Laser Distance Meter

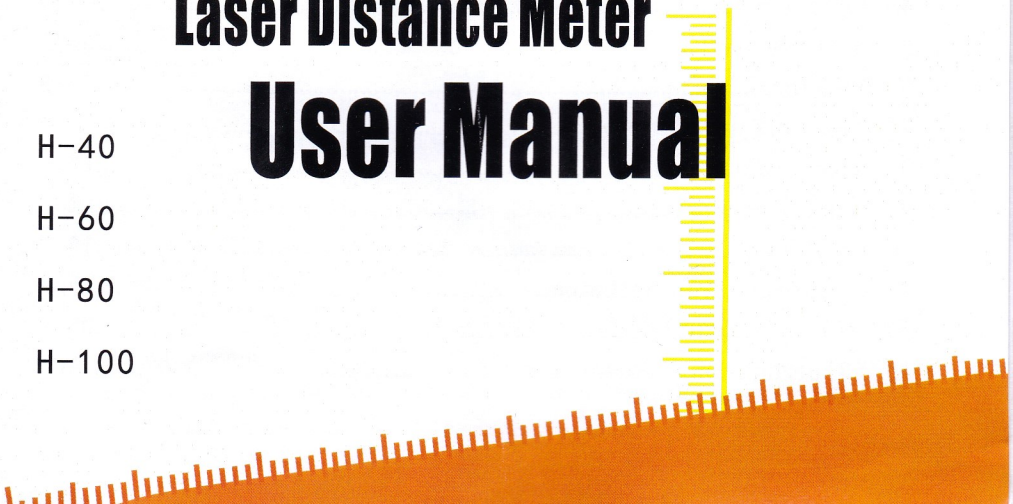
User Manual

H-40

H-60

H-80

H-100



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Thank you purchasing our Hand-held laser distance measuring instrument.

Please read the safety terms and instruction carefully before you use this products

1. Safety Rules

- Please read the entire manual book before you start using the device.
- Make every effort not to look directly into the laser beam, irrespective of how low the laser power is. Adopting such a habit will enable you to avoid potentially negative consequences in the future.
- The laser beam should point only on a horizontal plane, at a level much lower than the user's height. So as to avoid accidental eye exposure. Moreover, The user should not bend forward when trying to see the beam. And the beam should be tracked on a matte surface with an appropriately low reflection coefficient.
- The laser beam should not be obstructed by any random reflective objects. Note: reflections from the surfaces of watches, rings and other pieces of jewellery may be equally dangerous.
- Don't try any ways to change the performance of the laser, which would cause the danger arisen by laser exposure. Turn on the laser only when you need to use the product. Besides, don't look straight at the laser light. The Laser Distance Meter needs safe keeping in case used by irrelevant personnel.

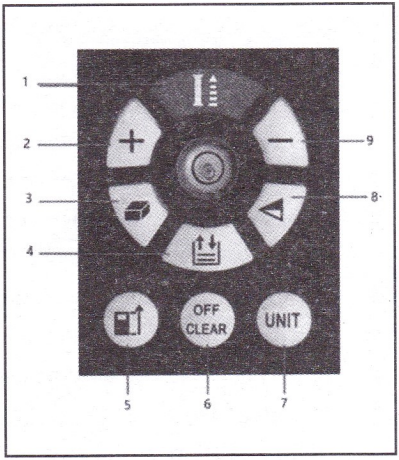
- Looking through binoculars or another optical instrument at a laser beam reflected from surfaces that act like a mirror(prisms, liquids, metallic surfaces)May harm your eyes.
- Laser devices should not be left unattended when they are on. If you must walk away from a laser device, a convenient solution may be obscuring the beam.
- It is difficult to foresee everything that could happen. You need to remember that many people have lost their sight because of their negligence, and sometimes just by pure chance. The most important thing is to be aware of the possible consequences and to use common sense.
- Playing with laser beams by placing a dot of light on people or on dangerous(for example, flammable or reactive) materials is prohibited.
- To avoid the risk of fire or electrocution, follow basic safety rules when using electric appliances and devices, particularly in the presence of children.
- Do not use the product for purposes other than its intended use.
- Do not use the electrical appliances when taking a bath or a shower.
- Don't irradiate anyone in darkness deliberately.
- Do not use the device near sources of heat(radiators fire)
- Don't irradiate onto the object with high reflective surface.

