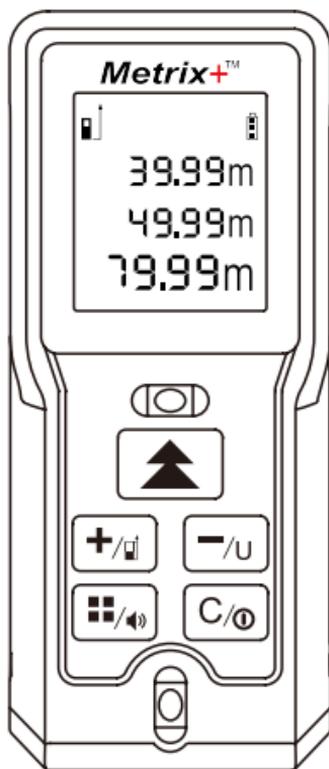


Metrix+[™]

LASER DISTANCE METER

USER MANUAL



Version: MD1812

●Introduction

Firstly thank you for your choice on our handheld laser distance meter. Please carefully read the safety instructions and the user manual before using this product, otherwise it may result in hazardous laser radiation and electric shock.

●Safety Instructions

1. This product is a class II laser product. Please DO NOT stare into beam at any time when operating this product!
2. Please DO NOT looking directly into the beam with optical aids to avoid causing serious laser radiation!
3. Please DO NOT remove any safety labels on this product!

●Caution

1. Please DO NOT use this product in an unstable situation.
2. Please avoid kids to contact and use the meter.
3. Please DO NOT disassemble or restructure the meter. Otherwise, it may lead to laser emission resulting in unnecessary personal injury.
4. Please keep the manual, it is useful when you use it.

●Configuration

Laser distance meter	1pc
AAA battery	2pc
User manual	1pc
Packing box	1pc
Hand rope	1pc

● Basic Function

Single Measurement	√
Continuous Measurement (Max/Min)	√
Area/Volume/Pythagoras	√
Plus and Minus	√
Unit Conversion	√
Measuring Reference	√
Silence Function	√
Historical Data Review	20Groups
Error Code	√
Battery Power Indication	√
Laser Auto Switch of	30s
Instrument Auto Switch off	180s
Measuring Range	DM40m: 0.05m~40m DM60m: 0.05m~60m DM100m: 0.05m~100m
Measuring Accuracy (Standard Deviation)	±2.0mm
Measuring Unit	m,ft,in
Area Unit	m ² ,ft ²
Volume Unit	m ³ ,ft ³
Laser Type	620~690nm
Laser Class	class II ,<1mW

Single Measurement Time	0.25s
Operating Temperature	0~+40℃
Storage Temperature	-20~+65℃
Batteries	AAA(Alkaline),2×1.5V
Working time(Fully charged)	>5000 times
Weight (Without batteries)	Approximate 72g
Dimension (L*W*H)	110X46X25mm

Comment:

*When measuring distance within 10m, measurement accuracy is $\pm 2\text{mm}$; more than 10m, measurement accuracy is calculated as follows: $\pm 2\text{mm} \pm 0.05 \times (D - 10)$ (D: Measuring Distance, Unit: m)

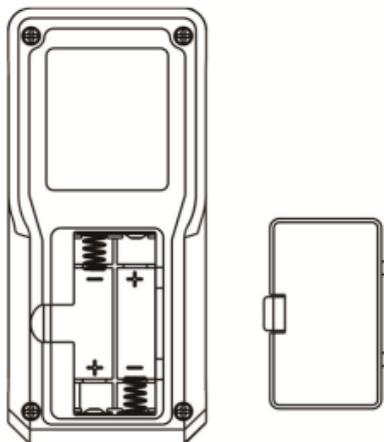
*When measuring too poorly reflecting target or very rough surfaces, or the environment temperature is too high or too low or ambient brightness is too bright, such as under sunlight, The deviation will be unfavorable.

Forbidden:

1. Opening or repairing the equipment without allow.
2. Measuring on sun.
3. Others measuring out of appointed range.
4. Immersing the equipment in water.
5. Cleaning the lens using alcohol or any other organic solvent.
6. Wiping the lens directly with fingers or other rough surfaces.
7. Powering the equipment beyond the rated DC voltage.

