



# FLAGMASTER™ 1800

## Rangefinder

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Instruction for use / Guarantee

# About GPO

## ABOUT GPO

GPO, German-Precision-Optics is an international company that creates and sells premium outdoor sporting optics to avid outdoor enthusiasts who seek high-quality premium optics for their sport. GPO GmbH, the global headquarters based in Munich, Germany, and GPO USA, the American headquarters based in Virginia, are geographically structured to supply the global market with some of the best sporting optics in the world. Together, GPO, GmbH and GPO, USA design, engineer, produce, and distribute optics that meet the highest specifications in all the products' price and class segments. GPO prides itself in employing some of the most intelligent, talented, and creative German engineers in the world who possess the skills to ensure that all GPO optics have premium quality and unique features.

## THE GPO PLEDGE

We at GPO strive to bring you the best premium product line at the absolute best quality and price ratios in the industry. We will not invest in extreme infrastructures and force consumers to pay for it. We will not invest in making a product that gives you unnoticeably better performance for a disproportional increase in price. We will not drive up pricing to pay for extravagant marketing campaigns. We are focused on bringing quality features to our customers for reasonable prices. We will not mislead our customers; our reputation of a lifetime in the sports optics industry ensures this. When it comes to your next optical purchase, trust in GPO. You will not be disappointed.

Enjoy your PASSION™

# ENGLISH

## Safety Instructions



Please read these safety instructions carefully and follow these guidelines when using the product.



Never look directly into the sun, any bright light sources or laser based light sources through your optical product. This can cause irreparable eye damage. Optics in riflescopes function as a magnifying glass, therefore dramatically increasing the intensity of the light source.



Store the riflescope and accessories included with the FLAGMASTER™ out of reach of children. Some of our products may contain small parts which could create a choking hazard for small children, or nylon straps which could create a strangulation hazard. Be cautious when touching metal parts



when the product has been stationary and extensively exposed to the sun or the freezing cold, as extremely hot or frozen metal components may cause an injury to the skin.

Avoid improper shock, such as dropping this product. It is an optical instrument and damage may occur.



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# **Congratulations on the purchase of your FLAGMASTER™ with PinFinder™ and SLOPE Technology.**

The new FLAGMASTER™ is a precision optical instrument to accurately and quickly measure distances on any golf course under any conditions. This guide will describe the functions of the rangefinder and explain the use of the individual technologies to help improve your golf game. Please review the instructions carefully to get the most out of your new product.

## **INTRODUCTION**

Your FLAGMASTER™ is designed to meet all your golf laser rangefinding needs. In the development of the FLAGMASTER™, emphasis was placed on intuitive user-friendliness. The integrated PinFinder™ and SLOPE technology combined with one of the fastest laser- rangefinding systems on the market and excellent optical quality allows you to focus on the essentials.

The FLAGMASTER™ is extremely compact and designed for one-hand operation with a soft touch finish for confident handling. The eyepiece has an



integral diopter adjustment to adapt to any user. The FLAGMASTER™ has a 6x magnification and measures distance from 6 - 1,800 yards, depending on the environmental conditions, and features PinFinder™ technology to confirm when exact distance to the flag.

## CAUTION

### Safety precautions and hazard warnings

- Never operate the laser measurement (Range Button) when people are in the direct field of view of the laser.
- Never operate the laser measurement (Range Button) in the direction of your own eye or people around you.
- Never look with the FLAGMASTER™ into the sun or other bright light sources.
- Do not let the product get in the hands of children.
- Never open the device.
- Never modify the device electronics.
- Do not use a battery other than the specified CR2 battery.

- A - Power/Range Button
- B - Diopter Adjustment
- C - Battery compartment
- D - Legal/illegal indicator
- E - Mode Button



## KEY FEATURES

- 6x20 mm monocular laser range finder with anti-reflective coating of optics for increased light transmission
- Innovative one-hand operation and SpeedFocus™ eyepiece
- PinFinder™ technology
- SLOPE technology for determining the angle modified distance when ranging targets at different angles
- One of the fastest laser rangefinding systems with a scan rate of 3 measurements per second
- Measuring units in meters and yards
- High Transmission Display (HLCD) for maximum light transmission in any environment
- Compact and lightweight case with soft-touch coating and rubber grips
- Legal and illegal indicator for tournaments (Illegal = red visible LED display)

## **FUNCTIONALITY**

The FLAGMASTER™ uses an infrared laser and detector to accurately determine the range to a target. By emitting a series of eye-safe laser pulses and then determining the time it takes for those pulses to travel to and return from the target, the FLAGMASTER™ can calculate an exact distance. The rangefinder system leverages advanced algorithms running within the digital signal processor to improve range performance and extend the maximum range performance of the device.

