



Nikon LASER 550A S Forestry 550

Instruction Manual/Bedienungsanleitung/
Mode d'emploi/Manual de instrucciones/
Manuale di istruzioni

Laser Rangefinder

Thank you for purchasing the Nikon Laser 550A S/Forestry 550. This high-precision laser rangefinder features a new angle measurement function in addition to measuring linear distance. The high-precision laser rangefinder features a new angle measurement function in addition to measuring linear distance. The high-precision laser rangefinder features a new angle measurement function in addition to measuring linear distance.

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

Specifications and design are subject to change without notice. The manufacturer assumes no responsibility for any errors or omissions in this manual. The manufacturer assumes no responsibility for any errors or omissions in this manual.

Key Features

- Linear distance measurement range: 10-500 meters/111-550 yards/33-999 feet
- Angle measurement range: ±89°
- Distance measurement display step: (Internal Display)
- Linear Distance: 0.5 meter/1, 1 foot (measurement distance is less than 100 meters/yards/feet)
- Horizontal Distance/Height: 0.2 meter/yard, 0.5 foot (measurement distance is 100 meters/yards/feet or farther)
- Vertical separation (height between two points): 0.1 m (±10° - 10°) to 10 m (±10° - 10°)

- External Display: 0.5 meter/1, 1 foot (measurement distance is 100 meters/yards/feet or farther)
- Height mode: 0.2 meter/yard, 0.5 foot (measurement distance is less than 100 meters/yards/feet)
- Angle mode: 0.1° (±10° - 10°) to 10° (±10° - 10°)
- Easy-to-use optical observation system
- Quantifies the horizontal distance to the target and its height in relation to the target's level by measuring linear distance and angle
- Measure the vertical separation (height between two points)
- Automatic shut-off after approx. 30 sec. unattended
- Default to "Last Use" settings
- 20-second continuous measuring function

The Nikon Laser 550A S/Forestry 550 emits invisible, eye-safe, infrared energy pulses that reflect off the selected target back to the optical receiver. Sophisticated precision charge circuitry is used to instantaneously calculate distance, by measuring the time it takes for each pulse to travel from the rangefinder to the target and back. Laser reflectivity and environmental conditions may vary according to climatic and measurement conditions, the color, surface finish, size, shape and other characteristics of the target.

Changing Batteries

- Type of battery: 3V CR123 lithium battery
- Battery condition indicators: Battery has enough charge for use
- Low battery: Battery charge is getting low
- Flashing: Battery charge is low and battery should be replaced
- Disappears: Battery is exhausted and should be replaced

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

- Target has reflecting reflective surface
- Target does not have the laser beam (glass, a mirror, etc.)
- Black target
- Target has varying depths
- Target is not perpendicular to the laser beam
- Target measured through glass
- Reflective surface measured from diagonal direction
- MODE button is pressed
- Obstacle moving in front of the target
- When targeting the surface of water

Composition

- Body
- Lithium battery (CR123)
- Nicktrip
- X1

Nomenclature

- Monocular objective lens
- Laser emission aperture
- External LCD
- MODE button
- POWER button
- 6x monocular eyepiece
- Eyepiece/optic adjustment ring
- Strap eyelet
- Battery chamber cover
- Battery chamber cover
- "Open/Close" indication

CAUTIONS BEFORE USE

- When not using the Nikon Laser 550A S/Forestry 550, do not push the POWER button.
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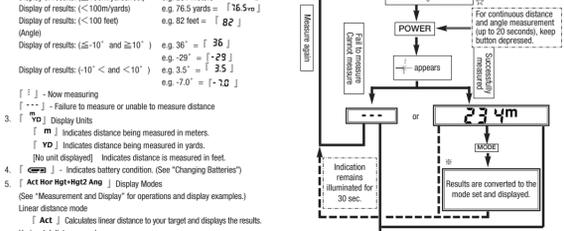
SAFETY AND OPERATION PRECAUTIONS

- Warning: Do not use the Nikon Laser 550A S/Forestry 550 as a car or a hot or sunny day, or in direct sunlight.
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Operational Summary
Caution—use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
1. Insert a battery in the battery chamber. (See "Changing Batteries".)
2. Rubber eyepiece cap: Both eyes and non-users can use this rangefinder without attaching the rubber eyepiece cap.
3. Dioptric adjustment: Dioptric adjustment is not required for most users. If you have eyesight, you may be able to clearly focus your subject.4. Measuring: Press separate "Measurement and Display" sheet for external LCD panel. Pressing and holding down the POWER button causes all displays to be displayed in the internal LCD panel. You may refer finger from the POWER button, the last setting will be retained. If you really press the POWER button then remove your finger, the LCD may display the last-used setting without displaying all of the symbols. This is not a malfunction or error problem.
5. See the relevant mode section in this manual for setting.

