Shot Navi®

Voice Laser GR Leo

Laser Rangefinder for Golf

User Manual

V2504

Introduction

Thank you for purchasing Shot Navi Voice Laser GR Leo (hereinafter referred to as "this product" or “the product”). This product is a laser-based distance measuring device designed to improve your score and play fast.
Before first use, please read this manual and ensure correct and safe use.
After reading, please store it in a place where it can be easily referenced at any time. Unauthorized reproduction of this manual is prohibited.
If you have any questions, please contact the store where you purchased the product.

Table of Contents

Before Using This Product

Introduction	P2
Table of Contents	P2~3
Safety Precautions	P4~5
Warnings/Attentions	P5~6
Maintenance	P6
Before Using on the Golf Course	P6
Contents List	P7
Charging	P7
Parts Names	P8
Screen Display Explanation	P9

Use on Golf Course

Measuring P10

Power On/Off P10

Switching between Meters and Yards P10

Adjusting Brightness P10

Adjusting Focus P11

Measurement Modes P11

① Point Measurement P11

② Pin Seek Measurement P12

③ Scan Measurement P13

④ 3D Measurement P14~15

Measurement Method by Voice P16

Voice commands P16

Turning Height Difference Measurement ON/OFF P17

Slope-Adjusted Distance P18

Bluetooth Functionality P19

Others

Product Specifications P19

FAQ P20

After-Sales Service P21

Warranty P22~23

FCC Warning Statement P24

FCC Radiation Exposure Statement P25

Note P26~27

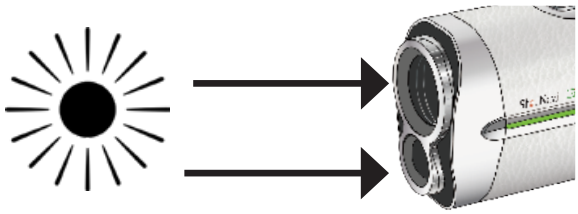
Warranty Card P28

Safety Precautions

To ensure safe use of this product, please follow the safety guidelines outlined below. After reading, keep this user manual safely at hand for future reference. Unauthorized reproduction of this manual is prohibited.

- **Handle with Care:** Avoid dropping or impacting this product. Severe impacts may cause significant damage.
- **Operating Temperature:** The operating temperature range of this product is -10℃ to 50℃ . Avoid using this product in environments with sudden temperature changes, even within the range, as this is a precision instrument.
- **Avoid leaving unattended for a long time:** Do not leave this product in direct sunlight or in extremely hot or cold environments for long periods. This may cause malfunction or deterioration of synthetic materials.
- **Electromagnetic Interference:** Avoid placing this product near equipment that generates strong electromagnetic fields or radiation during use or storage.
- **Long-Term Storage:** When not using this product for an extended period, store it in a cool and dry place. For long-term storage, place this product in a dry box to prevent damage.
- **Do not store this product in following environments:**
  1. In areas with poor ventilation and high humidity
  2. Inside a vehicle exposed to excessive sunlight or extreme temperatures
  3. In environments where humidity exceeds 90%
- **No Disassembly or Modification:** Never disassemble, modify, or attempt to repair this product yourself. Doing so may cause damage to this product and result in exposure to laser beams, which can cause visual impairment. Warranty will is voided.
- **Avoid Extreme Conditions:** Do not use this product in extremely cold, hot, or humid conditions, as this may cause malfunction.
- **Dusty Environments:** Do not use this product in dusty areas, as this can lead to malfunction.
- **Keep Away from Fire:** Do not place this product near fire, as it may cause deformation or malfunction.
- **Water Resistance:** While this product is designed to be water-resistant (equivalent to IPX4), do not intentionally expose it to water or submerge it. If there is moisture around the buttons, wipe it off before operation.

■ **Make sure the charging cover is securely closed before use.**
Note: Do not store or leave with the lens exposed to direct sunlight.



The focusing effect of lens may damage the display.

⚠ Warnings

Please do not do following things as it may cause visual impairment:

■ Do not look into the laser emission port. Exposure to laser light may cause visual impairment.
■ Do not aim the laser at another person's eye.
■ Do not operate the measurement button when this product is not in use.
■ Never disassemble this product.
■ Keep this product out of reach of children.
■ Avoid dropping or impacting this product. If this product starts to make unusual noises, stop using and contact the store where you purchased the product.
■ Do not use this product to look directly at the sun or any other strong light source.

⚠ Attentions

Please do not do following things:

■ Do not use this product underwater.
■ Do not store this product inside a car (inside a caddy bag in a trunk) which is under the blazing sun or exposed to direct sunlight.
■ Do not use or store near heating appliances.
■ Avoid sudden temperature change, as this may cause condensation on the lens.

Note: This product is designed to be waterproof equivalent to IPX4, and handle sweat and short periods of rain during use. However, do not expose it to prolonged rain or immerse it in water. When a drop of water gets on the main unit, wipe off moisture promptly and allow it to dry in the shade.