## **MEASURING ACCURACY AND TARGET TEXT**

Under normal conditions, the measurement accuracy is +/-1 yards up to a distance of 1,000 yards. From a distance of 1,000 yards to 1,800 yards, the measurement accuracy is +/-2 yards. The measurement accuracy and distance depends largely on the reflectivity of the target and the environmental conditions at the time of the measurement. Depending on the reflectivity of the target and environmental conditions, the maximum distance and measurement accuracy

may vary. Color, surface texture, size, shape, fog, rain, measurement angle and scattered light influence the measurement positively or negatively.

Target color shiny surfaces = high reflection properties

Target color black = low reflection properties

Sunshine = shorter range

Covered sky = longer range

## Distance Measurement and Performance in Hyperscan Mode

Target Type	Measuring Distance
High-grade retro-reflectors and prisms	Up to 1,800 yards
Grass and Trees	Up to 700 yards
Flag	Up to 500 yards

## SET-UP AND INITIAL USE

### Insert and replacing the battery

The package includes a CR2 battery. Remove the battery from the packaging. Flip up one half of the battery cover. With this lever you turn the battery compartment counterclockwise to open the battery compartment. Insert the CR2 3-Volt lithium battery with the negative contact facing into the battery compartment. Close the battery compartment with the battery cover, turning clockwise. Hand-tighten the battery cover and fold the clip back to its starting position. Be careful not to over tighten because the battery cap can break the flip lever. If the battery cap is not installed properly the battery compartment may not seal properly.

Please check the battery every 3 months to prevent battery leakage.

Most CR-2 batteries will run for several years in your rangefinder; however we recommend replacing the battery every year. Please always dispose of the battery in designated containers or dispensing stations (see details in chapter „Disposal of electrical and electronic equipment“).



## SETTING THE EYEPIECE

The FLAGMASTER™ is equipped with a SpeedFocus™-diopter adjustment. This is located near the eyepiece. The eyepiece adjustment can be set between +/- 3 diopters. Look through the eyepiece and rotate the SpeedFocus™ by turning the focus wheel in the + or - direction, depending on your personal eye prescription. Rotate the SpeedFocus™ for best focus of the display in relation to the image so that you can clearly resolve both objects at the same time.





## CONNECTING THE STRAP

Your FLAGMASTER™ comes with a lanyard or retaining strap. This strap ensures safe handling of the product.

Guide the thin end of the strap loop through the strap connection on your FLAGMASTER™. Slide the thicker end through the loop of the thin end and tighten the strap. With the slider button you can change the loop size that fits in your wrist. Please do not pull the loop too tightly to avoid injury.

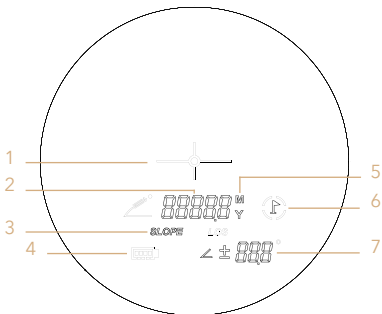


## DISPLAY AND SYMBOLS

- 1 - Target point. This is the point at which the object is targeted to determine the distance
- 2 - Distance Display
- 3 - LOS or SLOPE Section and Selection
- 4 - Battery Status Indicator
- 5 - M or Y setting
- 6 - PinFinder™
- 7 - Display Angle

The HD display shows you the target point, the unit of measurement in meters or yards, the SLOPE and the current battery status.

After activation from sleep mode you will see all available information on the display. To activate the measurement simply press the Range button. The FLAGMASTER™ measures the distance and displays this for 10 seconds. To avoid confusion, you only see the target point and the measured distance.



