# Owner's Manual

# Laser Distance Meter – 50 m (165 ft.)

**Model: T030-50M**

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# Table of Contents

2

# Package Contents

- T030-50M
- (x2) AAA Batteries
- Carrying Case
- Hang Rope
- Reflector Board
- Owner's Manual

# Product Features

- Reduce estimation errors by improving measurement accuracy
- Simple one-button operation instantly measures the distance between two objects
- Allows for quick calculation of area and volume
- Bright laser light provides targeting ease, especially at long distances
- Measure up to 50 m (165 ft.) with +/- 1 mm (0.04 in.) accuracy
- Pythagoras function measures height from two indirect measurements
- Quick addition and subtraction function
- Device automatically powers off when not in use, improving battery life
- Backlit screen improves visibility
- Rubber over-mold for extra protection and durability
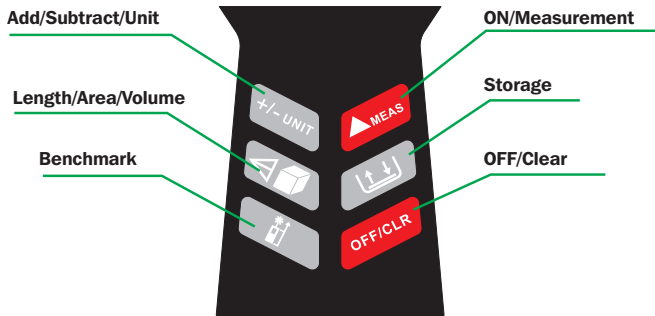- Compact and lightweight design for convenient storage and portability
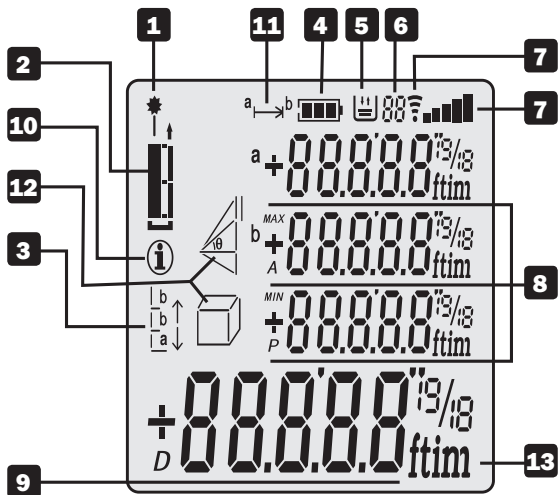
# Safety Instructions

## ⚠️ Prevent Eye Damage and Personal Injury

- Carefully read all safety information and instructions before using the product
- Use product only as specified
- Do not use around explosive gas, vapor or in wet/damp environments
- Discontinue use of product if it does not operate correctly or is damaged
- Do not look into the laser or point it directly or indirectly at reflective surfaces, a person or an animal
- Do not open product if repairs are needed; only repair through an approved technical site
- Keep product out of reach of children and unauthorized personnel
- Discard batteries in accordance with local laws and regulations

# Keypad



Add/Subtract/Unit

Length/Area/Volume

Benchmark

ON/Measurement

Storage

OFF/Clear

+/– UNIT

MEAS

OFF/CLR

**4**

# LCD Screen



1  Laser On
2  Measurement of Edge
3  Lofting Function
4  Battery Condition
5  Data Storage
6  Quantity of Data Storage
7  Signal Strength
8  Auxiliary Display

9  Lord Measurement Display
10 Delay Measurement
11 Distance Measurement
12 Instructions of Area, Volume, Pythagorean (Indirect) Measurement
13 Measurement Unit (m² and m³ Included)

# Battery Installation

*Note: Use only 1.5V AAA alkaline batteries.*

Open the battery door on the back of the device and insert the included (x2) AAA batteries according to the correct polarity. Close the battery door. Batteries should be replaced when the ▊▊▊ icon flashes in the display.
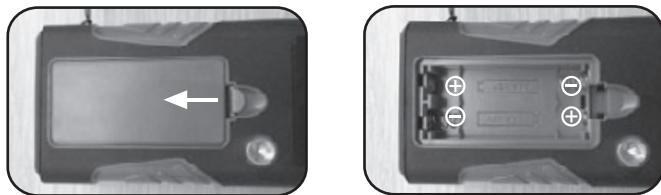


*Note: If the device will not be used for an extended period of time, remove the batteries to avoid corrosion.*

# Operation

## On/Off Function

**1** To turn on the device, press ▲ **MEAS**. Press ▲ **MEAS** again to activate the laser.

**2** To turn off the device, press and hold **OFF/CLR** for 3 seconds.

**3** When the device is on but not in use, the backlight will shut off within 15 seconds. After 30 seconds of no use, the laser will shut off. The device will automatically shut off after 3 minutes of inactivity.

