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› [DEWINNER 4-in-1 Wall Detector \(Model DE-SH201\) Instruction Manual](#)

DEWINNER DE-SH201

DEWINNER 4-in-1 Wall Detector (Model DE-SH201) Instruction Manual

Your comprehensive guide to accurate detection.

1. INTRODUCTION

The DEWINNER 4-in-1 Wall Detector, Model DE-SH201, is a versatile tool designed for quickly and accurately locating various hidden objects within walls, floors, and ceilings. It features four distinct detection modes to identify metal, wood studs, magnetic materials, and live AC wires. This device is ideal for home renovation, electrical wiring projects, decoration, and safely hanging items.

Equipped with a large LCD screen and an audible buzzer, the detector provides clear indications of detection mode, depth, signal strength, and battery level. Its ergonomic design ensures a comfortable and secure grip during use.



Figure 1: The DEWINNER 4-in-1 Wall Detector (Model DE-SH201) and its included 9V battery.

2. PRODUCT FEATURES

- **4 Detection Modes:** Includes Stud Scan, Deep Mode, Metal Scan, and AC Scan for comprehensive material detection.

- **LCD Display & Audio Alarm:** Large backlit LCD screen shows detection mode, depth, signal strength, and battery status. An audible buzzer indicates target detection and proximity.
- **Multi-functional Use:** Suitable for locating wood studs, metal studs, rebar, pipes, and live AC wires.
- **Ergonomic Design:** Soft-grip coating provides a firm and comfortable hold, preventing slippage.
- **High Precision:** Advanced anti-interference chip ensures quick and accurate positioning of hidden objects.
- **Durable Construction:** Features an ABS fall-proof housing and is designed to be dustproof and splash-resistant (IP65 rating).



Figure 2: Key design elements of the DEWINNER Wall Detector, including its ergonomic and durable construction.

3. SETUP AND CALIBRATION

3.1 Battery Installation

The DEWINNER Wall Detector requires a 9V battery for operation. To install the battery, open the battery compartment located on the back of the unit. Insert a fresh 9V battery, ensuring correct polarity, then close the compartment securely.

3.2 Initial Calibration

For accurate readings, the device must be calibrated before each use and when switching between detection modes. To calibrate:

1. Place the detector flat against the wall surface where you intend to scan. Ensure there are no known studs, metal, or AC wires in the immediate area during calibration.
2. Press and hold the Power Button/Mode Switch Button (located on the side of the unit) until the device powers on and emits a short beep.
3. Keep the device stationary against the wall until the calibration process is complete, indicated by a stable display and another beep.
4. The device is now ready for scanning in the selected mode.

Note: Improper calibration can lead to inaccurate readings. Always calibrate on a clear section of the wall.

4. OPERATING INSTRUCTIONS

The DEWINNER Wall Detector offers four scanning modes, each optimized for different materials and depths. Select the appropriate mode using the Power Button/Mode Switch Button.



Figure 3: Overview of the four detection modes and their maximum scanning depths.

4.1 Stud Scan Mode

This mode is designed to locate the center and edges of wood and metal studs behind drywall. It detects up to 3/4 inch (19 mm) deep.

1. Select Stud Scan mode.
2. Calibrate the device on a clear section of the wall.
3. Slowly slide the detector horizontally across the surface.
4. The LCD will indicate signal strength, and an audible beep will sound as it approaches a stud. The 'CENTER' indicator will illuminate when the center of the stud is found.

4.2 Deep Mode

For detecting deeper wood and metal studs, this mode extends the scanning depth up to 1 1/2 inches (38 mm).

1. Select Deep Mode.
2. Calibrate the device on a clear section of the wall.
3. Proceed with horizontal scanning as in Stud Scan mode.
4. The display and audio alerts will guide you to the stud's location.

4.3 Metal Scan Mode

This mode is used to detect various metal objects, including rebar, pipes, and metal studs, up to a maximum depth of 2.36 inches (60 mm).

