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> [eOUTIL ST100 Stud Finder Wall Scanner Instruction Manual](#)

## eOUTIL ST100

# eOUTIL ST100 Stud Finder Wall Scanner Instruction Manual

Model: ST100

## 1. INTRODUCTION

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The eOUTIL ST100 Stud Finder is an electronic device designed to quickly locate wood and metal studs, as well as joists, hidden behind walls, floors, and ceilings. This tool is capable of detecting objects through one layer of drywall up to 3/4 inch deep. It assists in safely installing items like TVs, cabinets, and garage racks by identifying structural elements and avoiding potential hazards.

## 2. SAFETY INFORMATION

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Do not use this device near flammable materials or in hazardous environments. Always follow manufacturer's instructions for safe use. Ensure the device is handled with care to prevent damage.

## 3. PRODUCT FEATURES

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- **Light Indicator and Audio Alarm:** Equipped with a 4-level flash-light system that illuminates as a stud edge is approached or located. A continuous beeping sound indicates the presence of wood or metal behind the wall.
- **Simple Operation:** Designed for ease of use with minimal modes, simplifying the detection process.
- **Versatile Detection:** Locates wood, metal, and joists in various wall surfaces including lath, wallpaper, wood flooring, acoustic ceilings, and painted walls.
- **Detection Depth:** Provides 3/4 inch deep detection for both wood and metal.
- **Power Source:** Operates on one 9V 6F22 battery (not included).

## 4. SETUP

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### 4.1 Battery Installation

The ST100 Stud Finder requires a fully charged 9V alkaline battery for accurate function. A new 9V 6F22

battery with an extended expiration date is recommended. The battery is not included in the package.

1. Locate the battery cover on the back of the device.
2. Slide the battery cover open.
3. Insert a new 9V 6F22 battery, ensuring correct polarity.
4. Slide the battery cover back into place until it clicks securely.

Your browser does not support the video tag.

**Video:** Demonstrates how to load the 9V battery into the eOUTIL ST100 Stud Finder and shows the initial calibration process.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Calibration

Before scanning, the device must be calibrated on a non-stud area of the wall.

1. Place the device flat against the wall in an area where you are certain there are no studs.
2. Press and hold the power button. Keep the unit still.
3. The device will beep for 1-2 seconds during calibration. Release the button once calibration is complete and the 'Ready' light illuminates green.

### 5.2 Scanning for Studs

Once calibrated, you can begin scanning the wall.

1. While still holding the power button, slowly move the device horizontally across the desired surface.
2. When the stud finder detects the edge of an object (wood or metal), it will beep continuously, and the signal strength lights will illuminate.
3. Mark this location with a pen.
4. Continue moving the device to find the other side of the stud and mark it. The center of the stud is typically between these two marks.



**Image:** The eOUTIL ST100 Stud Finder in use, illustrating its capability to scan for wood, metal studs, and joists behind a wall. The device shows indicator lights for detection.



**Image:** A woman using the eOUTIL ST100 Stud Finder to locate a stud and marking its position on the wall with a pen.



**Image:** A woman holding the eOUTIL ST100 Stud Finder against a white wall, demonstrating the typical usage posture for scanning.

## 6. TIPS FOR ACCURATE SCANNING

- **Avoid Contact:** Do not touch the wall with your free hand while using the stud finder, as this can interfere with its readings.
- **Proper Calibration:** Always calibrate the device on a section of the wall where you are certain there are no studs.
- **Consistent Speed:** Move the stud finder slowly and consistently across the wall for best results. Moving too fast can lead to missed detections or inaccurate readings.
- **Multiple Scans:** For increased accuracy, perform multiple scans from different directions to confirm stud locations.

## 7. SPECIFICATIONS

Specification	Value
Brand	eOUTIL

Model Number	ST100
Color	Yellow
Power Source	Battery Powered (1x 9V 6F22, not included)
Material	Plastic
Item Weight	3.2 ounces
Product Dimensions	2.56"L x 1.57"W x 1.57"H
Operating Frequency	10 KHz
International Protection Rating	IP54



**Image:** The eOUTIL ST100 Stud Finder displaying its key dimensions: 5.5 inches in length, 2.9 inches in width, and 1.6 inches in depth.

## 8. TROUBLESHOOTING

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If you encounter issues with your eOUTIL ST100 Stud Finder, consider the following common problems and solutions:

- **Inaccurate Readings or No Detection:**

- **Low Battery:** If the 'Low Bat' indicator light is on, replace the 9V battery with a new, fully charged alkaline battery.
- **Improper Calibration:** Ensure the device is calibrated on a non-stud area of the wall. Do not calibrate directly over a stud.
- **Movement Speed:** Moving the device too quickly can result in missed detections. Slow down your scanning speed.
- **Interference during Calibration:** Keep your fingers motionless and avoid touching the wall with your free hand until the calibration process is fully completed.
- **Wall Surface:** The device works best on smooth, dry surfaces. Rough or uneven surfaces may affect accuracy.

Your browser does not support the video tag.

**Video:** This video demonstrates common errors and provides solutions for using the eOUTIL ST100 Stud Finder, including proper battery loading, calibration, and scanning techniques.

## 9. WARRANTY AND SUPPORT

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For warranty information or technical support, please refer to the product packaging or contact eOUTIL customer service directly. Contact details are typically provided with the product documentation or on the manufacturer's official website.