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Truper MELA-100

Truper MELA-100 100m Laser Distance Meter User Manual

Model: MELA-100

Introduction | Safety | Contents | Overview | Setup | Operation & Support | Maintenance | Troubleshooting | Specifications | Warranty

1. Introduction

This manual provides detailed instructions for the safe and effective use of your Truper MELA-100 Laser Distance Meter. Please read this manual thoroughly before operating the device and retain it for future reference. The Truper MELA-100 is designed for precise distance, area, and volume measurements up to 100 meters, offering accuracy of ±2 mm.

2. Safety Information

2.1 Laser Safety

WARNING: This device emits a Class 2 laser. Do not stare into the laser beam or direct it at other people or animals. Avoid direct eye exposure.

- Do not attempt to modify the laser device.
- Use only as described in this manual.
- Keep out of reach of children.

2.2 General Safety Precautions

- Do not operate the device in explosive atmospheres or near flammable liquids or gases.
- Protect the device from extreme temperatures, strong vibrations, and direct sunlight.
- Do not immerse the device in water.
- Use only specified batteries (2 AAA alkaline batteries).
- Dispose of batteries properly according to local regulations.

3. Package Contents

Verify that all items are present in the package:

- 1 x Truper MELA-100 Laser Distance Meter
- 1 x Protective Case
- 1 x Wrist Strap
- 1 x Screwdriver (for battery compartment)
- 2 x AAA Alkaline Batteries
- 1 x User Manual (this document)



Figure 3.1: Included accessories: protective case, wrist strap, and screwdriver.

4. Product Overview

The Truper MELA-100 features a robust design with a 1.8-inch (46 mm) color display for clear readings. It includes various function buttons for easy operation.



Figure 4.1: Truper MELA-100 Laser Distance Meter.

4.1 Device Components and Controls



Figure 4.2: Key components and controls of the MELA-100.

1. **Color Display (1.8" / 46 mm):** Shows measurements, modes, and device status.
2. **ON / DIST Button:** Powers on the device and initiates distance measurements.
3. **Reference Point Button:** Changes the measurement reference point (front or rear of device).
4. **Memory Button:** Accesses stored measurements (up to 30 series).
5. **Indirect Measurement Button:** Activates Pythagorean measurement modes.
6. **Add / Subtract Button:** Performs addition or subtraction of measurements.
7. **Clear / OFF Button:** Clears current data or powers off the device.
8. **Area / Volume Measurement Mode Button:** Selects area or volume calculation modes.

5. Setup

5.1 Battery Installation

1. Locate the battery compartment cover on the back of the device.
2. Use the provided screwdriver to loosen the screw on the battery compartment cover.
3. Remove the cover.
4. Insert two AAA alkaline batteries, ensuring correct polarity (+/-).
5. Replace the battery compartment cover and tighten the screw.

6. Operating Instructions

6.1 Power On/Off

- **To Power On:** Press the **ON / DIST** button. The laser will activate.
- **To Power Off:** Press and hold the **Clear / OFF** button for approximately 3 seconds. The device will also automatically power off after 150 seconds of inactivity.

6.2 Basic Distance Measurement

1. Power on the device.
2. Point the laser beam at the target surface.
3. Press the **ON / DIST** button once. The measurement will be displayed on the screen.

6.3 Measurement Modes

The MELA-100 supports various measurement functions:

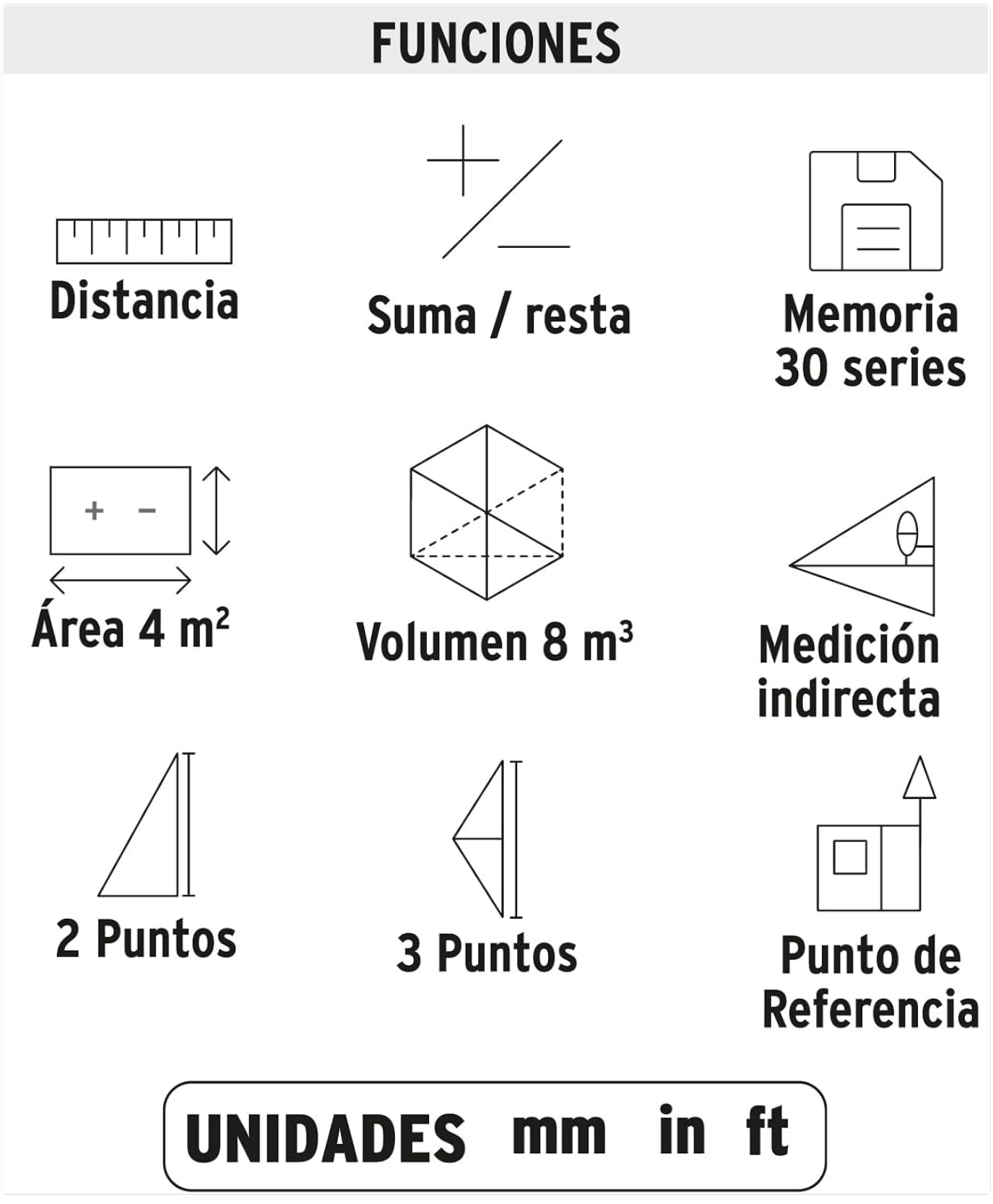

Figure 6.1: Overview of measurement functions.

