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 pachaded 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.

手保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、安全条例

⚠️ 在使用本产品之前请务必认真阅读本说明书里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，这样会导致激光暴漏引起危险。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。
清按照您所在地的法律法规来处置废弃的仪器。

二、概述

键盘

1️⃣ 开机/单次测量/连续测量键
2️⃣ 面积/体积/勾股
3️⃣ 前后基准/单位
4️⃣ 清除/关机

显示屏（见下图）

1️⃣ 激光开启指示符
2️⃣ 测量基准边指示符
3️⃣ 面积/体积/勾股测量功能指示符
4️⃣ 电池电量指示符
5️⃣ 数据存储指示符
6️⃣ 数据储存数量指示符
7️⃣ 信号强度指示符
8️⃣ 单位指示符（包括乘方、立方）
9️⃣ 辅助显示区
10️⃣ 主显示区
11️⃣ 辅助显示区（四行屏）
12️⃣ 辅助显示区（四行屏）
13️⃣ 延时测试指示符
14️⃣ 延时测试指示符
三、电源
打开电池仓盖，将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，碳性电池的测量时相对减少。
- 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 上按键，则关机，关机状态下按 上按键则开机，开机状态下15秒没有按键操作，则自动复位，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 上键可以切换基准边。

单位
长按 上键可以循环切换单位（如上图），开机时将记忆最后的显示单位。

<table>
<thead>
<tr>
<th>长度</th>
<th>面积</th>
<th>体积</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.000m</td>
<td>0.000m²</td>
<td>0.000m³</td>
</tr>
<tr>
<td>0.00m</td>
<td>0.00m²</td>
<td>0.00m³</td>
</tr>
<tr>
<td>0.0m</td>
<td>0.0ft²</td>
<td>0.0ft³</td>
</tr>
<tr>
<td>0.0in</td>
<td>0.00ft²</td>
<td>0.00ft³</td>
</tr>
</tbody>
</table>

电池电量指示
当电池电压在的段码显示时，表示电池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 上键，直到主屏上显示 book 闪烁时再按 上键，按到第4下直到主屏上显示CRL.0时再按 上键进行加减调整，调整范围为-7-7mm,校准完成后按 上键保存设置。

清除功能
短按 上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。

| 测量范围 (baffle board not included) | 0.05-40m/60m/80m |
|Frequency | 0.1-3seconds |
|Class | Grade II |
|Laser type | 635nm<1mw |
|Water-Prooof 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 150000 times |
|Product size: | 109*35*22mm |
|Weight | 45g |
|Working temperature range | 0℃-40℃ |
|Storage temperature range | -25℃-60℃ |

* 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

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

### 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.

### 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).

<table>
<thead>
<tr>
<th>Length</th>
<th>Area</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.000m</td>
<td>0.00m²</td>
<td>0.000 m³</td>
</tr>
<tr>
<td>0.00m</td>
<td>0.00m²</td>
<td>0.00 m³</td>
</tr>
<tr>
<td>0.00m</td>
<td>0.00ft²</td>
<td>0.00ft³</td>
</tr>
<tr>
<td>0.0,,1/18</td>
<td>0.00ft²</td>
<td>0.00ft³</td>
</tr>
<tr>
<td>0.0 in</td>
<td>0.00ft²</td>
<td>0.00ft³</td>
</tr>
<tr>
<td>01/18 in</td>
<td>0.00ft</td>
<td>0.00ft</td>
</tr>
</tbody>
</table>
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 used 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:

<table>
<thead>
<tr>
<th>Message</th>
<th>Reason</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.L</td>
<td>Too low battery voltage</td>
<td>To replace the new battery</td>
</tr>
<tr>
<td>T.L</td>
<td>Too low temperature</td>
<td>To warm up the device</td>
</tr>
<tr>
<td>T.H</td>
<td>Too high temperature</td>
<td>To cool the device</td>
</tr>
<tr>
<td>D.H</td>
<td>Date overflow</td>
<td>To measure again</td>
</tr>
<tr>
<td>S.L</td>
<td>Too weaker signal strength</td>
<td>To measure the target point with stronger reflective ability.</td>
</tr>
<tr>
<td>S.H</td>
<td>Too stronger signal strength</td>
<td>To measure the target point with weaker reflective ability.</td>
</tr>
<tr>
<td>H.F</td>
<td>H.F Hardware</td>
<td>error To start/ shut down the device again incase of starting/shutting down device failed to solve such problem, please contact your local dealer.</td>
</tr>
</tbody>
</table>

VIII. Technical parameters

<table>
<thead>
<tr>
<th>SPECs and model</th>
<th>W-60/W-40/W-80</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement accuracy</td>
<td>+/-2mm</td>
</tr>
<tr>
<td>Measuring unit</td>
<td>M/In/ft</td>
</tr>
</tbody>
</table>