

WORX WX086

WORX WX086 Stud Finder Wall Scanner User Manual

3.7V Stud Finder Wall Scanner WX086 Wood Beam & Drywall & AC Wire Metal Detector

1. INTRODUCTION

Thank you for choosing the WORX WX086 Stud Finder Wall Scanner. This device is designed to accurately detect wood studs, metal objects (like rebar, pipes), and live AC wires hidden behind walls, floors, and ceilings. Please read this manual carefully before operation to ensure safe and effective use of your new tool.

2. SAFETY INSTRUCTIONS

Always observe basic safety precautions when using electrical tools to reduce the risk of fire, electric shock, and personal injury.

- **Read All Instructions:** Familiarize yourself with the tool's functions and operating procedures.
- **Do Not Rely Solely on Detector:** Always use caution when drilling, cutting, or nailing into walls, ceilings, or floors that may contain electrical wiring or plumbing.
- **Power Off Circuits:** Before drilling or cutting, it is recommended to turn off the power to the area you are working on.
- **Avoid Water:** Do not expose the device to water or operate it in damp conditions.
- **Battery Safety:** Use only the specified charging method. Do not disassemble, short-circuit, or expose the battery to high temperatures.
- **Storage:** Store the device in a dry, cool place, out of reach of children.

3. PRODUCT FEATURES

- **3-in-1 Multi-Modes:** Detects metal, wood beams, and live AC wires.
- **Advanced Sensor Technology:** High-performance magnetic sensor for greater accuracy and reduced interference.
- **HyperCrystal LCD Display:** Clear display indicates detection direction, signal strength, and battery status.
- **Audio Alarming:** Beeping sound increases in intensity as you get closer to the target.
- **Automatic Calibration:** Self-calibrates upon power-on for reliable and accurate readings.
- **Ergonomic Design:** Comfortable over-mould rubber grip and low vibration for extended use.
- **Compact and Lightweight:** Easy to handle and maneuver in tight spaces.



Image: The WORX WX086 features three detection modes: AC Scan for live wires up to 51mm deep, Stud Scan for wood beams up to 38mm deep, and Metal Scan for metal objects up to 120mm deep.

The WORX logo is displayed in white, bold, uppercase letters within a black rectangular box. The box is positioned on a grey background that occupies the left half of the top banner.

DO IT YOURSELF.
DO IT BETTER.
DO IT WITH WORX.

Image: The WX086 is designed for comfortable handling with an ergonomic grip and is lightweight for easy portability and use.

4. COMPONENTS AND WHAT'S INCLUDED

The WORX WX086 package includes the following items:

- WORX WX086 Stud Finder Wall Scanner
- USB Type-C Charging Cable
- Protective Cloth Bag