## Taking Measurements

### Single Measurement

Turn on the device and activate the laser. Once the laser is activated, press ▲ **MEAS** to get a single distance measurement. Measurement results will display on the screen and automatically be stored in the system.

### Continuous Measurement

Turn on the device and activate the laser. Once the laser is activated, press and hold ▲ **MEAS** for 2 seconds to start the continuous measurement function. The main display will indicate the measured results, and the auxiliary screen will show the maximum and minimum distances measured.

### Area Measurement

Turn on the device and activate the laser. Once the laser is activated, quickly press ◁ ▤ for the ▱ icon to display on the LCD screen. The icon's bottom edge will flash. When this happens, do the following:

**1** Press ▲ **MEAS** to measure the first edge (length).

**2** Press ▲ **MEAS** to measure the second edge (width).

The device will automatically calculate the area and its measurement will display on the screen. Press **OFF/CLR** to remove the previous result and prepare for the next measurement.

**7**

# Operation

**Volume Measurement**

Turn on the device and activate the laser. Once the laser is activated, press ◁ 🗗 twice for the screen to display the 🗗 icon. One of the cube icon's edges will flash. When this happens, do the following:

**1** Press ▲ **MEAS** to measure the first edge (length).

**2** Press ▲ **MEAS** to measure the second edge (width).

**3** Press ▲ **MEAS** to measure the third edge (height).

The device will automatically calculate the volume and display the measurement on the screen. Press **OFF/CLR** to remove the previous result and prepare for the next measurement.

**Pythagorean (Indirect) Measurement**

*Notes:*

- *There are three measuring modes to get unilateral distance measurements by way of the Pythagorean theorem. This is a convenient way for users to indirectly measure within complex environments. Pressing ◁ 🗗 will activate this mode. See the below instructions for details.*

- *The length of the right side of the triangle must be shorter than the hypotenuse side in order for the device to calculate the measurement. If this is incorrect, the device will display an error signal.*

- *To ensure accuracy, the measurement must be measured from the same starting point with a measuring order of hypotenuse and then right side.*

**1** Turn on the device and activate the laser. Once the laser is activated, press ◁ 🗗 three times for the screen to display the ◿ icon. In the icon, the triangle's hypotenuse will flash. Press ▲ **MEAS** to first measure the length of the (a) dotted line of triangle. Repeat this step to measure the second dotted line of the triangle (b). The length of (x) of the solid line is calculated automatically by the meter.



**8**
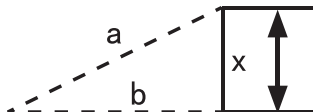
# Operation

**2** Turn on the device and activate the laser. Once the laser is activated, press ◁▯ four times for the screen to display the ◁ icon. In the icon, the top triangle's hypotenuse will flash. Press ▲ **MEAS** to first measure the length of the (a) dotted line of triangle. Repeat this step twice to measure the second dotted line of the triangle (b) and then the third dotted line of the triangle (c). The length of (x) of the solid line is calculated automatically by the meter.
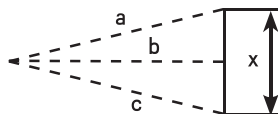


**3** Turn on the device and activate the laser. Once the laser is activated, press ◁▯ five times for the screen to display the ◢ icon. In the icon, the top triangle's hypotenuse will flash. Press ▲ **MEAS** to first measure the length of the (a) dotted line of triangle. Repeat this step twice to measure the second dotted line of the triangle (b) and then the third dotted line of the triangle (c). The length of (x) of the solid line is calculated automatically by the meter.
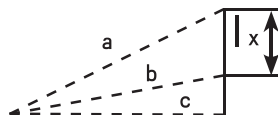


**9**

# Operation

**Lofting**

**1** Turn on the device. Press and hold ◁ ▰ for 2 seconds.

**2** Designate the a value (initial distance from the target) and b value (spacing interval distances) by using ▲ MEAS (to move digits) and +/- UNIT (to adjust digit values).

**3** Once values are set, place the meter on a flat surface and near the wall. Press ▲ MEAS to activate the laser. Slowly move the meter away from the wall until the value on the screen reads 0 (initial point).

**4** Continue to slowly move the meter further away from the wall and mark every space where the value on the screen reads 0.

**Add/Subtract Measurement**

Single distance measurement is calculated by adding/subtracting to get an accumulated measurement.

