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BH-GF114

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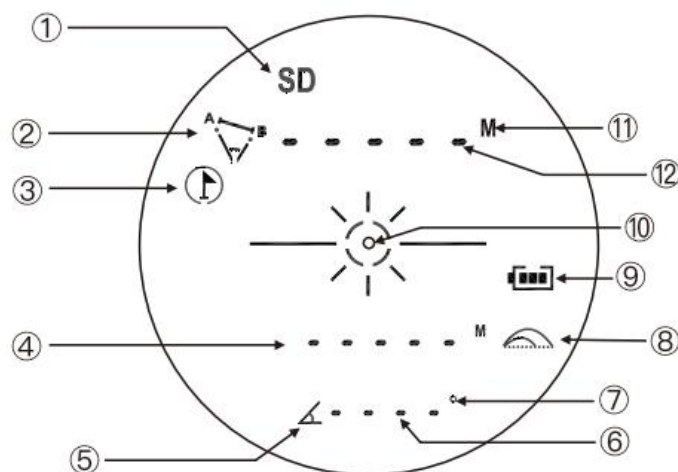
Product Overview

ENGLISH



Display Indicators:

- 1、Distance Indicator
- 2、Three-Point Measurement Indicator
- 3、Flag Lock Indicator
- 4、Slope-Adjusted Distance
- 5、Angle Indicator
- 6、Angle Value
- 7、Angle Unit
- 8、Slope Compensation Indicator
- 9、Battery Level Indicator
- 10、Target Reticle
- 11、Distance Unit
- 12、Distance Value



Technical Specifications

Measurement Range:	Up to 1,200 yd (1,100 m)
Minimum Measurement Range:	5 yd (4.5 m)
Ranging Accuracy:	± 1 yd at distances under 400 yd ± (D × 0.3%) yd at distances of 400 yd or more, where D is the target distance
Distance Units:	Meter (m) / Yard (yd)
Angle Measurement Range:	± 90°
Magnification:	7X
Objective Lens Diameter:	24mm
Eye Relief:	16.7mm
Field of View:	7°
Battery:	3.7 V, 800 mAh Rechargeable Lithium Battery
Battery Life:	More than 10,000 Measurements
Display:	Transmissive LCD, Light Transmission ≥ 85%
Operating Temperature:	-10°C ~ 50°C
Water Resistance:	IPX6
Dimensions:	114*81*42mm (L*H*W)
Weight:	Approx. 230 g

Basic Operations

Power On / Auto Power Off

Press the Power/Measure Button briefly to turn on the rangefinder. The device will automatically power off after 10 seconds of inactivity.

Low Battery Indicator

When the battery indicator displays the  icon and flashes, please charge the device promptly.

Diopter Adjustment

Rotate the diopter adjustment ring clockwise or counterclockwise until the display and target appear clear and sharply focused. Minor adjustments may be needed when viewing targets at different distances.

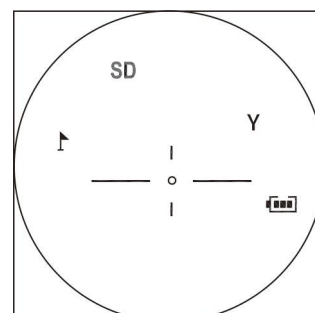


SLOPE Switch

Slide the Slope Switch to the left to turn off slope compensation. Slide it to the right to turn on slope compensation. When enabled, the red indicator below the switch becomes visible.

Default Settings

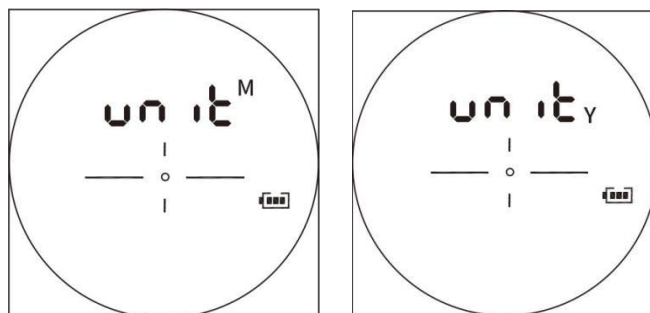
The rangefinder is preset to Golf Mode, yards (yd), with the Slope Switch turned off.



Unit Selection

Briefly press the power button to turn on the device. Press and hold the mode button for more than 2 seconds to enter the unit settings interface; press and hold the mode button again to exit, and the selected unit will be automatically saved. If no operation is performed for 10 seconds while in the unit settings interface, the device will automatically shut down.

