

atolla T201

atolla T201 Laser Distance Meter User Manual

Model: T201

1. INTRODUCTION

The atolla T201 Laser Distance Meter is a versatile and precise tool designed for accurate distance measurements in both indoor and outdoor environments. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your device.

2. PRODUCT OVERVIEW



Figure 1: atolla T201 Laser Distance Meter and accessories.

2.1 Key Features

- **Measuring Range:** 0.15 to 60 meters (0.49 to 197 feet)
- **Accuracy:** $\pm 2\text{mm}$ (0.08 inches)
- **Measurement Modes:** Single, Continuous (Min/Max), Area, Volume, Indirect (Pythagorean 2-point and 3-point)
- **Display:** Multi 4-line backlit LCD
- **Reference Points:** Adjustable (front or back of device)

- **Units:** Meter (m), Inch (in), Foot (ft)
- **Data Storage:** Up to 20 records
- **Additional Functions:** Addition, Subtraction, Self-calibration, Mute
- **Durability:** IP54 dustproof and splash-proof rating
- **Power:** 2 x AAA batteries (included) with Auto-Off function
- **Integrated:** 2 Bubble Levels for precise alignment

2.2 Device Components

Function Buttons

60m



Figure 2: Front view of the atolla T201 with labeled buttons.

- **ON/READ Button:** Powers on the device and initiates measurements.
- **+/- UNIT Button:** Toggles between addition/subtraction and changes measurement units.
- **Area/Volume/Indirect Measurement Button:** Cycles through various measurement modes.
- **History Button:** Accesses stored measurement records.
- **Reference Button / Mute Button:** Changes the measurement reference point (front/back) and mutes/unmutes sound.
- **OFF/Return Button:** Powers off the device or returns to the previous screen.
- **Bubble Levels:** Located on the top and side for horizontal and vertical alignment.

3. SETUP

3.1 Battery Installation

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

3.2 Power On/Off

- To power on, press the **ON/READ** button. The device will display the last used measurement mode.
- To power off, press and hold the **OFF/Return** button. The device also features an automatic shutdown after 3 minutes of inactivity to conserve battery life.

4. OPERATING INSTRUCTIONS

4.1 Setting Measurement Reference Point

The device can measure from its front edge or its back edge. This is crucial for accurate measurements depending on your starting point.