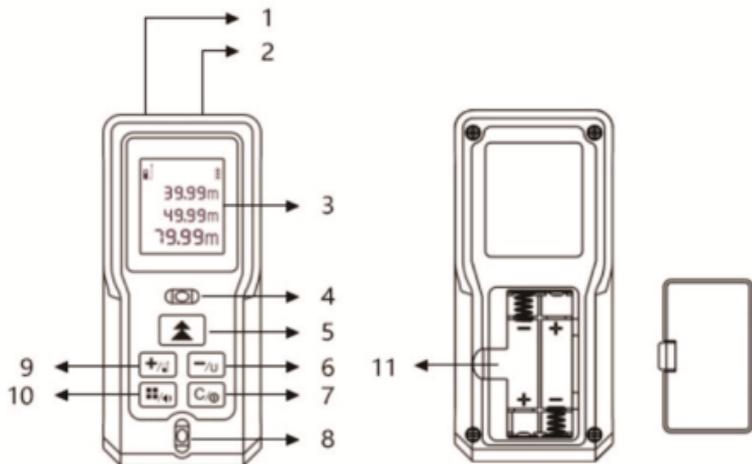
Battery Installation:

According to figures, remove battery compartment lid and insert 2*AAA batteries (alkaline).



Structure of Product:

According to figures, remove battery compartment lid and insert 2*AAA batteries (alkaline).

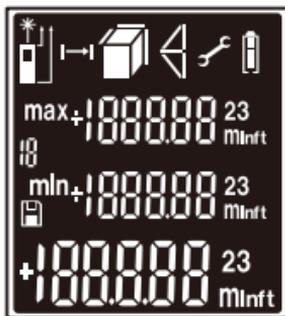


1. Laser emitter	7. Clear key/Exit key/OFF key
2. Laser receiver	8. Spirit bubble
3. Display screen	9. Plus key/Reference switch key
4. Spirit bubble	10. Function key/Sound key
5. Power key/Measuring key	11. Battery compartment
6. Minus key/Unit switch key	

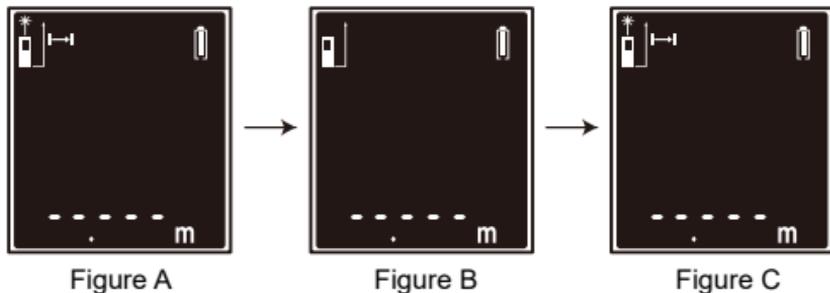
Operation:

1. Switch-on

Short-time press  to switch on the equipment, screen will show as below very quickly:

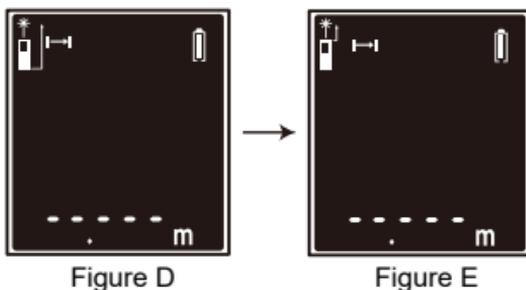


Then the meter enter Single Measurement Mode and laser point is opened, indication as shown as figure A. Laser point is automatically shut down if no any operation after 30 seconds. Or short-time press  to close the laser point, indication as shown as figure B. Short-time press  again to open laser point, indication as shown as figure C.



2.Change Measurement Reference

Default measuring reference is the bottom of meter, indication as shown as figure D. Long-time press  to change the measuring reference to the top of meter, indication as shown as figure E.



3.Unit Conversion

Factory default that unit is m, indication as shown as figure F. Long-time press  to switch unit m to Ft, indication as shown as figure G. Long-time press  again to switch the unit Ft to In, indication as shown as figure H. (Note: Long-time press  to switch the unit of measurement, the value will switch correspondent at the same time if there is value of measurement.)

When the unit is m^2 , Long-time press $\boxed{-/U}$, the unit will switch unit m^2 to ft^2 .

When the unit is m^3 , Long-time press $\boxed{-/U}$, the unit will switch unit m^3 to ft^3 .

Later when you switch on meter, the meter will remember the last measuring unit you used.

