



RifleHunter 550 / RifleHunter 550 MAX-1 / Archer's Choice



Instruction Manual / Mode d'emploi



Laser Rangefinder

Thank you for purchasing the Nikon RifleHunter / Archer's Choice.

This high-spec laser rangefinder features a new angle measurement function in addition to the existing linear distance measurement function for enhanced enjoyment of sports and other outdoor applications. (The Nikon RifleHunter / Archer's Choice is also able to measure the horizontal distance to a target.)

Please observe the following guidelines strictly so you can use the equipment properly and avoid potentially hazardous problems. Before using this product, read thoroughly the "SAFETY PRECAUTIONS" and instructions on correct usage accompanying the product.

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. Keep this manual within reach for easy reference.

- Specifications and design are subject to change without notice.
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Key Features

- Linear distance measurement range: 10-500 meters/11-550 yards (RifleHunter), 4.5-91.5 meters/5-100 yards (Archer's Choice)
Distance measurement display step: (Linear Distance) 0.5 meter/yard (measurement distance is less than 100 meters/yards), 1.0 meter/yard (measurement distance is 100 meters/yards or farther)
Easy-to-aim 6x optical observation system
Quantifies the horizontal distance to the target in relation to the rangefinder's level by measuring linear distance and angle.
The results are displayed on internal LCD panel.
Target Priority Switch System allows you to easily match the measuring situation.
Archer's Choice is First Target Priority.
Waterproof design (NOT designed for underwater usage)
Invisible/Eyesafe IEC Class 1M Laser
8-second results display
Compact, lightweight, ergonomic design
Automatic shut-off (after approx. 8 sec. unattended)
Default to "Last Use" settings
20-second continuous measuring function

The Nikon RifleHunter / Archer's Choice emits invisible, eyesafe, infrared energy pulses that reflect off the selected target back to its optical receiver. Sophisticated precision charge circuitry is used to instantaneously calculate distances, by measuring the time it takes for each pulse to travel from the rangefinder to the target and back. Laser reflectivity and measurement results may vary according to climatic and environmental conditions, the colour, surface finish, size, shape and other characteristics of the target.

The following factors ensure best range and accuracy:

- Nighttime use
Cloudy weather
Bright-coloured targets
Targets with highly reflective surfaces
Targets with shiny exteriors
Large-size targets
Shooting targets facing at 90 degrees

Measurement may result in inaccuracy or failure in the following cases:

- Slender or small target
Target has diffusing reflective surface
Target does not reflect the laser beam (glass, a mirror, etc.)
Black target
Target has varying depths
In snow, rain or fog
Target measured through glass
Reflective surface measured from diagonal direction
Moving target
Obstacle moving in front of the target
When targeting the surface of water

Composition

Table listing components: Body, Neckstrap, Soft case (CCN), RifleHunter, Archer's Choice, CCV, Lithium battery (CR2).

Nomenclature



- 1 Monocular objective lens/Laser emission aperture
2 Laser detector aperture
3 MODE button
4 POWER button
5 6x monocular eyepiece
6 Eyecup/dioptre adjustment ring
7 Dioptre index
8 Strap eyelet
9 Battery chamber cover
10 Battery chamber cover "Open/Close" indication
11 Product number/explanatory label
12 Laser warning label

Internal Display

- Target focusing/Laser irradiate system
Aim at the target. Position the target at the center of the reticle.
Appears while the laser is being used for a measurement. (Remains present during single measurement. Blinks during continuous measurements.)



Warning: Do not look into the objective lenses when this mark is shown.

- Distance/measurement status display
Digitally indicates measured distance in meters/yards. Also indicates measuring status such as "Measurement in progress", "Measurement unsuccessful" or "Unable to measure."

