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› [Faithfull](#) /

› [Faithfull DET31 3-in-1 Detector Stud, Metal & Live Wire Instruction Manual](#)

Faithfull DET31

Faithfull DET31 3-in-1 Detector Instruction Manual

Model: DET31

1. INTRODUCTION

The Faithfull DET31 3-in-1 Detector is an advanced electronic device designed to assist in safely locating concealed objects within walls, ceilings, and floors. This versatile tool detects wood studs, metal objects (such as pipes and rebar), and live AC voltage, helping to prevent damage and ensure safety during drilling, nailing, or screwing tasks. By providing clear indications through LED lights and an audible buzzer, the detector removes guesswork and enhances precision in various home improvement and construction applications.



Figure 1: Faithfull DET31 3-in-1 Detector. This image displays the device from an angled perspective, highlighting its compact design, control buttons, and LED indicator panel.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the Faithfull DET31 detector. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always assume that live electrical wires are present behind walls. Exercise extreme caution when working near detected AC voltage.
- Do not rely solely on the detector to determine the presence of live wires. Always turn off power to the

area at the circuit breaker before drilling or cutting into walls.

- Keep the device dry. Do not expose it to moisture or rain.
- Do not use the detector if it appears damaged.
- This device is intended for detecting objects in common building materials. Its accuracy may be affected by unusual wall compositions or environmental factors.
- Keep out of reach of children.

3. PRODUCT OVERVIEW

The Faithfull DET31 features an intuitive design for ease of use. Key components include:

- **LED Indicators:** Multiple LEDs illuminate to indicate proximity and location of detected objects.
- **Power Button:** Activates and deactivates the device.
- **Mode Selector Switch:** Allows selection between Stud, Metal, and AC Wire detection modes.
- **Marking Groove:** A dedicated groove at the top for precise marking of detected locations.
- **Battery Compartment:** Located on the rear for a 9V battery.



Figure 2: Front view of the Faithfull DET31 Detector. This image provides a clear view of the LED display, power button, and the mode selection switch on the side.

4. SETUP

4.1 Battery Installation

1. Locate the battery compartment cover on the back of the detector.
2. Slide the cover open or remove it according to the design.
3. Insert one 9V 6F22 Alkaline battery, ensuring correct polarity (+/-). A 9V 6F22 Alkaline battery is included with the device.

4. Replace the battery compartment cover securely.

Note: Always use a fresh 9V alkaline battery for optimal performance. Remove the battery if the device will not be used for an extended period to prevent leakage.

5. OPERATING INSTRUCTIONS

The detector operates by pressing and holding the test button while scanning. The LED indicators and buzzer will provide feedback.

5.1 General Operation and Calibration

1. Select the desired detection mode (Stud, Metal, or AC Wire) using the side switch.
2. Place the detector flat against the surface to be scanned. Ensure there are no obstructions or your hand is not covering the sensor area.
3. Press and hold the 'START' button. The device will automatically calibrate. Keep the detector still on the surface during calibration.
4. Once calibrated (indicated by a steady green LED or a specific sound), slowly slide the detector across the surface while continuously holding the 'START' button.

5.2 Stud Detection Mode

Use this mode to locate wooden studs behind walls.

- Select 'STUD' mode.
- Calibrate the device on a section of the wall where you are certain there are no studs.
- Slowly move the detector horizontally across the wall.
- As the detector approaches a stud, the LED indicators will progressively light up, and the buzzer may sound. The center LED and a continuous buzzer typically indicate the center of the stud.

5.3 Metal Detection Mode

This mode is used to find metal pipes, rebar, nails, and other hidden metal objects.

- Select 'METAL' mode.
- Calibrate the device on a section of the wall free from metal.
- Slowly move the detector across the surface.
- LEDs will illuminate and the buzzer will activate as metal is detected. The intensity of the indication increases as you get closer to the metal object.

5.4 AC Wire Detection Mode

Use this mode to detect live AC voltage (electrical wires) behind walls, ceilings, and floors.

- Select 'AC WIRE' mode.
- Calibrate the device on a section of the wall where no live wires are expected.
- Slowly move the detector across the surface.
- The LEDs and buzzer will indicate the presence of live AC voltage. The detection is sensitive and provides a general indication of live wires.
- **WARNING:** Always verify the absence of power by turning off the circuit breaker before any work involving cutting or drilling.

