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## MAKINGTEC B-40

# MAKINGTEC B-40 Laser Measure User Manual

Model: B-40 | Brand: MAKINGTEC

## 1. PRODUCT OVERVIEW

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The MAKINGTEC B-40 Laser Measure is a compact and versatile digital device designed for accurate distance, area, and volume measurements. It features an LCD backlit display, multiple measurement modes, and a durable, waterproof design. This manual will guide you through its functions and proper usage.



**Figure 1.1:** Front view of the MAKINGTEC B-40 Laser Measure with key components labeled. This includes the laser indicator, LCD backlight, measurement result display, area/volume/Pythagorean mode button, reference point/units switch, power on/measure button, continuous measurement, addition/subtraction, data memory, power off/data clear, and bubble level.

## 2. SETUP AND INITIAL USE

### 2.1 Battery Installation

The MAKINGTEC B-40 Laser Measure operates on alkaline batteries, which are typically included. To install or replace batteries:

1. Locate the battery compartment cover on the back of the device.
2. Open the cover by sliding or unlatching it.
3. Insert the batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

### 2.2 Powering On/Off

- **To Power On:** Press the **MEAS** button. The device will turn on and be ready for measurement.

- **To Power Off:** Long press the **OFF/CLEAR** button for more than 2 seconds.

### 3. BASIC OPERATION

This section covers the fundamental steps for using your laser measure.

## BETTER OPERATION



1. Press the “” button to turn on the machine



2. Short press the “” button to select Reference edge / long press to Unit Switch



3. Press the “” button to select Aera / Volume and Pythagorean Mode



4. Press the “” button to select Addition / Subtraction operation



5. Long press the “” button to see Data record



6. Long press the “” button to Power Off / short press to Data Clear

Figure 3.1: Visual guide for basic operations including powering on, selecting reference point, choosing measurement modes, performing addition/subtraction, viewing data records, and powering off.

#### 3.1 Single Distance Measurement

1. Ensure the device is powered on.
2. Point the laser at the target surface.
3. Press the **MEAS** button once. The measurement will be displayed on the screen.

#### 3.2 Unit Switching

The device supports multiple units of measurement. To switch between units (meter, feet, inch, feet+inch, inch with fraction mode):

- Long press the **Unit** button. The unit will cycle through the available options.