## DIFFERENT SETTINGS (MODES)

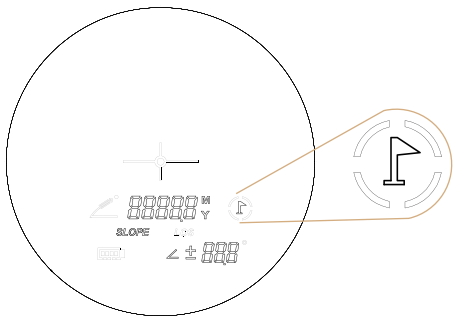
Our goal was to provide you with the most intuitive operation, but still to integrate all relevant modes. In summary, you can set and select the following modes for your FLAGMASTER™:

- Line of Sight or SLOPE mode. In SLOPE mode the legal indicator will be turned on and should not be used when prohibited in tournament play
- Unit of measure in meters or yards
- PinFinder™ vibration on or off

## PinFinder™

Your FLAGMASTER™ has a PinFinder™ which allows you to specifically range the flag. Some courses use a retroreflector or prism mounted on the top of the pin. In PinFinder™ mode you will see the flag symbol on the display. Move the target or aiming point of the display towards the flag or top of the pin and you will feel a vibration if the vibration is active.

Press and hold the Range button (A) (your FLAGMASTER™ will automatically enter Scan mode). Carefully move the aiming point over the flag or prism to while the Range Button is held down. If you have locked in on the flag or prism a circle will appear around the flag icon and you will feel a vibration if the vibration is active and in the display confirming you have a pin lock. Upon release of the range button, the distance will be displayed for 10 seconds.



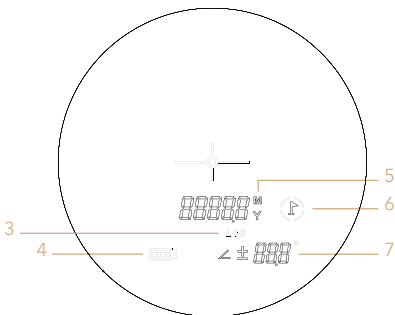
## SCAN MODE

Your FLAGMASTER™ gives you the option of single range measurement or scan mode. For a single distance measurement, aim the rangefinder at the intended target then press and release the range button. For scan mode, aim the rangefinder and press and hold the range button - the device will scan for up to 20 seconds providing 3 updates per second. Scan mode is useful for ranging distance targets or when the flag is blowing in the wind. Upon release of the range button the last, best range result will be displayed for 10 seconds.

## SETUP AND SETTINGS

1. Press and release RANGE button (A) to turn on LRF. The default status is: LOS (3) mode is ON, yards unit of measure (5), Angle (7), Pin and Battery indicator (4) are shown for the first 2 seconds after wakeup and then only range, unit of measure, angle and the pin (battery indicator and LOS disappears).





Rangefinder display is on for 10 seconds, or until the RANGE or MODE button is pressed. If not, button is pressed the rangefinder times out after 10 seconds.

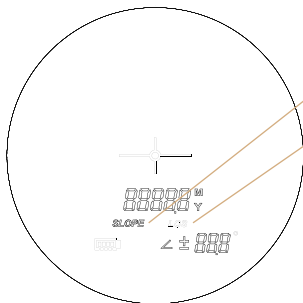
From the ON state (LRF is awake), press and hold MODE (E) button for > 2 seconds to enter Programming Mode.

## 2. LOS AND SLOPE SETUP

LOS (6) is blinking. Press RANGE button (A) to toggle between LOS and SLOPE mode. When your desired mode is blinking, press and release MODE (E) button to save and index to the next step.







*SLOPE*

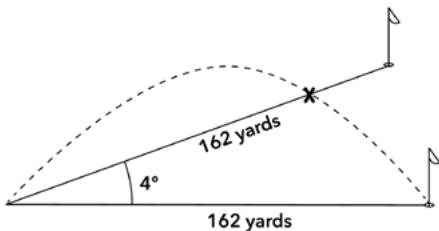
*LOS*

## Line of Sight (LOS) mode or SLOPE setting

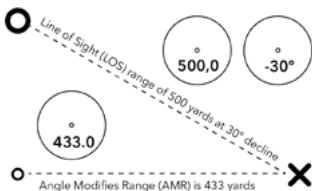
You can set the FLAGMASTER™ via a preset, step by step menu.

Press the Range button to activate the FLAGMASTER™. Then press the Mode button for 2 seconds. The display will show LOS = Line of Sight (flashing). LOS is the currently set mode. To change this to SLOPE = press the Range button and you will see SLOPE displayed. Press the Mode button again to save the set value.

Your FLAGMASTER™ offers you 2 different ways of determining distance. The first one is LOS (Line of Sight). The LOS mode measures the direct distance to a target without consideration of an angle. The SLOPE tells you the equivalent horizontal distance (or angle modified distance) with consideration of the angle.



