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INSTRUCTION MANUAL
PCE-LRF600

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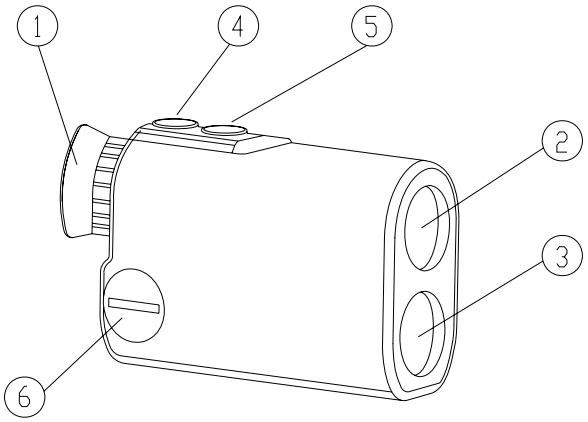
1 .Usage

PCE-LRF600 laser distance-measuring telescope (abbreviated to DMT), combined with the function of common telescope and laser distance-measuring instrument, could measure the distance of the object in the distance of the particular scope. It is to save time of, give or get an electric shock-Save, show the distance directly, and power- Go away automatically.

DMT, which is safe for eyes for its mild emission, can measure any object .For its small volume and light weight, it is carried conveniently; it only needs a 3V battery that is convenient to buy and change .Besides, the utilizing the model of" RAIN", measuring-distance won't be affected even in rainy days, and utilizing the model of ">150", the influence of small objects beside (wires, branches, etc) could be eliminated.

The DMT could be wildly used in sports and activities (golf, hunting, etc), measuring the distance of building electrical force and electrical wire pole as well as measuring the general terrain.

The shape of the DMT as picture 1



1 ---- The telescope eyepiece (inner—distance display)
2 ---- The telescope objective (laser emission objective)
3 ---- Laser reception objective
4 ---- Model button
5 ----Triggering button
6 ---- Battery lid

2. The main performance

2.1 Measurement range: 15---600m
2.2 Measurement pattern: semiconductor laser measurement (harmless for eyes)
2.3 Error in measurement: ± 1m ±0.1%
2.4 The pattern of measurement display: Inner-vision-field LCD display
2.5 Effective objective lens aperture: 25 mm
2.6 File coating: multiple file coating
2.7 Outlet pupil diameter: 3.8 mm
2.8 Outlet pupil distance: 12 mm
2.9 The pattern of alignment focus: eyepiece focusing adjustment
2.10 The telescope multiplying power: 6×
2.11 Vision field within 1000 m: 122 m
2.12 The model of measurement: RAIN; RELF>150; standard model if no display
2.13 Mains voltage: 3V (excluded)

2.14 The size of the shape: 40×99×68 mm
2.15 Weight: 180g
2.16 Water-proof function: not water-proof

3 The symbol of the inner lens and theirs functions

3.1 Symbol for aim: "--|--", in which center there is a circle that used while measuring.
3.2 Distance—displaying: a there-figure number just above the field of vision; it displays "—" when there is no distance.
3.3 Distance unit: "METERS" (m) or "YARDS"(yd).
3.4 The model of distance—measuring: on the left above the field of vision:

(1) No letter displayed—standard condition;
(2) "RAIN"----for rainy days to measure distance when the objects beyond 60 meters;
(3) "REFL"--- fit for thin—foggy and heavy—steam day;
(4) ">150"---- there are interfering objects (electrical wires, branches, etc) within 150m, which the objective must beyond.

3.5 The quality of the distance—measuring: It shows with "QUALITY▼▼▼▼▼▼▼▼▼▼"just under the field of vision, when six "▼" (or more than six) show, the return-wave is strong enough for the distance-displaying.
3.6 Laser emission: It shows with "LASER" on the left under the field of vision .When emitting the laser, the "LASER" glitters.
3.7 The battery is lack of voltage: When "BATT" is displayed, it means that the voltage is not enough, and the battery needs to be changed.

4. The operation of distance-measuring

4.1 Adjust the eyepiece degree of the telescope to make the object clear in the field of vision.
4.2 Click the "triggering" button, in the lens displays "+", then aim the centre circle at the object. The item of "model" is usually on the standard condition. Re-click the "triggering" button and keep pressing it for about three seconds, then it will display the distance of the object. It would shut off automatically if it is not used in fifteen seconds.
4.3 In order to measure back the object dependably, keep pressing the "trigger" button for mare the three seconds till the distance of the object display for the second time, but should not keep pressing for long time ,or it will display the decimal of the causing . If there is still no distance displayed after three seconds, which indicates that the character of the wave is bad, then "-"displays.
4.4 The condition may change the "model" button. The use of each model should be chosen according to the directions of the item 3.5. When switching the electric power on, it is in the model condition of the last time.
4.5 If the distance unit needs to be switched, keep pressing "model" for more than three seconds.
4.6 Distance-measuring of the DMT is affected by the characteristics of the objects, the angular of the emitted tight beam and the surface of object, and the visibility of weather. Generally speaking, if the surface of the object is smooth, the light is bright, the area is large, the light beam is vertical with the surface of the object and the day is fine, the distance is longer .On the reverse, the distance is shorter.

5. Points for attention while using

5.1 Don't take apart the telescope in order not to damage the inner electric circuit.
5.2 Don't cleanse the outside of the lens with hands, please cleanse the lens with appropriate lens-cloth .The outside lens should be cleansed with soft cloth.
5.3 Don't invert the battery.
5.4 The battery should be taken out if the DMT isn't in use for a long time.
5.5 It should be put in a dry place when not in use.
5.6 It should be used when the temperature is between -20℃---40℃.

6. Attachment

Leather box---------- one
Strap----------one
The lens cleanse cloth----------one
Directions----------one

In this direction will find a vision of the measurement technique:
http://www.industrial-needs.com/measuring-instruments.htm

NOTE: "This instrument doesn't have ATEX protection, so it should not be used in potentially explosive atmospheres (powder, flammable gases)."