

Leica D5

Leica Disto D5 Laser Distance Meter User Manual

Model: D5 (Generation 2)

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Leica Disto D5 professional laser distance meter. The Leica Disto D5 is a high-precision measuring device equipped with Bluetooth connectivity, a viewfinder camera, and an inclinometer, designed for both indoor and outdoor applications. It supports various measurement functions including height tracking, profile measurement, and angle measurement.

Please read this manual thoroughly before using the device to ensure proper handling and to maximize its capabilities.

2. SAFETY INFORMATION

Laser Safety: The Leica Disto D5 emits a Class 2 laser. Do not stare directly into the laser beam or direct it at other people. Avoid pointing the laser at reflective surfaces that could redirect the beam into eyes.

General Safety:

- Keep the device away from children.
- Do not attempt to disassemble or modify the device. This will void the warranty and could result in injury.
- Use only specified batteries and charging accessories.
- Protect the device from extreme temperatures, moisture, and strong impacts.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Leica DISTO D5 Laser Distance Meter
- Wrist strap
- Protective pouch
- USB cable
- Calibration certificate



Image 3.1: Leica Disto D5 with included accessories: the device, a protective pouch, and a USB charging cable.

4. PRODUCT FEATURES

The Leica Disto D5 incorporates advanced features for precise and versatile measurement tasks:

- **Integrated Viewfinder Camera:** Enables target identification on the IPS display, even when the laser dot is not visible, ideal for outdoor use.
- **Non-Contact Measurement Activation:** Allows measurement initiation by briefly interrupting the laser path with your hand, preventing device movement and ensuring high accuracy.
- **Flexible Data Transfer (Keyboard Mode):** Connect the device to a computer to send measured values as keyboard input to various applications, such as Excel.
- **Multiple Measurement Functions:** Includes Smart Horizontal Mode for measuring over obstacles, height tracking, profile measurement, and angle measurement.
- **Bluetooth Connectivity:** Facilitates seamless data transfer to the DISTO Plan App for documentation, creating floor plans, and sketches.
- **Durable Design:** IP54 protection against dust and splash water, suitable for construction site environments.
- **Rechargeable Li-Po Battery:** Integrated lithium-polymer battery for extended use.



Image 4.1: Key features of the Leica Disto D5, highlighting its anti-scratch IPS display, USB-C interface for charging, IP54 protection, and rechargeable Li-Po battery.

5. SETUP

5.1. Charging the Battery

The Leica Disto D5 is powered by an integrated rechargeable Lithium-Polymer battery. Before first use, fully charge the device.

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

5.2. Initial Power On

Press the **ON/DIST** button to power on the device. The display will illuminate, and the device will be ready for use.

6. OPERATING INSTRUCTIONS

6.1. Basic Distance Measurement

1. Point the laser beam at the desired target.
2. Press the **ON/DIST** button once to activate the laser.
3. Press the **ON/DIST** button again to take a measurement. The measured distance will be displayed on the screen.



Image 6.1: Performing a basic distance measurement with the Leica Disto D5, showing the device held against a surface.

6.2. Using the Viewfinder Camera for Outdoor Measurements

For outdoor measurements or when the laser dot is difficult to see, the integrated viewfinder camera assists in targeting.

1. Activate the device. The display will show the camera view.
2. Aim the device so the target appears within the reticle on the IPS display.
3. Press the **ON/DIST** button to take the measurement.



Misurazioni alla luce del sole Telecamera Pointfinder con zoom 4x

Image 6.2: The Leica Disto D5 in use outdoors, demonstrating the viewfinder camera's ability to locate the laser point even in bright sunlight.

6.3. Advanced Measurement Functions

The Leica Disto D5 offers several advanced functions accessible via the **MENU** button.

- **Smart Horizontal Mode:** Measures horizontal distances even when obstacles are present.
- **Height Tracking:** Determines heights by taking multiple measurements.
- **Profile Measurement:** Captures a series of measurements to define a profile.
- **Angle Measurement:** Utilizes the inclinometer to measure angles.

Refer to the on-screen prompts and the full digital manual for detailed instructions on each function.

6.4. Data Transfer via Bluetooth and DISTO Plan App

The device can transfer measurement data wirelessly to the Leica DISTO Plan App on your smartphone or tablet.

1. Ensure Bluetooth is enabled on your mobile device and the Disto D5.
2. Download and install the Leica DISTO Plan App from your device's app store.

3. Open the app and follow the instructions to pair with your Disto D5.
4. Once connected, measurements can be sent directly to the app for documentation, creating floor plans, and sketches.



Image 6.3: Data transfer from the Leica Disto D5 to a smartphone using Bluetooth, showing measurements appearing in a digital form.

6.5. Keyboard Mode for Data Transfer

For direct integration with computer applications, use the keyboard mode:

1. Connect the Disto D5 to your computer using the USB cable.
2. Activate keyboard mode on the device (refer to the device's menu for this option).
3. Open any application on your computer (e.g., Excel, Notepad) where you want to input data.
4. Take a measurement with the Disto D5. The measured value will be automatically entered into the active field on your computer as if typed.

6.6. Non-Contact Measurement for Enhanced Precision

To minimize device movement during measurement and ensure maximum precision, utilize the non-contact activation feature.

1. Mount the Disto D5 on a stable surface or tripod.
2. Aim the laser at the target.
3. Briefly pass your hand through the laser path to trigger the measurement without touching the device.



Image 6.4: Demonstrating non-contact measurement activation with the Leica Disto D5 on a tripod, ensuring high precision by avoiding physical contact during measurement.

7. MAINTENANCE

7.1. Cleaning

- Use a clean, soft, damp cloth to wipe the device. Do not use harsh chemicals or abrasive cleaners.
- For the lens and display, use a lint-free cloth specifically designed for optical surfaces.

7.2. Storage

When not in use, store the Leica Disto D5 in its protective pouch in a cool, dry place, away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not turn on	Low battery; device malfunction	Charge the battery; if problem persists, contact support.
Inaccurate measurements	Unstable device; incorrect measurement reference point; environmental factors (e.g., strong sunlight, highly reflective surfaces)	Ensure device is stable; check reference point settings; use viewfinder camera for outdoor use; avoid highly reflective targets.
Bluetooth connection issues	Bluetooth off on device/phone; device not paired; app issues	Ensure Bluetooth is on; re-pair devices; restart app/device.

9. SPECIFICATIONS

Specification	Detail
Model Number	D5
Dimensions	14.38 x 5.99 x 2.39 cm
Weight	176.9 grams
Power Source	1 Lithium Polymer battery (included)
Voltage	1.5 Volts
Material	Plastic
Color	Red
Protection Class	IP54 (Dust and splash water protected)
Connectivity	Bluetooth
Measurement Range	Up to 200 meters (approx. 656 feet)
Accuracy	±1 mm
Inclinometer Range	360° (±0.2°)



Image 9.1: Visual summary of Leica Disto D5 specifications, including range, accuracy, inclinometer, Bluetooth, and weight.

10. WARRANTY AND SUPPORT

Leica Geosystems products are manufactured to the highest quality standards. For warranty information and technical support, please refer to the official Leica Geosystems website or contact your local distributor.

Online Resources: For additional information, FAQs, and software updates, visit the official Leica Geosystems support page: [Leica Geosystems Support](#)