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.

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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 policies 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 people 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
3. Prior-latter reference/unit
4. Clear-off/turn off

Display screen (see following figure)

1. laser indicator
2. Reference Basment indictor
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 basement is the bottom of the device. With short press on the 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>Unit</th>
<th>Length</th>
<th>Area</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>m</td>
<td>0.00m</td>
<td>0.00m²</td>
<td>0.000 m³</td>
</tr>
<tr>
<td>m</td>
<td>0.00m</td>
<td>0.00m²</td>
<td>0.00 m³</td>
</tr>
<tr>
<td>m</td>
<td>0.00m</td>
<td>0.00ft²</td>
<td>0.00ft³</td>
</tr>
<tr>
<td>ft/l8</td>
<td>0.00ft²</td>
<td></td>
<td>0.00ft³</td>
</tr>
<tr>
<td>in</td>
<td>0.00ft²</td>
<td></td>
<td>0.00ft³</td>
</tr>
<tr>
<td>1/18in</td>
<td>0.00ft</td>
<td></td>
<td>0.00ft</td>
</tr>
</tbody>
</table>

*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 Button press fourth until to the screen displaying CRL.0 Button 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 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/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 lower battery voltage</td>
<td>To replace the new battery</td>
</tr>
<tr>
<td>T.L</td>
<td>Too lower temperature</td>
<td>To warm up the device</td>
</tr>
<tr>
<td>T.H</td>
<td>Too higher 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

**SPECS and model**

W-60/W-40/W-80

**Measurement accuracy**

$\pm 2\text{mm}$

**Measuring unit**

M/in/ft
<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring range (baffle board not included)</td>
<td>0.05-40m/60m/80m</td>
</tr>
<tr>
<td>Frequency</td>
<td>0.1-3 seconds</td>
</tr>
<tr>
<td>Class</td>
<td>Grade II</td>
</tr>
<tr>
<td>Laser type</td>
<td>635nm&lt;lmw</td>
</tr>
<tr>
<td>Water-Proof and dust-proof grade</td>
<td>IP 54</td>
</tr>
<tr>
<td>Laser auto shut-down</td>
<td>15 seconds</td>
</tr>
<tr>
<td>Auto shut-down</td>
<td>45 seconds</td>
</tr>
<tr>
<td>Illumination</td>
<td>White LED</td>
</tr>
<tr>
<td>Measurement reference switch</td>
<td>Yes</td>
</tr>
<tr>
<td>Data clear-off</td>
<td>Yes</td>
</tr>
<tr>
<td>Battery level display</td>
<td>Yes</td>
</tr>
<tr>
<td>Signal strength display</td>
<td>Yes</td>
</tr>
<tr>
<td>Continuous measurement (Max/Min)</td>
<td>Yes</td>
</tr>
<tr>
<td>Area/volume/ Pythagorean measurement function</td>
<td>Yes</td>
</tr>
<tr>
<td>Button's service life</td>
<td>one million times</td>
</tr>
<tr>
<td>Type and service life of battery</td>
<td>AAA alkaline battery (1.5Vfortwo), Max 15000 times</td>
</tr>
<tr>
<td>Product size:</td>
<td>109<em>35</em>22mm</td>
</tr>
<tr>
<td>Weight</td>
<td>45g</td>
</tr>
<tr>
<td>Working temperature range</td>
<td>0°C-40°C</td>
</tr>
<tr>
<td>Storage temperature range</td>
<td>-25°C-60°C</td>
</tr>
</tbody>
</table>

* There shall be quite big error in measurement accuracy with +3MM+40PPM under the poor measuring conditions (such as too stronger light, too high error lower temperature, reflection conditions on the measured points.*)
* 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 surface of the optical part 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 customers better, our company provides warranty card accompanied with the device. Please Keep this warranty care properly to enjoy the after-sales service.

1. One year warranty will be offered from purchase date.
2. Below circumstances is not applied for warranty:
   A. Due to abused use or damaged 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.

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