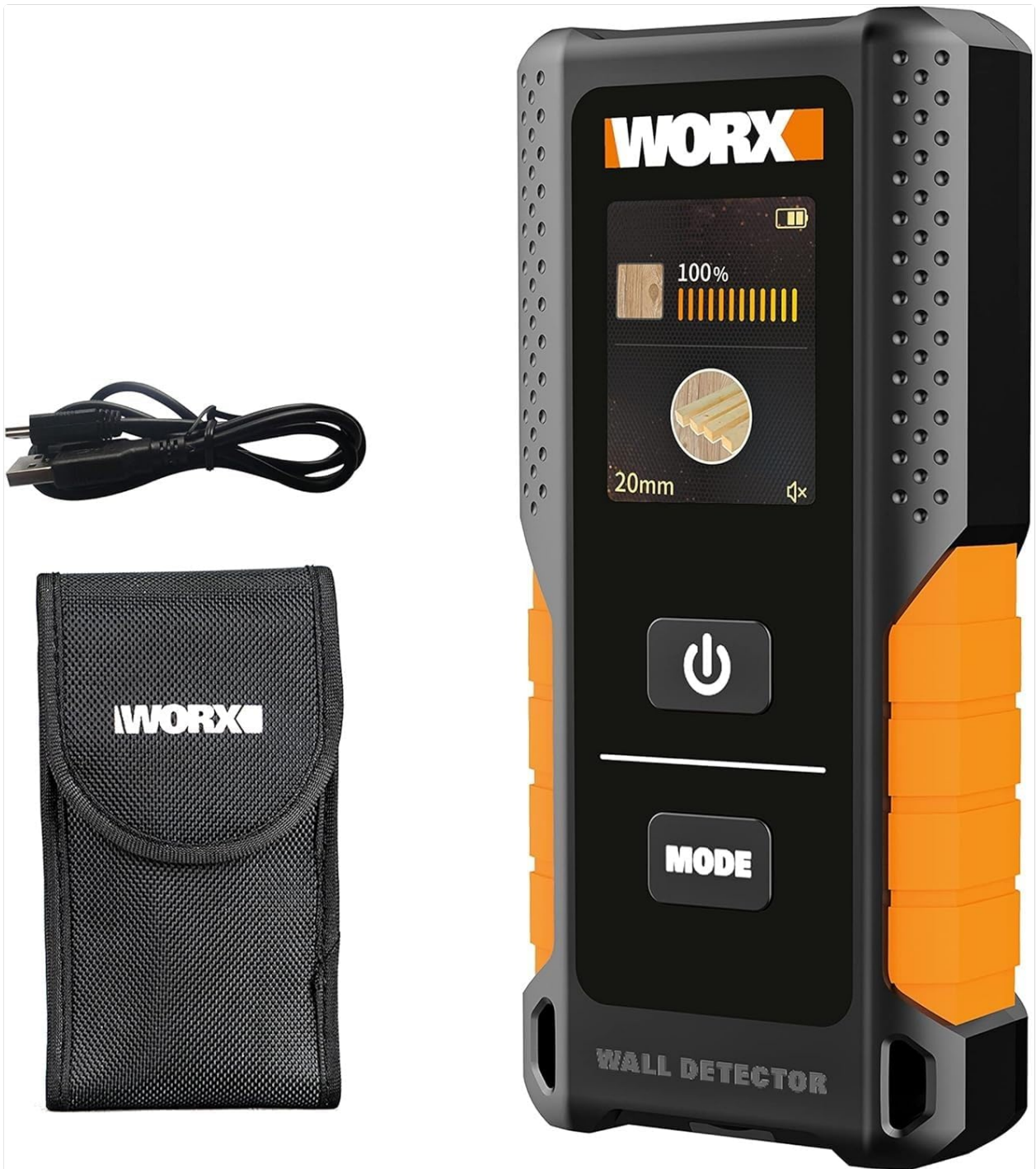


Image: The complete package includes the WX086 device, its USB charging cable, and a convenient cloth bag for storage and transport.

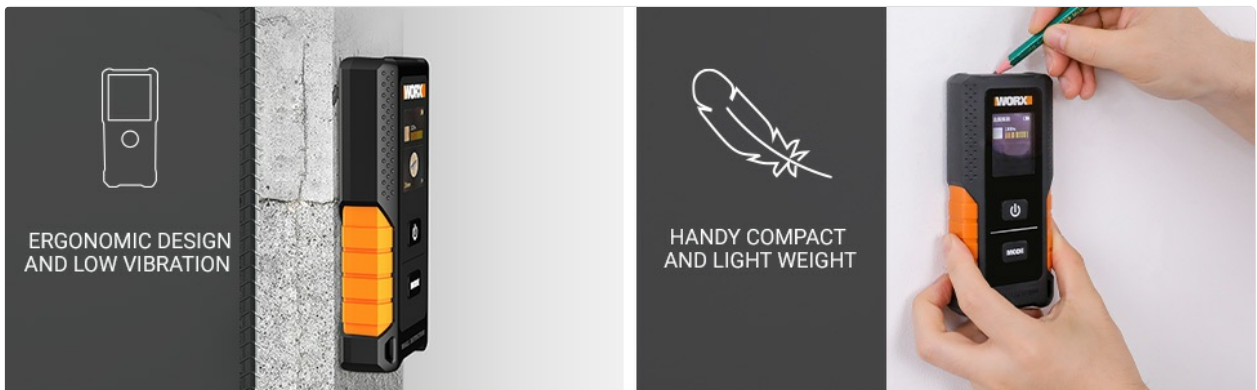


Image: Detailed view of the WX086 highlighting its key components including the HyperCrystal LCD, power and mode buttons, ergonomic rubber design, and advanced sensor technology.

