

Mokeum SH301

Mokeum SH301 Stud Finder Wall Scanner User Manual

Model: SH301

1. INTRODUCTION

The Mokeum SH301 Stud Finder Wall Scanner is an advanced electronic device designed to accurately detect studs, metal objects (such as pipes and rebar), and live AC wires hidden behind various wall materials, floors, and ceilings. This tool is suitable for both professional and non-professional users, providing clear indications through its large LCD display and audible alerts. This manual provides detailed instructions for safe and effective use of your device.

2. SAFETY INFORMATION

- Always exercise caution when drilling or cutting into walls, floors, or ceilings.
- Do not rely solely on the stud finder to locate live electrical wires. Always turn off power to the area you are working on if there is any doubt.
- The device is designed for indoor use. Avoid exposure to extreme temperatures, moisture, or direct sunlight.
- Do not attempt to open or modify the device. Repairs should only be performed by qualified personnel.
- Keep the device out of reach of children.

3. PRODUCT OVERVIEW

The Mokeum SH301 features a large LCD display for clear readings, multiple detection modes, and an audible alarm system. Understanding its components is crucial for proper operation.



Figure 3.1: Front view of the Mokeum SH301 Stud Finder with key components labeled, including the Stud Center Indicator, AC Wire Warning, Metal Mode Indicator, AC Mode Indicator, Stud Mode Indicator, Stud Edge Indicator, Moving Direction Indicator, Power Button/Mode Switch Button, and Pust Button.

Key Features:

- **Large LCD Display:** Provides clear, real-time data including signal strength, detection mode, and battery status.
- **Five Detection Modes:** Specialized modes for studs (1/2", 1", 1.5" deep), metal (up to 2.36" deep), and AC wires (up to 2" deep).
- **Audible Alarm:** Emits a sound when an object is detected, indicating proximity to the target.
- **Automatic Calibration:** Ensures accurate readings by self-calibrating upon startup or mode change.

4. SETUP

4.1 Battery Installation

The Mokeum SH301 requires one 9V 6F22 type battery (not included). To install the battery:

1. Locate the battery compartment cover on the back of the device.
2. Push the battery cover latch and slide the cover open.
3. Insert a new 9V 6F22 battery, ensuring the positive (+) and negative (-) terminals match the markings inside the compartment.
4. Close the battery compartment cover until it clicks securely into place.

The device will display a low battery icon on the LCD when the battery level is low. Replace the battery promptly to ensure accurate operation.



Figure 4.1: Rear view of the Mokeum SH301 Stud Finder, highlighting the battery compartment for 9V battery installation.

5. OPERATING INSTRUCTIONS

5.1 Powering On and Calibration

To power on the device, press and hold the 'Power Button/Mode Switch Button' for 1-2 seconds. The device will automatically calibrate. Ensure the device is placed flat against the wall surface before calibration is complete to avoid false readings.

5.2 Selecting a Detection Mode

Press the 'Power Button/Mode Switch Button' repeatedly to cycle through the five available detection modes:

- **Stud Scan (1/2 inch):** Detects wood studs and joists up to 0.5 inches (12mm) deep in drywall.
- **Stud Scan (1 inch):** Detects wood studs and joists up to 1 inch (25mm) deep in drywall.
- **Stud Scan (1.5 inch):** Detects wood studs and joists up to 1.5 inches (38mm) deep in drywall.
- **Metal Scan:** Detects metal pipes, rebar, and other metallic objects up to 2.36 inches (60mm) deep.
- **AC Scan:** Detects live unshielded AC wires up to 2 inches (51mm) deep.



Figure 5.1: Illustration of the Mokeum SH301 Stud Finder's five scanning modes and their respective maximum detection depths for studs, metal, and AC wires.

5.3 Scanning Procedure

1. **Place on Wall:** Place the device flat against the wall surface where you intend to scan.
2. **Calibrate:** Press and hold the 'Scan' button (often the same as the power/mode button) for 1-2 seconds until calibration is complete.
3. **Move Slowly:** Slowly slide the device horizontally across the surface. Keep it flat against the wall.
4. **Interpret Display:** The LCD will show signal strength indicators. As you approach an object, the signal strength will increase, and an audible alarm will sound. The 'CENTER' indicator will illuminate when the center of a stud or object is detected.
5. **Mark Location:** Once an object is detected, mark its location on the wall. For studs, it is recommended to scan from both directions to confirm the edges and center.

Precise detection

Wall detectors detect metal, wooden beams and live cables hidden in walls, ceilings and floors



Figure 5.2: The Mokeum SH301 Stud Finder demonstrating precise detection on a wall, with the display indicating an object's presence.

6. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery:** Remove the battery if the device will not be used for an extended period to prevent leakage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Device does not power on.	Low or dead battery; incorrect battery installation.	Replace with a new 9V battery; ensure correct polarity.
Inaccurate readings or false positives.	Improper calibration; scanning too fast; presence of moisture in wall.	Recalibrate on a clear section of the wall; scan slower; ensure wall is dry.
Low battery indicator displayed.	Battery is running low.	Replace the 9V battery immediately.
No detection in AC mode.	Wires are shielded; wires are too deep; no live AC current.	Ensure AC power is on; try scanning from different angles; note that shielded wires may not be detected.

8. SPECIFICATIONS

- **Brand:** Mokeum
- **Model:** SH301
- **Material:** Acrylonitrile Butadiene Styrene (ABS)
- **Dimensions:** Approximately 18 x 8 x 3.5 cm (7.08 x 3.14 x 1.37 inches)
- **Power Source:** 1 x 9V 6F22 Battery (not included)
- **Stud Scan Depth:** 0.5 inch (12mm), 1 inch (25mm), 1.5 inch (38mm)
- **Metal Scan Depth:** Up to 2.36 inches (60mm)
- **AC Wire Scan Depth:** Up to 2 inches (51mm)
- **Waterproof Level:** IP54 (Water-resistant)

9. WARRANTY AND SUPPORT

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

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question