

HW-QB6

Generic HW-QB6 Wall Stud Finder Sensor Instruction Manual

Model: HW-QB6 | Brand: Generic

1. INTRODUCTION

The Generic HW-QB6 Wall Stud Finder Sensor is a versatile 5-in-1 electronic detector designed to accurately locate wood and metal studs, metal objects, and live AC wires behind walls. This device is an essential tool for home renovations, installations, and various DIY projects, helping to prevent damage and ensure safety by identifying hidden elements before drilling or cutting.



Figure 1: Generic HW-QB6 Wall Stud Finder Sensor (Yellow model)

2. KEY FEATURES

- **Versatile Detection Modes:** Includes 1/2" Stud Scan (up to 13mm deep), 1" Stud Scan (up to 25mm deep), 1 1/2" Stud Scan (up to 38mm deep), Metal Mode (up to 80mm for magnetic, 60mm for non-

magnetic), and AC Mode (up to 51mm deep for live unshielded wires).

- **Advanced Display:** Features a clear LCD with a Green Backlight for easy reading, a Metal Depth Indicator, and a Low Voltage Indicator.
- **Automatic Shutdown:** Conserves battery life by automatically powering off after three minutes of inactivity.
- **Durable Construction:** Made from robust electronic components and plastic for long-term use.



Figure 2: Illustration of the five distinct scanning modes and their respective detection depths.



MULTI PURPOSE

Sound warning, efficiently select quickly & accurately locate the stud metal

- ✓ Stud Center
- ✓ Joist
- ✓ Stud Edge
- ✓ Metal Pipes/Rebar
- ✓ Wooden Beams
- ✓ AC Wire

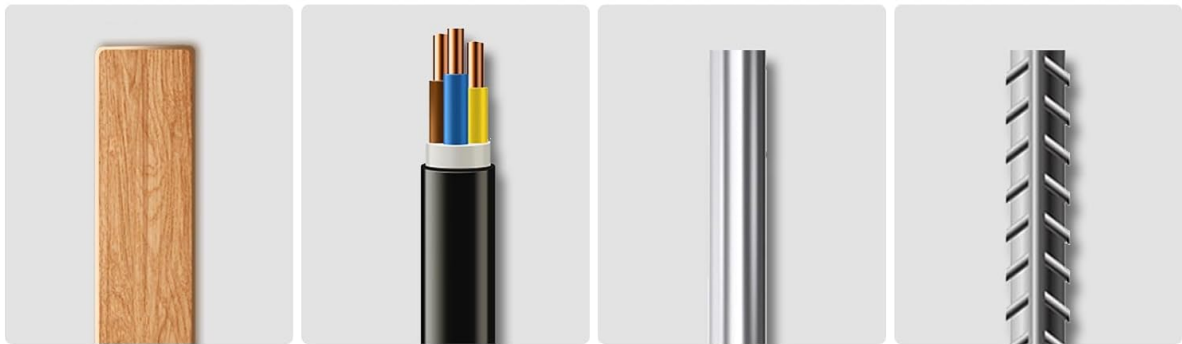


Figure 3: The device's multi-purpose detection capabilities, including stud centers, joists, wooden beams, metal pipes/rebar, and AC wires.

3. SAFETY INFORMATION AND IMPORTANT NOTES

- This stud finder is designed for use on **dry interior walls only**.
- Freshly painted walls may require one week or longer to dry completely before accurate scanning can be performed.
- Sensing depth and accuracy can vary due to factors such as moisture content of materials, wall texture, and paint thickness.
- This device is **not designed to scan** materials such as ceramic floor tile, carpeting and padding, lath and plaster walls, foil-covered insulation board, glass, or any other dense material.
- Always exercise caution when drilling or cutting into walls. The AC Mode helps detect live wires, but it is crucial to verify findings and proceed with care to avoid electrical hazards.



Figure 4: Visual representation of the device indicating live AC wires, emphasizing the importance of caution during wall work.

4. SETUP

4.1. Battery Installation

1. Locate the battery compartment on the back of the HW-QB6 unit.
2. Slide open the battery cover.
3. Insert a 9V battery, ensuring correct polarity (+/-).
4. Close the battery cover securely.



