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› aquota 7-in-1 Digital Wall Scanner Model 850 User Manual

aquota 850

aquota 7-in-1 Digital Wall Scanner Model 850 User Manual

Your comprehensive guide to safe and accurate detection.

INTRODUCTION

The aquota 7-in-1 Digital Wall Scanner Model 850 is a versatile tool designed to enhance safety and efficiency in various home improvement and professional tasks. This device accurately detects studs, metal objects, and live AC wires hidden behind walls, floors, and ceilings. It also features a nail finder, bubble level, and scale ruler for added utility. This manual provides detailed instructions for the proper setup, operation, and maintenance of your wall scanner to ensure optimal performance and safety.

PRODUCT OVERVIEW

7-1 Multi-function

120s Auto Power-off



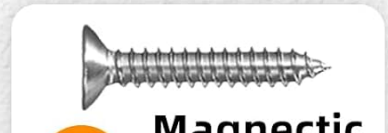
Stud Scan:
0.39inch(10mm)
0.79inch(20mm)
1.49inch(38mm)



AC Scan:
2 inch(51mm)



Metal Scan:
2.36 inch(60mm)



Magnetic Mode:
0.4 inch(10mm)

Scale Ruler

Air Level

Figure 1: The aquota 7-in-1 Digital Wall Scanner highlighting its various detection modes including stud, metal, and AC scanning, along with a scale ruler and air level. It also features an auto power-off function after 120 seconds of inactivity.



Figure 2: A detailed view of the scanner's interface, showing the LCD display with indicators for low battery, high voltage warning, calibration complete, and three intensity modes (deep, middle, exact). It also labels the ON/OFF, RESET, and MODE buttons, along with the stud, metal, and AC detection icons, signal strength, and nail finder.

The Model 850 integrates seven essential functions: stud scan, metal scan, live AC wire detection, nail finding, a bubble level, and a scale ruler. Its intuitive LCD display provides real-time feedback, including signal strength, detection direction, and safety warnings for live AC wires. The device is equipped with a sensitive sensor chip and offers three adjustable detection modes for maximum accuracy across different materials.

SETUP

1. Battery Installation

The aquota 7-in-1 Digital Wall Scanner requires one 9V battery (included). To install:

1. Locate the battery compartment cover on the back of the device.
2. Slide or unclip the cover to open.

3. Insert a new 9V battery, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

2. Initial Calibration

Before each use, or when moving to a new scanning area, the device must be calibrated for accurate readings. Automatic calibration occurs with a single touch:

1. Place the scanner flat against the wall or surface you intend to scan. Ensure there are no studs, metal, or AC wires directly beneath the device during calibration.
2. Press and hold the **RESET** button (short press).
3. Wait for the calibration complete icon to appear on the LCD display. This usually takes a few seconds.
4. The device is now calibrated and ready for use.

OPERATING INSTRUCTIONS

1. Power On/Off

- To power on, press the **ON/OFF** button. The LCD display will light up.
- The device features an auto power-off function after 120 seconds of inactivity to conserve battery life.
- To manually power off, press and hold the **ON/OFF** button for 2 seconds.

2. Mode Selection

Press the **MODE** button to cycle through the available detection modes:

- **Stud Scan:** Detects wood studs and joists. Offers three intensity modes:
 - **Exact:** Up to 0.39 inches (10mm)
 - **Middle:** Up to 0.79 inches (20mm)
 - **Deep:** Up to 1.49 inches (38mm)
- **Metal Scan:** Detects metal pipes, rebar, and other metallic objects up to 2.36 inches (60mm) deep.
- **AC Scan:** Detects live AC wires up to 2 inches (51mm) deep.
- **Magnetic Mode (Nail Finder):** Locates magnetic metal on studs up to 0.4 inches (10mm) deep.

3. Scanning Procedure

1. Select the desired scanning mode using the **MODE** button.
2. Place the scanner flat against the surface. Ensure the entire sensor pad is in contact with the wall.
3. Press the **ON/OFF** button to begin scanning.
4. Slowly slide the scanner horizontally across the surface. Do not lift or tilt the device during scanning.
5. Observe the LCD display for indicators:
 - **Signal Strength:** Bars or percentage indicate proximity to the detected object.
 - **Directional Arrows:** Guide you towards the center of the object.
 - **AC Warning Icon (⚡):** Appears when live AC wires are detected. An audible alert will also sound.
 - **Calibration Complete Icon:** Confirms successful calibration.
6. Mark the location of detected objects using a pencil or marker.



Metal Scan



Figure 3: The wall scanner in Metal Scan mode, showing detection of rebar within a wall. The display indicates increasing signal strength as the device approaches the metal object.



Wall Drilling is No Longer Dangerous

Precisely locate all kinds of live wires to avoid potentially serious mishaps

Figure 4: An example of the AC Scan mode detecting live wires. The display shows a "Danger!" warning and the AC icon, accompanied by an audible alert, indicating the presence of live electrical cables.



Figure 5: The scanner in Stud Scan mode, indicating the presence of a wooden stud. The image also illustrates the use of the integrated nail finder to pinpoint magnetic metal objects within the stud.



Figure 6: The aquota wall scanner is suitable for a variety of tasks, including home renovation, construction, plumbing and electrical repairs, and handcrafted woodwork, making it a versatile tool for professionals and DIY enthusiasts.

4. Additional Features

- **Bubble Level:** Use the integrated bubble level for accurate horizontal and vertical alignment.
- **Scale Ruler:** The bottom edge of the device features a scale ruler for quick measurements.

MAINTENANCE

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

TROUBLESHOOTING

Problem	Possible Cause	Solution
Inaccurate readings or no detection.	Improper calibration, low battery, or scanning too fast/slow.	Recalibrate the device. Replace the battery if low. Scan at a consistent, slow pace. Ensure full contact with the surface.
Device does not power on.	Dead or incorrectly installed battery.	Check battery polarity. Replace with a new 9V battery.
Constant AC warning.	High electromagnetic interference or live wires are present.	Move to a different area to calibrate. If the warning persists, assume live wires are present and exercise extreme caution.
Display is dim or flickering.	Low battery.	Replace the 9V battery.

SPECIFICATIONS

Model Number: 850

Power Source: 1 x 9V Battery (included)

Stud Scan Depth:

- Exact Mode: Up to 0.39 inches (10mm)
- Middle Mode: Up to 0.79 inches (20mm)
- Deep Mode: Up to 1.49 inches (38mm)

Metal Scan Depth: Up to 2.36 inches (60mm)

AC Wire Scan Depth: Up to 2 inches (51mm)

Magnetic Mode (Nail Finder) Depth: Up to 0.4 inches (10mm)

Auto Power-Off: 120 seconds

Product Dimensions: 17 x 3.5 x 8 cm (6.7 x 1.4 x 3.1 inches)

Product Weight: 300 g (0.66 lbs)

Color: Orange

Manufacturer: aquota

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the product packaging or contact aquota customer service directly. Specific warranty details may vary by region and retailer.

SAFETY INFORMATION

WARNING: Always exercise extreme caution when scanning for live electrical wires. The AC scan function is designed to detect unshielded live AC wires. Shielded wires or wires behind metal conduits may not be detected. Always turn off power to the area before drilling or cutting into walls.

- Do not rely solely on the scanner to locate live wires. Use other methods, such as checking electrical outlets and switches, and consulting building plans.

- Keep the device away from water and moisture.
- Do not attempt to open or modify the device. There are no user-serviceable parts inside.
- Dispose of batteries responsibly according to local regulations.

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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.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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