Internal Display

- Target focusing/Laser indicate system: Aim at the target. Position the target at the center of the reticle.
- Appears while the laser is being used: A measurement remains present during single measurement/blinks during continuous measurements.
- Distance measurement status display: Display of the linear distance and angles in degrees.
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- Horizontal distance: 0.5 meter/1, 1 foot (measurement distance is less than 100 meters/yards/feet)
- Horizontal distance/height: 0.2 meter/yard, 0.5 foot (measurement distance is 100 meters/yards/feet or farther)
- Vertical separation (height between two points): 0.1 m (±10° - 10°) to 10 m (±10° - 10°)
- Height mode: 0.2 meter/yard, 0.5 foot (measurement distance is less than 100 meters/yards/feet)
- Angle mode: 0.1° (±10° - 10°) to 10° (±10° - 10°)
- Target Priority mode: First Target Priority mode
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External Display

- Easy-to-use optical observation system
- Quantifies the horizontal distance to the target and its height in relation to the target's level by measuring linear distance and angle
- Measure the vertical separation (height between two points)
- Automatic shut-off after approx. 30 sec. unattended
- Default to "Last Use" settings
- 20-second continuous measuring function

Opening the battery chamber cover

- Remove the battery chamber cover.

Replacing the old battery with a new one

- Remove the old battery.

Align the Open/Close indicator with the white dot and insert the battery chamber cover.

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Close the battery chamber cover

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Specifications

Measurement mode	Linear distance	Act
Horizontal distance	10-500 meters/111-550 yards/33-999 feet	
Horizontal distance/height	0.2 meter/yard, 0.5 foot (measurement distance is 100 meters/yards/feet or farther)	
Vertical separation (height between two points)	0.1 m (±10° - 10°) to 10 m (±10° - 10°)	
Effective diameter of objective lens (mm)	42 mm	
Angular field of view (real)	16°	
Eye relief (mm)	18 mm	
Exit pupil (mm)	4.5 mm	
Dioptric adjustment	±8.5 D	
Operating temperature	-10° ~ +50°	
Power source	CR123 lithium battery x1, 3V DC, (Approx. Power Off approx. 30 seconds)	
Dimensions (D x W x H)	130 x 45 x 90 mm	
Weight	Approx. 210g (without battery)	
Structure	Waterproof (maximum depth of 1 meter for up to 10 minutes)	
Class	Class II Laser product (IEC60825-1)	
CE, EMC directive, c-tick, WEEE		

System

Optical system	Type	Roof prism monocular
Magnification	8x	
Effective diameter of objective lens (mm)	42 mm	
Angular field of view (real)	16°	
Eye relief (mm)	18 mm	
Exit pupil (mm)	4.5 mm	
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Safety & EMC

- Class II Laser product (IEC60825-1)
- CE, EMC directive, c-tick, WEEE

Laser

Class	IEC Class 1M
Wavelength	870 nm
Pulse duration	14 ns
Beam diameter	15W
Operating temperature	-10° ~ +50°
Output power	1.5 mW (Class II)

Waterproof models

- The Laser 550A S/Forestry 550 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 Laser 550A S/Forestry 550 offers the following advantages:
 - It is resistant to conditions of high humidity, dust and rain without risk of damage.
 - Nitrogen-filled design makes it resistant to condensation and most moisture.
 - It is resistant to the following weather conditions: rain, snow, fog, etc.
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Diagnosing the following weather conditions

- When the rangefinder is not working properly, please contact your local dealer for details regarding what to send it. Before doing so, you are advised to consult the Troubleshooting Table below.

