



Laser Rangefinder

Thank you for purchasing the Nikon Callaway id TECH. 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 Callaway id TECH is also able to measure the horizontal distance to a target and its height.)

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.
- No reproduction in any form of this manual, in whole or in part (except for brief quotation in critical articles or reviews), may be made without written authorization from NIKON VISION CO., LTD.

Key Features

- Linear distance measurement range: 10-500 meters/11-550 yards/33-999 feet
- Angle measurement range: ±89°
- Distance measurement display step: [Internal Display:] (Linear Distance) 0.5 meter/yard, 1 foot (measurement distance is less than 100 meters/yards/feet) 1.0 meter/yard, 1 foot (measurement distance is 100 meters/yards/feet or farther) (Horizontal Distance/Height) 0.2 meter/yard, 0.5 foot (measurement distance is less than 100 meters/yards/feet) 1.0 meter/yard, 1 foot (measurement distance is 100 meters/yards/feet or farther) (Angle) 0.1° (-10° - 10°) 1.0° (≤ -10°, 10° ≤)
- [External Display:] (Linear distance) 0.5 meter/yard, 1 foot (Horizontal Distance/Height) 0.2 meter/yard, 0.5 foot (Angle) 0.1°
- Easy-to-aim 6x optical observation system
- Quantifies the horizontal distance to the target and its height in relation to the rangefinder's level by measuring linear distance and angle.
- Measure the vertical separation (height between two points).
- The results are displayed on both an internal and an external LCD panel. The external LCD panel shows all results simultaneously.
- Measure and display in First Target Priority.
- Waterproof design (NOT designed for underwater usage)
- Invisible/Eyesafe IEC Class 1M Laser
- 30-second results display
- Compact, lightweight, ergonomic design
- Automatic shut-off (after approx. 30 sec. unattended)
- Default to "Last Use" settings
- 20-second continuous measuring function

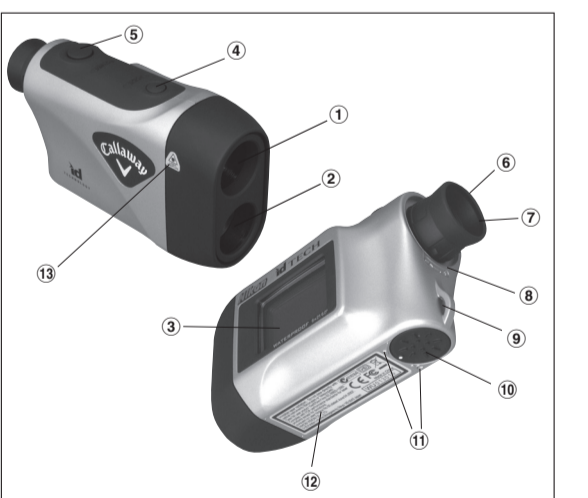
The Nikon Callaway id TECH emits invisible, eyesafe, infrared energy pulses that reflect off the selected target back to its optical receiver. Sophisticated precision charge circuitry is used to instantaneously calculate distances, by measuring the time it takes for each pulse to travel from the rangefinder 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	
Body	x1
Neckstrap	x1
Soft case	x1
Lithium battery (CR2)	x1

Nomenclature



- | | |
|--|------------------------------------|
| ① Monocular objective lens/
Laser emission aperture | ⑫ Product number/explanatory label |
| ② Laser detector aperture | ⑬ Laser warning label |
| ③ External LCD | |
| ④ MODE button | |
| ⑤ POWER button | |
| ⑥ 6x monocular eyepiece | |
| ⑦ Eyecup/diopter adjustment ring | |
| ⑧ Diopter index | |
| ⑨ Strap eyelet | |
| ⑩ Battery chamber cover | |
| ⑪ Battery chamber cover "Open/
Close" indication | |

NIKON VISION CO., LTD.
Customer Service Department
3-25, Futaba 1-chome, Shinagawa-ku, Tokyo 142-0043, Japan
Tel: +81-3-3788-7699 Fax: +81-3-3788-7698