- Don't put it in the place where a child can reach it.
- Don't repair the devices without authorization. If it is damaged, please contact with local dealers.
- Don't use the devices in flammable and explosive environment.
- Don't use the devices near medical instruments, Don't use the devices a plane
- Always unplug the device (remove the batteries) when you are going to leave it unattended or before cleaning.
- Do not clean the device with the use of corrosive cleaning agents.
- The device is not a toy, do not allow children to play with the device.
- Protect the device against penetration of water or other liquids.
- **Warning! Do not look at the LEDs when the flashlight is on. The light emitted by the LEDs may damage or irritate your eyes. Do not look directly at a source of light with the use of any optical devices that focus the light beam.**
- Retain the instruction manual and the packaging, if possible

2. Overview

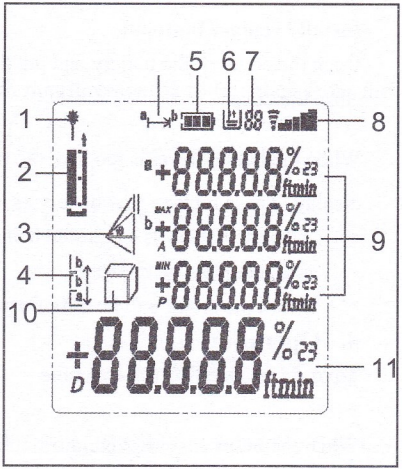
Keyboard (see the right figure)

1. Starting up/ measurements key
2. Addition Key
3. Area/volume Key
4. Date storage
5. Reference edge
6. Clear/shutdown Key
7. Unit key
8. Pythagorean key
9. Subtraction key



Display screen (see the right figure)

1. Laser on indicator
2. Reference edge measuring indicator
3. Area/volume/ Legs of a triangle laying off indicator
4. Laying off function indicator
5. Battery Level indicator
6. Date storage indicator
7. Date storage number indicator
8. Signal strength indicator
9. Unit indicator (including power and cube)
10. Secondary display area
11. Main display area



3. Power

Install / replace battery

Open the cover of the battery and put the battery into the battery compartment correctly, then close the cover.

When the battery level is too low, the indicator for battery level [▭] will appear on the display. Please replace new battery as soon as possible at this time.

- Alkaline battery is suggested being used. In this way, the measure of the alkaline battery will relatively be reduced
- When the meter will be out of use for a long period, please take out the battery.

4. Operation

Turn on or Turn off the machine

When the battery is installed, the meter will be turn on. If you long press OFF CLEAR the machine will be power off. Press the button  when the meter is power off, and the machine will be turn on. The laser light and the backlight will turn off automatically within 60 seconds and 6 minutes the machine will be power off.

How to set the Reference edge

Press  button to choose the position from which measurement is to be taken from the bottom or from the top of the device.

How to set the Unit (mm/inch/ft)

Press  you can change the unit from mm / inch/ ft , The device will remember the last displayed unit.

Battery status symbol

 When the three segment codes in the battery boxes all display, it indicates that the battery level is relatively full.

 The fewer segment codes displayed the lower battery level. When the boxes are empty, the battery should be replaced.

Clear function

Press  button it will be clear the measuring result of a single measurement (area or volume) with same function in order to go to the next measurement.

Signal strength symbol

When the five signals symbol  all displays, it means that the measuring signal strength is high. The fewer signal symbol means the weaker measuring signal strength.

5. Measurement

Signal measurement

When the laser light is off, Press  button will be turn on the laser light.

Then the device will be working. Press  again you can got the measure.

The device will save the normal measuring result automatically.

Continuous measurement

Press  button to turn on the laser light. And press  button in 3 second, The device will be start continuous measurement. If you want to stop continuous measurement, stop pressing the button. During continuous measurement, the real time measurement value is shown in the main display area. And the maximum value (MAX) and the minimum value (MIN) are displayed in the secondary display area.

When continuous measurement in general measuring pattern, the secondary display area shows the minimum value; when continuous measurement in functional measuring pattern, the secondary display areas displays the maximum default of the hypotenuse measurement, and displays the minimum default of horizontal measurement.

6. Function

Addition/Subtraction

The measurement of the single distance, area and the volume can be measured through cumulative, regressive by the addition/subtraction. Press  button you can addition and Press  button for subtraction. Operational symbol will be displayed in the main display area.

press button to got the measurement. The result will be shown in the main display area and the latest measuring result will be shown in the secondary display area.

Area measurement

Shortly press  button until  is show in the display. Press  to got the first measurement, and then press  to got the second measurement. Then the device will be calculated the area automatically and the result will be display in the main display area.

Volume measurement

Shortly press  button until  is show in the display. Press  to got the first measurement, and then press  to got the second measurement. Press  got the third measurement. Then the device will be calculated the cube automatically and the result will be display in the main display area.

Pythagorean measurement

Pythagorean measurement is used to measure the target distance that cannot be targeted directly by using the Pythagorean theorem.

1, Press  until  is show in the display. Shortly press  to got the first measurement of bevel edge, And press  again to got the second measurement of edge. The Pythagorean measurement will be done automatically and the result will be display in the main display area.

