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atolla T201-DE

atolla Laser Distance Meter T201-DE User Manual

Model: T201-DE

1. INTRODUCTION

Thank you for choosing the atolla T201-DE Laser Distance Meter. This device is designed for precise and efficient distance, area, and volume measurements, suitable for both indoor and outdoor applications. Please read this manual carefully before use to ensure proper operation and to maximize the lifespan of your device.



Image 1.1: The atolla T201-DE Laser Distance Meter, shown with included AAA batteries and wrist strap.

2. SAFETY INFORMATION

WARNING: Laser Radiation

This device emits Class 2 laser radiation. Do not stare into the laser beam. Do not aim the laser beam at people or animals. Avoid direct eye exposure. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

- Always ensure the laser is not pointed at reflective surfaces that could redirect the beam into your eyes or others'.
- Keep the device out of reach of children.
- Do not attempt to modify or disassemble the device. This could lead to hazardous laser exposure and voids the warranty.
- Operate the device only in well-lit areas to avoid accidental exposure.

3. PACKAGE CONTENTS

Please check the package for the following items:

- 1 x atolla Laser Distance Meter T201-DE
- 2 x AAA 1.5V Batteries
- 1 x Wrist Strap
- 1 x User Manual

4. PRODUCT OVERVIEW

The atolla T201-DE features a compact design with an intuitive button layout and a clear backlit LCD for easy operation and reading.

Funktionsknöpfe

60m



Image 4.1: Detailed view of the atolla T201-DE Laser Distance Meter's control panel, highlighting the function buttons and their labels.

Button Functions:

Button	Function
ON / READ	Power On / Initiate Measurement / Continuous Measurement
+- UNIT	Addition / Subtraction / Change Measurement Unit
Area/Volume/Pythagorean	Switch between Area, Volume, and Pythagorean (2-point, 3-point) measurement modes
Reference Point / Mute	Change Measurement Reference Point (Front/Rear) / Mute Sound
OFF / Return	Power Off / Clear Last Measurement / Exit Current Mode

5. SETUP

5.1 Battery Installation

1. Locate the battery compartment cover on the back of the device.
2. Slide the cover open.
3. Insert two AAA 1.5V batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

Note: Always use new batteries and replace both batteries at the same time. Remove batteries if the device will not be used for an extended period.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

- To power on: Press the **ON / READ** button.
- To power off: Press and hold the **OFF / Return** button for 2 seconds, or the device will automatically shut down after 180 seconds of inactivity.

6.2 Changing Measurement Units

The device supports meters (m), inches (in), and feet (ft) with fractional display. To change units:

- Press the **+- UNIT** button repeatedly to cycle through the available units.



