

室内激光测距仪说明书

laser range finder user's manual



made in china



* Under the circumstances with strong sunlight or poor reflection of the object, please use the baffle reflector boardingly.

IX. Maintenance

Forbid to drop the device into water. the wet soft cloth can be used to wipe off the dusts on the surface, but without the erosive solution for washing. To wipe the optical parts surface according to the method of wiping the camera lens (including the laser exit window and the lens for signal reception.)

X. Service

In order to serve our customer better, our company provide warranty card accompanied with the device. Please Keep this warranty card properly to enjoy the after-sales service.

1. One year warranty will be offered from purchased date.

2. Below circumstances is not applied for warranty:

A. Due to abused use or damage due to manual behavior.

B. The damage due to severe vibration during user's transportation;

3. Corresponding repair charges will be charged without warranty card.

4. When the repair is needed, the user must fill the warranty card carefully and post it back to our company.

手持式激光测距仪使用说明书

感谢您购买本公司系列产品 手持式激光测距仪
首次使用本产品前, 请先仔细阅读安全条款和使用说明。

一、安全条款

⚠ 在使用本产品之前请务必认真阅读本说明书中的所有条款和操作指南。没有遵循这些安全条款和操作指南可能会导致危险的激光辐射伤害、电击或者人身伤害。

⚠ 不要试图用任何方式来改变激光器的性能, 这样会导致激光暴露引起危险。仅在使用本仪器时才打开激光, 不要直视激光。请妥善保管您的仪器, 以免无关人员的使用。

⚠ 不要故意或在黑暗中用激光照射他人。

⚠ 不要将激光束照射在高反光面的物体上。

⚠ 不要放置在儿童可以接触到的地方。

⚠ 不要擅自修理本仪器。如果仪器损坏, 请与您的当地经销商联系。

电磁辐射可能对其设备、装置造成干扰(如: 起搏器或助听器)等医疗仪器)。

⚠ 不要在易燃、易爆的环境中使用本仪器。

请按照您所在地的法律法规来外置废弃的仪器。

二、概述

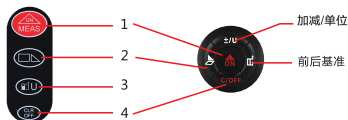
键盘

1. 开机/单次测量/连续测量键

2. 面积/体积/勾股

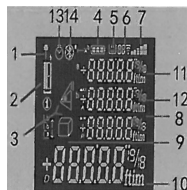
3. 前后基准/单位

4. 清除/关机



显示屏 (见下图)

- 1 激光开启指示符
- 2 测量基准边指示符
- 3 面积/体积/勾股测量功能指示符
- 4 电池电量指示符
- 5 数据存储器数量指示符
- 6 数据储存数量指示符
- 7 信号强度指示符
- 8 单位指示符 (包括立方、立方)
- 9 辅助显示区
- 10 主显示区
- 11 辅助显示区 (四行屏)
- 12 辅助显示区 (四行屏)
- 13 延时测试指示符
- 14 延时测试指示符





三、电源

打开电池仓盖，把电池正确地放入电池仓，盖回电池仓盖。


- 碱性或碳性电池均可使用，碳性电池的测量会相对减少。
- 在长期不用时，请将电池取出。

四、操作


启动/关闭

装上电池后，机器自动处于开机状态，长按键，则关机，关机状态下按键则开机，开机状态下15秒没有按键操作，则自动闭背光，45秒没有按键操作，则自动关机。

基准边

仪器默认的基准边是仪器后段，短按键可以切换基准边。

单位






长按键可以循环切换单位（如图），关机时将记忆最后的显示单位。

长度	面积	体积
0.000m	0.000m ²	0.000m ³
0.00m	0.00m ²	0.00m ³
0.00m	0.00ft ²	0.00ft ³
0.00m	0.00ft ²	0.00ft ³
0.00in	0.00ft ²	0.00ft ³
0.00in	0.00ft	0.00ft


电池电量指示

当电池框内的段码显示时，表示电量处于较满的状态，显示的段数减少，表示电量相对减少，当只有电池框显示时，应及时准备更换新电池。

自助校准功能

在开机模式下长按键，直到主屏上显示 book 闪烁时再按键，按到第四下直到主屏上显示CRL.0时再按、键进行加减调整，调整范围为-7-7mm,校准完成后再次按键保存设置。

清除功能

短按键则取消最后一个指令，在同一功能内单次测量（面积或体积等），可以用清除键清除上一个测量操作，重新测量。

信号强度指示

当所有信号段码都显示时，表示测量回波信号强度较高，显示的段数减少，表示测量回波信号强度相对减小。




Measuring range (baffle board not included)	0,05-40m/60m/80m
Frequency	0.1-3seconds
Class	Grade II
Laser type	635nm<1mw
Water-Proof and dust-proof grade	IP 54
Laser auto shut-down	15 seconds
Auto shut-down	45 seconds
Illumination	White LED
Measurement reference switch	Yes
Data clear-off	Yes
Battery level display	Yes
Signal strength display	Yes
Continuous measurement (Max/Min)	Yes
Area/volume/ Pythagorean measurement function	Yes
Button's service life	one million times
Type and service life of battery	AAA alkaline battery (1.5Vfortwo), Max 15000 times
Product size:	109*35*22mm
Weight	45g
Working temperature range	0°C-40°C
Storage temperature range	-25°C-60°C

* There shall be quite big error in measurement accuracy with+3MM+40PPM under the poor measuring conditions (such as too stronger light, too higher or lower temperature, reflection conditions on the measured points.)

