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DeWin ZL610

DeWin ZL610 Rebar Scanner Instruction Manual

Model: ZL610

1. Introduction

The DeWin ZL610 Rebar Scanner is a portable, handheld instrument designed for detecting reinforcement bars in concrete structures. It integrates rebar positioning, protective layer thickness measurement, diameter estimation, data storage, and analysis capabilities. Its ergonomic design ensures simple operation, and the multi-coil structure provides fast response, high precision, and strong resolution. This device helps prevent drilling into steel bars, pipelines, and embedded components, thereby extending drill bit lifespan.
It is widely used in engineering acceptance, drilling guidance, steel bar positioning, home decoration, and structural analysis.



Figure 1.1: The DeWin ZL610 Rebar Scanner, highlighting its intelligent detection capabilities.



Figure 1.2: Examples of the DeWin ZL610 Rebar Scanner's application in construction and renovation, including drilling guidance and rebar detection.

2. Package Contents

Please check the package contents upon receipt to ensure all items are present:

- 1 x DeWin ZL610 Rebar Detector
- 1 x USB Data Cable
- 1 x Fabric Carrying Bag
- 1 x Software/Driver CD
- 1 x User Manual (this document)

Packaging display



Figure 2.1: The DeWin ZL610 Rebar Scanner, USB cable, fabric bag, CD, and manual as included in the package.

3. Product Overview

Familiarize yourself with the components and controls of your DeWin ZL610 Rebar Scanner:



Figure 3.1: Front view of the DeWin ZL610 Rebar Scanner with key components labeled.

Location Area: Top section of the device, used for scanning.

Lanyard: Attachment point for a wrist strap or lanyard.

Indicator Light: Provides visual feedback on device status.

Display Screen: 128x128 pixel LCD for displaying measurement data and menu options.

Shortcut Key / **Return Key:** Used for quick access to functions or navigating back in menus.

Delete Data / **Diameter Measurement Return Key:** Specific function key.

Move Options Up / **Switch Numbers and Letters:** Navigation button.

Return / **Move Left Option:** Navigation button.

Move Options Down / **Switch Numbers and Letters:** Navigation button.

Turn On/Off / **Confirm Option** / **Move to the Right:** Power button and selection/navigation control.

4. Technical Specifications

Feature	Specification
LCD Screen	128 x 128 pixels
Applicable Steel Bar Diameter Range	6mm - 50mm
Test Range (Positioning)	1mm - 120mm
Small Range	1mm - 60mm
Large Range	30mm - 120mm
Thickness Measurement Error	
1mm - 40mm	±1mm
41mm - 60mm	±2mm
61mm - 80mm	±3mm
81mm - 100mm	±5mm
101mm - 120mm	±8mm
Rebar Positioning Accuracy	
1mm - 60mm	±3mm
61mm - 120mm	±6mm
Diameter Measurement Mode	Optional
JGJ Detection	Optional
Data Storage Capacity	200,000 rebar measurement points
Automatic Shutdown Time	Configurable (Default: 90 minutes without operation)
Power Mode	DC5V
Built-in Battery	1800 mAh
Operating Temperature	-10℃ to 42℃
Product Dimensions	170mm x 78mm x 38mm
Item Weight	710g
Manufacturer	DEWIN





Figure 4.1: Physical dimensions of the DeWin ZL610 Rebar Scanner.

5. Setup

5.1 Charging the Device

The DeWin ZL610 Rebar Scanner is equipped with a built-in 1800 mAh high-capacity battery. Before initial use, or if the battery indicator shows low power, ensure the device is fully charged.

1. Connect the provided USB data cable to the charging port on the device.
2. Connect the other end of the USB cable to a DC5V power source (e.g., a USB wall adapter, computer USB port).
3. The indicator light will show the charging status. Once fully charged, disconnect the device from the power source.

5.2 Powering On/Off

- **To Power On:** Press and hold the power button (usually marked with a circle and a vertical line, as shown in Figure 3.1) until the display screen illuminates.
- **To Power Off:** Press and hold the power button until the device powers down. The device also features an automatic shutdown function, configurable up to 90 minutes of inactivity.

