

User manual

Laser Meter tape



Sincerely thank you for purchasing this product, please be sure to read all the contents of this manual carefully before using the instrument, the responsible person should make sure that all users read and follow this manual, otherwise it may lead to dangerous laser radiation injury and electric shock.

safe use instructions

- 1 Laser distance measuring tape is a Class II laser product, do not look directly at the laser when using this instrument at any time!
2. Do not use this product with other optical products as it may cause severe laser radiation!
3. Do not break any safety warning signs on the instrument!

Caution

1. Do not use the instrument with an unsteady footing.
2. This instrument is to be kept out of the reach and use of children.
3. Do not attempt to disassemble or modify this instrument. Failure to do so may result in an increase in laser emission power and unnecessary personal injury.
4. Please keep this manual for reference during use.



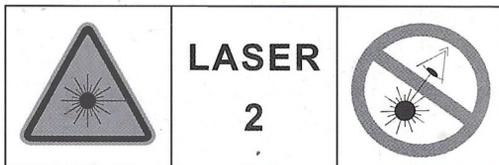
Scope of responsibility

We are not responsible for any damage caused by using the instrument without following the instructions, using third-party accessories or modifying the instrument by yourself.

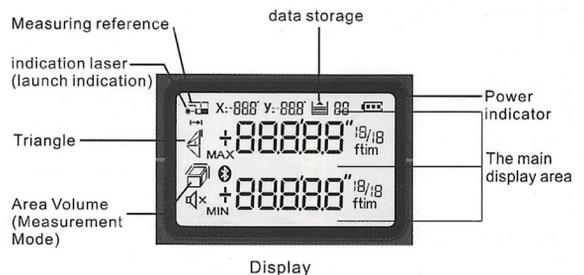
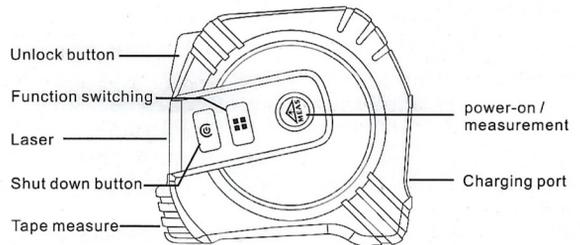


Warning:

This product is a Class 2 laser product and complies with IEC 60825-1:2014.



Instrument construction



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Before using the instrument for the first time, please read the safety terms and operating instructions carefully. Failure to use the instrument in accordance with the guidelines in this manual may result in damage to the instrument, affecting the accuracy of the measurements, or personal injury to the user or a third party.

1. The digital laser rangefinder is a Class II laser product, please do not look directly at the laser and do not aim at others when using this instrument at any time.
2. Do not use the instrument on an unsteady footing, use it within the specified range of application, and do not shine the laser on highly reflective surfaces or direct sunlight.
3. Do not use this instrument in the vicinity of airplanes or medical equipment, or in environments where flammable or explosive liquids, gases or dusts are present.
4. Electromagnetic radiation from the instrument may cause interference with other devices and equipment. Please note that in the event of damage, dropping or correction of the instrument, it may cause incorrect measurement results.
5. Do not open or repair the instrument in any way, illegal modification or alteration of the performance of the laser transmitter is strictly prohibited, please keep the instrument in a safe place, do not place it in a place accessible to children, and avoid the use of the instrument by uninvolved persons
6. Do not immerse the instrument in water, wipe the lens with alcohol or other organic solvents, wipe the lens directly with your hands or other rough objects, do not destroy any safety warning signs on the instrument, and take care to save this manual for inquiries during use.
7. If there is any quality problem of the instrument, or if you have any question about the use of the instrument, please contact your local distributor or the manufacturer of the instrument in time, and we will solve the problem for you at the first time.
8. Use a power source other than the rated voltage to supply power to the instrument. This product cannot be recycled with household garbage, please dispose of it and this product reasonably in accordance with the laws and regulations implemented in your country/region.

