

Stabila LD220

STABILA LD220 Laser Distance Measuring Tool User Manual

Model: LD220 | Brand: Stabila

1. PRODUCT OVERVIEW

The STABILA LD220 is a compact and easy-to-use laser distance measuring tool designed for quick and accurate measurements. It features an impact-resistant housing with a shock-absorbent STABILA soft grip casing, ensuring durability in various working conditions. The large digits on the display facilitate easy reading of measurements.

Key Features:

- Compact, easy-to-use laser.
- 4 basic measuring functions: length, area, volume, and continuous measurement.
- Calculates measuring results quickly.
- Large digits for easy readability.
- Impact-resistant housing with shock-absorbent STABILA soft grip casing.





Figure 1.1: Front view of the STABILA LD220 laser distance measuring tool, showcasing its compact design and display.

2. GETTING STARTED

2.1 Package Contents

Ensure all components are present:

- STABILA LD220 Laser Distance Measuring Tool
- Batteries (Alkaline, LR03/AAA type)

2.2 Battery Installation

The STABILA LD220 requires two AAA alkaline batteries for operation. Follow these steps to install them:

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



Figure 2.1: The STABILA LD220 device shown alongside two AAA batteries, indicating the power source.



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CAUTION: DO NOT RECHARGE, DISASSEMBLE, DISPOSE OF IN FIRE, PUT
IN BACKWARDS, MIX WITH USED OR OTHER BATTERY TYPES—MAY
EXPLODE OR LEAK AND CAUSE PERSONAL INJURY

MERCURY &
CADMIUM FREE

SAFARI®

SUPER
ALKALINE

LR03

AAA

AAA



Figure 2.2: A close-up view of the two AAA alkaline batteries, which power the device.

2.3 Powering On/Off

To power on the device, press the **Power/Clear (C)** button. To power off, press and hold the **Power/Clear (C)** button for a few seconds, or the device will automatically shut off after a period of inactivity to conserve battery life.

3. OPERATING INSTRUCTIONS

The STABILA LD220 offers four primary measuring functions. Familiarize yourself with the buttons:

- **Measurement Button (Green, with three arrows):** Initiates a measurement or activates continuous measurement.
- **Function Button (FUNC):** Cycles through different measurement modes (Length, Area, Volume, Continuous).
- **Power/Clear Button (C):** Powers the device on/off, clears the last measurement, or exits a function.





Figure 3.1: A detailed view of the STABILA LD220's control panel, highlighting the measurement, function, and power/clear buttons.

3.1 Length Measurement

This is the default mode for single distance measurements.

1. Ensure the device is powered on.
2. Point the laser beam at the target surface.
3. Press the **Measurement Button** once. The measured distance will appear on the display.

3.2 Continuous Measurement (Tracking)

This mode allows for dynamic measurement, displaying real-time distance as you move the device.

1. Press the **FUNC** button until the continuous measurement icon (often a series of horizontal lines or a tracking symbol) appears on the display.
2. Press the **Measurement Button** to start continuous measurement.
3. Move the device slowly towards or away from the target. The display will update the distance continuously.
4. Press the **Measurement Button** again or the **C** button to stop continuous measurement.

3.3 Area Measurement

To calculate the area of a rectangular space (Length x Width).

1. Press the **FUNC** button until the area measurement icon (a square or rectangle) appears.
2. Measure the first side (e.g., length) by pointing the laser and pressing the **Measurement Button**.
3. Measure the second side (e.g., width) by pointing the laser and pressing the **Measurement Button**.

again.

4. The device will automatically calculate and display the area.

3.4 Volume Measurement

To calculate the volume of a rectangular space (Length x Width x Height).

1. Press the **FUNC** button until the volume measurement icon (a cube or rectangular prism) appears.
2. Measure the first side (e.g., length) by pointing the laser and pressing the **Measurement Button**.
3. Measure the second side (e.g., width) by pointing the laser and pressing the **Measurement Button**.
4. Measure the third side (e.g., height) by pointing the laser and pressing the **Measurement Button**.
5. The device will automatically calculate and display the volume.