5. SETUP

5.1 Charging the Battery

The WX086 is equipped with a built-in Lithium-ion battery. Before first use, ensure the battery is fully charged.

1. Connect the provided USB Type-C cable to the charging port on the device.
2. Plug the other end of the USB cable into a compatible USB power adapter (not included) or a computer USB port.
3. The battery indicator on the LCD display will show charging status.
4. Once fully charged, disconnect the charging cable.

5.2 Powering On/Off

- To power on the device, press and hold the power button (**U**) until the LCD screen illuminates.
- To power off, press and hold the power button again until the screen turns off.

6. OPERATING INSTRUCTIONS

The WX086 features automatic calibration and mode detection. Simply power on the device and place it flat against the surface you wish to scan.

6.1 General Scanning Procedure

1. Ensure the device is fully charged.
2. Press the power button to turn on the device. It will automatically calibrate.
3. Place the scanner flat against the wall surface. Ensure full contact.
4. Slowly slide the scanner horizontally across the surface. Keep it flat against the wall.
5. The LCD display will show the detected material (wood, metal, AC wire) and signal strength. An audible alarm will sound, increasing in pitch as you approach the center of the object.
6. Mark the edges of the detected object as indicated on the display.



HYPERCRYSTAL LCD DISPLAY

Image: The WX086's HyperCrystal LCD display provides clear indications, allowing users to accurately mark the location of detected objects on the wall.

