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Strex SP303

Strex Laser Rangefinder 60m User Manual

Model: SP303

1. Introduction

Thank you for choosing the Strex Laser Rangefinder. This precise and convenient device allows you to quickly and easily measure distances up to 60 meters. Designed for both professionals and DIY enthusiasts, it offers reliable performance with its IP54 dust and water resistance. This manual provides detailed instructions on how to set up, operate, and maintain your device to ensure optimal performance and longevity.

2. Safety Information

Please read all safety warnings and instructions carefully before using the device. Failure to follow these instructions may result in laser radiation exposure, electric shock, fire, and/or serious injury.

- **Laser Radiation:** This product is a Class 2 laser product. Do not stare directly into the laser beam. Do not point the laser beam at people or animals.
- **Eye Protection:** Always wear appropriate eye protection when operating the device, especially in environments where reflective surfaces are present.
- **Children:** Keep the device out of reach of children.
- **Environment:** Do not operate the device in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Maintenance:** Do not attempt to modify or repair the device yourself. Refer all servicing to qualified service personnel.
- **Batteries:** Use only specified battery types. Do not mix old and new batteries, or different types of batteries. Dispose of batteries properly.

3. Package Contents

Upon opening the package, please verify that all items listed below are present and in good condition:



- 1 x Strex Laser Rangefinder (Model: SP303)
- 1 x Protective Pouch
- 1 x Wrist Strap
- 2 x AAA Batteries
- 1 x User Manual

Image: Contents of the Strex Laser Rangefinder package, including the device, batteries, protective pouch, and wrist strap.

4. Product Overview

Familiarize yourself with the components and features of your Strex Laser Rangefinder.

4.1 Key Features



- **Dual Spirit Levels:** Integrated horizontal and vertical bubble levels for precise alignment.
- **Large Backlit LCD Screen:** Clear display for optimal readability in various lighting conditions.
- **Accurate Laser Measurement:** Measures distances up to 60 meters with an accuracy of ±2 mm.
- **Durable Casing:** IP54 rated for dust and water resistance, ensuring maximum durability.

Image: Visual representation of the laser rangefinder's main features, including its spirit levels, display, measurement range, and robust design.

4.2 Device Layout and Buttons



- **Spirit Level:** Displays horizontal and vertical alignment.
- **MEAS Button:** Initiates single measurement, continuous measurement, or confirms selection.
- **Function Button (Square/Cube icon):** Toggles between Area, Volume, and Pythagoras measurement modes.
- **UNIT Button:** Changes measurement units (meters, feet, inches, feet+inches).
- **History Button (Stacked lines icon):** Accesses stored measurement data.
- **Add (+) Button:** Adds current measurement to previous one.
- **Subtract (-) / Sound Button:** Subtracts current measurement from previous one; long press to toggle sound.
- **Power / Clear Button:** Powers the device on/off; short press to clear current measurement or go back.

Image: Detailed diagram illustrating the various buttons on the laser rangefinder and their respective functions.

5. Setup

5.1 Installing Batteries

Your Strex Laser Rangefinder comes with two AAA batteries. Follow these steps to install them:

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

The device is now ready for use. The display will show the battery level indicator.

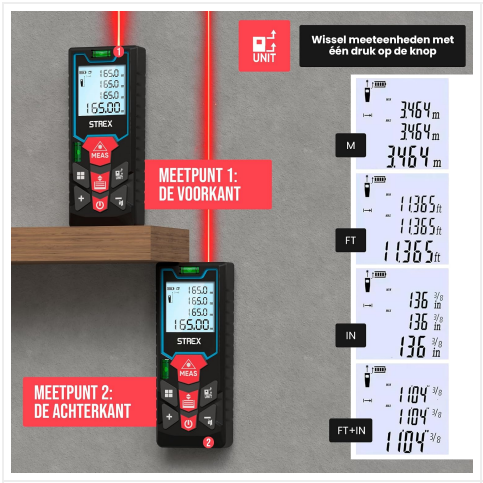
5.2 Powering On/Off

- **To Power On:** Press the **Power / Clear** button. The laser will activate automatically.
- **To Power Off:** Long press the **Power / Clear** button. The device also features an automatic shut-off function after a period of inactivity to conserve battery life.

6. Operating Instructions

The Strex Laser Rangefinder offers various measurement modes to suit your needs.

6.1 Changing Measurement Units



Press the **UNIT** button repeatedly to cycle through the available measurement units: meters (m), feet (ft), inches (in), and feet+inches (ft+in).

Image: Illustration of the unit conversion feature, demonstrating the different measurement units available on the display.

6.2 Setting Measurement Reference Point

The device can measure from its front edge or its rear edge. By default, it measures from the rear edge. To change the reference point:

- Press the **UNIT** button for a long time (approx. 2 seconds) to toggle the reference point. An icon on the display will indicate whether the measurement is taken from the front or the rear of the device.

