DEWALT DWHT77100-XJ

DEWALT DWHT77100-XJ 30m Laser Distance Measurer User Manual

Model: DWHT77100-XJ

1. Product Overview

The DEWALT DWHT77100-XJ 30m Laser Distance Measurer is a compact and precise tool designed for various measurement tasks. It offers a range of up to 30 meters with an accuracy of +/-3 mm at 10 meters. This device supports multiple measurement functions including direct, continuous, area, volume, and Pythagorean calculations, as well as addition and subtraction. Its clear white LCD with black letters ensures excellent readability even in bright conditions, and the grip coating provides a secure hold.

Key Features

- Measurement Range: Up to 30 meters (100 feet)
- Accuracy: +/-3 mm at 10 meters
- Measurement Units: Metric and Imperial (selectable)
- Measurement Functions: Direct, Continuous, Area, Volume, Pythagorean (2 and 3 points), Addition, Subtraction
- Display: High-visibility white LCD with black characters
- Ergonomics: Grip coating for enhanced handling
- Power Source: 2 x AAA Alkaline batteries (not included)

Package Contents

- 1 x DEWALT DWHT77100-XJ Laser Distance Measurer
- User Manual (this document)
- *Note: 2 x AAA Alkaline batteries are required and not included.*

Product Diagram




DEWALT
7.174
2.042
100'
30M
ON

Figure 1: Front view of the DEWALT DWHT77100-XJ Laser Distance Measurer, showing the display and control buttons.





Figure 2: Retail packaging of the DEWALT DWHT77100-XJ, highlighting its 30m range, accuracy, and various calculation functions.

2. Safety Information

Please read and understand all safety information before operating the device. Failure to follow these instructions may result in laser exposure, electric shock, fire, or serious injury.

General Safety Guidelines

- Keep the device out of reach of children and unauthorized persons.
- Do not operate the device in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Avoid exposing the device to extreme temperatures, direct sunlight, or high humidity.
- Do not attempt to modify or disassemble the device. Repairs should only be performed by authorized service personnel.
- Clean the device only with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.

Laser Safety

This device emits a Class 2 laser. Observe the following precautions:

- **DO NOT** stare directly into the laser beam.
- **DO NOT** point the laser beam at people or animals.
- Avoid direct eye exposure to the laser beam.
- Do not use optical instruments (e.g., binoculars, telescopes) to view the laser beam.
- Ensure the laser is turned off when not in use.

3. Setup

Battery Installation

The DEWALT DWHT77100-XJ requires two (2) AAA Alkaline batteries for operation.

1. Locate the battery compartment cover on the back of the device.
2. Slide the cover open in the direction indicated by the arrow.
3. Insert two AAA Alkaline batteries, ensuring the correct polarity (+/-) as marked inside the compartment.
4. Close the battery compartment cover securely until it clicks into place.

First Use

After installing the batteries, the device is ready for use. Press the**ON** button to power on the device. The display will illuminate, and the device will be in basic measurement mode.

4. Operating Instructions

Basic Measurement

To take a single distance measurement:

1. Point the laser measurer at the target surface.
2. Press the **ON** button once to activate the laser.
3. Press the **ON** button again to take the measurement. The measured distance will appear on the display.



Figure 3: A user demonstrating the use of the DEWALT laser distance measurer in a construction environment.

Measurement Modes

The device features a mode button (gear icon) to cycle through different measurement functions:

- **Continuous Measurement:** Press the mode button until the continuous measurement icon appears. The device will continuously measure and display the distance as you move it. Press **ON** to stop.
- **Area Calculation:** Select the area mode. Take two measurements (length and width). The device will automatically calculate and display the area.
- **Volume Calculation:** Select the volume mode. Take three measurements (length, width, and height). The device will automatically calculate and display the volume.
- **Pythagorean Measurement (2-point and 3-point):** Use these modes to calculate indirect distances (e.g., height) based on two or three other measurements. Follow the on-screen prompts for each step.



Figure 4: The clear LCD display of the DEWALT DWHT77100-XJ, showing multiple measurement lines, indicating its ability to perform complex calculations.

Unit Conversion

To switch between metric (meters) and imperial (feet/inches) units, press and hold the mode button (gear icon) for a few seconds until the unit changes on the display. You can also select the measurement reference point (from the top or bottom of the device) using the mode button.

Addition and Subtraction

After taking a measurement, you can add or subtract subsequent measurements. Consult the on-screen icons or the quick start guide for specific button presses related to these functions.

5. Maintenance

Cleaning

To ensure optimal performance and longevity of your device:

- Wipe the device with a soft, damp cloth.
- Do not use abrasive cleaners, solvents, or harsh chemicals.
- Clean the laser lens carefully with a soft, lint-free cloth, similar to cleaning camera lenses.

Storage

When not in use, store the device in a dry, cool place, away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.

Battery Replacement

When the battery indicator on the display shows low power, replace both AAA Alkaline batteries following the "Battery Installation" steps in the Setup section.

6. Troubleshooting

Common Issues and Solutions

Problem	Possible Cause	Solution
Device does not turn on.	Dead or incorrectly installed batteries.	Check battery polarity. Replace with new AAA Alkaline batteries.
Inaccurate measurements.	Laser lens is dirty; unstable surface; measuring beyond range; strong sunlight outdoors.	Clean the laser lens. Ensure a stable measurement surface. Stay within the 30m range. Use indoors or in shaded areas for best results.
Display is dim or flickering.	Low battery power.	Replace batteries.
Device freezes or becomes unresponsive.	Temporary software glitch.	Remove and reinsert batteries to reset the device.

7. Specifications

Feature	Specification
Model Number	DWHT77100-XJ
Brand	DEWALT
Measurement Range	30 meters (100 feet)
Accuracy	+/-3 mm at 10 meters
Power Source	2 x AAA Alkaline batteries
Material	Plastic
Color	Multicolor (Yellow/Black)
Weight	150 Grams
Product Dimensions	Approx. 10L x 10W x 50H mm (Note: These dimensions seem unusually small for a laser measurer, please refer to product packaging for exact dimensions.)
International Protection (IP) Rating	IP54 (Dust protected and splash proof)

8. Warranty and Support

Warranty Information

This DEWALT product is covered by a **1-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from misuse, abuse, accidents, unauthorized repairs, or normal wear and tear.

Please retain your proof of purchase for warranty claims.

Customer Support

For technical assistance, warranty claims, or information regarding spare parts, please contact DEWALT customer service. Visit the official DEWALT website for contact details specific to your region.

Note: Information regarding the availability of spare parts for this specific model is currently unavailable.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question