*In the unit switching interface (meters/yards), briefly press the measurement button to toggle between meters and yards.



Meter/Yard Unit Selection

This product offers three measurement modes: Golf mode, standard ranging mode, and three-point ranging mode.

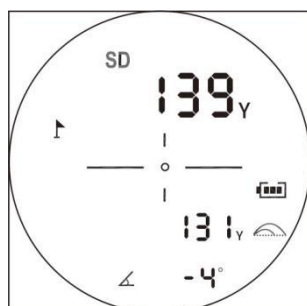
Mode Selection

Golf Mode

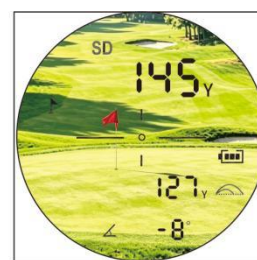
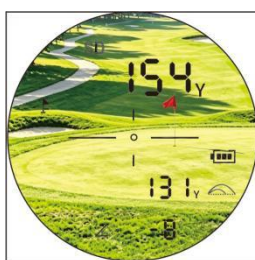
Golf Mode is the default measurement mode and is designed primarily for measuring the distance to a golf flag. Aim at the flag and briefly press the Measure Button to quickly acquire the flag distance.

If the flag is difficult to lock onto, press and hold the Measure Button while scanning left and right around the flag. Once the rangefinder locks onto the flag, it will vibrate and the measured flag distance will remain displayed.

When the Slope Switch is turned on, the display shows the straight-line distance to the flag, the angle, and the slope-adjusted distance.



Single Measurement

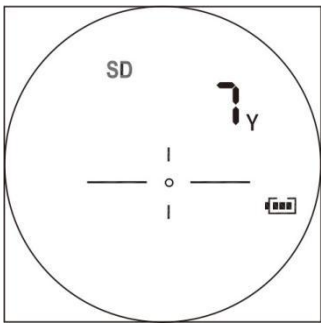


Scan Around the Flag to Lock the Distance —
Vibration Confirms Lock

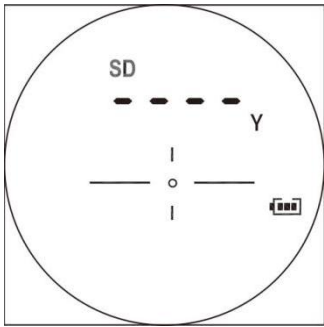
Scan Measurement

Standard Ranging Mode

In this mode, a short press of the power button performs a single measurement, while a long press enables continuous measurement, allowing for the rapid acquisition of the target's real-time distance. Standard ranging mode is primarily used for measuring large targets.



Single Measurement



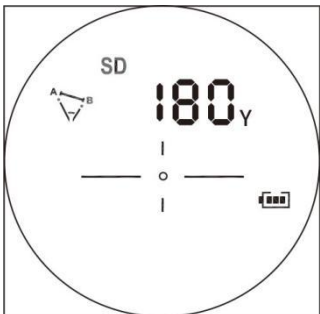
Measurement Failed

Three-Point Measurement Mode

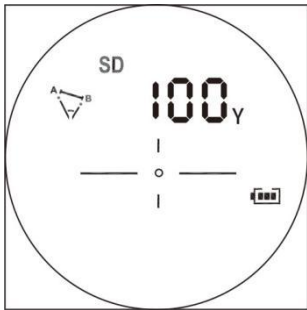
In this mode, the A indicator flashes first. Aim at Target A and briefly press the Measure Button. The straight-line distance to Point A will appear at the top of the display.

Next, when the B indicator flashes, aim at Target B and briefly press the Measure Button. The straight-line distance to Point B will appear at the bottom of the display.

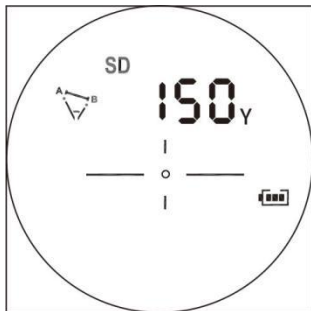
After both measurements are completed, the distance between Points A and B is automatically calculated and displayed at the top of the screen.