**1** Quickly press ▲ MEAS to turn on the device, then press ▲ MEAS again to activate the laser. Once the laser is activated, press +/- UNIT. The ✚ icon will appear on the main screen. You can switch between adding (✚) or subtracting (━) by pressing +/- UNIT repeatedly. Pressing ▲ MEAS will set each measurement point.

  • In the Distance mode, the accumulative value or distance between the measurements taken will display on the main screen.

  • In the Area/Volume mode, after taking measurements, press ▲ MEAS to calculate. The results will display on the main screen.

**10**

# Operation

### Measurement Benchmark Setting

Press ⬆️ to switch between front benchmark and end benchmark functions. The meter takes the end benchmark as its default.
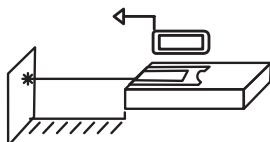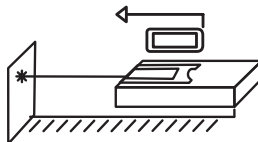


**Front Benchmark**                    **End Benchmark**

### Function Setting Switch

**1** Press and hold (⬆️⬇️) until the ⬆️ icon flashes.

**2** Press the keypad keys to select the mode you want to use.

### Battery Power

The meter's battery power is at full capacity when the 🔋 icon displays all three bars. When the icon is missing bars, battery power has been used. This icon will flash when a battery replacement is required.

### Signal Strength

The meter's signal is at full strength when the 📶 icon displays all five bars. The signal is weaker when fewer bars are displayed.

### Data Storage/Invoke

**1** Press (⬆️⬇️).

**2** Press **+/- unit** to navigate the values previously found/measured.

**11**

# Error Codes and Solutions

| Code | Reason | Solution |
|------|--------|----------|
| b.L | Low Voltage | Change battery |
| t.L | Low Temperature | Bring meter to warmer temperature |
| t.H | High Temperature | Bring meter to cooler temperature |
| d.H | Data Overflow | Measure again |
| S.L | Weak Signal | Test strong reflection ability of target |
| S.H | Strong Signal | Test weak reflection ability of target |
| H.F | Hardware Error | Restart<br>Contact Tripp Lite Tech Support if meter continues to fail |

# Specifications

| | |
|---|---|
| Measurement Distance | Up to 50 m (165 ft.) |
| Measurement Precision | +/- 1 mm |
| Unit Options | Meters/inches/feet |
| Test Time | 0.1 to 3 seconds |
| Laser Time | II & 635nm, <1mw |
| Automated Calibration Precision | Y |
| Continuous Measurement | Y |
| Area Measurement | Y |
| Pythagorean Measurement | Y |
| Add and Subtract Measurement | Y (Length/area/volume) |
| Max & Min Value | Y |
| Data Storage | Y |
| Signal Indicator | Y |
| Power Indicator | Y |
| Auto Power Off | 150 seconds |
| Backlit Display | Y |
| Key Tone | Y |
| Lofting Function | Y |
| Built-in Bubble Level | Y |
| Battery Type | 1.5V alkaline, AAA (x2) |
| Battery Cycle | 15,000 measurements |
| Operating Temperature | 0 to 40°C (32 to 104°F) |
| Storage Temperature | -25 to 60°C (-13 to 140°F) |
| Dimensions [H x W x D] | 108 x 51 x 31 mm (4.25 x 2 x 1.22 in.) |
| Weight | 88 g (0.19 lb.) |

# Product Registration and Regulatory Compliance

### PRODUCT REGISTRATION

Visit www.tripplite.com/warranty today to register your new Tripp Lite product. You'll automatically be entered into a drawing for a chance to win a FREE Tripp Lite product!*

\* No purchase necessary. Void where prohibited. Some restrictions apply. See website for details.

### FCC Notice, Class B

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications to this equipment not expressly approved by Tripp Lite could void the user's authority to operate this equipment.

# Product Registration and Regulatory Compliance

**WEEE Compliance Information for Tripp Lite Customers and Recyclers (European Union)**

Under the Waste Electrical and Electronic Equipment (WEEE) Directive and implementing regulations, when customers buy new electrical and electronic equipment from Tripp Lite they are entitled to:

• Send old equipment for recycling on a one-for-one, like-for-like basis (this varies depending on the country)

• Send the new equipment back for recycling when this ultimately becomes waste

**WARNING**

Use of this equipment in life support applications where failure of this equipment can reasonably be expected to cause the failure of the life support equipment or to significantly affect its safety or effectiveness is not recommended.

Tripp Lite has a policy of continuous improvement. Specifications are subject to change without notice.

**15**

**16**