.
- The signal strength bars will increase as you approach metal. The "CENTER" indicator and audio alert will activate when the device is over the metal object.

5.2.3 AC Scan Mode

This mode detects live unshielded AC wires up to 2 inches (51 mm) deep. The device provides continuous wire alerts in all modes (wood, metal, and AC) to prevent accidental drilling into live wires.

Procedure:

1. Select "AC" mode.
2. Calibrate the device on a clear section of the wall.
3. While holding the Scan Button, slowly slide the device across the wall.
4. When a live AC wire is detected, the AC icon will appear on the display, and an audio alert will sound.



Image: A user operating the stud finder to detect a live AC wire before drilling, illustrating the safety feature of the device.

Important: The presence of an AC wire alert does not mean there are no other wires present. Always exercise extreme caution.

6. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the stud finder in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for extended periods, remove the battery to prevent leakage.
- **Battery Replacement:** Replace the 9V battery when the low battery indicator appears on the LCD.

7. TROUBLESHOOTING

If you encounter issues with your Povlen TH570 Stud Finder, refer to the table below for common problems and solutions.

| Problem | Possible Cause | Solution |
|--|--|---|
| Inaccurate or inconsistent readings. | Improper calibration, rapid scanning, or presence of moisture/texture on the wall. | Ensure proper calibration on a clear, dry section of the wall. Scan slowly and steadily. Recalibrate frequently. |
| Device does not turn on. | Dead or improperly installed battery. | Check battery orientation. Replace with a new 9V alkaline battery. |
| AC wire detection is erratic or gives false positives. | Static electricity, unshielded wires, or interference from other devices. | Recalibrate the device frequently. Ensure hands are not touching the wall during scanning. Turn off nearby electronic devices if possible. Always verify with other methods and turn off power before drilling. |
| Cannot detect objects on concrete, brick, or lath and plaster walls. | Device limitations. | This stud finder is primarily designed for common wall materials like drywall. It may not work effectively on very dense or irregular surfaces. |

8. SPECIFICATIONS

| Feature | Detail |
|--------------------|--|
| Model Number | TH570 |
| Manufacturer | Povlen |
| Stud Scan Depth | 1/2 inch (13 mm), 1 inch (25 mm), 1 1/2 inches (38 mm) |
| Metal Scan Depth | Up to 2.36 inches (60 mm) |
| AC Scan Depth | Up to 2 inches (51 mm) |
| Power Source | 1 x 9V Alkaline Battery (included) |
| Material | ABS |
| Item Weight | 0.317 ounces |
| Package Dimensions | 7.68 x 3.39 x 1.65 inches |

9. WARRANTY & SUPPORT

Specific warranty information for the Povlen TH570 Stud Finder is not provided in this manual. Please refer to the product packaging or the retailer's website for details regarding warranty coverage and terms.

For technical support, troubleshooting assistance beyond what is covered in this manual, or inquiries about replacement parts, please contact Povlen customer service through the official channels provided at the point of purchase or on the Povlen brand website.

You can visit the Povlen Store on Amazon for more information:[Povlen Amazon Store](#).