Figure 5: Rear view of the HW-QB6 showing the battery compartment with the cover removed, ready for battery insertion.

4.2. Powering On

Press the On-Off/Stud Mode button (red button with power symbol) to turn on the device. The LCD will illuminate, and the device will typically default to the last used mode or a standard stud scan mode.

5. OPERATION

5.1. Understanding the Display

The LCD provides crucial information during scanning. Refer to the diagram below for an explanation of each indicator:



Figure 6: Detailed breakdown of the HW-QB6 LCD display, showing indicators for battery, scan modes, signal strength, center indication, AC warning, metal depth, and magnetic/non-magnetic metal detection.

- **Low Battery Icon:** Indicates when the battery needs replacement.
- **Signal Bar:** Shows the strength of the detected signal, increasing as you approach the target.
- **Center Indication:** An icon and text (CENTER) appear when the device is directly over the center of a stud or object.
- **Arrow Direction:** Guides you towards the center of the detected object.
- **Scan Mode Icons:** Indicate the currently selected stud scan mode (1/2", 1", 1 1/2").
- **AC Warning Icon:** Flashes when live AC wires are detected.
- **Metal Depth Indication:** Displays the approximate depth of detected metal.
- **Magnetic & Non-Magnetic Icon:** Differentiates between types of metal detected.

5.2. Selecting a Mode

- **Stud Mode:** Press the "On-Off/Stud Mode" button (red button) to cycle through the 1/2", 1", and 1 1/2" stud scan depths. If unsure of wall thickness, start with 1/2" scan mode. If no detection, proceed to 1" or 1 1/2" scan mode.
- **Metal Mode:** Press the "Metal Mode" button (button with metal icon) to activate metal detection.

- **AC Mode:** Press the "AC Mode" button (button labeled AC) to activate live AC wire detection.

5.3. Scanning Procedure

1. **Placement:** Place the device flat against the wall where you wish to scan. Ensure the entire scanning surface is in contact with the wall.
2. **Calibration (Automatic):** The device typically calibrates automatically upon placement. Hold it steady for a few seconds until the display stabilizes.
3. **Scanning:** Slowly slide the device horizontally across the wall. Maintain firm, even pressure. Do not lift the device from the wall during scanning.
4. **Detection:** As the device approaches a stud or object, the signal bars will increase, and arrows will guide you. The "CENTER" indicator will appear when the device is directly over the center of the object.
5. **Marking:** Once the center is found, mark the location on the wall. For greater accuracy, scan the area from both left and right directions and mark both edges to define the width of the object.