Changing Display Units

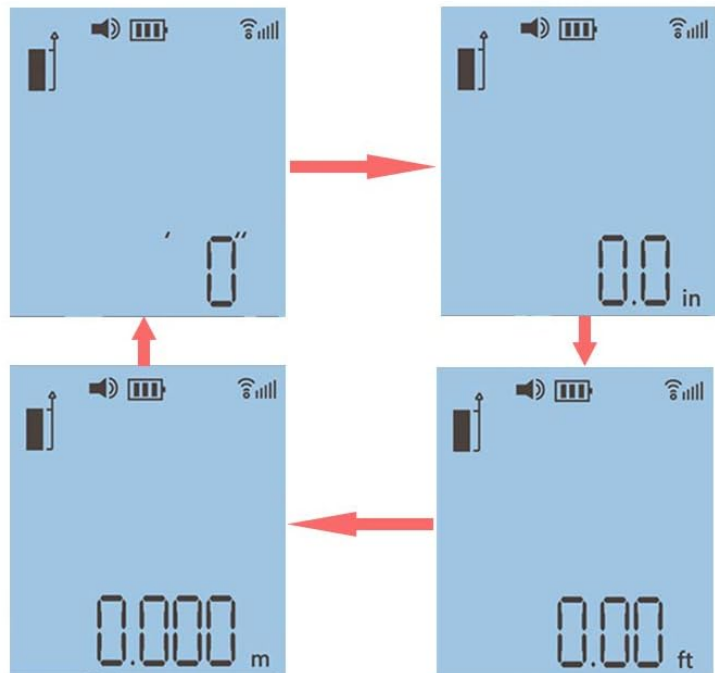


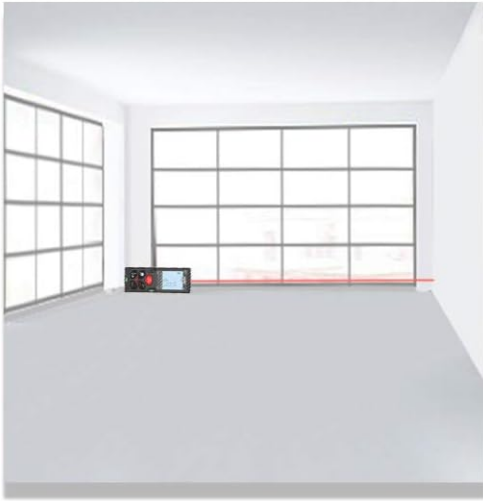
Figure 3: Front and Back Measurement Reference Points.

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

4.2 Changing Measurement Units

The atolla T201 supports meters, inches, and feet.

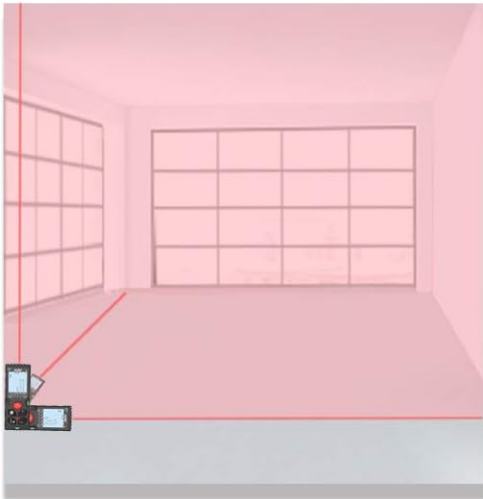
Measurements



Area Measurement



Volume Measurement



Using Two Points

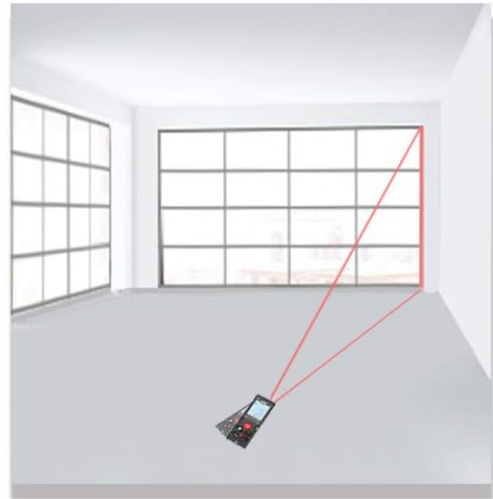


Figure 4: Changing Display Units.

- Press the **+/- UNIT** button to cycle through the available measurement units (m, in, ft).

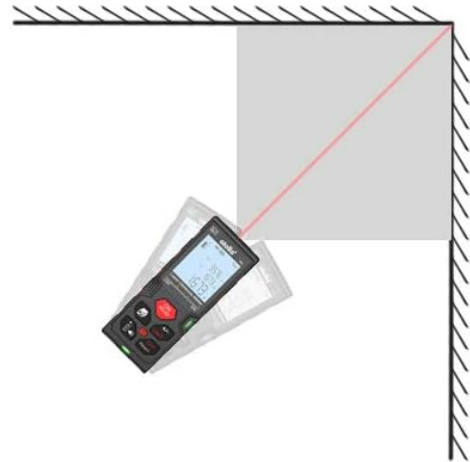
4.3 Measurement Modes

Press the **Area/Volume/Indirect Measurement** button to cycle through the following modes:

Continuous Measurement



Max. and Min



Measurement

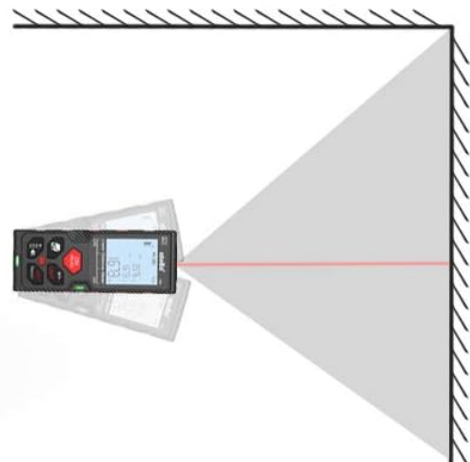


Figure 5: Visual representation of different measurement modes.

1. **Single Measurement:** Press **ON/READ** once to activate the laser, then again to take a single distance measurement.
2. **Continuous Measurement (Min/Max):** In this mode, the device continuously measures and displays the current, minimum, and maximum distances. Press **ON/READ** to start and again to stop.
3. **Area Measurement:** The device will prompt you to measure two sides (length and width). After two measurements, it automatically calculates and displays the area.
4. **Volume Measurement:** The device will prompt you to measure three sides (length, width, and height). After three measurements, it automatically calculates and displays the volume.
5. **Indirect Measurement (Pythagorean):** This mode allows for indirect measurement of heights or distances using the Pythagorean theorem. Follow the on-screen prompts to take the required

measurements (2 or 3 points).

4.4 Data Storage and Retrieval

The atolla T201 can store up to 20 measurement records.



Figure 6: Reviewing stored measurements.

- Press the **History** button to view previous measurements. Use the arrow buttons to navigate through the records.

4.5 Addition and Subtraction

- After taking a measurement, press the **+/- UNIT** button to enter addition or subtraction mode. Take subsequent measurements to add or subtract them from the current value.

4.6 Self-Calibration

If you suspect measurement inaccuracies, you can perform a self-calibration. The device allows adjustment by $\pm 7\text{mm}$.

- Refer to the on-screen menu for specific instructions on initiating and completing the self-calibration process.

4.7 Mute Function

The device can operate silently, which is useful in quiet environments.



Figure 7: Mute function for silent operation.

- Press and hold the **Reference / Mute** button to toggle the sound on or off.

5. 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. Remove batteries if storing for extended periods.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Device does not power on	Low or dead batteries; incorrect battery installation	Replace batteries; ensure correct polarity
Inaccurate measurements	Measurement reference point incorrect; device not calibrated; reflective surface issues	Check reference point; perform self-calibration; use a target plate for highly reflective/non-reflective surfaces
Laser not visible	Bright ambient light; laser not activated	Operate in lower light conditions; press ON/READ to activate laser
Display error message	Out of range; internal error	Ensure target is within range (0.15-60m); restart device

7. SPECIFICATIONS

Feature	Specification
Model Number	T201
Measuring Range	0.15 to 60 m
Accuracy	±2mm
Units of Measurement	m, in, ft
Laser Class	Class 2
IP Rating	IP54 (Dustproof, Splash-proof)
Auto-Off	3 minutes of inactivity
Battery Type	2 x AAA Alkaline batteries
Product Dimensions	12 x 4.5 x 2.2 cm
Item Weight	170 g

8. SAFETY INFORMATION

Please read and understand all safety instructions before using the device.

- **Laser Radiation:** This device emits Class 2 laser radiation. Do not stare directly into the laser beam or direct it at other people.
- **Eye Protection:** Avoid direct eye exposure to the laser beam.
- **Children:** Keep the device out of reach of children.
- **Repairs:** Do not attempt to disassemble or repair the device yourself. Contact qualified service personnel.
- **Environment:** Do not use the device in explosive environments or near flammable materials.

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your purchase or visit the official atolla website. If you encounter any issues not covered in this manual, please contact atolla customer service for assistance.