Note: Storing this product with a depleted battery may result becoming unusable. The battery protection circuit is designed to prevent overcharging or 0 volts, but due to natural discharge, the battery may eventually drop to 0 volts. To prevent this situation, for long-term storage, store this product with the battery charged to approximately 50%.
Do not store this product at full charge, as this can contribute to battery degradation or failure. Do not keep this product connected to a charger for long durations, as overcharging may cause chemical changes, swelling, overheating, or fire.

Maintenance

Remove dust from the main unit using a blower or air duster, or gently wipe it with a soft clean cloth.
As with the main unit, dust on the lens should be lightly wiped with a blower, air duster, or soft clean cloth. For fingerprints and other smudges, wipe with a commercially available lens cleaner, etc. Wiping the lens while dust or dirt is still on the surface may damage the lens.

Before Using on the Golf Course

This product calculates distance by measuring the time it takes for a laser beam to travel to the target and return. The accuracy of the measurement may be affected by environmental factors, such as the color, shape, and material of the target area, as well as weather conditions.

⚠ **Do not use this product to look directly at the sun or any other bright light sources. When the sun is low in the sky in the early morning or at dusk, there is a risk of accidentally looking at it, which can cause damage the device and affect measurement accuracy.**

Contents List

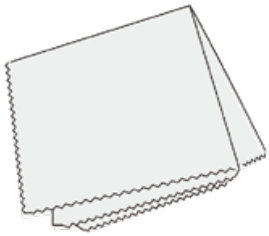
Main Unit

User Manual / Warranty Card

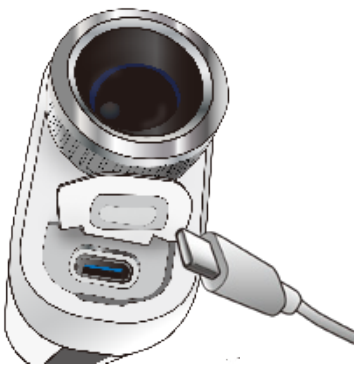
USB Type-C Cable for Charging

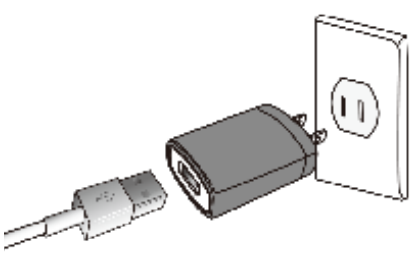
Carrying Case

Lens Cloth



Charging



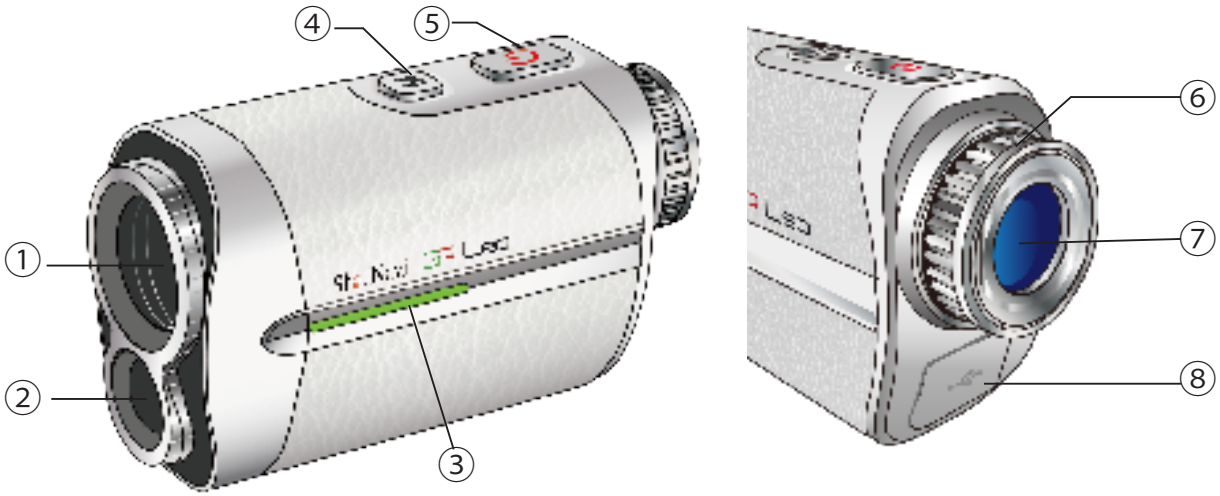


To charge the device:
Open the power cover on the device and plug the USB Type-C terminal (the smaller one) into the USB port.
Connect the USB-A terminal on the other end of the cable to a computer or AC adapter to begin charging.

The LED on the side of the device blinks during charging.
The LED turns on when charging is complete.

Note: AC adapter is sold separately. Please use the following specifications if you prepare your own.
Output: DC 5V, 500~1000mA
Note: Use of a non-standard AC adapter may lead to malfunction or accident.

