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BOSCH D-Tect150

Bosch D-Tect 150 Wall and Floor Scanner User Manual

Model: D-Tect150

1. PRODUCT OVERVIEW

The Bosch D-Tect 150 is an advanced wall and floor scanner designed for precise detection of various materials. Utilizing state-of-the-art Ultra-Wide Band (UWB) radar technology, it accurately identifies ferrous and non-ferrous metals, electrical cables, wooden beams, and plastics, including heating pipes in floors and walls. This tool provides millimetre-accurate detection, indicating objects via acoustic and visual signals on its large, illuminated color display.

The D-Tect 150 offers an intuitive user interface with a multilingual menu and specific modes tailored for different applications. Its robust design ensures durability on construction sites, featuring IP54 dust and splash protection and remaining fully functional even after drops from up to 1 meter. The device is calibration-free, self-calibrating throughout its operation for immediate and continuous use.





Figure 1: Bosch D-Tect 150 Wall and Floor Scanner. This image shows the front view of the blue and black scanner with its digital display showing detection results.

2. SAFETY INFORMATION

Always read and understand all safety warnings and instructions before operating the Bosch D-Tect 150. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- **Electrical Safety:** Be aware of live electrical cables. The device detects power cables, but always exercise extreme caution. Do not rely solely on the detection device to determine the presence of live wires.
- **Battery Handling:** Use only specified batteries (4 x 1.5 V LR6 (AA)). Ensure correct polarity. Do not mix old and new batteries or different types of batteries. Remove batteries if the device is not used

for extended periods.

- **Environmental Conditions:** The device has IP54 dust and splash protection. However, avoid direct exposure to heavy rain or immersion in water. Operate within specified temperature ranges.
- **Interference:** Strong electromagnetic fields or large metal objects nearby may affect detection accuracy.
- **Intended Use:** This device is intended for detecting objects in walls and floors. Do not use for purposes other than its intended use.

3. COMPONENTS AND WHAT'S IN THE BOX

The Bosch D-Tect 150 package includes the following items:

- Bosch D-Tect 150 Wall and Floor Scanner
- Soft Carrying Case
- 4 x AA 1.5V Batteries



Figure 2: Contents of the Bosch D-Tect 150 package. The image displays the scanner, its soft carrying case, and the included AA batteries.

4. SETUP

4.1. Battery Installation

1. Open the battery compartment cover located on the back of the device.
2. Insert the 4 x 1.5V LR6 (AA) batteries, ensuring correct polarity as indicated inside the compartment.
3. Close the battery compartment cover securely.

4.2. Initial Power On and Language Selection

- Press the **Start** button to power on the device.
- Upon first use, the device may prompt you to select a language. Use the arrow buttons to navigate and the **Setup** button to confirm your selection.

4.3. Calibration

The Bosch D-Tect 150 is designed for calibration-free operation. It automatically calibrates from the start of detection and continues to self-calibrate throughout your project, ensuring readiness for use at any time.

5. OPERATING INSTRUCTIONS

5.1. Selecting Detection Mode

The D-Tect 150 offers seven distinct detection modes for various materials and conditions:

- **Concrete:** For standard concrete.
- **Wet Concrete:** For concrete with higher moisture content.
- **Deep Concrete:** For detecting objects at greater depths in concrete.
- **In-Floor Heating:** Specifically for locating heating pipes in floors.
- **Drywall:** For detecting studs, pipes, and wires behind drywall.
- **Metal:** For general metal detection.
- **Signal View:** Provides a detailed graphical representation of the signal strength, useful for complex situations.

Use the menu and arrow buttons on the device to select the appropriate mode for your application.

5.2. Performing a Scan

1. Ensure the selected detection mode is suitable for the material you are scanning.
2. Place the scanner flat against the surface to be scanned.
3. Press the **Start** button.
4. Move the device slowly and steadily across the surface. The display will show the location and depth of detected objects.
5. Objects are indicated by both visual cues on the display and an acoustic signal.



Figure 3: The Bosch D-Tect 150 being used to scan a wall, showing its ability to detect hidden pipes and electrical wires.



Figure 4: A user marking the location of detected objects on a wall after scanning with the Bosch D-Tect 150, demonstrating its precision for drilling applications.