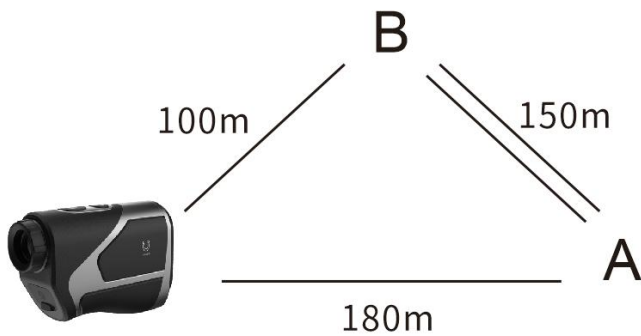
Distance to Target A



Distance to Target B



Distance Between A and B



Distance measuring working principle

This product uses a laser emitting tube to emit a narrow pulse of laser light to illuminate the target object. The light is reflected back to the receiving tube, where a photoelectric detection unit detects the echo pulse signal. By measuring the time difference between the laser emission and the echo signal, and the laser's velocity, the distance to the target object is obtained.

Ranging accuracy is affected by various factors, with the characteristics of the target object being the primary factor.

- *Snow, rain, fog, and air quality all affect ranging accuracy
- *Ranging in clear weather improves laser performance more than in foggy weather
- *Light-colored objects generally reflect light better than dark-colored objects
- *Dull or textured surfaces reflect light less effectively than hard, smooth surfaces
- *Solid objects (such as rocks) reflect light better than bushes
- *Planes perpendicular to the laser reflect light better than curved or tilted surfaces
- *Ranging over water may lead to misreading
- *Large objects are easier to detect than small objects at long distances
- *Using a tripod for stabilization significantly improves ranging accuracy for small targets at long distances.
- *If ranging is difficult, try measuring other nearby objects, or use the scanning function to move back and forth to observe changes in the ranging accuracy.

Note: Solar load conditions are an important factor when detecting distant targets; under high solar load, you may have difficulty detecting distant targets, however, under cloudy or morning/evening conditions, you will be able to easily detect targets at extremely long distances.

Warning

When emitting the laser, please do not stare at the emission hole!

Looking at the sun through this device may cause permanent damage to the eyes!

Do not use the device directly at the sun to avoid permanent damage to the internal components!

Avoid direct sunlight to the eyepiece!

Do not place the instrument under extreme temperature conditions that exceed the storage temperature of the instrument!

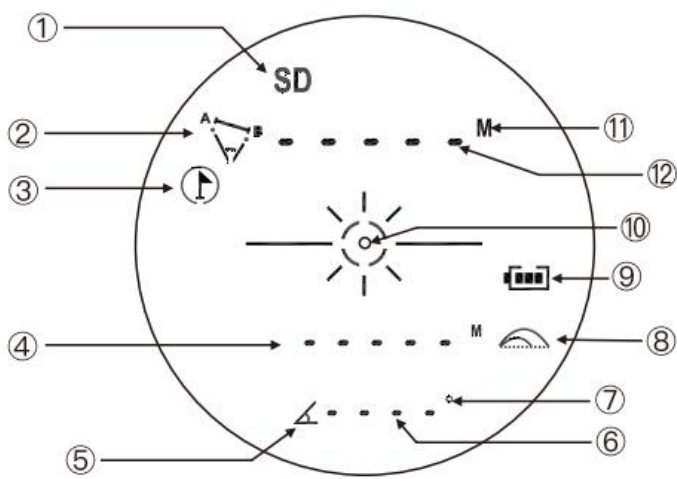
Precautions

- ※Do not touch the surface of the lens with your fingers, so as not to damage the film on the surface of the lens;
- ※The rangefinder is precisely adjusted by the instrument, please do not disassemble it. If it is damaged, it should be sent to a special department for maintenance;
- ※When the exposed glass lens is stained, please wipe it gently with a lens cleaning cloth. Do not use other objects to wipe it, so as not to damage the optical glass surface film;
- ※When carrying or using, avoid collision or heavy pressure, let alone bake or corrode;
- ※Pay attention to moisture-proof when storing. It should be stored in a dry, cool and ventilated place to prevent direct sunlight, dust and sudden changes in temperature;
- ※In case of rain and fog, the round-trip time of the laser will be affected, which may increase the measurement error. When the rain and fog is very serious, it will lead to the deviation of the round-trip trajectory of the laser in the air, and even the measurement value error.