Parts Names



① 6x Telephoto Lens / Laser Receiver

② Laser emitting unit

⚠ Do not look directly into this part since the laser light can cause visual impairment.

③ LED

- **Unlit:** height difference measurement is ON.
- **Lit (green):** height difference measurement is OFF/charging complete.
- **Blinking (green):** the device is charging.

④ Mode Button

- **Short press:** 3D measurement mode ON/OFF.
- **Long press (about 3 seconds):** height difference measurement ON/OFF.
- **Long press (about 5 seconds):** Bluetooth connection mode ON/OFF.

Note: Bluetooth mode is OFF by default when shipped.

⑤ Power/Measurement Button

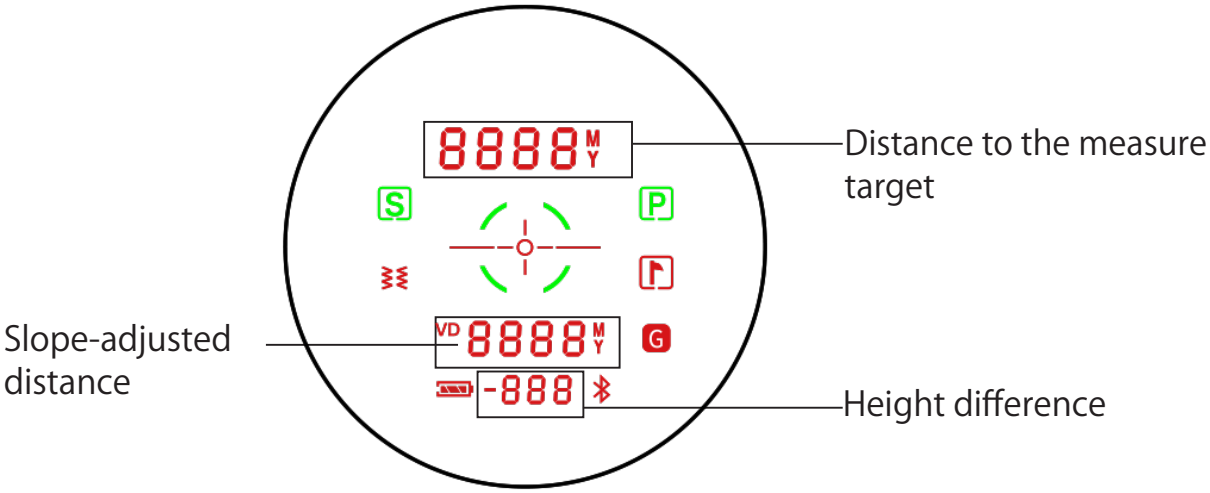
Short press: Turns the power ON.
In power ON mode: Enables point measurement.
Press twice consecutively: Enables scan measurement.
Long press: Enables Pin Seek Measurement (Pin Search).

⑥ Focus Adjustment Ring

⑦ Viewfinder

⑧ Power Cover / USB Port

Screen Display Explanation



Target Mark
Center this mark on the target for measurement.
It flashes during measurement.

Distance Unit:
M: Meter
Y: Yard

Height Difference Mark:
Displays when height difference is ON

Vibration Mark:
This mark displays with the vibration when the pin-seek and scan measurements are completed.

Bluetooth:
Displays when Bluetooth is connected.

Battery Level:
Displays the current battery level.
When , please recharge the device.

Pin Seek Measurement:
Displays when pin seek measurement is active.
Flashes during pin seek measurement and turns on when pin seek measurement is completed.

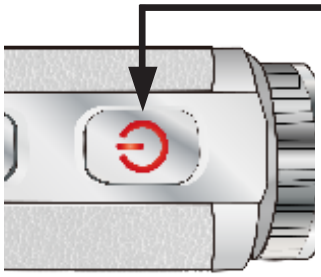
Pin Seek measurement completed:
Displays when Pin Seek measurement is completed.

Scan Measurement:
Displays during scan measurement.
Flashes during scan measurement and turns on when scan measurement is completed.

3D Measurement Mark:
Displays during 3D measurement mode.

Measuring

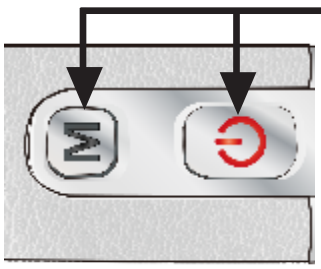
Power ON/OFF



Look through the viewfinder and press the power/ measurement button to turn the power on. When the power is turned on, the display becomes visible in the viewfinder. If no operations are performed for about 10 seconds, the power automatically off turns.

Note: If the display does not appear, please check the battery level.

Switching Between Meters and Yards

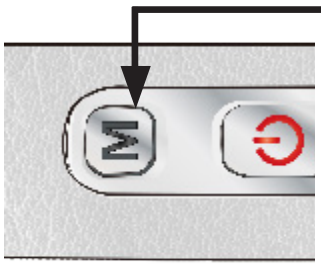


With the power on, press and hold the power/mode button simultaneously for about 2 seconds.

