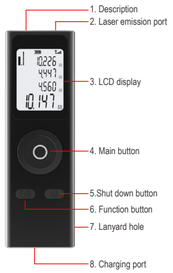
TOOLCRAFT

Mini Laser Rangefinder

Item No.: 3450546

CE

Interface



Operating instructions

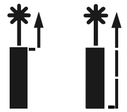
1. Do not look directly at the red laser light emitted from the laser emitting port with your eyes. Looking directly at it will cause damage to your eyes.
2. Do not cover the receiving lens and laser emitting port of the rangefinder when measuring the distance, and place the rangefinder on a fixed baffle or bracket plane as much as possible.
3. During measurement, the rangefinder cannot be moved before the measurement result is displayed on the software interface.
4. The better the laser's throwback (scattering, non-reflection) effect on the target surface, the farther its range. When the laser spot falls on the surface of the following objects, the measurement will be inaccurate:

-- Transparent surfaces (water, glass).
-- Surfaces that reflect surfaces (polished metals)
-- Porous surfaces (e.g. soundproof materials)
-- Textured surfaces (e.g. rough plaster walls, natural stone).If necessary, reflective target paper (e.g. white paper) can be placed on top of these objects

5. Front/Rear reference

Front/Rear reference: means whether the body length is counted in the measurement data of both ways. Front datum: Without fuselage length. Rear reference: Include fuselage length

Front benchmark display shows by (Bottom left)
Rear reference display shows by (Bottom right)



Basic operation

On/Off

a. Press the main button 0.5 seconds to turn on.
b. Press the shut down button 2 seconds to shut down.

Switching front/rear reference

In the power-on state, press the function button for about 1 second to switch the reference.

Note: The selection of the reference should be before the start of the measurement or after the end of a single measurement. Do not switch the reference during the measurement process.

Switch numerical unit

In the shutdown state, press the main button and turn it on and keep the keys on, wait for about 2 seconds after turning on the device to enter the measurement numerical unit switching state. The unit can be switched between m (meter)/ft (feet)/in (inch) in turn.

Other operations

a. Return operation Press the shut down button for about 0.5 seconds to return to the previous level of data or mode.

b. LCD backlight control Long press the switch button for about 1 second to turn off/on the LCD backlight.

Simple measurement

a. Single measurement When power on, press the main button for about 0.5 seconds and turn on the red measurement laser. Short press again to start the measurement and display the data.

If no operation, the meter will be automatically turned off after 20 seconds and automatically turned off after 60 seconds.

b. Consecutive measurement Long press the main button for about 1 second to enter the consecutive measurement mode. In the process of moving the meter to a new position, the real-time distance measurement data will be displayed on the screen. Under consecutive mode, the meter will automatically display the maximum and minimum value of the measured data.

Advanced function Operation

Switch function mode:

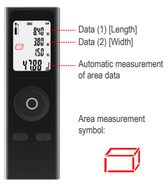
When power on, short press the function button for about 0.5 seconds to switch the function mode, and press once to switch one function mode.

Area measurement

In this mode, the area can be measured and automatically calculated.
Short press the main button to measure the data (1), and then short press the measured data (2). The meter will automatically work out the volume based on these 2 measurements and display it on the primary display area.

Volume measurement

In this mode, the area can be measured and automatically calculated.
Short press the main button to measure data (1), short press again to measure data (2), and short press again to measure data (3). The meter will automatically work out the volume based on these 3 measurements and display it on the primary display area.

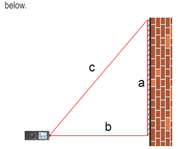


Primary Pythagorean

In this mode, the system uses the Pythagorean law a2+b2=c2. The third side measurement data is automatically measured by the two side measurement data.
This mode can calculate the length of the target edge only by running the Pythagorean law once, which is also called Primary Pythagorean mode. Short press the main button to measure data c, and press again to measure data b. After measuring the two data, the meter automatically calculates the length of data a.

Primary Pythagorean symbol:

The position of laser distance meter is shown as below.

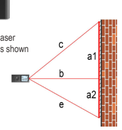


Secondary Pythagorean (data addition)

This device can measure height in two segments by taking three measurements. Press the operation key the get the data c, data b and data e, the laser automatically calculates the length of data (a1+a2).

Secondary Pythagorean symbol (data addition):

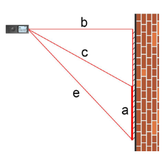
The position of laser distance meter is shown as on the left.



Secondary Pythagorean (data subtraction)

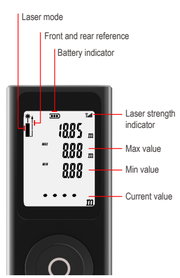
This device can measure height in two segments by taking three measurements. Click the operation key to get the data e, data b and data c, the laser automatically calculates the length of data a.

Secondary Pythagorear (data subtraction):



The position of laser distance meter is shown as on the left.

Screen display Interface



Problems and Solutions

Fault type	FauPossi and solut
Unable to turn on	1. No battery p and then try to 2. Long press is not enough, press for one s
No display	1. Turn off the backlight, short press shut down button for about 1 second to turn on/ off the backlight. 2. The display is damaged, please contact the supplier to solve.
Unable to charge	1. The charging cable is damaged, replace the charging cable to try to solve. 2. The charging module is damaged, please contact the supplier to solve.
Large error	1. Add white reflector for harsh environment. 2. Fix calibration accuracy in setting page. 3. The ambient temperature is too low/high, please warm up/cool down the equipment.
No data	1. Laser receiving / emission port defacement, clean treatment. 2. The meter shake too much, please rest.

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