*Waste disposal is everyone's responsibility to protect the environment! It is strictly prohibited to dispose of waste batteries with household garbage, please dispose of waste batteries at designated garbage collectors

Instrument operation

1. Power on

Short press , the instrument will be turned on, at the same time, the laser point will be turned on automatically, the screen display will be shown as Fig. 1. the machine will not be operated in any way, and the laser point will be turned off automatically after 30 seconds.



Figure 1

2. Power off

When the instrument is in any state, press and hold  to turn off the instrument.

3. A single measurement of the distance between two points

In single measurement mode, aim the laser dot at the target to be measured and short press , the measurement result will be displayed on the screen immediately, as shown in Fig. 2.



Figure 2

4. Continuously measuring the distance between two points

Under power-on condition, long press  to enter the continuous measurement mode, as shown in Fig. 3.



Figure 3

5. Unit switching

After the instrument is turned on, the unit is m by default, and the screen display is shown in Fig. 4, long press , the unit is switched to inch, and the screen display is shown in Fig. 5; long press  again, the unit is switched to ' ', and the screen display is shown in Fig. 6, and long press  again, the unit is switched to ft, and the screen display is shown in Fig. 7.



Figure 4

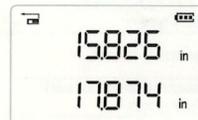


Figure 5

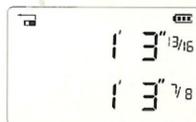


Figure 6

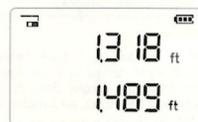


Figure 7

6. Function switching

After the instrument is turned on, the measurement mode is a single measurement, the screen displays as Figure 8; short press , the measurement mode is switched to area measurement, the screen displays as Figure 9; short press  again, the measurement mode is switched to volume measurement, the screen displays as Figure 10; short press  again, to enter the Pythagorean measurement, the screen displays as Figure 11; short press  again to enter the storage mode, the screen displays as Figure 12; short press  again, to enter the reference switching mode, the screen displays as Figure 13; short press  again, the measurement mode is switched to a single measurement, according to this cycle.



Figure 8

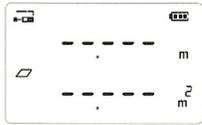


Figure 9

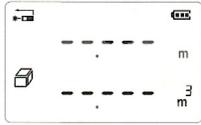


Figure 10

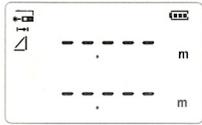


Figure 11



Figure 12



Figure 13

7. Area measurement

In the area measurement mode, aim the laser point at the target to be measured, short press , measure the length of the two sides of the target to be measured, and the area measurement results are immediately displayed on the screen, as in Figure 14.



Figure 14

8. Volume measurement

In the volume measurement mode, aim the laser point at the target to be measured, and short press  to measure the three side lengths of the target to be measured, and the volume measurement result will be displayed on the screen immediately, as shown in Fig. 15.



Figure 15

Technical parameters

Ruler tape specifications	5m*19mm
Ruler tape accuracy	±(0.3+0.2*L)mm (L is the length of the measuring tape in mm)
Ruler tape life	more than 3,000 times (Pull out the tape 2m, release it at 1m and let it retract freely)
Laser measurement range*	0.05m~40m, 0.05m~80m
Laser measurement accuracy (standard deviation)	±2mm±50*10 ⁻⁶ *D, where D is the measuring distance. Unit in mm (Kodak whiteboard, illumination less than 500 lux)
distance units	m/in"/ft
Laser type	500-680nm
laser rating	Class2
Single measurement time	Typical value: 0.7 seconds (test the white wall at 3 meters, the illumination is less than 500lux), maximum: 3.5s
Working temperature	0~40℃
storage temperature	-20~60℃
Battery type	300mAh lithium battery
operational current	Less than 70mA (laser on, in non-measurement mode)
Measurable times for each battery group.	Not less than 3000 times
Weight (including battery)	280.5g
Dimensions (length x width x height)	85mm*55mm*78mm

Remarks:

*For different measurement targets and test environments, the measurement range will be shortened and the measurement results will be subject to large errors due to excessive ambient light intensity, high or low ambient temperature, and weak or strong reflected light from the target.