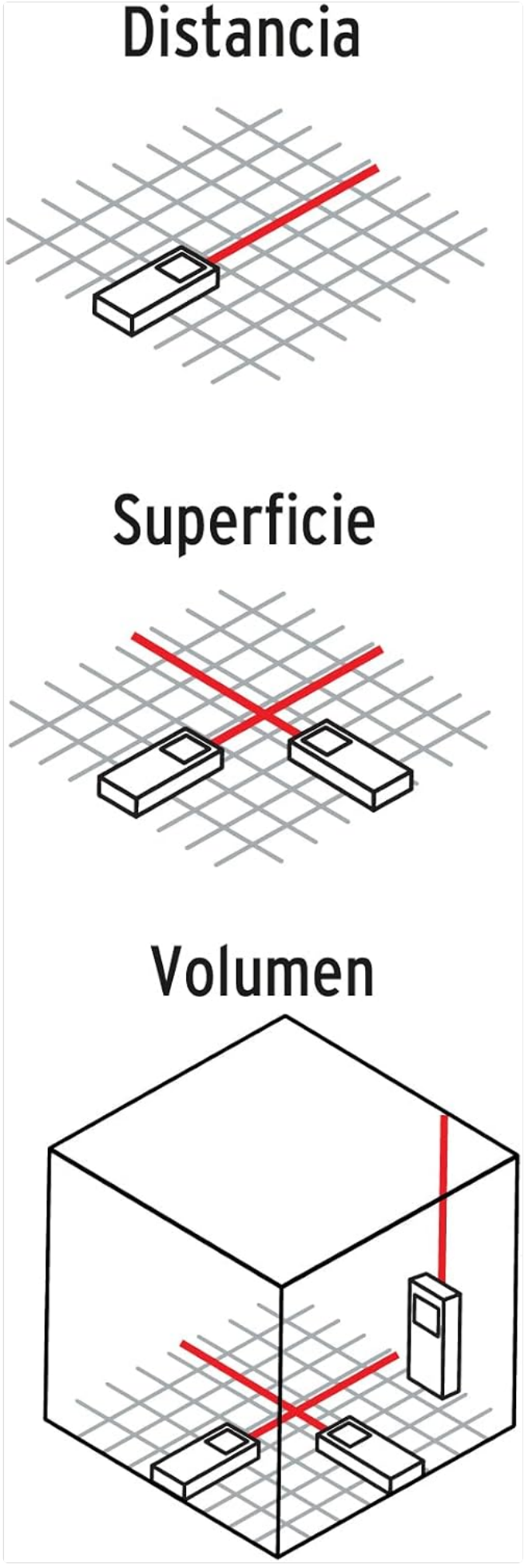

Figure 6.2: Visual representation of distance, surface (area), and volume measurements.

6.3.1 Area Measurement

1. Press the **Area / Volume Measurement Mode** button once. The area icon will appear on the display.
2. Measure the first side (e.g., length) by pressing **ON / DIST**.
3. Measure the second side (e.g., width) by pressing **ON / DIST**.
4. The calculated area will be displayed.

6.3.2 Volume Measurement

1. Press the **Area / Volume Measurement Mode** button twice. The volume icon will appear.
2. Measure the length by pressing **ON / DIST**.
3. Measure the width by pressing **ON / DIST**.
4. Measure the height by pressing **ON / DIST**.
5. The calculated volume will be displayed.

6.3.3 Indirect Measurement (Pythagorean Theorem)

This mode allows measurement of heights or distances that cannot be directly measured. The device supports 2-point and 3-point indirect measurements.

1. Press the **Indirect Measurement** button to cycle through the indirect measurement modes (e.g., 2-point, 3-point).
2. Follow the on-screen prompts to take the required measurements (e.g., hypotenuse, base).
3. The calculated indirect distance will be displayed.

6.4 Add and Subtract Measurements

1. Take a measurement.
2. Press the **Add / Subtract** button. A '+' or '-' symbol will appear.
3. Take the next measurement.
4. The result of the addition or subtraction will be displayed. Repeat for multiple calculations.

6.5 Reference Point Adjustment

Press the **Reference Point** button to switch between measuring from the front edge or the rear edge of the device. The active reference point is indicated on the display.

6.6 Unit Conversion

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

6.7 Memory Function

The device can store up to 30 sets of measurements.

- **To Store:** Measurements are automatically stored after each successful calculation.
- **To Recall:** Press the **Memory** button to view stored measurements. Use the arrow buttons (if available, or cycle through by pressing Memory again) to navigate.
- **To Clear:** Individual measurements can be cleared using the **Clear / OFF** button when viewing memory.

7. Maintenance

7.1 Cleaning

- Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Clean the laser lens carefully with a soft, lint-free cloth, similar to cleaning camera lenses.

7.2 Storage

- Store the device in its protective case when not in use.
- Remove batteries if the device will not be used for an extended period to prevent leakage.
- Store in a dry, cool place, away from direct sunlight and extreme temperatures.

8. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Device does not power on.	Low or dead batteries; incorrect battery polarity.	Replace batteries; ensure correct polarity.
Inaccurate measurements.	Unstable surface; obstruction in laser path; dirty lens; measurement beyond range.	Ensure stable measurement; clear laser path; clean lens; measure within 100m range.
Laser beam is not visible.	Bright ambient light; device malfunction.	Use in lower light conditions; contact support if issue persists.
Display shows an error message.	Measurement error; internal fault.	Refer to specific error codes in a more detailed manual (if available) or restart device. If persistent, contact support.

9. Specifications



Figure 9.1: Truper MELA-100 dimensions.

Feature	Detail

Feature	Detail
Model	MELA-100
Measuring Range	0.05 m to 100 m (0.16 ft to 328 ft)
Accuracy	±2 mm (±0.08 in)
Display	1.8" (46 mm) Color Display
Measurement Units	m, in, ft
Measurement Functions	Distance, Area, Volume, Indirect (Pythagorean), Add/Subtract
Memory	30 series
Laser Class	Class 2
Power Source	2 x AAA Alkaline Batteries
Automatic Laser Shut-off	30 seconds
Automatic Device Shut-off	150 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)
Dimensions (approx.)	12 cm (Length) x 5.2 cm (Width)
Weight (with batteries)	Approx. 260 g (0.57 lbs)
Tripod Thread	1/4" (6.5mm)

10. Warranty and Support

Truper products are manufactured under strict quality controls. For warranty information, please refer to the warranty card included with your product or visit the official Truper website. Keep your purchase receipt as proof of purchase.

10.1 Customer Support

If you encounter any issues or have questions not covered in this manual, please contact Truper customer support through their official website or the contact information provided on your product packaging.

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