Ändern der Anzeigeeinheiten

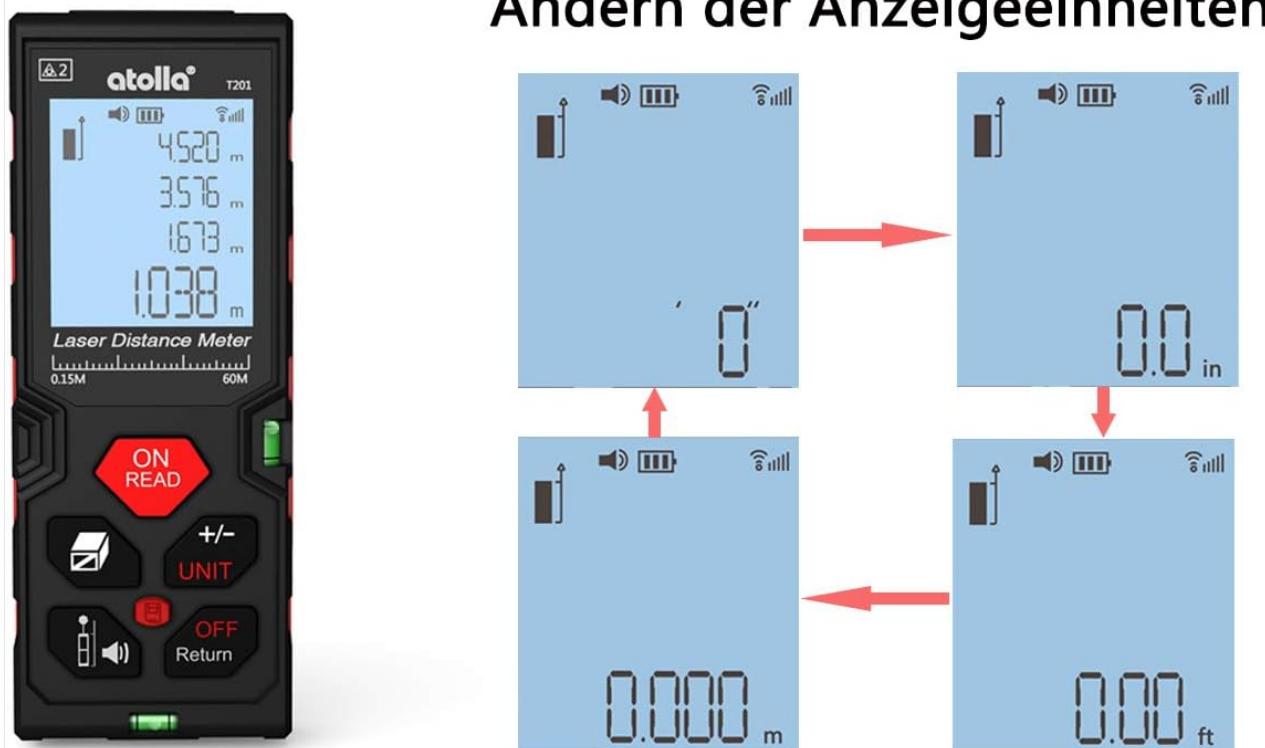


Image 6.1: Visual guide showing how to change the display units (meters, inches, feet) on the atolla T201-DE Laser Distance Meter.

6.3 Setting Measurement Reference Point

The measurement can be taken from the front or the rear edge of the device.

- Press the **Reference Point / Mute** button to toggle between front and rear reference points. An icon on the display will indicate the selected reference point.



Image 6.2: Comparison showing how the measurement reference point can be set from the front or the rear of the atolla T201-DE Laser Distance Meter.

6.4 Basic Measurement (Single Distance)

1. Ensure the device is powered on.
2. Point the laser at the target surface.
3. Press the **ON / READ** button once. The measured distance will be displayed.

6.5 Continuous Measurement (Min/Max)

This mode is useful for finding the shortest or longest distance from a fixed point.

1. Press and hold the **ON / READ** button for 2 seconds. The device will start continuous measurement.
2. Slowly sweep the laser across the desired area. The display will show the current, minimum, and maximum measured distances.
3. Press the **ON / READ** button again to stop continuous measurement.

6.6 Area Measurement

1. Press the **Area/Volume/Pythagorean** button once to enter Area measurement mode. A square icon will appear on the display.
2. Measure the length: Press **ON / READ**.
3. Measure the width: Press **ON / READ**.
4. The device will automatically calculate and display the area.

6.7 Volume Measurement

1. Press the **Area/Volume/Pythagorean** button twice to enter Volume measurement mode. A cube icon will appear on the display.
2. Measure the length: Press **ON / READ**.
3. Measure the width: Press **ON / READ**.
4. Measure the height: Press **ON / READ**.
5. The device will automatically calculate and display the volume.

6.8 Pythagorean Measurement (Indirect Measurement)

This mode allows for indirect measurement of heights or distances using the Pythagorean theorem.

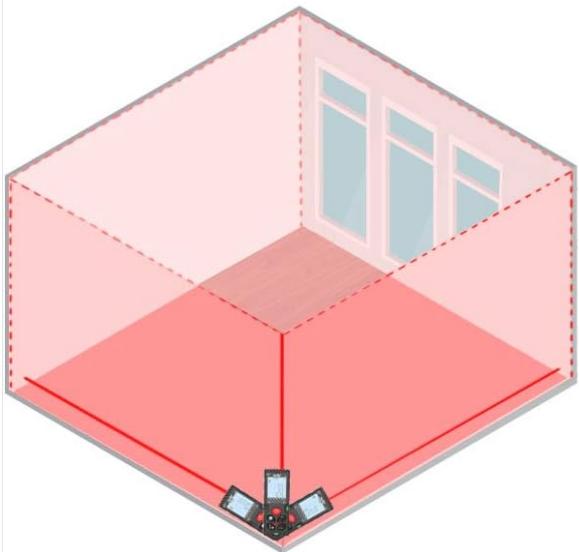
Measurements



Flächenmessung



Volumenmessung



Verwendung von zwei Punkten

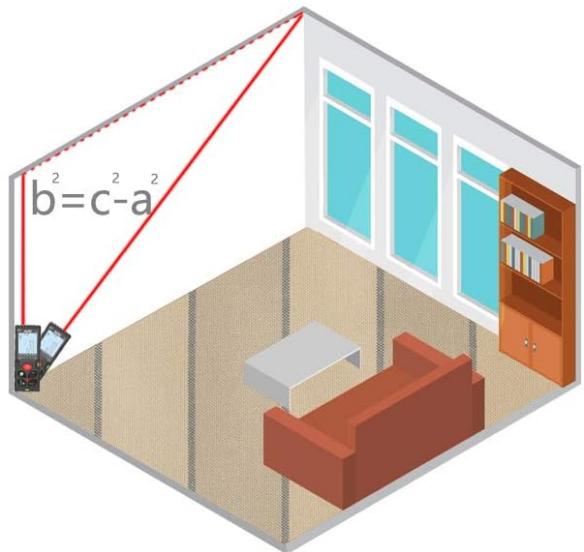


Image 6.3: Illustrations demonstrating different measurement modes: Area measurement, Volume measurement, and Pythagorean measurement using two points.