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Laser-Entfernungsmesser

Vielen Dank für das Vertrauen in Nikon, das Sie uns mit dem Kauf dieses Laser 550A S/Forestry 550 erwiesen haben. Dieser Laser-Entfernungsmesser für hohe Anforderungen zeichnet sich neben dem Messen der Linear- und Winkelentfernung durch eine neue Winkelentfernungsfunktion aus und sorgt so für noch mehr Vergleichen beim Ziel und bei anderen Fernmessern im Freien. Sogar die Messung der vertikalen Abstände ist möglich. Dieser Laser-Entfernungsmesser ist ein Ziel und seine Höhe messen. Bitte befolgen Sie die nachstehenden Richtlinien genau, damit stets eine sichere Handhabung gewährleistet ist und potentielle Gefährdungen durch Laserstrahlung vermieden werden. Vor dem Einschalten des Geräts sollten Sie sich gründlich mit den "VORSICHTS-MASSNAHMEN" und den Anweisungen zur korrekten Handhabung vertraut machen. Anweisungen, Einstellungen oder Prozeduren, die nicht ausdrücklich innerhalb dieser Anleitung beschrieben werden, können zu schädlicher Strahlung führen.

Die wichtigsten Merkmale

- Wirkleistungsbereich: 10-500 Meter/111 bis 550 Yards/33 bis 999 Feet
- Winkelbereich: ±89°
- Effektive Durchmesser des Objektivs (mm): 42 mm
- Winkelbereich: 16°
- Augenentfernung (mm): 18 mm
- Exit-Pupille (mm): 4,5 mm
- Dioptrische Verstellung: ±8,5 D
- Betriebstemperatur: -10° bis +50°
- Stromversorgung: CR123-Lithium-Batterie x1, 3V DC, (ca. 30 Sekunden Laufzeit)
- Abmessungen (D x B x H): 130 x 45 x 90 mm
- Gewicht: ca. 210 g (ohne Batterie)
- Struktur: wasserdicht (maximale Tauchtiefe 1 m für bis zu 10 Minuten)
- Kategorie: Klasse II Laser-Produkt (IEC60825-1)
- CE, EMC-Richtlinie, c-tick, WEEE

System

Optisches System	Typ	Roof-Prismen-Monokular
Vergrößerung	8x	
Effektive Durchmesser des Objektivs (mm)	42 mm	
Winkelbereich (reell)	16°	
Augenentfernung (mm)	18 mm	
Exit-Pupille (mm)	4,5 mm	
Dioptrische Verstellung	±8,5 D	
Betriebstemperatur	-10° bis +50°	
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Abmessungen (D x B x H)	130 x 45 x 90 mm	
Gewicht	ca. 210 g (ohne Batterie)	
Struktur	wasserdicht (maximale Tauchtiefe 1 m für bis zu 10 Minuten)	
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Sicherheit & EMC

- Kategorie II Laser-Produkt (IEC60825-1)
- CE, EMC-Richtlinie, c-tick, WEEE

Laser

Kategorie	IEC Klasse 1M
Wellenlänge	870 nm
Pulsdauer	14 ns
Strahlendurchmesser	15 W
Betriebstemperatur	-10° bis +50°
Abstrahlleistung	1,5 mW (Kategorie II)

Wasserdichte Modelle

- Das Laser 550A S/Forestry 550 ist wasserdicht und erleidet keinen Schaden, wenn es in Wasser bis zu einer Tiefe von 1 Metern bis zu 10 Minuten lang eingetaucht wird. Dies ist eine wichtige Funktion für die Verwendung in der Jagd, im Bergbau und in der Forstwirtschaft.
- Das Laser 550A S/Forestry 550 bietet die folgenden Vorteile:
 - Es ist resistent gegenüber Bedingungen hoher Feuchtigkeit, Staub und Regen ohne Gefahr für die optische Systemkomponenten.
 - Stickstoffgefülltes Gehäuse macht es resistent gegenüber Feuchtigkeit und Feuchtigkeit.
 - Es ist resistent gegenüber den folgenden Wetterbedingungen: Regen, Schnee, Nebel, etc.
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Diagnose der folgenden Wetterbedingungen

- Wenn das Fernrohr nicht funktioniert, kontaktieren Sie bitte Ihren Nikon-Vertriebspartner für weitere Informationen. Bevor Sie dies tun, wird Ihnen empfohlen, die Fehlerbehebungs-Tabelle unten zu konsultieren.

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