Example:  
LOS Range of 500  
yards. 30° decline  
equals to an AMR of  
433 yards

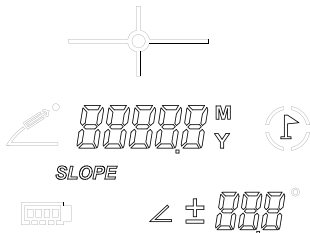


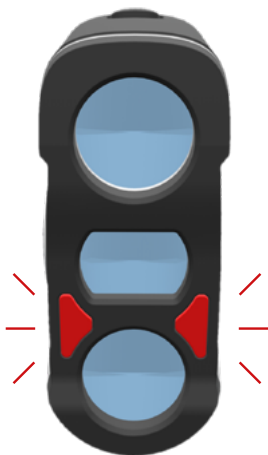
## INFORMATON ABOUT SLOPE

Your FLAGMASTER™ has a built-in tilt sensor that determines the exact tilt angle up to  $\pm 60$  degrees. Your FLAGMASTER™ automatically calculates the adjusted distance based on the measured distance and angle. When your FLAGMASTER™ is in the LOS (Line of Sight) mode, you will be alternately shown a distance of 500 meters and the measured angle. If the FLAGMASTER™ is in the SLOPE mode, the adjusted distance of 433 meters is displayed, taking into account a 30° angle.

## Setting the SLOPE indicator

Some official tournaments do not allow the use of the SLOPE mode. Your FLAGMASTER™ allows you to disable this mode. After pressing the mode button the setup menu is activated. There you can choose between SLOPE ON or OFF. If SLOPE is enabled, you will see the adjusted distance. If the SLOPE mode is disabled, it will not be available. In addition, you and the official in front of the FLAGMASTER™ will see two red flashing triangles showing the activated SLOPE mode. To turn on the SLOPE, repeat until SLOPE ON is displayed. Confirm this with the Mode button.



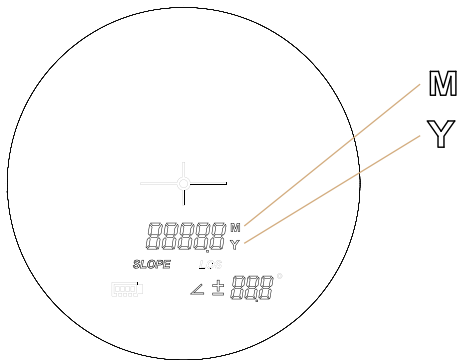


In SLOPE mode, the red LEDs on the faceplate will flash during ranging.

### 3. METER AND YARD SETUP

Y (5) is blinking. Press RANGE button (A) to toggle between M and Y (5). When your desired unit of measure is blinking, press and release MODE button (E) to save settings and jump into vibration settings.



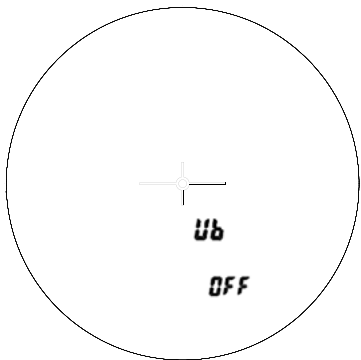


## 4. VIBRATION SETUP

VB ON is blinking. Press RANGE button (A) to toggle between Vibration ON and Vibration OFF. When your desired unit of measure blinking, press and release MODE button (E) to save settings and jump to the next setting.





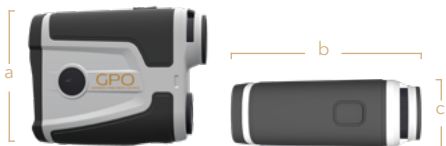


## FLAGMASTER SPECIFICATION SHEET

Magnification	6x
Objective Diameter	20 mm
Exit Pupil	3,33 mm
Eye Relief	16 mm
Diopter Correction	+3
Field of View at 100 Yards	7,5°
Laser Response Time	0,33 Seconds
ScanMode	Yes
Length	94 mm
Width	33 mm
Height	76 mm
Weight	148 g
Measurements per Battery CR2	4.000
Battery Type	CR2 Lithium
Minimum Range	6 yards
Maximum Range (Reflective Object)	1.800 yards
Range Trees and Grass	700 yards
Range Flag	500 yards
6 - 1,000 yards Measurement Accuracy	+1
1,000 - 1,800 yards Measurement Accuracy	+2
Laser Class (Eye Safe)	1M
Angle Sensor	+/- 60°

