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› TopHomer 2-in-1 Ultrasonic Rangefinder and Tape Measure User Manual

TopHomer ZJY-PT-231024A3

TopHomer 2-in-1 Ultrasonic Rangefinder and Tape Measure

USER MANUAL

Model: ZJY-PT-231024A3

INTRODUCTION

Thank you for choosing the TopHomer 2-in-1 Ultrasonic Rangefinder with integrated 1m tape measure. This professional measuring device is designed for accurate and efficient distance, area, and volume calculations in various settings, including construction, real estate, and industrial applications. Please read this manual carefully before using the device to ensure proper operation and to maximize its lifespan.

PRODUCT FEATURES

- **2-in-1 Functionality:** Combines an ultrasonic rangefinder with a 1-meter retractable tape measure for versatile measurements.
- **High Precision:** Ultrasonic technology provides accurate distance measurements from 0.55m to 18m with an error margin of 0.5% + 1 digit.
- **Multifunctional Measurement:** Capable of measuring straight distance, calculating area, and volume.
- **Digital LCD Display:** Clear LED backlit screen for easy reading of measurements.
- **Unit Switching:** Easily switch between meters (m) and feet (ft).
- **Durable Construction:** Made from high-quality ABS and electronic components, designed to be shock-resistant and anti-collision.
- **Portable Design:** Compact and lightweight for easy carrying in a pocket or bag.
- **Low Battery Indicator:** Alerts you when the battery needs replacement.

SETUP

1. Battery Installation

The device requires a 9V battery (not included). To install:

1. Locate the battery compartment cover on the back of the device.
2. Slide the cover open.
3. Insert a new 9V battery, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.



Figure 1: Back view of the device with the battery compartment.

2. Powering On/Off

To power on the device, slide the ON/OFF switch to the 'ON' position. To power off, slide the switch to the 'OFF' position. The device may also automatically power off after a period of inactivity to conserve battery life.



Figure 2: Side view showing the ON/OFF switch and 'MEAS' button.

3. Unit Selection

After powering on, the device will display measurements in either meters (m) or feet (ft). To switch between units, press the designated unit button (often labeled 'm/ft' or integrated with another function button). Refer to the LCD display for the current unit.

OPERATING INSTRUCTIONS

1. Ultrasonic Distance Measurement

To measure distance using the ultrasonic function:

1. Ensure the device is powered on.
2. Point the front of the device, where the ultrasonic sensor is located, directly at the target surface. Ensure there are no obstructions between the device and the target.
3. Press the 'MEAS' button. The device will emit an ultrasonic signal, and the measured distance will appear on the LCD screen.
4. Hold the device steady during measurement for optimal accuracy.



Figure 3: Front view with ultrasonic sensor and indicator light.



Figure 4: Examples of the rangefinder measuring distances in a room.

2. Area and Volume Measurement

The device can calculate area and volume based on sequential distance measurements:

1. **Area Measurement:** Press the 'AREA' button (or equivalent, often combined with '+/=' or 'x/='). Measure the length, then the width. The device will automatically calculate and display the area.
2. **Volume Measurement:** Press the 'VOLUME' button (or equivalent). Measure the length, then the width, then the height. The device will automatically calculate and display the volume.

Refer to the specific button labels on your device for these functions. The LCD will guide you through the required measurements.

3. Using the Tape Measure

For shorter distances or when ultrasonic measurement is not suitable, use the integrated 1-meter tape measure:

1. Pull out the tape measure from the side of the device.

2. Measure the desired length.
3. Press the retraction button (if available) or gently guide the tape back into the housing.



Figure 5: Device showing the integrated tape measure.

MAINTENANCE

1. Cleaning

To maintain accuracy and device longevity:

- Wipe the device with a soft, dry cloth.
- Do not use abrasive cleaners, solvents, or immerse the device in water.
- Keep the ultrasonic sensor clean and free from dust or debris.

2. Storage

When not in use for extended periods, store the device in a cool, dry place. Remove the battery to prevent leakage and

potential damage to the device.

3. Battery Replacement

When the low battery indicator appears on the LCD, replace the 9V battery as described in the 'Setup' section. Always dispose of used batteries responsibly.

TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|--------------------------------|--|--|
| Device does not power on. | Dead or incorrectly installed battery. | Check battery polarity; replace with a new 9V battery. |
| Inaccurate measurements. | Obstructions in the measurement path; uneven target surface; device not held steady; measurement out of range. | Ensure clear path to target; measure to a flat, smooth surface; hold device steady; ensure target is within 0.55m-18m range. |
| LCD display is dim or blank. | Low battery. | Replace the 9V battery. |
| Tape measure does not retract. | Mechanism jammed or damaged. | Gently pull and release the tape; do not force. If persistent, contact support. |

SPECIFICATIONS

- **Model:** ZJY-PT-231024A3
- **Measurement Range (Ultrasonic):** 0.55 m to 18 m (1.8 ft to 59 ft)
- **Accuracy:** $\pm 0.5\%$ + 1 digit
- **Tape Measure Length:** 1 m (3.28 ft)
- **Units:** Meters (m) / Feet (ft)
- **Power Source:** 9V battery (not included)
- **Material:** High-quality ABS and electronic components
- **Dimensions:** Approximately 17 x 14 x 4.5 cm (6.7 x 5.5 x 1.8 inches)
- **Weight:** Approximately 122 grams (4.3 ounces)
- **Functions:** Distance, Area, Volume measurement

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided at the time of purchase or contact your retailer/seller directly. Keep your purchase receipt as proof of purchase.