* The last displayed unit will be kept in memory while the device was shut down.

self calibration function


Long press in boot mode  button, until the screen displaying  press again when blinking

 Press fourth until to the screen displaying CRL.O press again  Button into add subtract range with -7-7mm as adjustment, press again  button Save settings when the calibration is completed.

Battery level indication

While all the segment code in the battery column are all displayed, It means that the battery level shall be at the fulfilled status. While the displayed segment code is quite less, it refers to the relative lower battery level; while the empty battery column is displayed, the new battery should be used for replacing the old one inside the device.

Clear-off function

short Press on  button, the last measurement will be canceled. While using the same function or single measurement to the area or volume etc), the clear-off button can be used to eliminate last measuring operation and arrange the measurement once again.

Signal strength indication

While all the segment code of signal are displayed, it means that there shall be the stronger echo signal strength of measurement; while less segment code was displayed, it shall mean the relatively reduced echo signal strength of measurement.

V. Measurement

Single measurement


while the laser is off, press  button shortly for opening the laser, and the laser icon on the screen will be flashing , with short press  button again it shall start measurement. The device will display the measurement


laser range finder user's manual


Thanks for purchasing our series products-the hand-held laser range finder


First of all, before using this product please read the safety policy and direction for use.

I.Safety policy


 Before using this product, please read all the terms and operational guide listed in this manual carefully. The improper use of this product with breach of these safety policy and direction of use may result in the dangerous injury of laser radiation, electric shock and personal injury.


 Do not try to change the performance of the laser device in any way, thus it may result in the danger caused by laser exposure. The laser can only be opened for use and please do not look in the laser straightly. Please keep your device properly to avoid the use by other irrelevant personnel.

 Do not use the laser to shine on other person deliberately or in the dark.

 Do not use the laser to shine on the object with high- reflective surface.

 Do not place the device on somewhere the children could touch and reach

 Do not try to repair this device by yourself. If the device was damaged, please contact with your local dealer.





 The electromagnetic radiation may cause the interference on other equipment and devices (such as the medical instruments like pacemaker or hearing aids.)

 Do not use this device under the flammable and combustible environment.

Please dispose your wasted device according to your local laws and regulations.

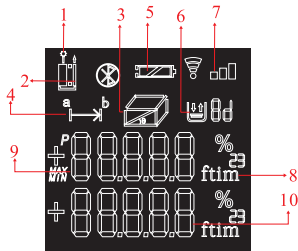
II. Overview

Keyboard

1.  Start/single measurement/continuous measurement
2.  Area/volume/pythagorean function
3.  Prior-latter reference/unit
4.  Clear-off/turn off

Display screen (see following figure)

1. laser indicator
2. Reference Base indicator
3. area/volume/Pythagorean function indicator
4. distance measurement
5. Battery Indicator
6. data storage indicator
7. signal indicator
8. unit indicator
9. supplementary displaying area
10. main displaying area





III. Power supply

By opening the cover of battery cabin to place the battery into the cabin correctly and then close the cover of battery cabin accordingly.

Both of the alkaline and carbon battery can be used here, but the carbon battery may support relative less measurement times.

If the device won't be used for quite a long time, please take off the battery.

IV. Operation no/off

By inserting the battery, the device shall be in the power-on status automatically, long press on the  button the device shall be shut down accordingly. While under power off status, long press on the  button will start the device, while without any operation for 30 seconds under the power-on status, the back light of display shall be off automatically, while there is no further button operation for 45 seconds under the power-on status, the device shall be shut down automatically.

Reference edge

The default reference base is the bottom of the device, with short press on button, it can switch the reference base from the front of the device.

Unit

With long press on  button it can switch the unit circularly (shown in the figure on right side).

Length	Area	Volume
0,000m	0,00m ²	0,000 m ³
0,00m	0,00m ²	0,00 m ³
0,00m	0,00ft ²	0,00ft ³
0,0,,,1/18	0,00ft ²	0,00ft ³
0,0 in	0,00ft ²	0,00ft ³
01/18 in	0,00ft	0,00ft