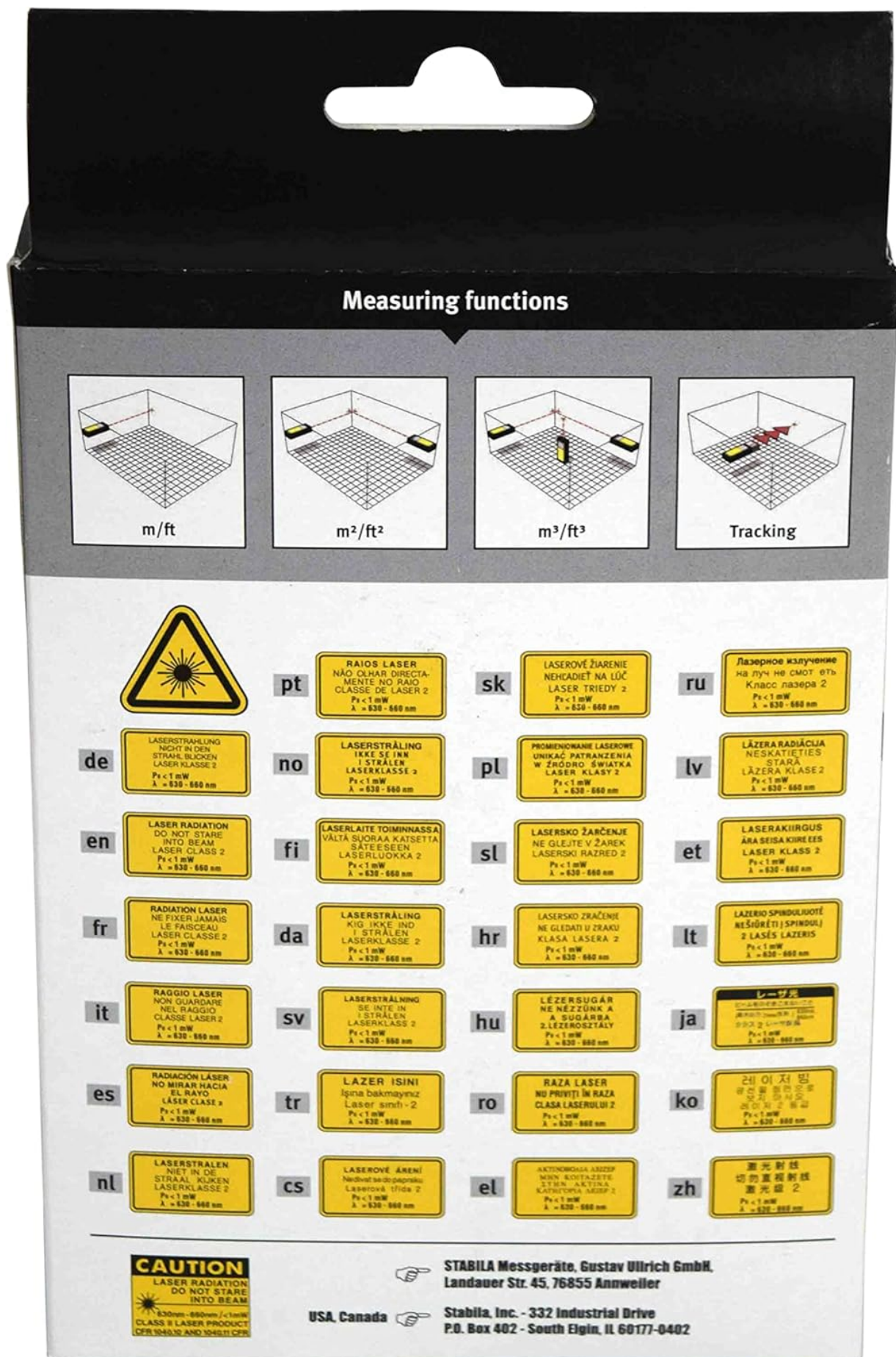


Figure 3.2: The product packaging illustrating the various measuring functions, including length, area, volume, and tracking.

4. CARE AND MAINTENANCE

Proper care and maintenance will extend the life of your STABILA LD220.

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use harsh chemicals, abrasive cleaners, or solvents. Ensure the laser lens and display are kept clean for accurate readings.
- **Storage:** Store the device in a dry, cool place, away from direct sunlight and extreme temperatures. If storing for an extended period, remove the batteries to prevent leakage.
- **Handling:** Although the device has an impact-resistant housing, avoid dropping it or subjecting it to severe shocks.
- **Battery Care:** Replace batteries when the low battery indicator appears on the display. Dispose of used batteries according to local regulations.

5. TROUBLESHOOTING

If you encounter issues with your STABILA LD220, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on.	Dead or incorrectly installed batteries.	Check battery polarity. Replace with new AAA alkaline batteries.
Inaccurate measurements.	Laser lens is dirty; target surface is too reflective/absorbent; device is unstable during measurement.	Clean the laser lens with a soft cloth. Use a target plate for difficult surfaces. Ensure the device is held steady.
Display shows an error message.	Measurement out of range; internal error.	Ensure target is within the 100ft (30m) range. Power off and restart the device. If the error persists, contact support.
Laser beam is not visible.	Bright ambient light; laser not activated.	Use in lower light conditions or use a laser target plate. Press the measurement button to activate the laser.