6. MARKING FEATURE

The Faithfull DET31 includes a marking groove at the top of the device. Once an object is detected and its location pinpointed, you can use this groove to accurately mark the surface with a pencil or marker before proceeding with any work. This ensures precise placement for drilling, nailing, or screwing.

7. APPROXIMATE DETECTION DEPTHS

The detection depth can vary based on wall material, moisture content, and other environmental factors. The following are approximate maximum detection depths:

- **Stud Mode:** Wood stud of 30x30mm: ≤14mm
- **Metal Mode:** Iron pipe of dia. 25mm: ≤25mm
- **AC Mode:** Typical depth of 50mm for 90-250V at 50-60Hz

8. MAINTENANCE

- **Cleaning:** Wipe the detector with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a dry, dust-free environment, away from extreme temperatures.
- **Battery:** Remove the battery if the detector will not be used for an extended period to prevent corrosion.

9. TROUBLESHOOTING

- **Inaccurate Readings:** Ensure the device is properly calibrated on a clear section of the wall before scanning. Avoid placing hands or other objects near the sensor area during operation.
- **No Detection/Weak Signal:** Check the battery level and replace if necessary. Ensure the correct mode is selected for the object you are trying to detect.
- **Constant Indication:** If the detector continuously indicates an object, try recalibrating in a different spot or consider if the wall material itself is causing interference (e.g., metal lath).
- **Device Not Turning On:** Verify the battery is correctly installed and fully charged.

10. SPECIFICATIONS

Feature	Specification
Brand	Faithfull
Model Number	DET31
Power Source	Battery Powered (1x 9V 6F22 Alkaline)
Battery Life	Approximately 500 Hours
Material	Metal (referring to internal components/detection capability)
Item Weight	3.04 ounces
Product Dimensions	9.25"L x 5.67"W x 1.38"H

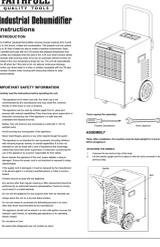
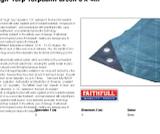
International Protection Rating	IP54
Operating Frequency	60 Hz (for AC detection)
Recommended Uses	Detecting and locating studwork, metal, AC voltage, and live cables in walls, ceilings, and floors

11. WARRANTY AND SUPPORT

Specific warranty information for the Faithfull DET31 detector is typically provided at the point of purchase or within the product packaging. Please refer to your purchase receipt or contact the retailer for details regarding warranty coverage and claims. For technical support or further assistance, please contact Faithfull customer service through their official website or the contact information provided with your product.

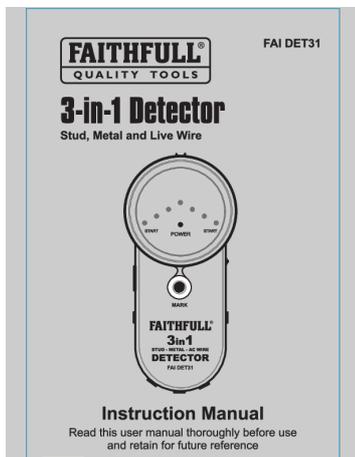
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Related Documents - DET31

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	<p>Faithfull Adjustable Support Props - Lightweight Temporary Support</p> <p>Faithfull Adjustable Support Props offer lightweight temporary support for overhead fixing, adjustable from 1600mm to 2900mm. Features swivel feet for stability on uneven surfaces. Maximum load capacity: 60kg vertical, 20kg at 45°.</p>
	<p>Faithfull Heavy-Duty Grease Gun Side Lever: Instructions and Troubleshooting Guide</p> <p>Comprehensive guide for the Faithfull Heavy-Duty Grease Gun Side Lever, covering loading procedures, common issues like no grease pumping, and step-by-step solutions. Includes contact information for Faithfull Tools.</p>

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[\[pdf\]](#) Instructions

1 faithfulltools support FAIDET31INTRODUCTION Faithfull Tools 3 in Detector Stud Metal and Live Wire FAI DET31 View File FAIDET31 instructions Detection Procedure Set the selector switch to STUD position 2 Calibration Place unit against wall Depress hold TEST button down detector will begin calibration locate wooden studwork metal AC voltage scanning find nails pipes rebar this calibrate or When it sounds two beeps is

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