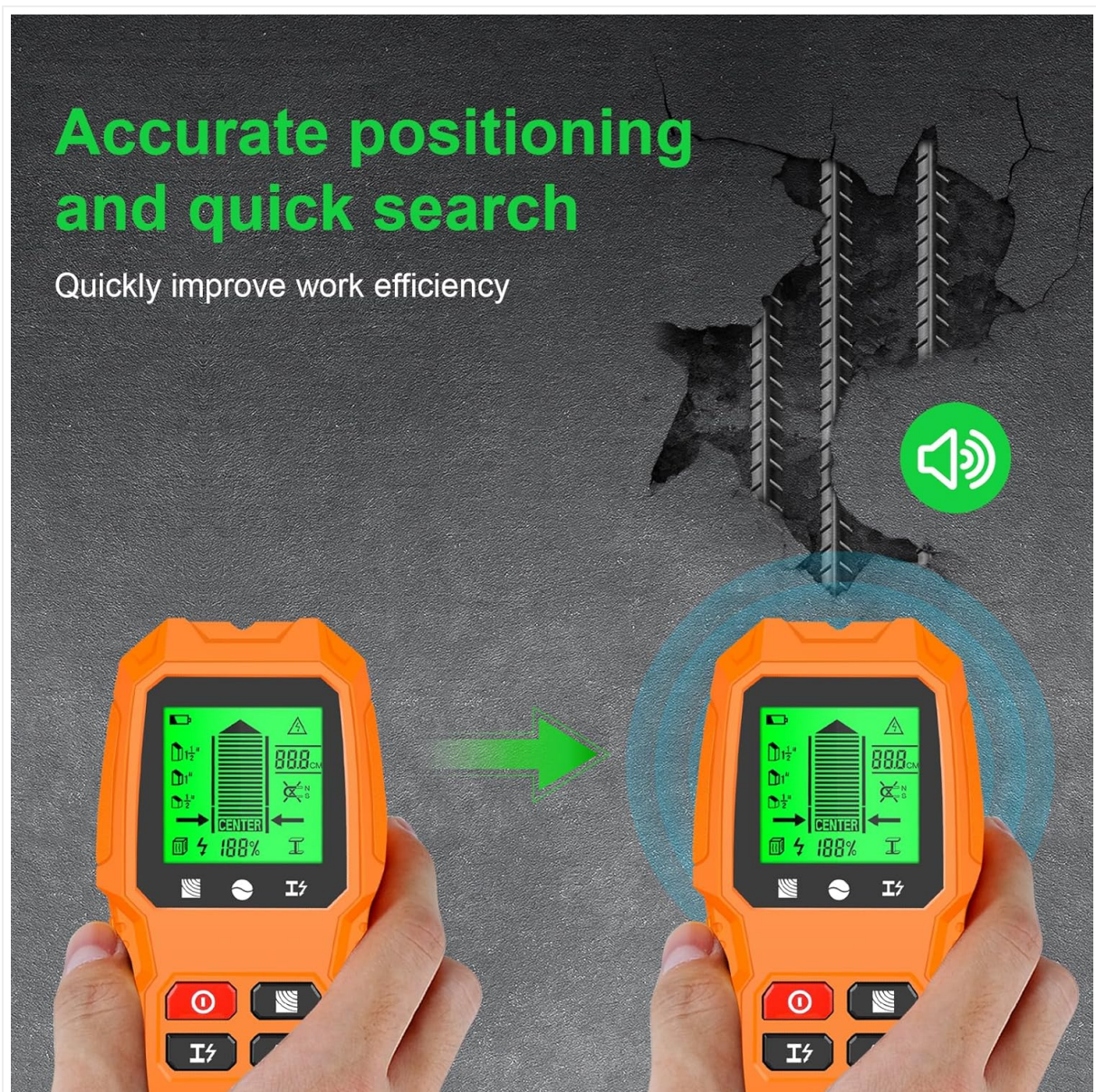


Figure 7: Depiction of the HW-QB6's accurate positioning and quick search capabilities, showing how the device guides the user to the center of a stud.

6. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the HW-QB6 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 and damage.

7. TROUBLESHOOTING

- **Inaccurate Readings:**
 - Ensure the wall surface is dry and free from excessive moisture.
 - Verify that the device is held flat against the wall and moved slowly and evenly.
 - Check for wall textures or paint that might interfere with scanning.
 - Recalibrate by lifting the device and placing it back on the wall in a different spot.
- **No Detection:**
 - Confirm the correct mode is selected for the target material (stud, metal, AC).
 - For studs, try different scan depths (1/2", 1", 1 1/2").
 - Check battery level; replace if the low voltage indicator is on.
 - Ensure the wall material is not one of the unsupported types (e.g., lath and plaster, ceramic tile).
- **Low Battery Indicator:** Replace the 9V battery immediately to ensure optimal performance.

8. SPECIFICATIONS

Model Number	HW-QB6
Brand	Generic
Color	Yellow
Power Source	Battery Powered (9V battery required)
Material	Plastic, Electronic Components
Item Weight	7.04 ounces (approximately 199.6 grams)
Stud Scan Depth (1/2")	Up to 13mm (0.5 inches)
Stud Scan Depth (1")	Up to 25mm (1 inch)
Stud Scan Depth (1 1/2")	Up to 38mm (1.5 inches)
Metal Scan Depth	Up to 80mm (3.2 inches) for magnetic metal; 60mm (2.4 inches) for non-magnetic metal
AC Wire Scan Depth	Up to 51mm (2 inches) for live unshielded AC wires
Automatic Shutdown	After 3 minutes of inactivity

9. WARRANTY AND SUPPORT

For detailed warranty information, technical support, or service inquiries regarding your Generic HW-QB6 Wall Stud Finder Sensor, please refer to the product packaging or visit the manufacturer's official website. Contact information for customer service is typically provided with the product documentation.