









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 guided could cause damage to the device, influence on 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 using by any irrelevant personnel.
- ! It is strictly prohibited to shoot eyes or other parts of body with the laser: it is not allowed take the laser to shoot any objects' surface with strong reflecting.
- Due to electromagnetic radiation interference to other equipment and devices, please don't use the meter in the plane or around medical equipment, don't use it in inflammable, explosive environment.
- Discarded batteries or meter device shall not processed just like household garbage, please handle them in line with related law and regulations.
- Any quality issues or any questions on the meter, please contact local distributors or manufacturer in time, we are ready to offer solutions for you.

Professional castes quality and good quality gets reputation

Installation for batteries, display screen and keyboard

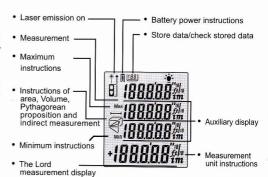
Installation and replacement of battery

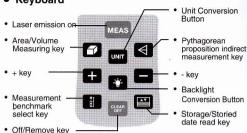




- · Discharge the battery door on the back of device, and place battery according to correct polarity. then cover the battery door.
- · Only 1.5 V AAA alkaline battery is applied to the meter.
- · If not used for a long time, please take out the battery to avoid battery corrosion to meter body.

Display Screen





Start the instrument/Menu Setting

Start and shut off the meter

Under off state, press key, instrument and laser get starting simultaneously and stand by for measurement.

Under on state, long press key for 3 seconds to make the device off. The instrument will be shut off without any operation for 150 seconds.

Unit setting

Press will key, reset current unit of measurement, the machine default unit is: 0.000m Optional units as below:

Length	Area	Volume
0.000m	0.000m ²	0.000m³
0.00m	0.00m²	0.00m ³
0.0in	0.00ft ²	0.00ft ³
0.00ft	0.00ft ²	0.00ft ³

Measurement benchmark setting

Press key to enter into setting of switching between front benchmark and end benchmark. System usually takes end benchmark as default.

Measurement for distance, area, Volume; Pythagorean proposition indirect measurement, adding & subtracting

Single Measurement:

Press MEAS key under measuring mode, the laser is emitted to shoot measuring location.

Re-press key for single measurement of distance, then the measured results displayed on main display.

Continuous Measurement:

Long press key under measuring mode to enter into continuous measurement state, and maximum and minimum measurement results in the process of continuous measurement will display on the screen. The main display screen indicates the very measured result, press key to exit continuous measurement state.

Area Measurement:

Press key and you will see , on the display screen, that is Rectangle with one edge flashing. Complete the following operations according to screen tips:

Press key to measure the first edge(length).

Press key to measure the second edge(width)

Area will be calculated automatically by the meter,
and the results showed on main display screen.

Press key to remove previous measured result and get ready for the next measurement.

Volumetric Measurement:

Double press A key and you will see , on the display screen, that is cube with one edge flashing. Complete the following operations according to tips:

Press key to measure the first edge(length).

Press key to measure the second edge(width).

Press key to measure the second eage(width).

Press key to measure the third edge(height).

Volume will be calculated automatically by the meter, and the results showed on main display screen.

Press key to remove previous measured result and get ready for the next measurement.

Pythagorean proposition indirect measurement:

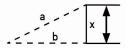
There are three kinds of pre-designed measuring mode to get unilateral distance of triangle by ways of Pythagorean proposition. This is convenient for users to do indirect measuring in certain complex environment. Press

1) Press key and you will see on the display screen, that is triangle with hypotenuse flashing.

Press key to firstly measure the length (a) of dotted line hypotenuse according to screen prompt

Press key to measure the length(b) of the dotted line right side

Length (x) of the solid line right side will be calculated automatically by the meter.



2) Double press key and you will see on the display screen, that is triangle with vertical leg flashing Press key to firstly measure the length (a) of dotted line right side according to screen prompt Press key to measure the length (b) of the other dotted line right side

Length(x) of the solid line hypotenuse will be calculated automatically by the meter.