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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/feet and angles in degrees. Also indicates measuring status such as "Measurement in progress", "Measurement unsuccessful" or "Unable to measure."
 <Examples of measurement results>
 (Distance)
 Display of results: (≥ 100m/yards/feet) e.g. 234 meters = 『 234 m 』
 Display of results: (< 100m/yards) e.g. 76.5 yards = 『 76.5 yd 』
 Display of results: (< 100 feet) e.g. 82 feet = 『 82 ft 』
 (Angle)
 Display of results: (≤ -10° and ≥ 10°) e.g. 36° = 『 36 ° 』
 e.g. -29° = 『 -29 ° 』
 Display of results: (-10° < and < 10°) e.g. 3.5° = 『 3.5 ° 』
 e.g. -7.0° = 『 -7.0 ° 』

- Display Units**
 - 『 m 』 Indicates distance being measured in meters.
 - 『 yd 』 Indicates distance being measured in yards.
 - [No unit displayed] Indicates distance is measured in feet.
- Battery condition**
 - ☞ Indicates battery condition. (See "Changing Batteries")
- Display Modes**
 (See "Measurement and Display" for operations and display examples.)
Linear distance mode
 『 Act 』 Calculates linear distance to your target and displays the results.
Horizontal distance mode
 『 Hor 』 Calculates horizontal distance to your target by measuring the linear distance and angle, and displays the results.
Height mode
 『 Hgt 』 Measures your target's height from the horizontal level, and displays the results.
Vertical separation (height between two points) mode
 『 Hgt+Hgt2 』 Uses the linear distance and angle data of two points to calculate and display the vertical separation (height between the two points.)
Angle mode
 『 Ang 』 Measures the angle of your target from the horizontal level and displays the results.

Although the LCD was produced using the most advanced technology, it is impossible to eliminate dust completely. When using this product, the LCD is magnified by high magnification of the eyepiece lens and dust may appear as a defect. It will not, however, affect measurement accuracy.

Changing Batteries

- Type of battery:** 3V CR2 lithium battery
- Battery condition indicators**
- ☞ Battery has enough charge for use.
 - ☞ Battery charge is getting low.
 - ☞ flashing: Battery charge is low and battery should be replaced.
 - ☞ disappears: Battery is exhausted and should be replaced.
- ☞ flashing in the LCD indicates that the battery should be replaced.

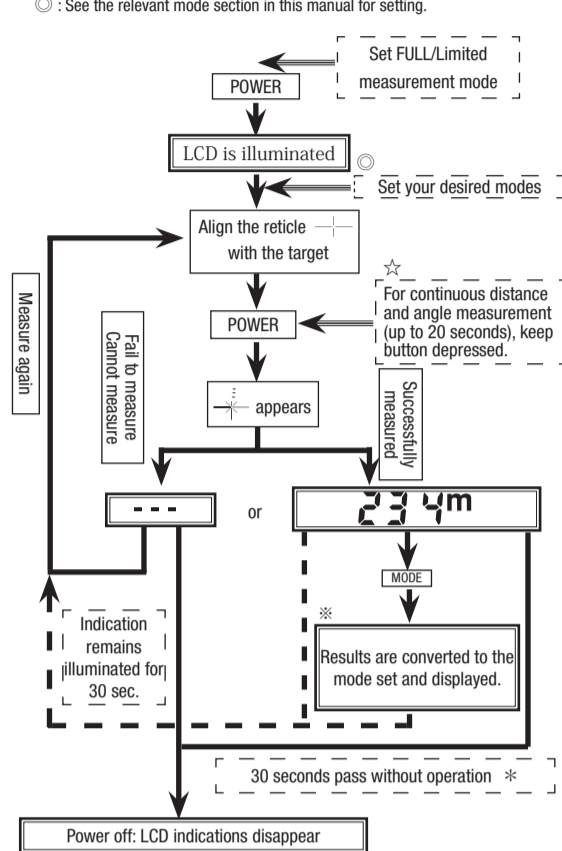
- Open the battery chamber cover**
Using the ball of the thumb or a coin in the recessed part of the battery chamber cover, rotate the cover following the Open/Close arrow indicator. It may not open easily due to its rubber packing for water resistance.
- Replace the old battery with a new one**
Install new battery with the [+] and [-] correctly positioned following the "Battery installation" indication seal in the battery chamber. (Insert battery positioning the [+] pole towards the inside of the chamber.) [The Nikon Callaway id TECH will not operate if the battery is installed incorrectly.]
- Close the battery chamber cover**
Align the Open/Close indicator with the white dot and insert the battery chamber cover. Using the ball of the thumb or a coin, turn the cover in the opposite direction to the arrow indicator. It may not close easily due to the rubber packing for water resistance, but continue to turn it all the way until it stops. Confirm that the cover is securely closed.