**Measurement accuracy is ±2mm for measurements up to 10m, and ±2mm ±50*10⁻⁶*D (D is the measurement distance in mm) for measurements over 10m.

Error code

Message	Reason	Solution
Err16	Signal error	Poor measurement conditions. Change the measurement conditions (e.g., increase the reflectivity of the object, reduce the ambient light, reduce the distance from the object to be measured, etc.)
Err10	The battery voltage is too low.	Please Replace the battery
Err15	Out of range	Please test within the specified range
Err26	Miscalculation	Out of range, or wrong hook, please follow instructions

routine maintenance

● It is prohibited to store the instrument in a high temperature and high humidity environment for a long period of time.

● Please keep the surface of the instrument clean, use a damp soft cloth to wipe the surface dust do not use corrosive detergent to clean the instrument. The laser window and focusing mirror can be wiped in the same way as the optics table.

packing list

When purchasing the instrument, please check carefully that all accessories of the instrument are complete according to the following list.

project	name	quantity	remarks
1	machine	1	
2	TYPE-C data cable	1	
3	User manual	1	Covered warranty certificate
4	Box	1	

9. Pythagorean measurement

In the Pythagorean measurement mode, the rangefinder is first placed in the horizontal position, keep the reference plane unchanged, aim the laser point at the lower end of the target to be measured, short press  measure the length of the right angle side of the right triangle; then keep the reference plane unchanged, aim the laser point at the upper end of the target to be measured, short press  measure the length of the hypotenuse of the right triangle. The height of the target to be measured is immediately displayed on the screen, as in Figure 16.



Figure 16

10. Storage mode

In the storage mode, the screen display is shown in Fig. 17; short press  to view the measurement data storage records one by one, the screen display is shown in Fig. 18; short press  to clear the last set of data. The larger the number, the newer the measurement value. (Note: The instrument can automatically record and store the last 30 measurements. Generally there will be measurement data storage records, these are factory commissioning inspection of the value, does not mean that the instrument has been used.



Figure 17



Figure 18

11. Reference switching mode

After the instrument is turned on, the default measurement reference is the back reference, and the screen display is shown in Fig. 19. In the reference switching mode, short press , the measurement reference is switched to the front reference by default, and the screen display is shown in Fig. 20.



Figure 19



Figure 20

Remarks: All the pictures in the manual are only for schematic illustration, not the real display effect diagram of the instrument.

product features

single measurement	√
Maximum valuemeasurement	√
Continuous measurement	√
area/volume/collinear theorem calculation functions	√
Measurement Datum Selection	√
Historical data recording	30 groups
unit of measure selection	√
Error code alert	√
The laser turns off automatically	After 30s of no operation
the instrument is automatically turned off	After 180s of no operation

warranty card

Warranty regulations:

1. We offer a two-year warranty on the products we sell

2. The warranty period starts from the date of purchase, but please also follow the following warranty regulations

(1) During the warranty period, we will first judge the faulty instrument, and then decide to repair, replace the damaged parts or replace a new instrument for you

(2) Declaration

I、No warranty is provided for instruments that: The act of taking apart an instrument

II、Wrong operation or human damage to the instrument

III、Damage caused by not using original accessories

IV、Give the instrument to an unauthorized person or unit for repair

V、Instrument whose serial number, has been deleted

(3) The warranty card must be provided when the instrument is under warranty, and the invoice must be provided if necessary.

(4) When repairing or replacing the instrument, please contact your local dealer.

Model number _____

Date of purchase _____

Certificate of conformity _____