目镜标识说明

- 1、距离符号
- 2、三点测距标识
- 3、旗杆锁定
- 4、坡度补偿值
- 5、角度符号
- 6、角度值
- 7、角度单位
- 8、坡度补偿标识
- 9、电池电量
- 10、靶心标识
- 11、距离单位
- 12、距离值



技术参数

测程范围：	1200 码（1100 米）
最小测量范围：	5 码（4.5 米）
测距精度：	±1 码（<400 码） ±(D*0.3%)码,D 是目标物的距离（≥400 码）
距离单位：	米（m）/码（Yd）
测角范围：	±90°
放大倍率：	7X
物镜直径：	24mm
出瞳距离：	16.7mm
视场角：	7°
电池：	3.7V，800mAh 可充电锂电池
电池寿命：	测量次数>10000 次
液晶屏：	透过式 LCD 屏，透过率≥85%
工作温度：	-10°C~50°C
防水：	IPX6
体积：	114*81*42mm（L*H*W）
重量：	约 230g

基本操作

开关机

短按测量按键设备开机；10 秒无任何操作自动关机。

低电量提示

当电量显示  图标，并闪烁，请及时充电。

屈光度调节

顺时针或逆时针旋转目镜旋钮直至图像清晰对焦，在不同距离观察时可能需稍作调整。

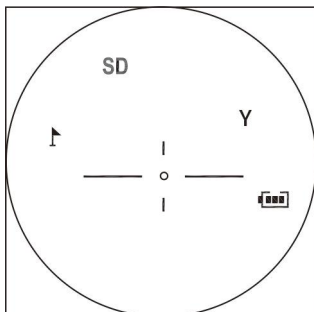


SLOPE 开关

左滑 SLOPE 开关，关闭坡度补偿功能，右滑 SLOPE 开关，打开坡度补偿功能，同时开关下方红色标识显露，提示已打开坡度补偿功能。

出厂默认设置

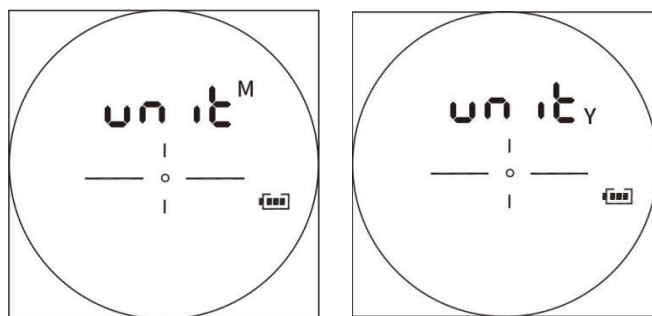
产品出厂默认模式高尔夫模式、单位码、SLOPE 开关关闭。



单位切换

短按测量按键，设备正常开机，长按模式按键 2s 以上进入单位设置界面，长按模式按键退出单位设置界面，设置单位自动保存；在单位设置界面下如果 10s 不做任何操作，设备自动关机。

*在单位切换界面（米/码）下，短按测量按键，可以切换米/码单位；



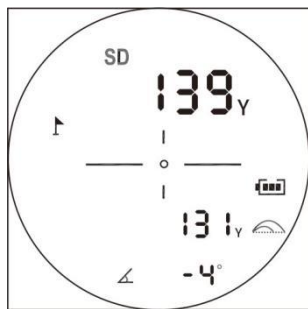
米码单位选择

该产品提供三种测量模式：高尔夫模式、正常测距模式和三点测距模式。

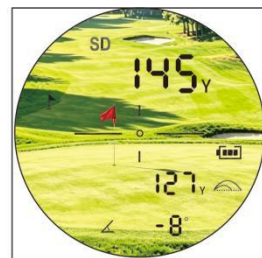
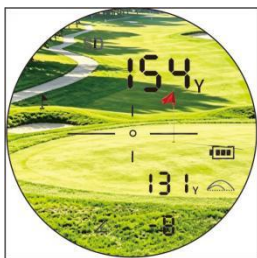
模式选择

高尔夫模式

该设备预设为高尔夫模式，该模式主要应用于高尔夫场景旗帜距离测量，对准旗帜短按测量按键可以快速锁定旗杆距离。当旗杆距离不易锁定时，可以长按测量按键在旗帜周围左右扫描测量，当锁定旗杆距离时，会有振动提示，同时数据锁定为旗杆距离不再更新。当 SLOPE 开关打开时，可以同时显示到旗杆的直线距离、角度以及坡度补偿距离。