Note: The unit is set to yards (Y) at shipment.

Note: To switch again, press and hold the button in the same way.

Adjusting Brightnes



With the power on, press the mode button twice in succession to adjust the brightness in 4 steps.
Select BR A for automatic adjustment mode.

Repeat adjustment as BR A → 1 → 2 → 3 → 4
The brightness increases in order from BR 1.

Adjusting Focus

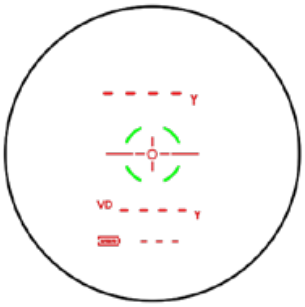
If it is difficult to see, turn the adjustment ring to adjust.

Measurement Modes

In addition to pressing the power/measurement button, measurement operation can also be done by voice. (Page16)

① Point Measurement

This mode allows you to measure the distance to a target aligned with the center of the viewfinder.



1. **Short press** the power/measurement button to turn on the device.
   Align center of the target mark with the desired object and **short press** the power/measurement button again or say "**point mode**" or "**point shot**" to begin the measurement.

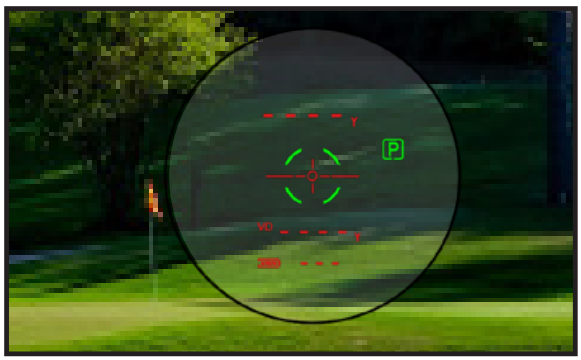
2. The measured distance is displayed.

Note: If the pin flag cannot be measured accurately, please refer to the "Pin Seek Measurement" described on page 12.

Note: Please refer to page 18 for information on the slope-adjusted distance considering height difference.

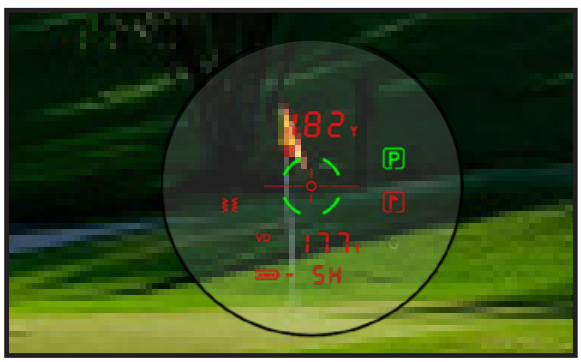
② Pin Seek Measurement (Pin Search Assistance)

This function helps you locate the pin flag when it is difficult to align the sight with it. When searching for a target in front of the initially measured object, the device notifies you of measurement completion with a vibration.



1. **Short press** the power/measurement button to turn on the device. Aim at an object beyond the pin flag and press and hold the power/measurement button or say "**pin finder**" or "**pin seeker**" to begin measurement.

2. [P] blinks during measurement. Once a provisional distance is displayed, slowly move the crosshairs towards the pin flag.



3. When the crosshairs are aligned with the pin flag, [⚑] and [≋] display, and [P] turns on with vibration to indicate measurement completion. The displayed distance is the distance to the pin flag.

Note: If a non-pin flag target is measured, restart the measurement.