6.3 Basic Measurement (Length)

1. Point the laser at the target surface.
2. Press the **MEAS** button once. The laser will turn on.
3. Press the **MEAS** button again to take the measurement. The result will be displayed on the screen.

6.4 Continuous Measurement (Tracking)

This mode allows you to continuously measure distances as you move the device, displaying the minimum and maximum values.

1. From basic measurement mode, press and hold the**MEAS** button. The device will start continuous measurement.
2. Move the device to track distances. The display will show real-time measurements, along with minimum and maximum values.
3. Press the **MEAS** button again to stop continuous measurement.

6.5 Area Measurement



1. Press the **Function** button once. The area icon (rectangle) will appear on the display.
2. Measure the first side (e.g., length) by pressing **MEAS**.
3. Measure the second side (e.g., width) by pressing **MEAS**.
4. The device will automatically calculate and display the area.

Image: Visual guide to the various measurement functions, including how to calculate area.

6.6 Volume Measurement



1. Press the **Function** button twice. The volume icon (cube) will appear on the display.
2. Measure the length by pressing **MEAS**.
3. Measure the width by pressing **MEAS**.
4. Measure the height by pressing **MEAS**.
5. The device will automatically calculate and display the volume.

Image: Visual guide to the various measurement functions, including how to calculate volume.

6.7 Pythagoras Measurement (Indirect Measurement)



The device supports two types of Pythagoras measurements: two-point and three-point.

Two-Point Pythagoras (Indirect Height)

1. Press the **Function** button three times. The two-point Pythagoras icon will appear.
2. Measure the hypotenuse (diagonal distance from device to top of object) by pressing **MEAS**.
3. Measure the base (horizontal distance from device to base of object) by pressing **MEAS**.
4. The device will automatically calculate and display the indirect height.

Three-Point Pythagoras (Indirect Height with two hypotenuses)

1. Press the **Function** button four times. The three-point Pythagoras icon will appear.
2. Measure the first hypotenuse (diagonal distance from device to top of object) by pressing **MEAS**.
3. Measure the base (horizontal distance from device to base of object) by pressing **MEAS**.
4. Measure the second hypotenuse (diagonal distance from device to bottom of object) by pressing **MEAS**.
5. The device will calculate and display the indirect height.

Image: Visual guide to the various measurement functions, including how to perform Pythagoras calculations.

6.8 Addition and Subtraction

You can add or subtract measurements from each other.

- Take a measurement.
- Press the **Add (+)** button or **Subtract (-)** button.
- Take the next measurement. The result of the addition or subtraction will be displayed.
- You can continue adding/subtracting multiple measurements.

6.9 Viewing Measurement History

The device can store up to 20 measurement data points.

- Press the **History** button (stacked lines icon) to view previous measurements.
- Use the **Add (+)** and **Subtract (-)** buttons to scroll through the stored data.
- To clear the history, long press the **History** button.

7. Maintenance

Proper maintenance ensures the longevity and accuracy of your Strex Laser Rangefinder.

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or solvents. Pay special attention to the laser lens and display, keeping them free of dust and debris.
- **Storage:** When not in use for extended periods, remove the batteries to prevent leakage. Store the device in its protective pouch in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Impact Protection:** Although durable, avoid dropping the device or subjecting it to strong impacts, as this can affect its accuracy and internal components.

8. Troubleshooting

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

Problem	Possible Cause	Solution
Device does not power on.	Low or dead batteries; incorrect battery polarity.	Replace batteries with new AAA batteries. Ensure correct polarity.
Inaccurate measurements.	Dirty laser lens/sensor; unstable measurement surface; strong light interference.	Clean the laser lens and sensor with a soft cloth. Ensure a stable measurement surface. Avoid direct sunlight or strong light sources.
Laser beam not visible.	Bright ambient light; laser not activated.	Use in lower light conditions if possible. Press the MEAS button to activate the laser.
Display shows "Error".	Measurement out of range; object too reflective/absorbent.	Ensure target is within 0.05m to 60m range. Measure against a non-reflective, non-absorbent surface.

If the problem persists after trying these solutions, please contact customer support.

9. Specifications

Detailed technical specifications for the Strex Laser Rangefinder.

Measurement Range	Up to 60 meters
Accuracy	±2 mm
Measurement Functions	Distance, Area, Volume, Pythagoras (2-point, 3-point), Continuous Measurement, Min/Max, Addition/Subtraction
Display	Backlit LCD
Data Storage	Up to 20 measurement records
Dust & Water Resistance	IP54
Batteries	2 x AAA (included)
Automatic Shut-off	Yes (after period of inactivity)
Weight	90 grams

Dimensions (L x W x H)	11.5 x 5 x 2.5 cm
Color	Black
Model Number	SP303

10. Warranty and Support

Strex 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 Strex website.

Customer Support: For any questions, issues, or assistance, please contact your retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase for warranty claims.

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