5.3. Interpreting the Display

The large, illuminated color display provides critical information:

- **Object Location:** Indicates the exact position of the object.
- **Depth:** Shows the depth of the object from the surface.
- **Material Properties:** Displays the likely material of the detected object (e.g., metal, wood, plastic).
- **Permitted Drilling Depth:** Suggests a safe drilling depth to avoid detected objects.
- **Detection Strength:** Visual bars indicate the strength of the detected signal.

For a visual demonstration of the product's capabilities and operation, please watch the official product video:

Your browser does not support the video tag.

Video 1: Bosch D-Tect 150 Wall and Floor Scanner with Ultra Wide Band Radar Technology. This video provides an overview of the scanner's features, applications, and how it operates in various detection modes.

6. MAINTENANCE

6.1. Cleaning

- Keep the device clean to ensure optimal performance.
- Wipe the exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Regularly clean the sensor area to prevent debris from affecting detection accuracy.

6.2. Storage

- Store the device in its soft carrying case when not in use.

- Store in a dry, dust-free environment, away from extreme temperatures.
- Remove batteries if storing for extended periods to prevent leakage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Dead or incorrectly installed batteries.	Check battery polarity. Replace with fresh batteries.
Inaccurate detection.	Incorrect mode selected; dirty sensor; strong interference; rapid scanning.	Select appropriate mode. Clean sensor. Move away from interference sources. Scan slowly and steadily.
No detection of known objects.	Object too deep; material not detectable in current mode; device malfunction.	Try "Deep Concrete" or "Signal View" mode. Ensure object is within detection limits. Contact support if issue persists.
Display is dim or unreadable.	Low battery; display settings.	Replace batteries. Check display brightness settings in the menu.

If you encounter issues not listed here or if solutions do not resolve the problem, please contact Bosch customer support.

8. SPECIFICATIONS

Feature	Detail
Brand	BOSCH
Model Number	D-Tect150
Detection Technology	Ultra-Wide Band (UWB) Radar
Max. Detection Depth	150 mm (approx. 6 inches)
Max. Detection Depth (Water-filled plastic pipe)	Up to 60 mm (2-3/8 inch)
Measuring Accuracy of Object Centre	± 5 mm
Detectable Materials	Ferrous and non-ferrous metals, electrical cables, wooden beams, plastics (e.g., heating pipes)
Dust and Splash Protection	IP54
Power Supply	4 x 1.5 V LR6 (AA) batteries
Dimensions (L x W x H)	220 x 97 x 120 mm (approx. 8.75 x 3.78 x 4.34 inches)
Item Weight	0.7 kg (approx. 1.6 pounds)

Feature	Detail
Display Type	Color LCD
Self-Calibration	Yes, continuous

Specification overview	
Detectable materials	Plastic pipes, ferrous metals, non-ferrous metals, wooden studs, live cables
Max. detection depth	150 mm
Detection depth, steel, max.	150 mm
Detection depth, copper, max.	150 mm
Detection depth of live cables, max.	60 mm
Detection depth of wooden substructures, max.	40 mm
Accuracy	± 5 mm
Automatic deactivation facility, approx.	5 minutes
Power supply	4 x 1.5 V LR6 (AA)
Weight, approx.	0.65 kg
Detection depths, max. (material)	
Detection depths, max. (mode)	
Display of max. drilling depth	
Dust and splash protection	IP 54
Additional function	Signal view, reliable measurements in damp concrete

Figure 5: A detailed specification overview table for the Bosch D-Tect 150, listing detectable materials, detection depths, accuracy, power supply, and other key features.

9. WARRANTY AND SUPPORT

9.1. Warranty Information

Bosch provides a limited warranty for the D-Tect 150 Wall and Floor Scanner. Please refer to the warranty card included with your product for specific terms, conditions, and duration of coverage. Keep your purchase receipt as proof of purchase for warranty claims.

9.2. Customer Support

For technical assistance, troubleshooting, or warranty service, please contact Bosch customer support. You can find contact information on the official Bosch website or in the documentation provided with your product.

Additional resources, including user guides and manuals, may be available online:

- [User Guide \(PDF\)](#)
- [User Manual \(PDF\)](#)