3) Press ≤ key 3 times and you will see ∠ on the display screen, that is triangle with hypotenuse flashing.

Press key to firstly measure the length (a) of dotted line hypotenuse according to screen prompt Press key to measure the length(b) of dotted line hypotenuse (shown as in the figure)

Press key to measure the length(c) of another dotted line hypotenuse (shown as in the figure)

Length (x) of the solid line right side will be calculated automatically by the meter.



4) Press **◀** key 4 times and you will see on the display screen ← that is triangle with hypotenuse flashing.

Press key to firstly measure the length (a) of dotted line right side according to screen prompt Press key to measure the length(b) of the dotted line right side

Press key to firstly measure the length (C) of dotted line right side according to screen prompt Length (x) of the solid line right side will be calculated automatically by the meter

Under Pythagorean proposition measurement mode, length of right side must be shorter than hypotenuse length so that instrument can make out calculation, otherwise the instrument will display error signal.

Under Pythagorean proposition mode, to ensure the accuracy of measurement, it must be measured from the same starting point with a measuring order of first hypotenuse, and then right side.

Add And Subtract Measurement:

Single distance measurement can be done through adding/subtracting to get accumulated add or subtract operation;

Press key,and "-"appears on main measurement screen, then enter into accumulated subtracting measurement mode, differences between previous measured value and the very measurement value will be displayed on the screen.

Storage and Browse

Store Measurements

Under measuring mode, as the exiting data is effective, long press key for 3 seconds, the very measurement data will be automatically stored into the instrument memory stick.

Browse Measurements

Press key to check stored measurement data, Press key or key to browse forward or backward. Long press , key can remove all stored records.

Tips:

During operation, tip information may appear on the main display screen as follows:

Information	Causes	Solutions		
Err1	Signal too weak	Measure target locations which are with stronger reflecting capability		
Err2	Signal too strong	Measure target locations which are weaker reflecting capability		
Err3	Battery voltage is too low	Replace battery		
Err4	Beyond working temperature	Carry out measurement with the meter in the specified scope		
Err5	Improper Measure- ment on Pythago- rean proposition	Re-measure, and ensure the length of hypotenuse is longer than that of right-side		
Err6	Memory damage	Please contact the supplier		

Technology specifications:

ITEM	Specifications		
Distance measurement precision	±2mm		
Measurement unit options	mm/in/ft		
Continuous measure- ment function	yes		
Outdoor target reflection board	no		
Area measuremen function	yes		
Volume measurement function	yes		
Pythagorean proposi- tion measurement function	Full mode		
Add and subtract meas- urement function	yes		
Min/Max value	yes		
Max storage	99 units		
Automatic backlight	yes		
Buttons/Keys sound	yes		
Laser level	II		
Laser type	635nm,<1mW		
Automatically cut off laser	20s		
Automatic shutdown	150S		
Storage temperature	-20°C -60°C		
Working temperature	0°C -40°C		
Storage humidity	RH85%		
Battery	1.5V 3*AAA		
Battery life	4000 times for single measurements		
Weight (including battery)	180g		
Dimensio n	123*54*28mm		

Note: There will be a bit of greater differences of measurement results in harsh environment, such as strong sunlight, excessive temperature fluctuations, weak reflective surface, low battery. As to this, targe treflection board as auxiliary will assist you to get a better result.

Instrument maintenancetions:

- The meter should not be stored in high temperature and strong humidity environment for long-term; if not used for long time, please take out the battery and place the meter in the allocated potable 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.

Packing list

Please carefully check instruments and attachments are complete in line with below list.

NO.	Item	Unit	QTY	Note
1	Laser Distance Meter master body	Unit	1	
2	Instrument portable bag	piece	1	
3	Holding rope	piece	1	
4	AAA battery	set	3	
5	Manual	сору	1	
6	Gift box	set	1	
7	Outdoor target reflection board	set	1	Only 100M

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