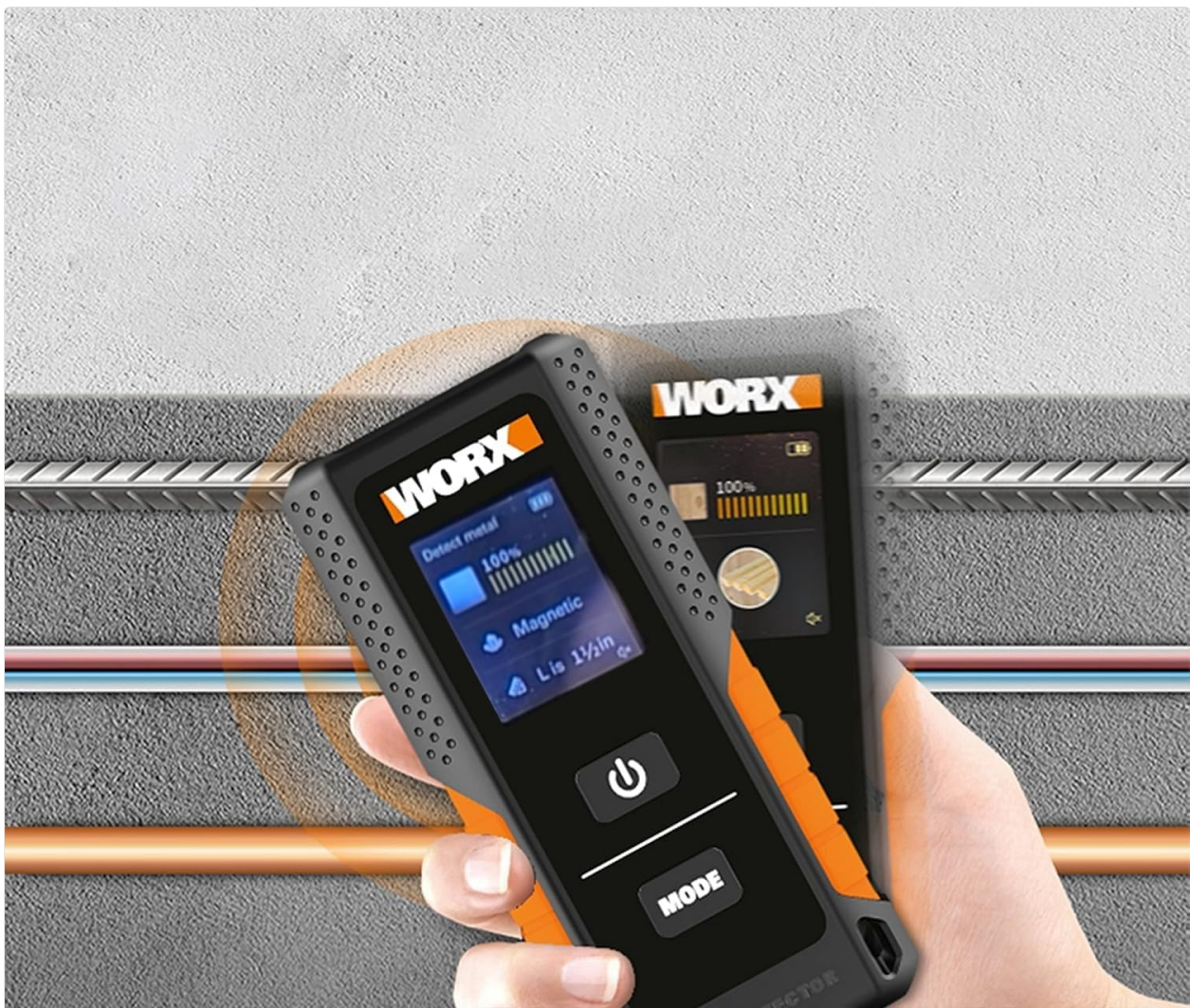
6.2 Specific Detection Modes

The WX086 automatically identifies the material. The display will show icons for:

- **Wood Stud Detection:** Indicated by a wood beam icon. Max depth: 38mm.
- **Metal Detection:** Indicated by a metal icon. Max depth: 120mm.
- **AC Wire Detection:** Indicated by an AC wire icon. Max depth: 51mm.



Image: The WX086 is capable of detecting metal objects, such as rebar, embedded within concrete walls.



UPGRADED SMART STUD SENSOR TECHNOLOGY

Image: Utilizing upgraded smart stud sensor technology, the WX086 can accurately locate hidden pipes and electrical wires within walls.

7. CALIBRATION

The WX086 features automatic calibration. Each time the device is powered on, it performs a self-calibration. For optimal accuracy, ensure the device is placed flat against the wall in an area free of known obstructions before starting a scan. If you move to a different wall or surface type, it is recommended to briefly lift the device and place it back down to allow it to recalibrate to the new surface conditions.

8. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in its protective cloth bag in a dry, dust-free environment when not in use.

- **Battery Care:** For long-term storage, charge the battery to approximately 50% every 3-6 months to maintain battery health.
- **Avoid Drops:** While designed with durability in mind, avoid dropping the device to prevent damage to internal components.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Inaccurate readings / False positives	Improper calibration; too fast scanning; high humidity; presence of other materials.	Ensure proper calibration by placing flat on wall before scanning. Scan slowly. Avoid scanning over very damp areas.
Device not powering on	Low battery; faulty power button.	Charge the battery fully. If problem persists, contact customer support.
No detection in AC mode	Wires are not live; wires are too deep; shielded wires.	Ensure the circuit is live. Detection depth for AC wires is 51mm. Some shielded wires may be harder to detect.
Display flickering or unresponsive	Low battery; software glitch.	Charge the battery. Try turning the device off and on again.

10. SPECIFICATIONS

Feature	Specification
Model Number	WX086
Voltage	3.7 Volts
Power Source	Battery Powered (Lithium Ion)
Product Dimensions	6.2 x 2.6 x 13.6 cm
Item Weight	360 g
Max. Metal Detection Depth	120 mm
Max. Wood Beam Detection Depth	38 mm
Max. AC Wire Detection Depth	51 mm

Feature	Specification
Display Type	LCD

11. WARRANTY AND SUPPORT

WORX provides a limited warranty for its products. Please refer to the specific warranty terms for your region.

- **Tool Warranty:** 3 Years Limited Warranty for the WX086 tool.
- **Battery Warranty:** 2 Years Limited Warranty for the included Lithium-ion battery.

For technical support, warranty claims, or service inquiries, please visit the official WORX website or contact your local WORX customer service center. Keep your purchase receipt as proof of purchase for warranty purposes.