Battery life
Continuous operation: Approx. 10,000 times (at 20°C)
Target focusing, measurement, and automatic power off are included in a single cycle. This figure may differ according to temperature, and other factors such as target shape, colour, etc.
* The Nikon Callaway id TECH come with a 3V CR2 lithium battery. However, due to natural electric discharge, the life of the battery will likely be shorter than that noted above.
Replace battery if the Nikon Callaway id TECH is ever submerged in water or if water enters in the battery chamber.

Operational Summary

Caution—use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure

- Install a battery in the battery chamber.** (See Changing Batteries)
- Rubber eyepiece cup**
Eyeglass wearer: Collapse the eyepiece cups.
Non-eyeglass wearer: Do not collapse the eyepiece cups.
- Diopter adjustment**
Adjust diopter to obtain a clear image in the LCD.
First, rotate the diopter adjustment ring counterclockwise until it comes to a complete stop. Next, turn on the power to activate the LCD when you look through the Nikon Callaway id TECH. Rotate the diopter adjustment ring clockwise until the display comes into focus.
If the diopter is not adjusted to correspond to your eyesight, you may not be able to clearly focus your subject.
- Measuring**
Note: See separate "Measurement and Display" sheet for external LCD panel.
Note: Depressing and holding down the POWER button causes all symbols to be displayed in the internal LCD panel. After you remove your finger from the POWER button, the last-used setting is displayed. (If you briefly press the POWER button then remove your finger, the LCD panel may display the last-used setting without displaying all of the symbols. This is not a malfunction or other problem.)
Before measuring, be sure to confirm settings, such as unit, measurement/display mode and priority mode.
☞ : See the relevant mode section in this manual for setting.



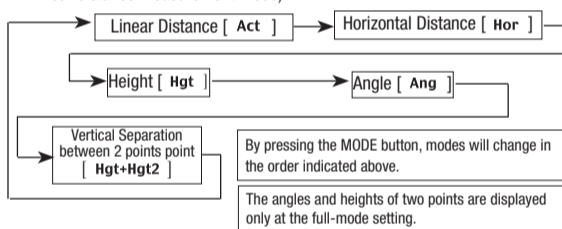
- ☞ See the "Measurement and Display" sheet for details regarding the operations and results display of the various modes.
- * Power turns off 30 seconds after the last operation.
- ☆ [Continuous measurement mode]
☞ Keeping the POWER button depressed allows you to perform continuous measurement for 20 seconds.
- ☞ Blinks while performing measurements.

When measuring a pin at a golf course, for example, use Continuous measurement mode for easy measurement. With no objects between you and the pin, the smallest number is the distance to your targeted pin.

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

- Meter [m] → Yard [YD] → Feet []
- Confirm the LCD panel is on.
 - Press and hold the [MODE] button for approx. two seconds.
 - When display unit has switched, release the [MODE] button.
 - Repeat steps 2 and 3 until your desired mode is displayed.
 - 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 linear distance measurement mode)



- Confirm the LCD panel is on.
 - Press [MODE] button within 0.5 seconds.
 - Release [MODE] button to switch the mode.
 - Repeat steps 2 and 3 until your desired mode is displayed.
 - Switching the mode after measurement converts the results to the new mode.
 - After the mode is set, measurements are performed in the new mode.
- 7. Switching Full/Limited modes (default setting is limited mode)**
- Confirm the power is off (LCD is off).
 - Press and hold [MODE] button, then depress and hold [POWER] button within 0.5 second.
 - Continue to press and hold both buttons, (more than 2 seconds), to confirm the internal display is on.
- When these buttons are pressed, all symbols are displayed. When 『 Hgt2 』 and 『 Ang 』 symbols do not appear, Limited mode is switched to Full mode.
- Note) If buttons are not pressed in the correct order, switching will not take place.
- Note) This mode change can also be confirmed when switching the measurement/display mode.