6. TECHNICAL SPECIFICATIONS

Detailed specifications for the STABILA LD220 Laser Distance Measuring Tool:

Specification	Value
Model Number	Stabila - 06220
Measuring Range	Up to 100 ft (30 m)
Measuring Functions	Length, Area, Volume, Continuous Measurement
Color	Black
Material	Plastic
Item Dimensions (L x W x H)	8 x 5 x 2 inches
Item Weight	8 ounces

Specification	Value
Batteries Required	No (Included Components: Stabila - 06220, but requires 2x AAA Alkaline batteries for operation)
Battery Type	Alkaline (AAA)
Manufacturer	Stabila
Date First Available	March 17, 2022



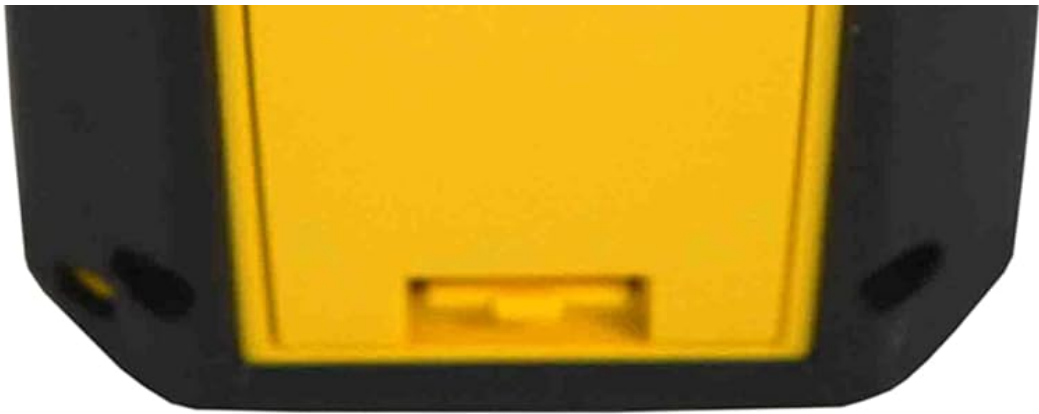





Figure 6.1: Rear view of the STABILA LD220, displaying the product label with model number, power requirements, and laser class information.




7. WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please refer to the documentation included with your purchase or visit the official Stabila website. Specific warranty terms and conditions may vary by region and retailer.

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Related Documents - LD220

	<p>STABILA LD 220 Laser Distance Meter User Manual</p> <p>Comprehensive user manual for the STABILA LD 220 laser distance meter, covering product overview, instrument setup, technical specifications, message codes, warranty, and contact information.</p>
	<p>STABILA LD 320 Laser Distance Measuring Instrument User Manual</p> <p>Comprehensive user manual for the STABILA LD 320 laser distance measuring instrument, covering setup, operations, measuring functions, technical specifications, and safety guidelines.</p>
	<p>Stabila LD 320 Laser Distance Measurer User Manual</p> <p>Comprehensive user manual for the Stabila LD 320 laser distance measurer, covering setup, operations, measuring functions, technical data, safety instructions, and warranty information.</p>

<div data-bbox="172 129 272 159" data-label="Text"><p>STABILA</p></div> <div data-bbox="188 174 239 190" data-label="Text"><p>LD 250 BT</p></div> <div data-bbox="172 208 268 360" data-label="Image">A yellow and black handheld laser distance meter. The screen shows '0.05'. There are four numbered callouts: 1 points to the top display, 2 points to the laser sensor, 3 points to the power button, and 4 points to the bottom display.</div>	<div data-bbox="341 185 981 215" data-label="Section-Header"><p>STABILA LD 250 BT Laser Distance Meter User Manual</p></div> <div data-bbox="341 226 1409 295" data-label="Text"><p>User manual for the STABILA LD 250 BT laser distance meter, detailing its features, technical specifications, operation, safety guidelines, and troubleshooting.</p></div>
<div data-bbox="124 432 304 560" data-label="Image">A yellow and black handheld laser distance measurer. The screen shows 'LD 520'. A person in a hard hat is visible in the background.</div>	<div data-bbox="341 427 1228 456" data-label="Section-Header"><p>STABILA LD 520 Laser Distance Measurer User Manual and Technical Guide</p></div> <div data-bbox="341 468 1378 575" data-label="Text"><p>Comprehensive user manual for the STABILA LD 520 laser distance measurer, detailing its features, operations, settings, functions, technical specifications, safety guidelines, and troubleshooting information.</p></div>
<div data-bbox="178 629 247 649" data-label="Text"><p>STABILA</p></div> <div data-bbox="172 667 252 806" data-label="Image">A yellow and black handheld laser distance measurer. The screen shows '9553'.</div> <div data-bbox="196 837 231 853" data-label="Text"><p>LD 320</p></div>	<div data-bbox="341 698 984 728" data-label="Section-Header"><p>STABILA LD 320 Laser Distance Measurer User Manual</p></div> <div data-bbox="341 739 1425 808" data-label="Text"><p>Comprehensive user manual for the STABILA LD 320 laser distance measurer, covering setup, operations, measuring functions, technical data, safety, and maintenance.</p></div>