2, Press  until  is show in the display. Shortly press  to got the first measurement of bevel edge, And press  again to got the second measurement of edge, And press  to got the third measurement of edge, The Pythagorean measurement

will be done automatically and the result will be display in the main display area.

3, Press  until  is show in the display. Shortly press  to got the first measurement of bevel edge, And press  again to got the second measurement of edge, And press  to got the third measurement of edge, The Pythagorean measurement will be done automatically and the result will be display in the main display area.

Notice:

- When measuring under the Pythagorean pattern, the length of bevel edge should be longer than the right angle edge, Or the device will show an error.

Data Memory /Data Storage

Press  button enter into data storage function, and  will show in the display.

You can circularly check the 20 latest data . Press button  or

Press button  you check the 20 data one by one.

7. Tips code and solution

During the use of the instrument, the instrument may appear the prompts as followed:

Information	reason	solution
b.L	The battery level is too low	Replace with a new battery
t.L	The temperature is too low	Raise the meter temperature
t.h	The temperature is too high	Lower the meter temperature
d.H	Overflowing of data	Re-measurement
S.L	The signal is too weak	Measure the target potion with strong reflective ability or use the sighting target.
S.H	The signal is too strong	Measure the target potion with weak reflective ability or use the sighting target.
H.F	Wrong hardware	Restart the meter. If many times of startup & shutdown can't solve the problem, please contact with the local dealer.

8. Technical reference

Specifications and models	H-40	H-60	H-80	H-100
Product dimensions:				
Measurement accuracy		+/- 2 mm		
Unit		m/in/ft		
Measurement range (no reflector)	0.03-40m	0.03-60 m	0.03-80m	0.03-100 m
Measurement time		0.1-3 s		
Laser class		II		
Laser wave length		635 nm		
Laser output power		<1 mw		
Dust proof and water proof		IP54		
Turn off the laser light automatically		60 s		
Shutdown automatically		480 s		
Illumination		white LED		
Measuring standard switch		100000 times		
Tripod mount socket		1/4		
Number of measurements in memory		20		

Battery indicator	√
Signal strength indicator	√
Data storage	√
Continuous measurement(max/min)	√
Addition/subtraction	√
Volume/area/ Pythagorean measurement function	√
Laying off	√
Button life	100,000 times
Battery lives:	AAA alkaline battery (2*1.5), 5000 times
Weight	104 g
Working temperature range	-10℃ - 40℃
Storage temperature range	-25℃ - 60℃

9. Maintenance

Immersing the instrument into the water is forbidden. You can use wet and soft cloth to wipe dust off. Don't use erosive lotion. Clean the surface of the optical component (including the

laser light radiating window and the signal received lens) in accordance with the way used in cleaning the glasses and the lens of cameral.

10. Service

To better serve our customers, a warranty card is attached. Please keep it properly in order to enjoy the service we deserved.

1. The product, if it is used properly without overhaul, enjoys 1- year after sales service since the day purchased.
2. The products in the following condition can't enjoy the warranty range:
    A. The variation of network voltage is so great that the instrument is damaged.
    B. The instrument is damaged by the overused or artificial reason.
    C. The instrument is damaged by the vibration during transportation.
3. The user without warranty cards will be charged according to the circumstance.
4. When the user needs warranty service, he should fulfill the warranty card carefully and send to the company.

Item List

Item No.	Name	Quantity	Unit	Remarks
1	Laser distance	1	PC	
2	AAA battery	2	PC	
3	Cloth bag	1	PC	
4	Hand Line	1	PC	
5	user manual	1	PC	

11. Storage and transportation

The appliance must be cleaned as described and left until it is completely dry.

It is recommended that the device be stored in its original packaging.

Protect the device against vibration and shock during transport.

12. Disposal

All the packaging materials are recyclable and labeled as such. Dispose of the packaging in accordance with local regulations.

The packaging materials should be kept away from children, as these materials could pose a hazard.

Correct disposal of the appliance.



1. According to the WEEE Directive(2012/19/UE), the crossed-out wheelie bin symbol(shown on the left)is used to label all electric and electronic devices requiring segregation.
2. Do not dispose of the spent product with domestic waste: hand it over to an electric and electronic device collection and recycling centre. The crossed-out wheelie bin symbol placed on product, instruction manual or package communicates this requirement.
3. Plastics contained in the device can be recycled in accordance with the specific marking. By recycling materials and spent equipment you will help to protect the environment.



4. Information on electric and electronic devices collection centre is available from local government agencies or from the dealer.
5. Worn out and dead batteries must be discarded in specially marked containers, delivered to special waste collection points or to electronic equipment vendors.