8. Distance display

Nikon Callaway id TECH is First Target Priority Distance Display System.
When obtaining different results from a single measuring operation, the Nikon Callaway id TECH will display the distance to the nearest target on the LCD panel.
ex.) When measuring a tree standing in front of a house;

	Tree	Fence	House
Distance to Target	115m	123m	128m

"115m" (distance to the tree) will be displayed. This mode has application for golf.

- 9. Low battery indication**
Flashing ☞ indicates that the battery charge is low and battery should be replaced. (See "Changing Battery")

Specifications

Measurement System			
Measurement mode display	Linear distance	: Act	
	Horizontal distance	: Hor	
	Height	: Hgt	
	Angle	: Ang	
Measured distance/angle range	Distance:	10-500 meters/11-550 yards/33-999 feet (999 feet: 304.5 meters/333 yards)	
	Angle:	±89°	
Distance-Angle Display Steps	Internal	Act (Linear distance)	0.5 meter/yard, 1.0 foot (< 100 meters/yards/feet)
		Hor (Horizontal dist.)	0.2 meter/yard, 0.5 foot (< 100 meters/yards/feet)
		Hgt (Height)	0.2 meter/yard, 0.5 foot (< 100 meters/yards/feet)
	External	Linear distance	0.5 meter/yard, 1.0 foot
		Horizontal dist.	0.2 meter/yard, 0.5 foot
		Height	0.2 meter/yard, 0.5 foot
Angle	0.1° (< 10°), 1.0° (≥ 10°)		
System		First Target Priority Distance Display system	

Optical system	
Type	Roof-prism monocular
Magnification	6x
Effective diameter of objective lens (mm)	ø21mm
Angular field of view (real)	6.0°
Eye relief (mm)	18mm
Exit pupil (mm)	ø3.5mm
Diopter adjustment	±4m ⁻¹
Others	
Operating temperature	-10° - +50°
Power source	CR2 lithium battery x 1, 3V DC, Auto Power Off (approx. 30 seconds)
Dimensions (D x W x H)	130 x 45 x 69 mm
Weight	Approx. 210g (without battery)
Structure	Body: Waterproof (maximum depth of 1 meter for up to 10 minutes) (Battery chamber: Water resistant)**
Safety & EMC	Class 1M Laser product (IEC68025-1:2001) FCC Part15 subpart B Class B CE, EMC directive, c-tick, WEEE

Laser	
Class	IEC Class 1M
Wavelength	870 nm
Pulse duration	14 ns
Output	15W
Beam divergence	Vertical : 5° - 8°, Horizontal : 25° - 36°
Operating humidity	80% RH (without dew condensation)

*** Waterproof models**
The Nikon Callaway id TECH 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 Callaway id TECH 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 Callaway id TECH.
- 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 (eyepiece, etc.) of the Nikon Callaway id TECH to prevent damage and for safety reasons.
- To keep your Nikon Callaway id TECH 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 Callaway id TECH is submerged in water. If water enters the battery chamber, wipe out any moisture and allow time for the chamber to dry.

Troubleshooting/Repair

If your Nikon Callaway id TECH 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.