- Examples of measurement results:
Display of results: (≥100m/yards) e.g. 234 meters = [234 m]
Display of results: (<100m/yards) e.g. 76.5 yards = [76.5 yd]
[-] - Now measuring
[---] - Failure to measure or unable to measure distance

CAUTIONS BEFORE USE

Please observe the following guidelines strictly so you can use the equipment properly and avoid potentially hazardous problems. Before using this product, read thoroughly the "SAFETY AND OPERATION PRECAUTIONS" and instructions on correct usage accompanying the product. Keep this manual within reach for easy reference.

WARNING This warning alerts you to the fact that any improper use ignoring the contents described herein can result in potential death or serious injury.

CAUTION This indication alerts you to the fact that any improper use ignoring the contents described herein can result in potential injury or material loss.

SAFETY AND OPERATION PRECAUTIONS

- Warning
Never look directly at the laser beam or directly at the sun when using the Nikon RifleHunter / Archer's Choice.
Do not depress the POWER button while aiming with the eye or looking into the optics from the objective side.
Do not operate the unit with other additional optical elements, such as lenses or binoculars. Using an optical instrument together with the Nikon RifleHunter / Archer's Choice increases the danger of damaging the eyes.
Do not disassemble the Nikon RifleHunter / Archer's Choice. A product that has been disassembled is not guaranteed by the manufacturer.
When Nikon RifleHunter / Archer's Choice's body cover is damaged, or if it emits a strange sound due to dropping or for some other cause, immediately remove the battery and stop using.

Cautions

- When not using the Nikon RifleHunter / Archer's Choice, do not push the POWER button.
Do not leave the Nikon RifleHunter / Archer's Choice within the reach of small children.
Rain, water, sand and mud should be removed from the rangefinder body surface as soon as possible, using a soft, clean, dry cloth.
Although the Nikon RifleHunter / Archer's Choice is waterproof, it is not designed for use underwater.
Do not swing the Nikon RifleHunter / Archer's Choice by its strap. It may hit someone and cause injury.
Do not leave Nikon RifleHunter / Archer's Choice in an unstable place, as it may fall and cause injury, or damage the equipment.
Do not look through the Nikon RifleHunter / Archer's Choice while walking. You may walk into something and get hurt.
Do not leave the Nikon RifleHunter / Archer's Choice in a car on a hot or sunny day, or near heat-generating equipment. This may damage or negatively affect it.
Do not leave the Nikon RifleHunter / Archer's Choice in direct sunlight. Ultraviolet rays and excessive heat may negatively affect or even damage the unit.
When the Nikon RifleHunter / Archer's Choice is exposed to sudden changes in temperature, water condensation may occur on lens surfaces. Do not use the product until the condensation has evaporated.
Do not use alcohol for cleaning the main body.

5. Selecting display unit (Factory default setting is yard.)



- 1. Confirm the internal LCD panel is on.
2. Press and hold the [MODE] button for more than two seconds.
3. When display unit has switched, release the [MODE] button.
4. Repeat steps 2 and 3 until your desired mode is displayed.
5. When you have completed setting, results will be converted and displayed in the your selected measurement unit.

6. Switching measurement/display modes

(Factory default setting is Horizontal distance measurement mode.)



- 1. Confirm the internal LCD panel is on.
2. Press [MODE] button within 0.5 seconds.
3. When mode has switched, release the button.
4. Repeat steps 2 and 3 until your desired mode is displayed.
5. Switching the mode after measurement converts the results to the new mode.
6. After the mode is set, measurements are performed in the new mode.

7. Switching Target Priority modes (RifleHunter only)

(Factory default setting is Distant Target Priority mode.)



- 1. LCD panel should be on.
2. Press and hold [MODE] button, then depress and hold [POWER] button within 0.5 second.
Note) If the [POWER] button is not pressed within 0.5 second, the display unit (m/yard/ft) will be switched.
3. Continue to press and hold both buttons (more than 2 seconds) until First Target Priority mode and Distant Target Priority mode are switched.
Note: If buttons are not pressed in the correct order, switching will not take place.
Note: If switching fails to take place, repeat 2.
4. Release buttons.