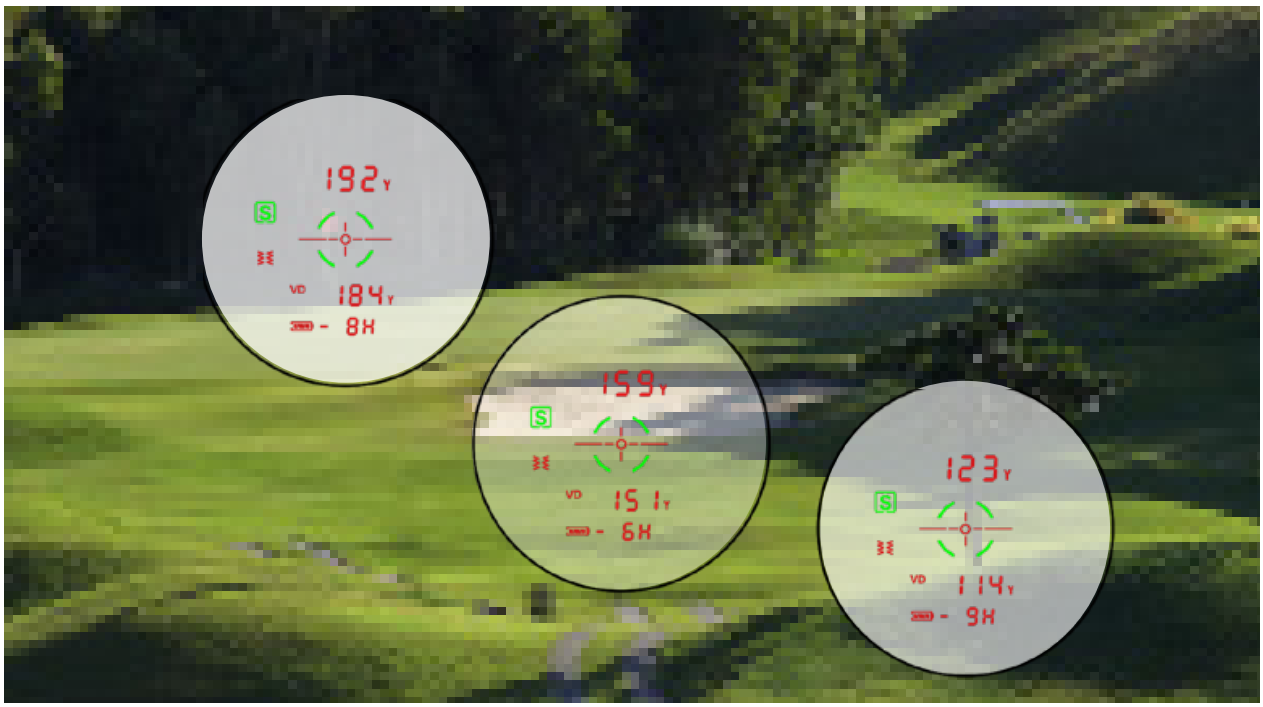
Note: Pin seek function may not work properly when the battery is low.

Note: This function works when the front (pin flag) and back targets are more than 5 meters apart.

Note: When the pin flag is more than 250 yards away, pin seek measurement may not work properly.

③ Scan Measurement

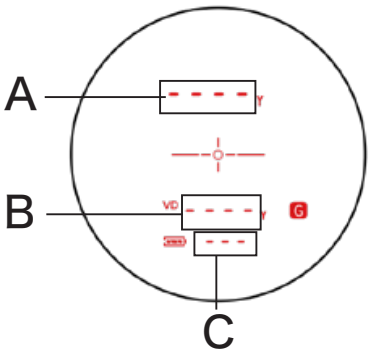
This function is useful when you want to measure the distance to multiple targets such as bunkers, creeks, or trees simultaneously.



1. **Short press** the power/measurement button to turn on the device. Aim at the target and quickly **short press** the power/measurement button twice or say "**scan mode**" or "**scan start**" to begin measuring.
2. The device continuously measures the distance to targets for about 10 seconds.
3. S blinks while measuring. After 10 seconds or upon short pressing the power/measurement button again, displays and S turns on with vibration to indicate measurement completion.

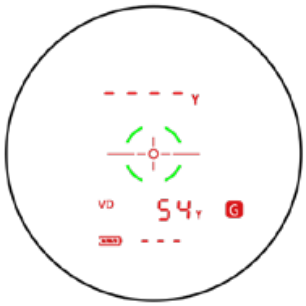
④ 3D Measurement

3D Measurement allows you to measure the distance from the ball to the pin flag even when you are in a cart. This feature provides great convenience: By knowing the distance in advance, you can select a club that matches the remaining distance before moving to the ball position.

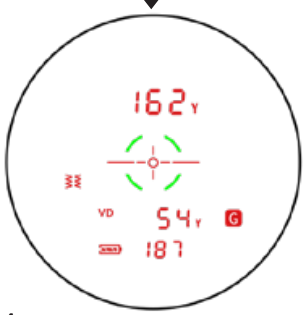


1. S**hort press** the power/measurement button to turn on the device.
   Short press the mode button or say "**3D mode**" or "**3D start**" to switch to 3D measurement.
   Once the mode has been switched, G turns on and **B** flashes.