6.8.1 2-Point Pythagorean Measurement (Height)

1. Press the **Area/Volume/Pythagorean** button three times. The display will show a right-angle triangle icon with two sides to be measured.
2. Measure the hypotenuse (distance from device to top of object): Press **ON / READ**.
3. Measure the base (distance from device to bottom of object, ensuring the device remains level): Press **ON / READ**.
4. The device will calculate and display the height.

6.8.2 3-Point Pythagorean Measurement (Height)

1. Press the **Area/Volume/Pythagorean** button four times. The display will show a right-angle triangle icon with three sides to be measured.
2. Measure the first hypotenuse (distance from device to top of object): Press **ON / READ**.

3. Measure the second hypotenuse (distance from device to middle point of object): Press **ON / READ**.
4. Measure the base (distance from device to bottom of object, ensuring the device remains level): Press **ON / READ**.
5. The device will calculate and display the height.

6.9 Addition and Subtraction

You can add or subtract measurements from each other.

1. Perform a measurement.
2. Press the **+- UNIT** button once for addition (+) or twice for subtraction (-).
3. Perform the next measurement.
4. The result of the addition or subtraction will be displayed.

6.10 Data Storage and Recall

The device can store up to 20 measurement records.



Image 6.4: The atolla T201-DE Laser Distance Meter displaying stored measurements, with a compass and blueprints in the background.

background, illustrating its use for planning.

- Measurements are automatically saved.
- To recall stored data: Press the **OFF / Return** button repeatedly when not in a measurement mode to cycle through the stored records.

6.11 Mute Function

The mute function allows for silent operation, ideal for quiet environments.



Image 6.5: Image depicting the mute function of the atolla T201-DE Laser Distance Meter, suitable for quiet environments like libraries or offices.

- Press and hold the **Reference Point / Mute** button for 2 seconds to toggle the sound on/off. A speaker icon with a cross will indicate mute mode.

6.12 Auto-Calibration

The device features an auto-calibration function to maintain accuracy. If you suspect the accuracy is off, you can adjust it.

- While the device is off, press and hold the **ON / READ** button and the **OFF / Return** button simultaneously until 'CAL' appears on the screen.
- Use the **+- UNIT** button to adjust the calibration value (typically $+- 7$ mm).
- Press **ON / READ** to save the calibration and exit.

7. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a dry, cool place, away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.
- **Protection:** The device has an IP54 rating, making it dust and splash-water resistant. However, avoid submerging it in water or exposing it to heavy rain.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not turn on	Low or dead batteries; incorrect battery polarity	Replace batteries; check polarity
Inaccurate measurements	Laser obstructed; unstable surface; calibration needed	Ensure clear path; measure on stable surface; perform auto-calibration (Section 6.12)
"Error" message on display	Measurement out of range; strong light interference	Ensure target is within 0.15-60m; move to a shaded area or use a target plate
Display is dim or flickering	Low battery power	Replace batteries

9. SPECIFICATIONS

Feature	Specification
Measurement Range	0.15m - 60m
Measurement Accuracy	± 2 mm
Measurement Units	m / in / ft (fractional)
Laser Class	Class 2
Laser Type	635nm, <1 mW

Feature	Specification
Data Storage	Up to 20 records
Auto Power Off	180 seconds
Auto Laser Off	30 seconds
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Dust & Splash Protection	IP54
Power Supply	2 x AAA 1.5V Batteries
Dimensions (L x W x H)	12.2 x 4.7 x 2.5 cm
Weight	111 grams (without batteries)

10. WARRANTY AND SUPPORT

atolla products are designed for reliability and performance. For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official atolla website.

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Related Documents - T201-DE

	<p>Atolla T201 Laser Distance Meter Quick Start Guide</p> <p>A concise guide to operating the Atolla T201 Laser Distance Meter, covering its features, functions, and basic measurements, translated into English.</p>
	<p>atolla 4-Port USB-C Adapter (C8): Quick Start Guide - HDMI, VGA, USB 3.0, PD Charging</p> <p>Get started quickly with the atolla 4-Port USB-C Adapter (C8). This guide details its HDMI, VGA, USB 3.0, and PD charging ports for expanding your laptop's connectivity. Compatible with Thunderbolt 3.</p>

	<p><u>PeakTech 2801/2802 Laser Distance Meter User Manual</u></p> <p>Comprehensive user manual for the PeakTech 2801 and PeakTech 2802 laser distance meters, detailing safety precautions, features, technical specifications, operation, and troubleshooting. Includes instructions for various measurement modes like area, volume, and Pythagoras.</p>
	<p><u>CEM LM-50 Laser Distance Meter User Manual</u></p> <p>Comprehensive user manual for the CEM LM-50 Laser Distance Meter, covering safety instructions, operation, measurement functions, technical specifications, and troubleshooting.</p>
	<p><u>CEM LDM-100 Laser Distance Meter User Manual - Operation, Features, and Specifications</u></p> <p>Detailed user manual for the CEM LDM-100 Laser Distance Meter. Learn about its features, functions, safety instructions, technical specifications, and troubleshooting for accurate distance measurements.</p>