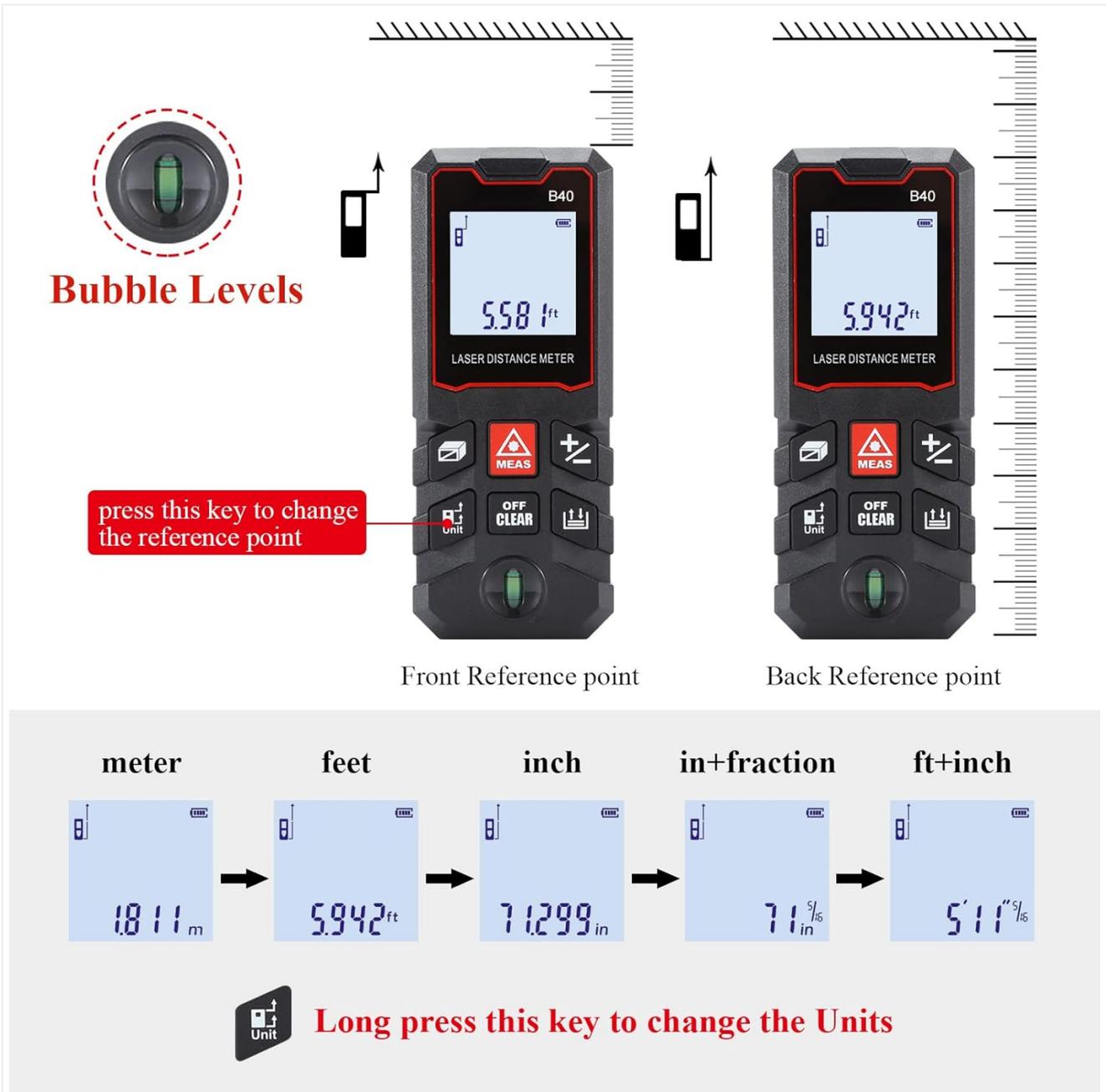


Figure 3.2: Illustration of unit switching sequence and reference point adjustment using the 'Unit' button.

### 3.3 Reference Point Adjustment

The measurement reference point can be set from the front or the back of the device. This is crucial for accurate measurements depending on where the device is placed.

- Short press the **Unit** button to toggle between front and back reference points. An icon on the display will indicate the current reference point.

### 3.4 Addition and Subtraction

The B-40 allows for adding or subtracting measurements.

1. Perform a measurement.
2. Press the **+** button for addition or the **-** button for subtraction.
3. Perform the next measurement. The result will be added or subtracted from the previous one.

### 3.5 Data Storage

The device can store up to 50 groups of measurement data.

- To view stored data, long press the **Data Memory** button.
- To clear data, short press the **OFF/CLEAR** button while viewing data.

## 4. MEASUREMENT MODES

The MAKINGTEC B-40 offers several advanced measurement functions.