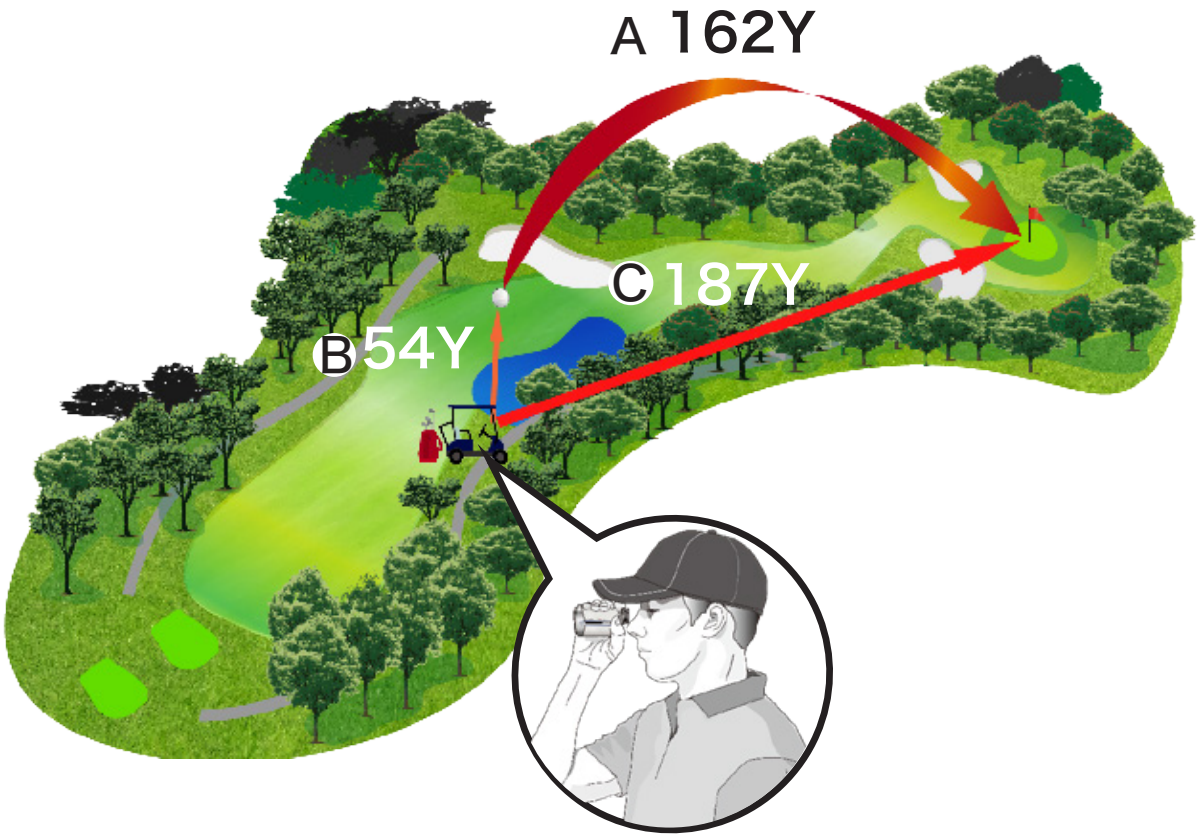
A: Distance from the ball to the pin flag (3D measurement distance)
B: Distance from the current location to the ball
C: Distance from the current location to the pin flag



2. While measuring, G flashes.
   First, aim at the ball and either **short press** the power/measurement button (point measurement page 11) or say "**ball finder**" or "**ball capture**" to measure the distance to the ball.
   Once the measurement is complete, the distance is displayed in **B** and G turns on.



3. When **C** blinks, you can start measure the distance to the pin flag. While measuring, G flashes.
   Press and hold the power/measurement button (pin seek measurement page 12) or say "**pin finder**" or "**pin seeker**" to measure the distance to the pin flag.
   Once the crosshairs align with the pin flag, turns on and the distance to the pin is displayed in **C**.
   Afterward, 3D measurement distance (distance from the ball to the pin flag) is displayed in **A**.



Note: If a non-pin flag target is measured, restart the measurement.
Note: 3D measurement mode cannot be used when height difference is off.
Note:To exit 3D measurement mode, press shortly the mode button again.

[When measuring the distance to the pin flag]
Note: Pin seek function may not work properly when the battery is low.
Note: This function works when the front (pin flag) and back targets are more than 5 meters apart.
Note: If the pin flag is more than 250 yards away, Pin Seek measurement may not work properly.

Measurement Method by Voice

Press the power/measurement button and look through the viewfinder to turn to ensure the device is powered on and give the voice commands according to the measurement content.
You can use voice commands to initiate measurements, helping to reduce laser rangefinder shake and ensure smoother measurements.

Voice Commands

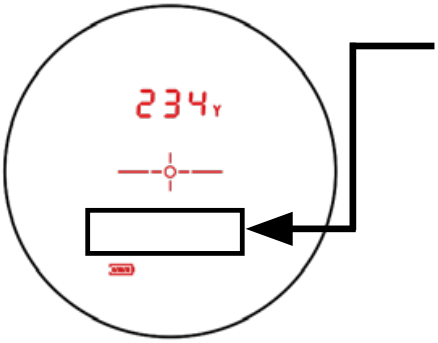
The voice instructions for measurement are as follows:

Measurement Type	Voice Command
Point Measurement (Page11)	"point mode" or "point shot
Pin Seek Measurement (Page12)	"pin finder" or "pin seeker"
Scan Measurement (Page13)	"scan mode" or "scan start"
3D Measurement Mode (Page14)	"3D mode" or "3D start"
Ball Measurement (Page14)	"ball finder" or "ball capture
Pin Measurement (Page14)	"pin finder" or "pin seeker"

Note: After ensuring the device is powered on (by checking the viewfinder), take a moment and clearly speak the voice command.

