

KIPRIM






User Manual LASER DISTANCE METER



LD50E/LD100E

Safety regulations

Please read the safety regulations and operation guide carefully before operating.

-  Please read all of the operational guide and safety regulations in this manual before operation. Improper operations without complying with this manual guidance could cause damage to the device, influence measurement result or bodily injury to the user.
-  The instrument is not allowed to disassemble or repair in any ways. It is forbidden to do any illegal modification or performance change for laser emitter. Please keep it out of reach of children and avoid being used by any irrelevant personnel.
-  Due to electromagnetic radiation interference to other equipment, don't use it in inflammable, explosive environment.
-  Discarded batteries or meter device shall not be processed just like household garbage, please handle them in line with related law and regulations.
-  Any quality issues or any problem with the meter, please contact local distributors or manufacturer in time, we are ready to offer solutions for you.

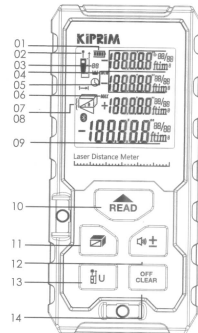
DISPLAY/ KEYBOARD

● Display

- 01. Power Supply
- 02. Laser on
- 03. Record
- 04. Minimum
- 05. Auxiliary Display
- 06. Maximum
- 07. Pythagorean
- 08. Area, Volume
- 09. Major Display

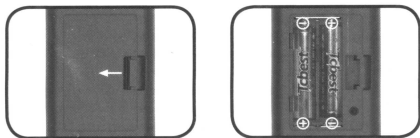
● Keyboard

- 10. Turn on / Measuring
- 11. Area / Volume / Pythagorean Mode/Save
- 12. Addition & Subtraction / Sound
- 13. Reference Point / Unit Switch
- 14. Turn off / Remove



Batteries Installation

● Battery Installation and Replacement



Discharge the battery door on the back of device, and place battery according to correct polarity, then cover the battery door.

Only 1.5V AAA alkaline battery is applied to the meter.

If not used for a long time, please take out the battery to avoid battery corrosion to meter body.


Start the Instrument / Menu Setting

● Turn on/off the Instrument

Under off status, press button  , device and laser get starting simultaneously and stand by for measurement.

Under on status, long press button  for 3 seconds to turn the device off. The device can also be shut off without any operation for 150 seconds.


● Unit setting

Long press button  reset current measurement unit, the default unit is: 0.000m. There are 6 units for selection

Units:

Length	Area	Volume
0.000m	0.00m ²	0.000m ³
0.00m	0.00m ²	0.00m ³
0.0in	0.00ft ²	0.00ft ³
0.00ft	0.00ft ²	0.00ft ³
1/16in	0.00ft ²	0.00ft ³
0'00"1/16	0.00ft ²	0.00ft ³

● Changing Reference Point

Press the key  to change the reference point. The device reference point by default is rear.

● Back Light On/Off







The back light is set to turn on and off automatically. The back light can be on for 15s while operating, and it will be shut off automatically in 15s when there is no operation to the device.

● Sound on/off

Long press button  to turn on or off the buzzer.


Self-calibration

This function can keep the precision of the device.




Instruction: Power off, long press button  , and then press  . Release the button  , then "CAL" and a figure shows on the screen. User can adjust the figure with button   according to the accuracy of the meter. Adjusting range: -9 to 9mm, then, press button  to save the calibration result.

Length Measurement & Calculation





● Single Distance Measuring

Turn on the laser beam by short press of the button  under measuring mode. Press the button again for single measurement of length, then the measured results displayed in the major display area.

● Continuous Measuring:

Long press button  under measuring mode and enter into continuous measuring mode. Maximum measuring result displays in auxiliary display area, present result displays in major display area. Short press button  or  to exit continuous measuring mode.

● Area Measuring:

Press button  ,  shows on the screen. One of the side of rectangle blinking on the display, please follow the below instructions for area measuring: Press  once for length. Press  again for width.

The device calculates and shows the result in the major display area.

The recent measuring result of length is shown in the auxiliary display area.

Press , clear off the result and measure again if necessary.

Press again to exit the mode.

• Volume Measurement

Press button twice to enter volume measurement mode. A will shows on the top of screen. Please follow the below instruction for volume measuring:

Press for Length.

Press again for Width.

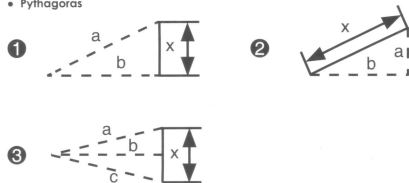
Press thirdly for height.

