

VEVOR[®]

TOUGH TOOLS, HALF PRICE

Technical Support and E-Warranty Certificate
www.vevor.com/support

LASER DISTANCE METER USER MANUAL

We continue to be committed to provide you tools with competitive price."Save Half, Hal Price"or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and does not necessarily mean to cover all categories of tools offered by us. You are Kindly reminded to verify carefully when you are placing an order with us if you are actually saving half in comparison with the top major brands.

VEVOR

Laser Distance Meter
H-D510

H-D510



NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

CustomerService@vevor.com

This is the original instruction, Please read all manual instructions carefully before operating. VEVOR reserves clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there is any technology or software updates on our product



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 body 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.

● Display

· Power Supply

· Record

· Length, Area,
Volume and
Pythagorean

· Laser on

· Maximum

· Auxiliary Display

· Minimum

· Major Display-

● Keyboard

· Turn on/Measuring

· Addition

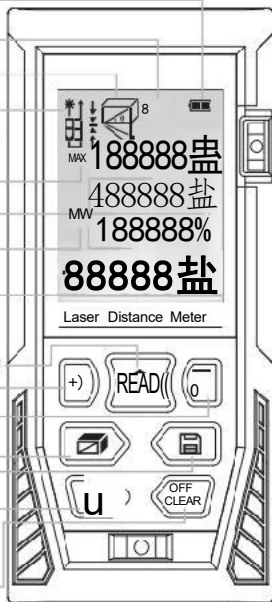
· Subtraction/
Sound

· Area/Volume/
Pythagorean
Measuring

· Save

· Reference Point/
Unit Switch

· 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 1.5 V AAA alkaline battery is applied to the meter.
- If not used or 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	0.000m 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
01/16 in	0.00in ²	0.00ft ³
0'00" 1/16	0.00m ²	0.00ft ³

● Changing Reference Point

Short press 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



The instrument provides artificial voice broadcast
function, users can operate the instrument
according to the voice. Long press to turn off the
voice function, then long press to turn on the
voice function.

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, long 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 Measurement:


Press  till you see ____, please follow the below instructions for area measuring:


Press  for length

Press  again for width


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

The measured values of the length and width of the rectangle are displayed in the auxiliary display area.


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

Press  again to exit the mode.

● Volume Measurement


Press  till you see ____, 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 measuring again if necessary.

Press  again to exit the mode.

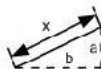
Pythagoras

a.

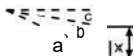
b



②



@





@-




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.


Press  till you see \angle , 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.

Press  till you see ne leg o
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 till you see

Press  , measure the length of one side (a)

Press  , measure the length of the median line (b)


Press m, measure the length of another side (c)

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

4. Press till you see

Press  , measure the length of one hypotenuse (a)


Press m, measure the length of another hypotenuse (b)


Press  , measure the length of one leg (c)


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

Legs must short than hypotenuse, or there will be "er" shows on screen. In order to guarantee the accuracy, please make sure all measurements are start 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 cumulation will be showed on the screen.

Shor press  , "-" shows in the major display area, entering regressive mode. Value of last measurement and the result of cumulation will be showed on the screen.

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



PIC1




PIC2





PIC3

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:

Short press button , read the records by press button .

Short press  to delete recent record and long press  to clear up all the

records. Press  or  to exit record mode.

Tips

You may get some warning information as below:

Info message	Cause	Solution
Em	Out of distance measurement range	Use the device within the range
Em1	Signal is too weak	Chose the surface with stronger reflectance. Use the reflecting plate.
Err2	Signal is too strong	Chose the surface with weaker reflectance. Use the reflecting plate.
Err3	Low battery voltage	Change the power supply.
Err4	The working temperature is out of working range	Use the device in the specified temperature.
Err5	Pythagoras measuring error.	Re-measure and ensure that Hypotenuse is bigger than Cathetus.

Technology specifications:

Item	Specifications
Working Range	0.05-50m
Distance measurement precision	$\pm 2\text{mm}^*$
Measurement unit options	m/in/ft
Continuous measurement function	yes
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	630-670nm, <1mW
Automatically cut off laser	20s
Automatic shutdown	150s
Storage temperature	-20°C~60°C
Working temperature	0°C~40°C
Storage humidity	20%-80%RH
Battery	2x1.5V AAA
Battery life	8000 times for single measurement
Weight (including battery)	110g
Dimension	112x50x25mm

Note: Use a target plate to increase the measurement range during daylight or if the target has poor reflection properties. Low power supply can also cause wrong measuring results.

- * Typical Tolerance: $\pm 2\text{mm}$, when reflectivity 100% (white surface), environment light $< 2000\text{LUx}$. 25°C Tolerance is usually affected by the distance, reflectivity, and environment light etc. It probably gets tolerance around $\pm(2\text{mm}+0.2\text{mm/m})$.

FCC Declaration: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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	Power supply AAA	pc	2	
3	User manual	pc	1	
4	Velvet Pouch	pc	1	
5	Hand strap	pc	1	
6	Gift box	pc	1	

Dongguan Sndway Electronic Co.,Ltd.

Add: Sndway Science & Technology Industrial Park,58
Tuanjie Road, Humen 523930, Dongguan, China

Services Hotline: 400-125-6969

E-mail: CustomerService@vevor.com

aneoyueo

ueeM-a

uoddns/ODIOAaAMMM

pue

uoddnsieciuupæl

30l8d JTVH'S'001 H9nO1

o **XOA3A**