Turning Height Difference Measurement ON/OFF

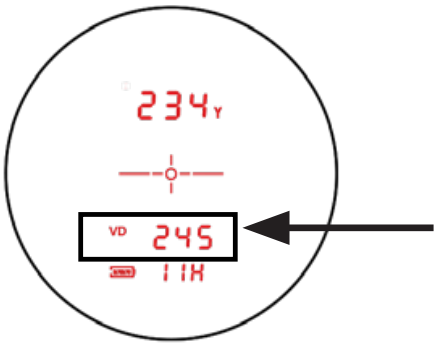
Height Difference Measurement OFF



When participating in competitions etc. where height difference measurement is not allowed, you can turn this feature off. While the device is powered on, **press and hold** the mode button for approximately 3 seconds. Height difference and slope-adjusted distance display is hidden.

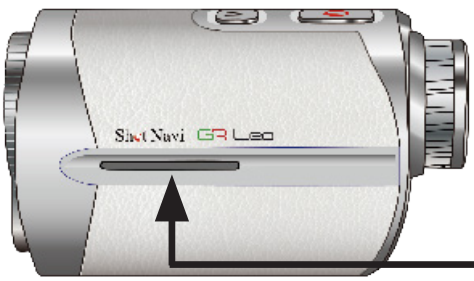
The LED indicator turns on when height difference measurement is OFF, signaling that height difference is not being measured.

Height Difference Measurement ON



To return height difference measurement to on, **press and hold** the mode button for about 3 seconds while the device is powered on.
The height difference, slope-adjusted distance and height difference marks is displayed.

Note: The device is set to have slope measurement ON by default when shipped.

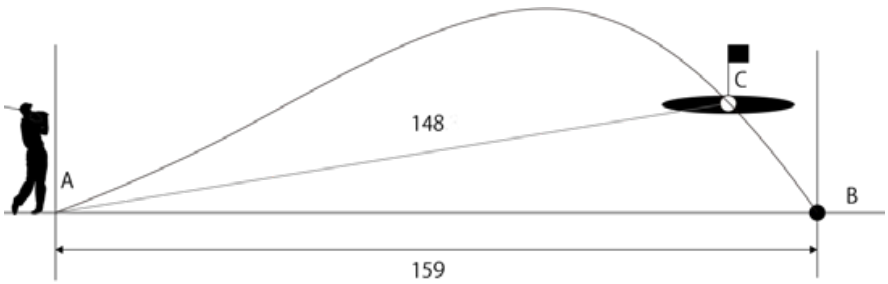


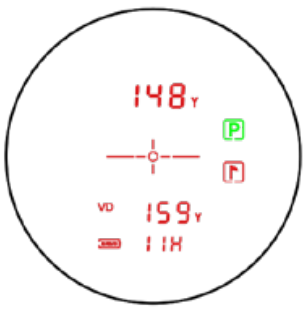
The LED is unlit when the height difference measurement is turned on.

Slope-Adjusted Distance

Uphill Example

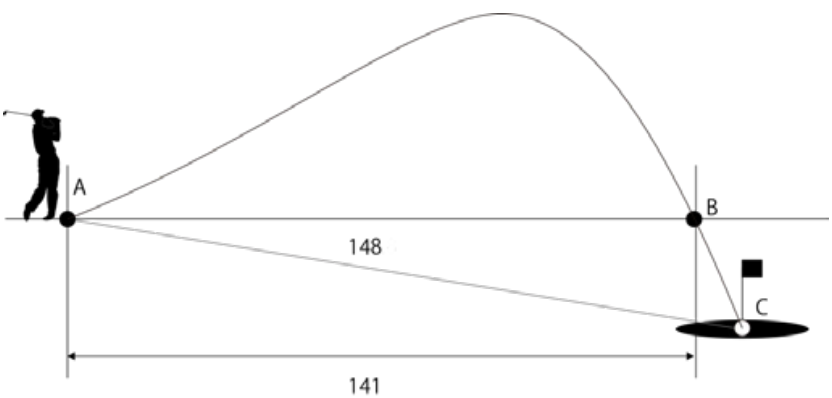
If you hit based on the straight-line distance (AC = 148 yards), the ball may not reach the pin due to the uphill slope. To reach the pin, you need to hit based on the horizontal distance (AB = 159 yards). This product automatically displays both AC (straight-line distance) and AB (slope-adjusted distance).

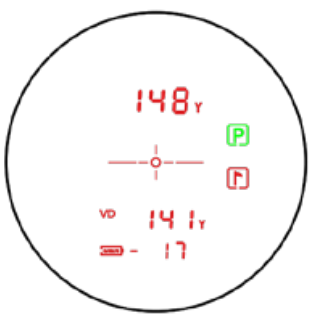




Downhill Example:

If you hit based on the straight-line distance (AC = 148 yards), your ball overshoots the pin due to the downhill slope. To reach the pin, you need to hit based on the horizontal distance (AB = 141 yards). This product automatically displays both AC (straight-line distance) and AB (slope-adjusted distance).





Note: When height difference measurement is OFF, height difference and slope-adjusted distance is not displayed.