单次测量

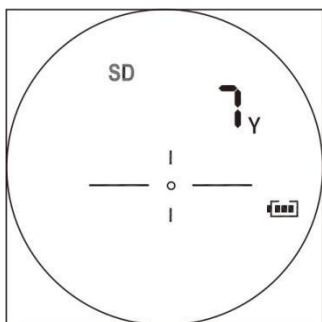


在旗帜周围左右扫描，最终锁定旗帜距离并有振动提示

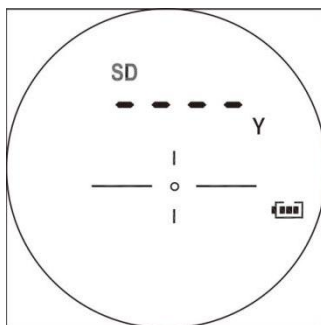
扫描测量

正常测距模式

此模式下，短按测量键，可实现单次测量；长按测量按键，可实现连续测量，可以快速获得目标物的实时距离。正常测距模式主要应用于大目标物的测量。



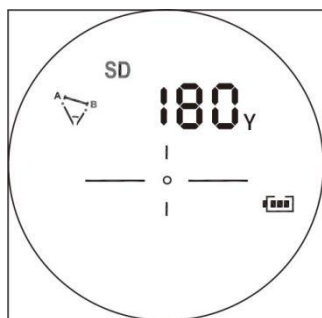
单次测量



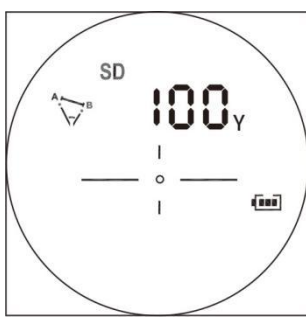
测距失败

三点测距模式

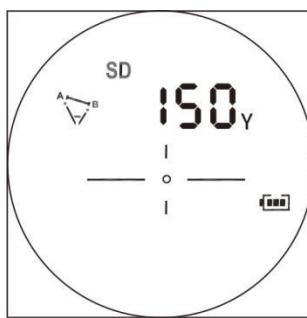
此模式下，A 图标闪烁，对准目标物 A，短按测量按键进行测量，屏幕上方显示到 A 点的直线距离；B 图标闪烁，对准目标物 B，短按测量按键进行测量，屏幕上方显示到 B 点的直线距离；测量完成后，屏幕上方自动显示 A 点与 B 点之间的直线距离。



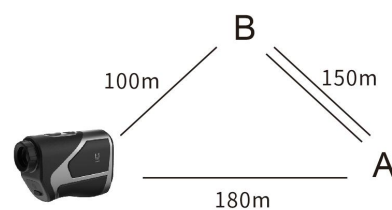
目标物 A 距离



目标物 B 距离



A 与 B 之间的距离



测距工作原理

该产品激光发射镜筒发射一束窄脉冲激光照射目标物体，经过目标物反射回接收镜筒，光电检测单元检测到回波脉冲信号，通过测量激光器发射与回波信号之间的时间差和激光飞行速度，获得距离被测目标物之间的距离。

测距精度受多种因素影响，其中目标物体特性是主要影响因素。

- 雪、雨、雾及空气质量都会影响测距精度；
- 晴天测距比雾天更能提升激光性能；
- 浅色物体的反射效果通常优于深色物体；
- 暗淡或有纹理的表面反射效果不如坚硬光滑的表面；
- 实物（如岩石）的反射效果优于灌木丛；
- 与激光垂直的平面反射效果优于弯曲或倾斜的表面；
- 水面测距可能导致误读；
- 远距离测距时，大型物体比小型物体更易被捕捉；
- 使用三脚架稳定设备，可显著提升远距离小目标的测距精度。
- 若测距困难，可尝试测距附近其他物体，或使用扫描功能来回移动以观察测距变化。

注：太阳负荷条件是检测远程目标时的一个重要因素；在高太阳负荷下，您可能难以检测远处的目标，然而，在阴天或早晨/傍晚条件下，您将能够轻松检测到极远距离的目标。

警示

在发射激光时，请不要凝视发射孔！

通过本设备注视太阳可能对眼睛造成永久损伤！

切勿将本设备直接对准太阳使用，以免对内部组件造成永久性损坏。

避免让目镜受到阳光直射。

不要将本仪器置于超出仪器存储温度的极端温度条件下。

注意事项

※使用时不能用手指触摸镜头表面，以免损坏镜头表面的膜层。

※测距望远镜是经过仪器精确调校的，请勿随意拆卸。如有损坏，应送专门部门进行维修。

※当外露玻璃镜片被玷污时，请用擦镜绒布轻轻擦拭干净即可，切勿用其它物体擦拭，以免损伤光学玻璃表面膜层。

※携带或使用时，应避免碰撞或重压，更不要使其受到烘烤或腐蚀。

※存放时应注意防潮，宜存放在干燥、阴凉、通风的地方，防止太阳直射，避免灰尘和温度突变。

※如遇雨雾天气会对激光往返时间产生影响，可能导致测量误差加大，雨雾天气非常严重时，会导致激光在空气中的往返轨迹偏差，甚至产生测量值错误。