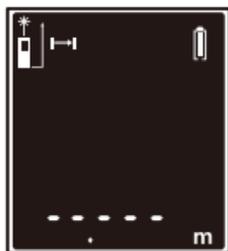


Figure F

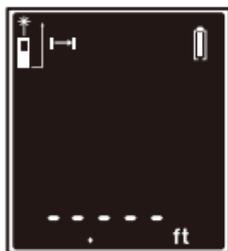


Figure G

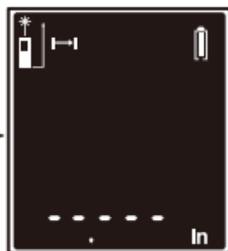
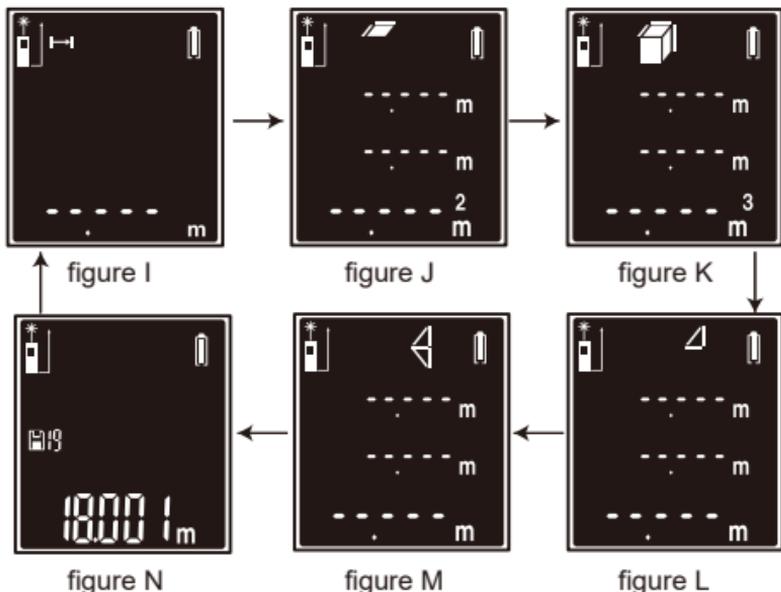


Figure H

4.Change Measurement Mode

Default setting of measurement is Single Measurement Mode, indication as shown as figure I. Short-time press $\boxed{\text{■}/40}$ to switch Area Measurement Mode, indication as shown as figure J. Short-time press $\boxed{\text{■}/40}$ again to switch Volume Measurement Mode, indication as shown as figure K. Short-time press $\boxed{\text{■}/40}$ again to switch Single Pythagorean Theorem Measurement Mode, indication as shown as figure L. Short-time press $\boxed{\text{■}/40}$ again to switch Dual Pythagorean Theorem Measurement Mode, indication as shown as figure M. Short-time press $\boxed{\text{■}/40}$ again to switch Historical Data Review Mode, the last measuring data will be displayed, indication as shown as figure N. (Note: At this Historical Data Review Mode, there will be some measuring data that factory tested. It does not mean this equipment has been used.)



5. Switch off

The equipment can be switched off at any time by long-time press  .

Function description:

1. Single measurement

At the Single Measurement Mode, aim the laser onto target. Short-time press  . The measuring result will be displayed immediately as shown as figure O.

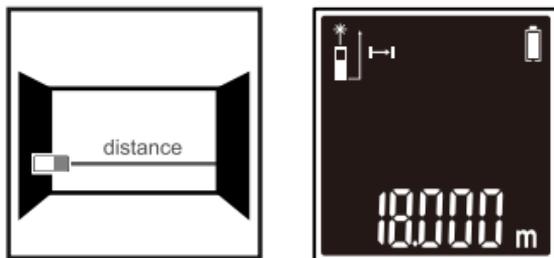


figure O

2. Continuous measurement

At the Single Measurement Mode only, aim the laser onto target. long-time press  to enter the continuous measurement, the Max measuring value, Mix measuring value and Current measuring value will be displayed on screen. Indication as shown as figure P.

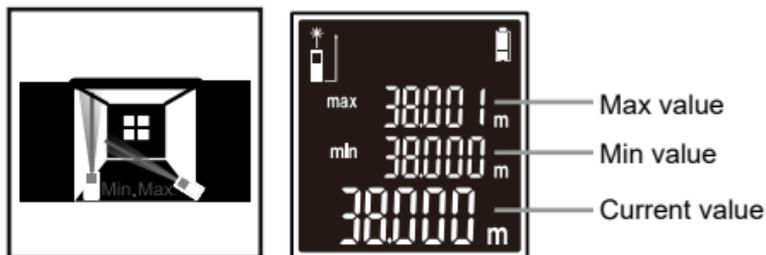


Figure P

3. Area Measurement

At the Area Measurement Mode, aim the laser onto target. Short-time press  to measure the two side lengths of the target respectively, area calculated value will be displayed as shown as figure Q.

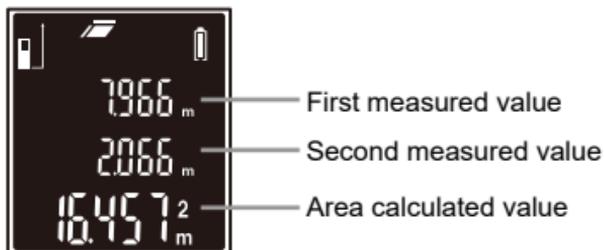


Figure Q

4. Volume Measurement

At the Volume Measurement Mode, aim the laser onto target. Short-time

press  to measure three lengths of the dimensional target orderly. The volume calculated value will be displayed immediately as shown as figure R. (Note: the length value of third side do not display at screen, because the screen can display three lines only.)