Bluetooth Functionality

For instructions on using Bluetooth function, please refer to the product page.

https://shotnavi.jp/snp/voicelaser/grleo/bluetooth.php

Product Specifications

External Dimensions: 98.4 x 57.7 x 34 mm
Main Unit Weight: 138g
Battery: Lithium polymer battery (standard USB Type-C)
Charging Time: Approximately 2 hours
Note: Number of uses on a full charge: approximately 16,000 point measurements. ※
Measurement Range: 5~1000 yards (5~914 meters)
Measurement Accuracy: ± 1 meter
Magnification: 6x
Laser Classification: IEC 60825-1 Class 1M Laser Product
Lens Diameter: 20 mm
Operating Temperature: -10℃ ~50℃
Storage Temperature: -10℃ ~50℃
Water Resistance: Equivalent to IPX4 (splash-proof level)

Note: The number of uses may vary depending on voice measurement and measurement method (scan, pin seek, 3D measurement).
The number of uses decreases with years of use and frequency of use (aging).

FAQ (Frequently Asked Questions)

Q. The device won't turn on:

A. • Ensure the battery is sufficiently charged.
• Confirm you press the power/measurement button correctly.

Q. The distance measurement seems incorrect.

A. • Make sure the lens is clean.
• Make sure that the target is properly aligned with the crosshairs.
• Check if the measurement results are not correct after changing the target.

Note: Laser distance measurements are calculated based on the time it takes for the laser to reflect off a target. The following conditions may affect accuracy.

■ In case of rain or fog.
■ When it is difficult to aim the laser at a target object (e.g., target object is small or thin).
■ When the laser does not bounce back well from the target object (e.g., target object is black, complex shape or curved surface, water surface, glass surface, mirror surface, etc.).
■ When sunlight enters the lens directly, such as when the sun is low in the sky and backlit.

⚠ **Avoid looking directly at the sun or its surroundings for eye protection.**

After-Sales Service

If the product malfunctions under normal use as outlined in the instruction manual, it is repaired or replaced free of charge within one year of the purchase date. If repair or replacement is necessary, please bring the product and the warranty card to the store where it was purchased. We provide after-sales service to our customers in accordance with the following. Please agree to these regulations before requesting after-sales service.

1. Repair and replacement policy

1. Items sent with the defective product may not be returned. Please remove any items that were installed after the customer purchased the product before sending it to us.
2. Products sent to us are repaired or replaced at our discretion. In the interest of environmental protection, we may use recycled parts for repair or replacement.
3. The specifications of the product and its accessories may be subject to change.
4. Our repair service is available only within the country where you purchased the product.

2. In the event of a repair refusal

1. In the case of improper repairs, disassembly, or modification.
2. Products that are believed to have been damaged during transport due to insufficient packaging.
3. If the damage is severe and the company determines that repair would not be able to maintain functionality.
4. If water ingress or signs of water damage are found on the product, such as from submersion.

3. Repair fees

After the warranty period, after-sales service incurs a charge. For detailed pricing, please contact to the store where it was purchased

Warranty

1 If the product malfunctions within the warranty period under proper use in accordance with the instructions in the manual, it is repaired or replaced free of charge.

A.To request an inspection, please bring and present the equipment and this manual to the store where you purchased it.

B. Support is limited to the country where the product was purchased

2 Even within the warranty period, the following cases results in a paid repair or replacement.

A. Malfunctions or damage caused by misuse, unauthorized repairs, or modifications.

B. Malfunctions or damage caused by transport and drops after purchase.

C. Malfunctions or damage caused by fire, earthquakes, water damage, lightning, or other natural disasters, abnormal voltage, or the use of an inappropriate power source.

D. Malfunctions due to strong shocks (dropping, twisting, crushing, etc.).

E. Replacement of consumable parts and accessories.

F. Malfunctions due to leaving the product in abnormally high temperatures (such as on the vehicle's dashboard, in the trunk, or under direct sunlight) or in extremely low temperatures.

G. Malfunctions due to water damage, such as exposure to rain.

H. Scratches or other changes in appearance that occur during use.

I. If the warranty card is not presented, if the required information (such as date of purchase, customer name, and dealer name) is not filled in, or if it has been altered.

J. Products purchased through auctions or personal transactions are not covered by the warranty.

3 The warranty is valid only within the country where you purchased the product. Please keep the warranty card in a safe place as it is not reissued.

Note: If the product is damaged due to dropping, being stepped on, run over by a cart, struck by an object, or subjected to pressure from being carried in a pocket, repair costs is charged.

Note: We may use the personal information (warranty certificate copy) provided by you for purposes such as free repairs during the warranty period and subsequent safety inspection activities.

4 Important Notes Regarding Global Support.

A. Repairs for a product are generally carried out in the country where you purchased it.

B. There may be restrictions on shipping and handling repaired items to other countries. Please contact the store where you purchased the product for more information.

Note: This warranty shall be valid only within the country where you purchased the product. For sale and use in the country only. Commercial use and rental prohibited.

FCC Warning Statemen

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1)This device may not cause harmful interference.
(2)This device must accept any interference received, including interference that may cause undesired operation.