1. Select Metal Scan mode.
2. Calibrate the device on a clear section of the wall.
3. Scan the surface slowly. The device will indicate the presence of metal.

4.4 AC Scan Mode

Designed to detect live unshielded AC wires (110-220V) up to 2 inches (51 mm) deep. This mode is crucial for safety when drilling or cutting into walls.

1. Select AC Scan mode.
2. Calibrate the device on a clear section of the wall.
3. Scan the area slowly. The AC wire warning indicator and an audible alarm will activate upon detecting live AC wires.

Important Safety Note: Always exercise extreme caution when detecting AC wires. The presence of an AC warning indicates live electricity. Disconnect power if possible before proceeding with any work.



Figure 4: The detector's capability for precise detection of multiple materials, including metal, wires, and wood.

5. UNDERSTANDING THE DISPLAY AND INDICATORS

The DEWINNER Wall Detector features a clear LCD screen and various indicators to provide real-time feedback during scanning.



Figure 5: Labeled diagram of the DEWINNER Wall Detector's display and controls.

- **Stud Mode Indicator:** Icon representing stud detection.
- **Stud Deep Mode Indicator:** Icon representing deep stud detection.
- **Metal Mode Indicator:** Icon representing metal detection.
- **AC Mode Indicator:** Icon representing AC wire detection.
- **Low Battery Indicator:** Alerts when battery power is low.
- **AC Wire Warning:** Visual alert for detected live AC wires.
- **Stud Center Indicator:** Indicates when the device is centered over a stud.
- **Stud Edge Indicator:** Indicates when the device is over the edge of a stud.
- **Moving Direction Indicator:** Arrows guide the user towards the center of the target.
- **Signal Strength Bars:** Displays the proximity and strength of the detected object.
- **Power Button/Mode Switch Button:** Used to turn the device on/off and switch between modes.
- **Pust Button:** (Likely a typo, intended as 'Push Button' or 'Scan Button') Used to initiate scanning or confirm actions.



Buzzer Voice Reminder

The buzzer will remind when the target is detected, and the alarm will continue when it reaches the center

Figure 6: The buzzer provides an audible reminder when a target is detected, intensifying as the device approaches the center.

6. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the detector in a cool, dry place away from direct sunlight and extreme temperatures. Remove the battery if the device will not be used for an extended period to prevent leakage.
- **Protection:** While the device is dustproof and splash-resistant (IP65), avoid submerging it in water or exposing it to heavy rain.

Dustproof, waterproof and fall proof

The shell has a certain impact resistance



Figure 7: The detector's robust design offers protection against dust, water splashes, and minor impacts.

7. TROUBLESHOOTING

- **Inaccurate Readings/False Positives:** Ensure the device is properly calibrated on a clear section of the wall before scanning. Avoid scanning over recently painted or damp surfaces, as moisture can interfere with detection.
- **No Detection:** Check the battery level. If the low battery indicator is on, replace the 9V battery. Ensure you are using the correct detection mode for the material you are trying to locate.
- **Difficulty Understanding Instructions:** Refer to the detailed operating instructions in Section 4. Practice on known objects (e.g., a piece of wood or metal) to familiarize yourself with the device's feedback.
- **Device Not Turning On:** Verify the battery is correctly installed and fully charged. Press and hold the Power Button/Mode Switch Button firmly.

8. SPECIFICATIONS

Specification	Value
Model Number	DE-SH201
Power Source	Battery Powered (9V required)
Weight	155 Grams
Dimensions (Package)	18.8 x 8.4 x 5.2 cm
Stud Scan Depth	Up to 3/4 inch (19 mm)
Deep Scan Depth	Up to 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)
International Protection (IP) Rating	IP65
Recommended Uses	Construction, Repair, DIY Projects

9. WARRANTY AND SUPPORT

For warranty information, technical support, or further assistance, please refer to the official DEWINNER website or contact DEWINNER customer service directly. Contact details can typically be found on the product packaging or the manufacturer's official online channels.