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Leica S910

Leica DISTO S910 Laser Distance Measurer User Manual

Model: S910 | Brand: Leica

1. INTRODUCTION

The Leica DISTO S910 is an advanced laser distance measurer engineered for high precision and versatility in various measurement tasks. This device allows users to measure distances, areas, volumes, and even complex point-to-point measurements from a single remote location. Its robust design and intuitive interface make it an essential tool for professionals requiring accurate and efficient data capture.



Figure 1.1: Front view of the Leica DISTO S910 Laser Distance Measurer, showing its display and control buttons.

2. KEY FEATURES

- **Integrated Smart Base:** Enables point-to-point (P2P) measurements from a single remote location, significantly enhancing measurement flexibility.
- **DXF File Creation:** Capable of measuring up to 30 points and saving 20 files directly on the device in DXF format for CAD applications.

- **Color Pointfinder Display with 4X Zoom:** Provides clear targeting with an onscreen crosshair, effective for measurements up to 984ft (300m) indoors or outdoors.
- **High Accuracy:** Offers 1/16" (1mm) straight line accuracy and 1mm/m on P2P measurements, adhering to ISO 16331-1 standards.
- **Wi-Fi & Bluetooth 4.0 Connectivity:** Facilitates seamless data transfer to computers and mobile devices for larger measuring tasks and integration with apps like Disto Sketch.
- **Li-Ion Rechargeable Battery:** Provides extended operational time.
- **IP54 Protection:** Dust and water jet protected for durability in various working conditions.



Figure 2.1: The Leica DISTO S910 shown with its complete set of accessories, including charging adapters and carrying pouch.

3. SETUP

3.1 Initial Charging

Before first use, fully charge the integrated Li-Ion battery using the provided USB cable and power adapter. The charging indicator on the device will show the charging status.

3.2 Attaching the Smart Base

The Smart Base is crucial for P2P measurements. Attach it securely to the 1/4-20 thread on the bottom of the DISTO S910. Ensure it is firmly seated to maintain measurement stability.



Figure 3.1: The Leica DISTO S910 mounted on a tripod, demonstrating the use of the Smart Base for stable measurements.

3.3 Powering On/Off

Press the **ON/DIST** button to power on the device. To power off, press and hold the **OFF/C** button.

4. OPERATING INSTRUCTIONS

4.1 Basic Distance Measurement

1. Point the laser at the target.
2. Press the **ON/DIST** button. The measured distance will appear on the display.

4.2 Point-to-Point (P2P) Measurement

The P2P function allows measuring distances between two points from a single, stable location. This requires the Smart Base and ideally a tripod for optimal stability.

1. Mount the DISTO S910 on a tripod with the Smart Base attached.
2. Navigate to the P2P function on the touchscreen.
3. Aim the laser at the first point (P1) and take a measurement.
4. Aim the laser at the second point (P2) and take a measurement.
5. The device will calculate and display the distance between P1 and P2.

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Video 4.1: Official product video demonstrating the features and operation of the Leica DISTO S910, including P2P measurement capabilities.

4.3 Data Transfer (Wi-Fi/Bluetooth)

The S910 supports Wi-Fi and Bluetooth 4.0 for transferring measurement data.

- **Wi-Fi:** Connect the device to a computer to transfer DXF files and images. Real-time transfer to AutoCAD is supported.
- **Bluetooth:** Pair with compatible Android/iPad/iPhone devices using the free Disto Sketch app or other third-party applications to transfer P2P values or straight-line measurements.

5. MAINTENANCE

5.1 Cleaning

Regularly clean the device, especially the lens and display, with a soft, lint-free cloth. Do not use abrasive cleaners or solvents. The device is IP54 rated, meaning it is protected against dust and splashing water, but should not be submerged.

5.2 Battery Care

To prolong battery life, avoid fully discharging the device frequently. Store the device with a partial charge if it will not be used for an extended period.

5.3 Storage

Store the DISTO S910 in its protective pouch in a dry, cool place, away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

6.1 Measurement Inaccuracy

- Ensure the Smart Base is securely attached and the device is stable, especially for P2P measurements.
- Verify that the target surface is suitable for laser reflection. Highly reflective or transparent surfaces can affect accuracy.
- Check for obstructions in the laser path.

6.2 Connectivity Issues

- Ensure Wi-Fi or Bluetooth is enabled on both the DISTO S910 and the receiving device.
- Confirm that the receiving device supports Bluetooth 4.0 Smart Ready technology.
- Restart both devices and attempt to reconnect.

6.3 Device Not Powering On

- Check the battery level and ensure it is sufficiently charged.
- Verify that the power button is pressed firmly and held for a few seconds.

7. SPECIFICATIONS

Attribute	Value
Brand	Leica
Model Number	S910
Measuring Range	984ft (300m)
Measurement Accuracy	1mm
Laser Class	Class II (1mW output)
Power Source	Lithium-Ion, Rechargeable, 3.7V
Average Battery Life	3 Hours
International Protection Rating	IP54 (Dust and Water Jet Protected)
Color	Red/Black
Material	Plastic
Item Weight	12 ounces
Product Dimensions	6.5"L x 2.4"W x 1.2"H

8. WARRANTY INFORMATION

The Leica DISTO S910 comes with a two-year replacement warranty against manufacturer defects. This warranty can be extended to three years if the product is registered within eight weeks of purchase. Please refer to the official Leica Geosystems website or your purchase documentation for detailed warranty terms and conditions.

9. SUPPORT & USER GUIDE

For comprehensive information, detailed operating procedures, and advanced functions, please refer to the official

User Guide PDF:

**Download User Guide
(PDF)**

For further assistance, technical support, or service inquiries, please visit the official Leica Geosystems website or contact their customer service.