## DIMENSIONS

a - 75,7 mm | b - 94,0 mm | c - 33,8 mm



## Care, cleaning and maintenance

The cleaning of the optics can be done by means of an optical cleaning cloth. Always keep the optical surfaces clean and remove dirt, finger oils or water stains immediately to ensure a lasting performance. For cleaning, breathe on the optical surfaces lightly and then use the optical cleaning cloth around the contaminants to clean the lens surfaces. Please note that coarse dirt particles should be removed by either blowing them away or with a clean hair brush; otherwise you may scratch the surface of the lenses. All external mechanical components as well as the rubber armoring may be cleaned with a soft, clean and slightly moistened cleaning cloth. Please do not use the optical cleaning cloth to clean the outer components and rubber armor.

## **Storage**

Keep your FLAGMASTER after use dry and in a well-ventilated place. If you use your product in a high humidity area, please store your product in an airtight container with moisture absorbent to reduce potential fungal contamination.

## **Spare parts supply**

If you need spare parts or accessories for your FLAGMASTER™, please contact a specialist dealer or GPO GmbH & Co. KG.  
GERMANY

## **WARNING**

CLASS 1M LASER PRODUCT WITH INVISIBLE LASER RADIATION - AVOID DIRECT EYE EXPOSURE

This product complies with IEC 60825-1:2014-05 Ed 3.0 and complies with the FDA standard for laser products, except as noted in Laser Note No. 50 of June 24, 2007

$P_o < 10W, \lambda = 905 \text{ nm}, t = 22 \text{ ns}$

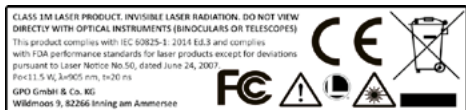


This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. The device could interfere with wireless communication. However, there is no guarantee of interference. If this product causes radio or television interference, the user may try to correct the interference by one or more of the following solutions:

- Reorient the receiving antenna
  - Increase the distance between this product and the receiver
  - Connect the device to an alternative power outlet or alternative receiver
- Consult a technician.

To comply with the limits, use a shielded interference cable with the equipment in accordance with Part B of Part 15 of the FCC Rules. Specifications and designs are subject to change without notice from the manufacturer.

Update with warning sticker. Should show Class 1M



## **DISPOSAL OF ELECTRICAL AND ELECTRONIC EQUIPMENT (Waste disposal)**

This device contains electrical and / or electronic components and must therefore not be disposed of in normal household waste. Instead, it should be handed in at the appropriate community recycling centers. This does not cost you anything. If the equipment contains replaceable (rechargeable) batteries, they must first be taken out and, if necessary, disposed of in accordance with applicable regulations (see also the notes in the manual of this product).

More information on this topic can be obtained from your local council, your local waste management company or the shop where you purchased your equipment.

GPO GmbH WEEE-Reg.-Nr.: DE 335292484

## GUARANTEE

Your FLAGMASTER™ has a two-year warranty from the date of purchase to be free from defects in material and workmanship. If there is a defect in the warranty, we will repair or replace the product at our discretion. This warranty does not cover damage caused by improper use, improper handling, or service performed by someone other than GPO GmbH & Co. KG authorized after-sales service.

Any returns under this warranty must be accompanied by the following items or information:

2. Name, address and daytime telephone number.
3. A description of the problem.
4. A copy of your proof of purchase with date.

Do not send any accessories (batteries, case, strap, etc.), only the product to be repaired.

The product should be packaged well, in a durable shipping box to avoid damage during transport and shipped to the following address:

In the USA:

### **GPO USA**

11303 Whistlewood Ct.  
Midlothian, VA 23113  
Toll Free: 844-MY-BINOS (692-4667)  
804-495-8561 (T)  
804-495-8560 (F)  
[info@gpo-usa.com](mailto:info@gpo-usa.com)

In Europe and International:

### **GPO GmbH**

Wildmoos 9  
82266 Inning am Ammersee  
Germany  
+49 (0) 8143-99 20 870  
[info@gp-optics.com](mailto:info@gp-optics.com)

## **GPO GmbH**

Wildmoos 9

82266 Inning am Ammersee

Tel.: +49 (0) 8142 99 20 87 0

Fax.: +49 (0) 8142 99 20 87 9

Email: [gp-optics.com](mailto:gp-optics.com)

[www.gp-optics.com](http://www.gp-optics.com)

Reg.Nr.: DE 335292484