The device calculates and shows the result in the major display area.

Press , clear off the result and measure again if necessary.

Press again to exit the mode.

• Pythagoras



There are four Pythagoras modes in case that user gets hard to reach the target.

1. Calculate the second leg by measuring the hypotenuse and another leg.

Short press three times to enter Pythagoras mode, the hypotenuse of blinking.

Press , measure the length of hypotenuse(a).

Press , measure the length of one leg(b).

Device calculates the length of another leg(x).

2. Calculate the hypotenuse by measuring the length of two legs.

Short press four times, when one leg of blinking.

Press , measure the length of one leg(a).

Press , measure the length of another leg(b).

Device calculates the length of hypotenuse(x).

3. Press six times till the hypotenuse of blinking on the screen.

Press , measure the length of one hypotenuse(a).

Press , measure the length of other hypotenuse(b).

Press , measure the length of one leg (c) .

Device calculates the length of the leg in full line (x).

Legs must be short than hypotenuse, or there will be "err" shows on screen, in order to guarantee the accuracy, please make sure all measurements are starting from the same point.

• Addition / Subtraction

The device can be used for length addition and subtraction, Press to select the function once get the length measuring result.

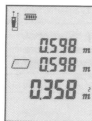
Short press , "+" shows in the major display area, entering cumulation mode. Value of last measurement and the result of calculation will be shown on the screen.

Free button again, "-" shows in the major display area, entering regressive mode. Value of last measurement and the result of cumulation will be shown on the screen.

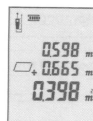
Do round-robin selection between continuous addition and continuous subtraction by pressing button .

Not only length can be calculated in addition and subtraction, but area and volume can do the calculation as well. Take area as sample:

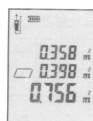
Area cumulative function: Measure the first area as shown in PIC1. Then press button , and measure the second area as shown in PIC2, there is a "+" in the left bottom. At last, press button to get the summation result of these two areas which is shown in PIC3.



PIC1




PIC2



PIC3

read the records by pressing button

Record Function

Long press button  for 3s to record your measuring result under measuring mode.

It can also record the result under Area, Volume and Pythagoras mode. All the calculating records can be saved by the device.

Read/Delete the Record:

Longpress button  to read the records, long press or short press  to view historical records. Short press  to delete recent record, Press  or  to exit record mode.

Tips

You may get some warning information as below:

Info message	Cause	Solution
Err15	Out of distance measurement range	Use the device within the range
Err16	Signal is too weak	Chose the surface with stronger reflectance. Use the reflecting plate.
Err17	Signal is too strong	Chose the surface with weaker reflectance. Use the reflecting plate.
Err10	Low battery voltage	Change the power supply
Err26	Out of display range	
Err14	Pythagoras measuring error	Re-measure and ensure that Hypotenuse is bigger than Cathetus.

Technology Specifications

ITEM	Specifications
Model	LD50E/LD100E
Working Range	50m/100m
Distance measurement precision	±2mm
Measurement unit options	m/in/ft
Continuous measurement function	yes
Outdoor target reflection board	no
Area measurement function	yes
Volume measurement function	yes
Pythagorean proposition measurement function	Full mode
Add and subtract measurement function	yes
Min/Max value	yes
Max storage	99 units
Automatic backlight	yes
Buttons/keys sound	yes
Laser level	II
Laser type	650nm, < 1mW
Automatically cut off laser	20s
Automatic shutdown	150s
Storage temperature	-10°C ~ 60°C
Working temperature	0°C ~ 40°C
Battery	1.5V 2*AAA
Battery life	8000 times for single measurement
Weight(including battery)	75g
Dimension	115*50*25mm

Note: Use a target plate to increase the measurement range during daylight or if the target has poor reflection properties.

Instrument Maintenance:

The meter should not be stored in high temperature and strong humidity environment for long time; if it is not used very often, please take out the battery and place the meter in the allocated portable bag and store in cool and dry place.

Please keep the device surface cleaning. Wet soft cloth is applied to clean dust, but erosion liquid is never allowed to use for the meter maintenance. Laser output window and its focus lens can be maintained according to maintenance procedures for optical device.

Delivery Package

Please check if the accessories are completed according to the below list.

NO	Item	Unit	QTY	Note
1	Laser distance meter	pc	1	
2	Batteries	pc	2	
3	Use's manual	pc	1	
4	Portable bag	pc	1	
5	Hand strap	pc	1	
6	Giftbox	pc	1	
7	Reflector	pc	1	Just available for 100m

Made in China

RoHS **CE** **FC** **FDA**  