**Usage**

Laser range finders use a low-intensity eye-safe laser to measure the distance to a target object. Apart from regular operation Ranger LS010A features a special mode that ignores interference from close-by objects such as foliage and fencing, and two additional modes to ensure accurate readings in the rain or under foggy conditions.

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**Parts List**

1. Eyepiece
2. Objective lens / laser emitter
3. Laser receiver
4. Mode button
5. Trigger button
6. Battery lid
**Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement range</td>
<td>5 to 600 metres</td>
</tr>
<tr>
<td>Measurement method</td>
<td>Eye-safe laser</td>
</tr>
<tr>
<td>Margin of error for ranging</td>
<td>±1m or ±0.1%</td>
</tr>
<tr>
<td>Display</td>
<td>LCD display</td>
</tr>
<tr>
<td>Objective lens aperture</td>
<td>25mm</td>
</tr>
<tr>
<td>Lens coating</td>
<td>Multi coated</td>
</tr>
<tr>
<td>Exit pupil diameter</td>
<td>3.8mm</td>
</tr>
<tr>
<td>Eye-relief</td>
<td>12mm</td>
</tr>
<tr>
<td>Dioptre focussing</td>
<td>Yes</td>
</tr>
<tr>
<td>Optical magnification</td>
<td>6x</td>
</tr>
<tr>
<td>Field of view</td>
<td>122m @ 1000m (7°)</td>
</tr>
<tr>
<td>Four modes of measurement</td>
<td>Eliminate false readings</td>
</tr>
<tr>
<td></td>
<td>from rain, fog and interference from close-lying foliage and fencing.</td>
</tr>
<tr>
<td></td>
<td>• Standard</td>
</tr>
<tr>
<td></td>
<td>• RAIN</td>
</tr>
<tr>
<td></td>
<td>• REFL</td>
</tr>
<tr>
<td></td>
<td>• &gt;150</td>
</tr>
<tr>
<td>Power</td>
<td>1 x CR2 3V lithium battery</td>
</tr>
<tr>
<td>Dimensions</td>
<td>40 × 99 × 68mm</td>
</tr>
<tr>
<td>Weight</td>
<td>180g</td>
</tr>
<tr>
<td>Waterproof</td>
<td>No</td>
</tr>
</tbody>
</table>

**Display**

1. Aiming cross-hair with centre circle.
2. Distance readout. A display with three dashes “- - -” means no distance has been measured.
3. Distance unit, metres or yards.
4. Mode:
   a. `<blank>` - standard mode.
   b. “RAIN” - for rainy conditions to measure distance to objects more than 60 metres away.
   c. “REFL” – for conditions of thin fog or heavy humidity.
   d. “>150” – ignore interference by close-by (closer than 150 metres) small objects such as branches, fence wires etc., that lie between you and the target you are ranging.

5. The number of arrows following the word “QUALITY” shows the quality of the ranging signal. 6 or more arrows means a good enough return signal for a distance reading.

6. The word “LASER” flashes when the range finder is emitting the range-finding beam.

7. “BATT” battery low indicator.

**Operation**

1. Look through the eyepiece and rotate it to adjust the image so that it is sharp and clear.
2. Press and release the trigger button to activate the LCD screen.
3. Place the target object under the centre circle and press and hold the trigger button to read the range.
4. The display remains active for 15 seconds before shutting-off.
5. It is recommended that the object is ranged at least twice for best accuracy by depressing the trigger button a second time for three seconds while the display is still active.

A bad reading is indicated by three short lines “- - -” if a distance reading is not obtained after three seconds.

You can use the “mode” button to change the operation mode from standard to “>150”, “RAIN” or “REFL” to a) ignore interference from close-by objects such as foliage and fencing, b) ensure accurate readings in the rain, or c) when using the laser under foggy conditions. When switched on the unit reverts to the mode last used.

To change the distance unit (metres / yards), press and hold the “mode” button down for three seconds.

The maximum range a target distance can be measured is affected by the following four variables:
1. The size of the object being measured,
2. the angle of the surface being measured with respect to the laser beam,
3. weather conditions, and
4. reflectivity of the surface being measured.

Generally speaking you can range targets further on a clear day, with larger targets that are highly reflective and with surfaces perpendicular to the laser beam than you can with small light-absorbent targets standing at an angle in misty or rainy weather.

**PLEASE NOTE**
- Do not attempt to disassemble the device.
- Lens surfaces should be kept clean with a soft cloth, used gently to avoid scratching the lens coating.
- Make sure the battery is inserted with correct polarity. An inverted battery can damage the electronics.
- Remove the battery for long-term storage.
- Store in a cool dry place.
- Operating temperature is -20°C to 40°C.
- Do not depress both MODE and TRIGGER buttons simultaneously.
- This device can only be repaired by qualified professionals. Please do not attempt repair yourself. If your laser range finder becomes faulty package it and return it to your dealer, or return to the service centre directly at the postal address below:

**PACKAGE CONTENTS**
1 x Laser range finder LS010A
1 x Carry case
1 x Strap
1 x Lens cleaning cloth
1 x Instructions

Purchase date:..................................................
Dealer name and signature or dealer stamp

*Distributed by:*
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