6. Operating Instructions

6.1 Basic Navigation

Use the navigation buttons (up, down, left, right, and confirm/power button) to move through menus and select options on the LCD screen.

6.2 Measurement Modes

The ZL610 Rebar Scanner offers various measurement modes for comprehensive analysis:

- **Rebar Positioning:** This mode helps locate the exact position of steel bars within concrete. Move the scanner slowly and evenly across the concrete surface. The display will indicate the presence and location of rebar.
- **Protective Layer Thickness Measurement:** The device measures the depth of the concrete cover over the rebar. Follow the on-screen prompts for accurate readings.
- **Diameter Estimation:** The scanner can estimate the diameter of the detected rebar. This feature may be optional or require specific settings.



Figure 6.1: The DeWin ZL610 Rebar Scanner in use, illustrating its rebar positioning accuracy and compact design.

6.3 Calibration

For optimal accuracy, periodic calibration may be required. Refer to the device's on-screen menu or the included CD for detailed calibration procedures. Typically, calibration involves scanning a known reference or following a guided process on the device.

6.4 Data Storage and Export

The device can store up to 200,000 rebar measurement points. Use the menu options to save measurement data. The included USB data cable and software (on the CD) can be used to export and analyze the stored data on a computer.

7. Maintenance

7.1 Cleaning

Keep the device clean and dry. Use a soft, slightly damp cloth for cleaning the exterior. Do not use abrasive

cleaners, solvents, or harsh chemicals, as these can damage the device's casing or screen.

7.2 Storage

When not in use, store the DeWin ZL610 Rebar Scanner in its provided fabric carrying bag to protect it from dust, dirt, and physical damage. Store the device in a cool, dry place, away from direct sunlight and extreme temperatures.

7.3 Battery Care

To maintain battery health and longevity, recharge the battery regularly, even if the device is not in frequent use. Avoid fully discharging the battery for extended periods.

8. Troubleshooting

If you encounter issues with your DeWin ZL610 Rebar Scanner, refer to the following common problems and solutions:

- **Device not powering on:**
  Ensure the battery is sufficiently charged. Connect the device to a power source using the USB cable and allow it to charge for at least 30 minutes before attempting to power on again.
- **Inaccurate readings:**
  Verify that the device is properly calibrated. Refer to the calibration section (Section 6.3) or the on-screen menu for calibration instructions. Ensure the scanning surface is clean and free of obstructions. Confirm that the correct measurement mode is selected for your application.
- **Device freezes or becomes unresponsive:**
  If the device becomes unresponsive, try pressing and holding the power button for an extended period (e.g., 10-15 seconds) to force a shutdown. If this does not work, allow the battery to fully discharge, then recharge and restart the device. If the issue persists, contact customer support.
- **Data transfer issues:**
  Ensure the USB cable is securely connected to both the device and the computer. Verify that the necessary drivers or software from the included CD are installed on your computer. Try using a different USB port or cable.

9. Safety Information

Please read and adhere to the following safety guidelines to ensure safe operation and prevent damage to the device or injury to yourself:

- Do not expose the device to extreme temperatures, high humidity, or direct sunlight for prolonged periods.
- Do not attempt to disassemble, modify, or repair the device yourself. Refer all servicing to qualified personnel.
- Use the device only for its intended purpose as a rebar scanner.
- Keep the device away from strong magnetic fields, which may interfere with its operation.
- Dispose of the battery and device according to local environmental regulations. Do not dispose of in household waste.

10. Warranty and Support

10.1 Warranty Information

Specific warranty information is not explicitly provided in the product details. Please refer to your purchase documentation, the seller's terms and conditions, or contact the seller directly for details regarding the warranty period and coverage for your DeWin ZL610 Rebar Scanner.

10.2 Customer Support

For technical assistance, troubleshooting not covered in this manual, or service inquiries, please contact your retailer or the manufacturer, DeWin. Please have your product model (ZL610) and purchase details ready when contacting support.

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