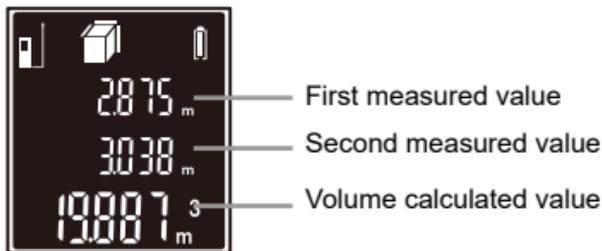


Figure R

5. Single Pythagorean Theorem Measurement

At Single Pythagorean Theorem Measurement Mode, aim the laser onto target. Short-time press  to measure the length of the hypotenuse and right-angle side of a right triangle. The height calculated value of the right triangle will be displayed immediately on the screen as shown as figure S.

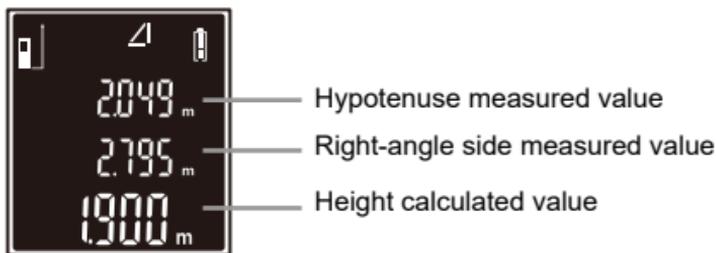


Figure S

6. Dual Pythagorean Theorem Measurement

At Dual Pythagorean Theorem Measurement Mode, aim the laser onto target. Short-time press  to measure the length of the hypotenuse,

right-angle side and other hypotenuse of a triangle orderly. The total height calculated value will be displayed immediately on the screen as shown as figure T. (Note: the length value of other hypotenuse do not display at screen, because the screen can display three lines only.)

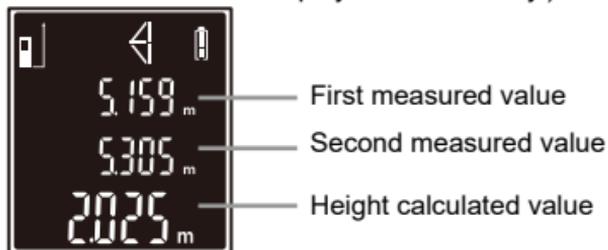


Figure T

7. Historical Data Review and Delete

At Historical Data Review Mode, up-date data is last measurement, Short-time press **+/-** to view the measurement forward, Short-time press **-/U** to view the measurement backward, Short-time press **C/O** to delete the measurement one by one. Historical Data range: 1-20.

8. Plus and Minus Functions

At the Single Measurement Mode, aim the laser onto target. Short-time press **▲** to get a measurement, indication as shown as figure U, Then Short-time press **+/-**, indication as shown as figure V, Then short-time press **▲** to get another measurement, The summation will be displayed immediately, indication as shown as figure W. It is plus function, minus function is same as plus function.

At Area Measurement Mode and Volume Measurement Mode, plus function and minus function is available.



Figure U



Figure V



Figure W

9. Battery Power Indication

When the battery power indication as shown as figure X, It means the battery should be changed.

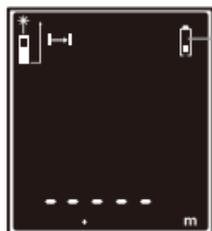


Figure X

Battery Power Indication

10. Silence Function

At any state, long-time press  to switch on or switch off the Buzzer.

11. Error Code

Code	Possible cause	Remedy
Err 10	Battery too low	Change batteries
Err 15	Out of measuring range	Measure target within the range
Err 16	Received signal too weak	Measuring high reflectance target or use high reflectance reflector
Err 18	Received signal too strong	Measuring low reflectance target or use low reflectance reflector
Err 26	Value is too big to display at screen	Reduce measuring range

Warranty Card

1. We guarantee ONE years warranty for laser distance meter.

2. Warranty begins from purchase date and it is subject to the following conditions:

(1). Within warranty, we shall deal with complaints based on faulty equipment by repair, replacement of defective parts or replace an identical flawless product at our discretion.

(2). Declarations:

Following conditions are NOT included in warranty:

- I Open the equipment by tools without specifically permission
- II The use of the equipment outside the state limits or improper handling
- III The use of non original accessories
- IV Serviced by unauthorized persons or workshops
- V Obliterated Serial Number of equipment

(3). Warranty card must be provided and please present your invoice when desired.

(4). Repairing and replacing equipment must comply with ' Conditional Of Warranty ' of manufacture.

Model No. : _____

Date of Purchase: _____

Signature: _____