[Deciding which Target Priority to use]

When obtaining different results from a single measuring operation, the Nikon RifleHunter will display the distance to the farthest target on the LCD panel when using Distant Target Priority mode, while First Target Priority mode will show the range to the nearest target. Archer's Choice takes First Target Priority Distant Display System.

ex.) When measuring a tree standing in front of a house;

Table showing Distance to Target for Tree (115m), Fence (123m), and House (128m).

"115m" (distance to the tree) will be displayed in First Target Priority mode, and "128m" (distance to the house) in Distant Target Priority mode. First Target Priority mode, for example, has applications for golf, while Distant Target Priority is useful when hunting in heavily wooded areas.

8. Low battery indication

Flashing [] indicates that the battery charge is low and battery should be replaced. (See "Changing Battery")

Specifications

(RifleHunter 550 / RifleHunter 550 MAX-1)

Table with columns: Measurement mode, display, Measured range, Distance indication step, Target System, Measuring system.

(Archer's Choice)

Table with columns: Measurement mode, display, Measured range, Distance indication step, Target System, Measuring system.

(RifleHunter 550 / RifleHunter 550 MAX-1 / Archer's Choice)

Table with columns: Type, Magnification, Effective diameter of objective lens, Angular field of view (real), Eye relief, Exit pupil, Dioptre adjustment, Others, Safety.

Table with columns: Laser, Class, Wavelength, Pulse duration, Output, Beam divergence, Operating humidity.

* Waterproof models

The Nikon RifleHunter / Archer's Choice is waterproof, and will suffer no damage to the optical system if submerged or dropped in water to a maximum depth of 1 meter for up to 10 minutes.

The Nikon RifleHunter / Archer's Choice offers the following advantages:

- Can be used in conditions of high humidity, dust and rain without risk of damage.
Nitrogen-filled design makes it resistant to condensation and mold.
Observe the following when using the Nikon RifleHunter / Archer's Choice
As the unit does not have a perfectly sealed structure, it should not be operated nor held in running water.
Any moisture should be wiped off before adjusting movable parts (focusing knob, eyepiece, etc.) of the Nikon RifleHunter / Archer's Choice to prevent damage and for safety reasons.

To keep your Nikon RifleHunter / Archer's Choice in excellent condition, Nikon Vision recommends regular servicing by an authorized dealer.

** The battery chamber is water resistant, not waterproof. Water may enter the device if the Nikon RifleHunter / Archer's Choice is submerged in water. If water enters the battery chamber, wipe out any moisture and allow time for the chamber to dry.

CARE AND MAINTENANCE

- Lenses
When removing dust on the lens surface, use a soft oil-free brush.
When removing stains or smudges like fingerprints from the lens surface, wipe the lenses very gently with a soft clean cotton cloth or quality oil-free lens tissue.
Use a small quantity of pure alcohol (not denatured) to wipe stubborn smudges. Do not use velvet cloth or ordinary tissue, as it may scratch the lens surface. Once the cloth has been used for cleaning the body, it should not be used again for the lens surface.
Main body
Clean the body surface with a soft, clean cloth and a dry cloth. Do not use benzene, thinner, or other organic agents because they may cause discolouration or rubber degeneration.

Troubleshooting/Repair

If your Nikon RifleHunter / Archer's Choice should require repair, please contact your local dealer for details regarding where to send it. Before doing so, you are advised to consult the Troubleshooting Table below.

Troubleshooting table with columns: Symptom, Check Points.

If problems persist after consulting the Troubleshooting Table, please contact your local dealer to check/repair the Nikon RifleHunter / Archer's Choice. Never let anyone than the official representative of the product manufacturer check or repair the Nikon RifleHunter / Archer's Choice. Failure to follow this instruction could result in injury, or damage to the product.

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, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

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.
Consult the dealer or an experienced radio/TV technician for help.

Do not use the Nikon RifleHunter / Archer's Choice for purposes beyond the limits of its stated accuracy.

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