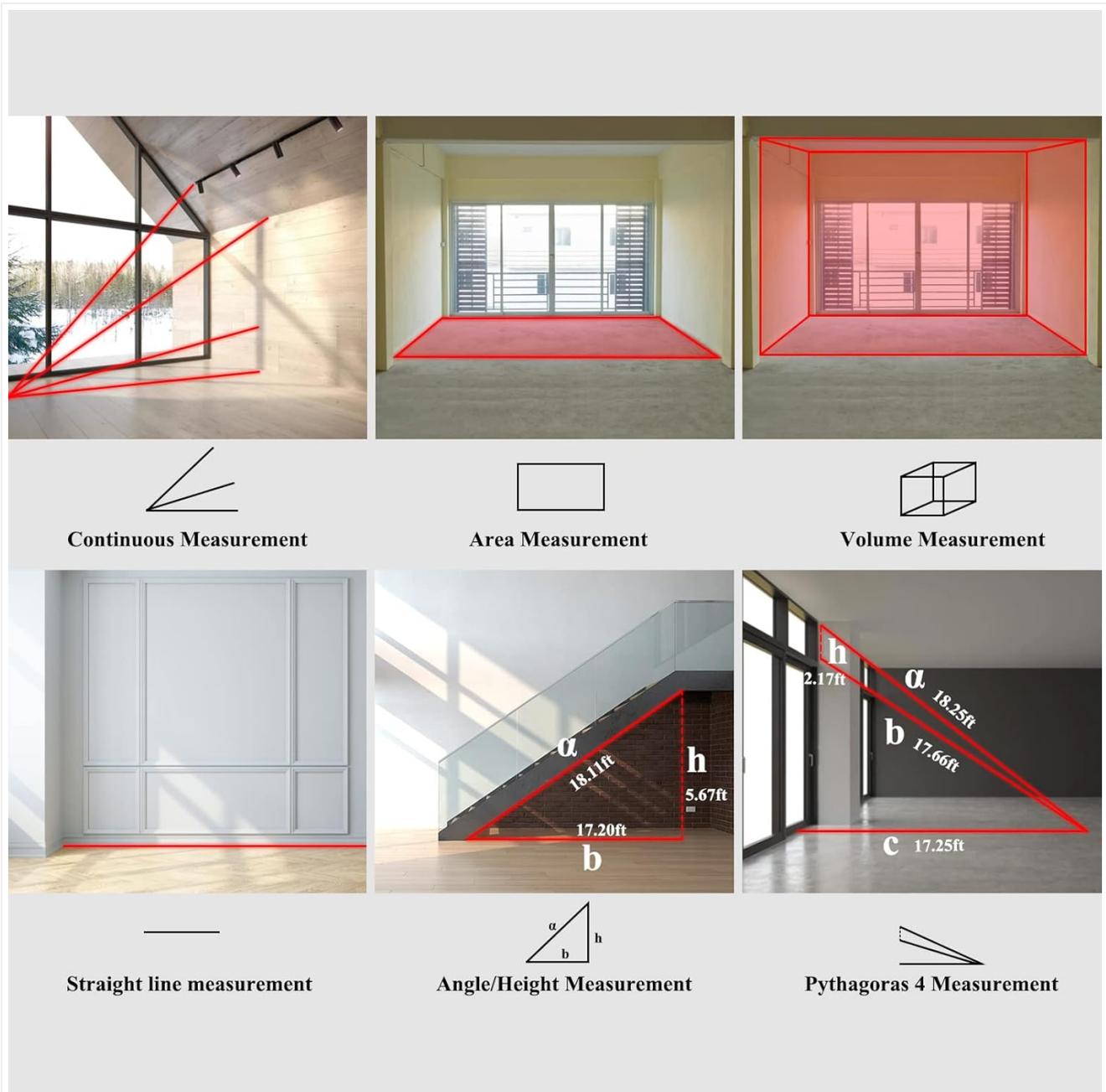


Figure 4.1: Visual examples of the different measurement modes available on the device.

### 4.1 Continuous Measurement

This mode allows for dynamic measurement, continuously updating the distance as the device is moved. It is useful for finding minimum and maximum distances.

- Press the **MEAS** button to enter continuous measurement mode.
- Move the device, and the display will show real-time measurements, along with minimum and maximum values.
- Press **MEAS** again to exit.

## 4.2 Area Measurement

To calculate the area of a rectangular space:

1. Press the **Area/Volume/Pythagorean** button until the area icon appears on the display.
2. Measure the first side (length) by pressing **MEAS**.
3. Measure the second side (width) by pressing **MEAS**.
4. The device will automatically calculate and display the area.

## 4.3 Volume Measurement

To calculate the volume of a cubic space:

1. Press the **Area/Volume/Pythagorean** button until the volume icon appears.
2. Measure the length, width, and height sequentially by pressing **MEAS** after each measurement.
3. The device will automatically calculate and display the volume.

## 4.4 Pythagorean Mode

This mode uses the Pythagorean theorem to calculate indirect measurements, such as height or distance, when direct measurement is not possible.

- Press the **Area/Volume/Pythagorean** button until the desired Pythagorean mode icon appears (e.g., for single or double Pythagorean calculations).
- Follow the on-screen prompts to measure the required sides (hypotenuse, base) by pressing **MEAS** for each.
- The device will calculate and display the unknown side.

## 5. MAINTENANCE AND CARE

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Proper maintenance ensures the longevity and accuracy of your MAKINGTEC B-40 Laser Measure.

### 5.1 Cleaning

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

### 5.2 Storage

- Store the device in a cool, dry place, away from direct sunlight and extreme temperatures.
- If storing for extended periods, remove the batteries to prevent leakage.

### 5.3 Durability

The MAKINGTEC B-40 has an IP54 protection rating, meaning it is protected against dust ingress and splashing water from any direction. While durable, avoid submerging the device in water or exposing it to heavy rain.

# IP54 Protection

## Waterproof and dustproof



Figure 5.1: The device is designed with IP54 protection, offering resistance to dust and water splashes.

## 6. 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 installation.	Replace batteries; ensure correct polarity.
Inaccurate measurements.	Dirty laser lens; incorrect reference point; unstable surface.	Clean the laser lens; verify reference point setting; ensure stable measurement conditions.
Display is dim or unreadable.	Low battery; extreme temperature.	Replace batteries; operate within specified temperature range.

## 7. SPECIFICATIONS

Key technical specifications for the MAKINGTEC B-40 Laser Measure.

Feature	Detail
Brand	MAKINGTEC
Model Number	B-40 laser measure
Measuring Range	0.03-40m (0.1-131ft)
Accuracy	±1/16 inch
International Protection Rating	IP54 (Waterproof, Dustproof)
Material	Metal, Plastic
Item Weight	85 Grams
Product Dimensions	10.9L x 4.9W x 2.5H Centimeters
Battery Type	Alkaline (Batteries Included: Yes)
Display	LCD Backlit
Data Storage	50 groups



Figure 7.1: The B-40 Laser Measure offers fast and precise measurements with an accuracy of  $\pm 1/16$  inch.

## 8. PRODUCT DEMONSTRATION VIDEO

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Watch this official product video for a visual demonstration of the MAKINGTEC B-40 Laser Measure's features and operation.



**Video 8.1:** An official demonstration of the MAKINGTEC B-40 Laser Measure, showcasing its design, button functions, and various measurement capabilities including length, area, and unit switching. This video provides a comprehensive visual guide to the device's operation.

## 9. WARRANTY AND SUPPORT

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The MAKINGTEC B-40 Laser Measure comes with a 12-month return policy. Additionally, a 1-year extended warranty by Onsitego is available for purchase, providing further protection for your device.

For further assistance or inquiries, please refer to the contact information provided with your purchase or visit the official MAKINGTEC support channels.