Symptom	Check Points
Unit does not turn on — LCD fails to illuminate	<ul style="list-style-type: none"> Depress POWER button. Check and replace batteries if necessary.
Target range cannot be obtained	<ul style="list-style-type: none"> Be sure that nothing, such as your hand or finger, is blocking the laser emission aperture and laser detector. Be sure that the laser emission aperture and laser detector are clean. Clean them if necessary. Be sure that the target shape and condition is appropriate to reflect the laser beam. Replace battery.
[- -] ("Cannot measure") appears	<ul style="list-style-type: none"> Be sure to hold the unit steady while depressing the POWER button. Be sure the target is within measuring range (10 - 500m/11 - 550 yards/33-999 feet)
Closer target cannot be measured	<ul style="list-style-type: none"> Be sure that nothing, such as leaves or grass, is between the Nikon Callaway id TECH and the target.
Target beyond a certain distance cannot be measured	<ul style="list-style-type: none"> Be sure that nothing, such as leaves or grass, is between the Nikon Callaway id TECH and the target.
Measurement result is unstable	<ul style="list-style-type: none"> Replace battery. Be sure that the target shape and condition is appropriate to reflect the laser beam. Be sure to hold the unit steady while depressing the POWER button. Be sure that nothing, such as leaves or grass, is between the Nikon Callaway id TECH and the target.
Incorrect result is displayed	<ul style="list-style-type: none"> Replace battery. Be sure that the target shape and condition is appropriate to reflect the laser beam. Be sure that nothing, such as leaves or grass, is between the Nikon Callaway id TECH and the target.

If problems persist after consulting the Troubleshooting Table, please contact your local dealer to check/repair the Nikon Callaway id TECH. Never let anyone than the official representative of the product manufacturer check or repair the Nikon Callaway id TECH. 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 and to EU EMC directive. 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.
This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Do not use the Nikon Callaway id TECH for purposes beyond the limits of its stated accuracy.

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 indication 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 Callaway id TECH.
 - Do not depress the POWER button while looking into the optics from the objective side.
 - Do not aim at the eye.
 - Do not operate the unit with other additional optical elements, such as lenses or binoculars. Using an optical instrument together with the Nikon Callaway id TECH increases the danger of damaging the eyes.
 - Do not disassemble the Nikon Callaway id TECH. A product that has been disassembled is not guaranteed by the manufacturer.

- When the Nikon Callaway id TECH'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 Callaway id TECH, do not push the POWER button.
- Do not leave the Nikon Callaway id TECH in a car on a hot or sunny day.
- 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 Callaway id TECH is waterproof, it is not designed for use underwater.
- Do not swing the Nikon Callaway id TECH by its strap. It may hit someone and cause injury.
- Do not leave the Nikon Callaway id TECH in an unstable place, as it may fall and cause injury, or damage the equipment.
- Do not look through the Nikon Callaway id TECH while walking. You may walk into something and get hurt.
- Do not leave the Nikon Callaway id TECH 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 Callaway id TECH in direct sunlight. Ultraviolet rays and excessive heat may negatively affect or even damage the unit.
- When the Nikon Callaway id TECH 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.

- Do not leave the polyethylene bag used for packaging within the reach of small children.
 - Be careful that small children do not inadvertently swallow the eyecup. If it does happen, consult a doctor immediately.
 - If you use the rubber eyecup for a long period of time, you may suffer skin inflammation. If you develop any symptoms, consult a doctor immediately.
 - When carrying the Nikon Callaway id TECH, store it in the soft case.
 - If your Nikon Callaway id TECH should fail to operate correctly, discontinue use immediately and consult the Troubleshooting Table. If you are unable to fix the problem, contact your local dealer for instructions on where to send it for repair.
- 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.

- Storage**
- Water condensation or mould may occur on the lens surface because of high humidity. Therefore, store the Nikon Callaway id TECH in a cool, dry place.
 - After use on a rainy day or at night, thoroughly dry it at room temperature, then store in a cool, dry place.
- NOTES ON LITHIUM BATTERY**
If handled incorrectly, batteries may rupture and leak, corroding equipment and staining clothing. Be sure to observe the following:
• Install batteries with the + and - poles positioned correctly.
• Batteries should be removed when exhausted or during extended periods of non-use.
• Always use the same brand of battery.
• If battery fluid contacts eyes or skin, rinse well with water. If swallowed, consult a doctor immediately.
• Do not short-circuit battery chamber terminals.
• Do not carry batteries together with keys or coins in a pocket or bag. This may overheat and short-circuit batteries.
• Do not put batteries in fire or water. Never disassemble batteries.
• Do not charge batteries.
• Do not subject stored batteries to extremes in temperature.
• Do not subject batteries to strong vibrations or shock.