八、技术参数

规格型号	JQ-30	JQ-40	W-40	W-80	W-60
测量精度	+/-2mm				
单位	m/in/ft				
测量范围（无反射板）	0.05-40/60/80m				
测量时间	0.1-3秒				
激光等级	I 级				
激光类型	635nm<1mw				
防尘防水	IP 54				
自动关闭激光	15秒				
自动关机	45秒				
照明	白色LED				
测量基准切换	✓				
数据清除	✓				
电量显示	✓				
信号强度指示	✓				
连续测量（最大、最少）	✓				
加、减（距离、面积、体积）	✓				
面积、体积、勾股量功能	✓				
JQ-30 JQ-40电池类型及寿命	200mah 3000次				
W-40 电池类型及寿命	A A A 碱性电池（2*1.5v）至5000次				
产品尺寸：W-40:109*35*22MM	JQ-40:100*32*12.6MM				
重量	W-40: 45g		JQ-40: 25g		
工作温度范围	0℃~40℃				
储存温度范围	-25℃~60℃				

*不良测量条件下(如环境光线过强、被点漫反射系数过大或过小)，测量精度会有较大误差： $\pm 1\text{mm}+40\text{PPM}$ 。

*在强烈日光或者目标反光不好的情况下，请使用反射板。

九、保养

禁止将仪器浸入水中，可用湿的软布擦拭表面灰尘，不要使用腐蚀性洗液，按照擦拭相机镜头的方法擦拭光学部件表面（包括激光出射窗口和信号接收透镜）。


十、服务


为了更好的服务于客户，我公司随即有保修卡，请用户妥善保管，以享受我们应该有的服务。

- 1、产品从购买之日起，正常操作使用未经拆修，一年内享受保修服务，
- 2、下列情况不在免费保修范围内
 - A、因被滥用或人为导致仪器损坏
 - B、因用户运输时振动过大导致仪器损坏
- 3、用户无保修卡时将情收效。
- 4、用户需要维修时请填写保修卡，并寄回我公司。

result automatically.





Continuous measurement

With laser on, long press on  button for about 2 seconds it shall start the continuous measurement. Press this button once more to stop continuous measurement.




While performing continuous measurement, the main displaying area will show the real-time measurement value, and the max or min value during the measuring process shall be shown in the supplementary displaying area accordingly. Use the  button to select MAX or MIN

VI. Functions

Area measurement

Press button  shortly until  was shown on the screen. To press  button to finish the measurement on the first edge, then to press  button again to finish the measurement on the second edge and the device will perform the area calculation automatically, and the result will be shown in the main displaying area.

Volume measurement

Press  button shortly until  was shown on the screen. To Press  button to finish the measurement on the three edges respectively, then the device will perform the volume calculation automatically, the calculated result will be shown in the main displaying area.

Pythagorean measurement

The Pythagorean measurement mainly uses the Pythagorean theorem to calculate the object distance that cannot be measured directly.

To press  button shortly, until  was shown on the screen. According to the instruction on the screen, to press  button to finish the measurement on cathetus-cathetus or cathetus-hypotenuse respectively, after the measurement finished the device will perform

the Pythagorean calculation automatically and the calculated result will be shown in the main displaying area.

VII. Error code prompt and solution

While using the device, it may occur the prompt instruction as following：



Message	Reason	Solution
B.L	Too lower battery voltage	To replace the new battery
T.L	Too lower temperature	To warn up the device
T.H	Too higher temperature	To cool the device
D.H	Date overflow	To measure again
S.L	Too Weaker signal strength	To measure the target Point with stronger reflective ability.
S.H	Too stronger signal strength	To measure the target point with weaker reflective ability.
H.F	H.F Hardware	error To start/ shut down the device again incase of starting/ shutting down device failed to solve such problem, please contact your local dealer.

VIII. Technical parameters

SPECS and model	W-60/W-40/W-80
Measurement accuracy	+/-2mm
Measuring unit	M/in/ft

五、测量

单次测量

激光关闭的情况下，短按键打开激光，此时显示屏上的激光标志将闪动，再次短按键则进行测量。

仪器将自动保存正常的测量结果。





连续测量

短按键，开启激光，长按键约2秒开始连续测量。若要停止连续测量，再次短按该键。




连续测量时，主显示器显示实时测量值，辅助显示测量程中的最大值（MAX）或最小值（MIN）。

六、功能

面积测量




短按键，直到显示在显示屏上。按完成第一条边测量，再按完成第二条边测量后会自动进行面积运算，结果显示在主显示器。

体积测量

短按键，直到显示在显示屏上。按分别完成三条边测量后会自动进行体积运算，结果显示在主显示器。

勾股测量

勾股测量主要是利用勾股定理计算测量不能直接测得的目标距离。

短按键，直到显示在显示屏上。根据屏幕提示，按分别完成直角边一直角边或斜边一直角边的测量，测量完后自动进行勾股运算，结果显示在主示区。

七、提示代码及解决方案

在提示使用仪器的过程中，仪器可能会出现如下提示信息：

信息	原因	解决方法
B.L	电池电压过低	更换新电池
T.L	温度过低	仪器升温
T.H	温度过高	仪器降温
D.H	数据溢出	重新测量
S.L	信号太弱	测量反射能力强的目标点或使用靶板
S.H	信号太强	测量反射能力的目标点或使用靶板
H.F	硬件错误	重新开机若多次开机仍未解决问题，请与您的经销商联系。