Nikon Callaway id TECH / Measurement and Display

External display and contents

[Power On]



After the power is turned on, the internal and external LEDs are illuminated until either the POWER or MODE button is pressed.

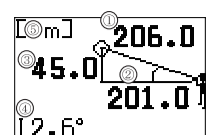
[Power off notice]



If 30 seconds pass without operation, the power turns off. Approx. one second before power turns off, this screen is displayed.

1 Point Measurement

[Results]

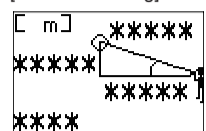


After measurement, all data "linear distance, horizontal distance, height and angle" are displayed. Units can be shown in meters, yards or feet. Angles are indicated by °(degree).

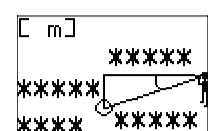
[m] : meter
[YD] : yards
[ft] : feet

- ① Linear distance ② Horizontal distance
- ③ Height ④ Angle ⑤ Unit

[While measuring]

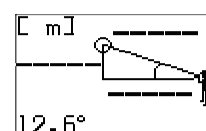


When the target is upward

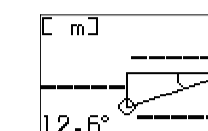


When the target is downward

[Measurement unsuccessful or unable to measure]



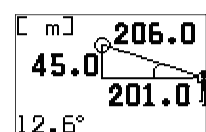
When the target is upward



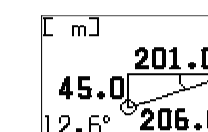
When the target is downward

With negative values, the "-" (minus) symbol is not shown.

[Measurement complete]



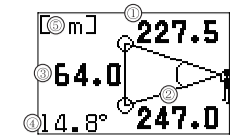
When the target is upward



When the target is downward

Measure the distance between two points

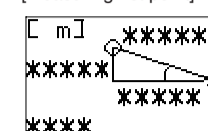
[Results]



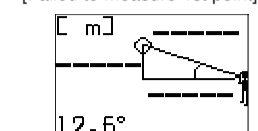
After measuring two points, "Linear distance to two points" and "Vertical separation (height) and angle between two points" are displayed. Units can be shown in meters, yards or feet. Angles are indicated by (degree).

- ① Linear distance (1st point)
- ② Linear distance (2nd point)
- ③ Vertical separation (height between two points.)
- ④ Angle of two points
- ⑤ Unit

[Measuring 1st point]

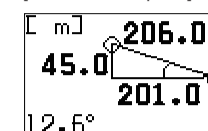


[Failed to measure 1st point]

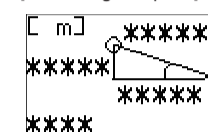


(Angle measurements never fail.)

[Results of 1st point]

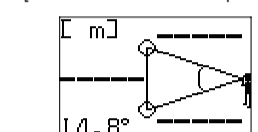


[Measuring 2nd point]



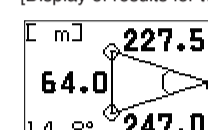
(Although the point is located downward, display shows the upward position.)

[Failure to measure 2nd point]



(Angle measurements never fail.)

[Display of results for two points]



Measuring procedures and internal display

[0 · 1 · 2] Power On/Off and others

Operation/Results	Work	Button	Display	Display examples
0 Switch for FULL/Limited modes	Perform this operation when power is off.	MODE +(follow by) POWER	Initial screen (FULL mode) +Hgt2 Ang	88.8
Operation is complete	(1) Initial screen When switching to Limited mode When the symbol (shown on right) does not appear, Limited mode is switched to Full mode. After approx. two seconds, proceed to (2). (2) Measurement standby		Last use symbol +Hgt2 Ang	88.8
1 Power On Measurement standby	When this symbol (shown on right) does not appear, Limited mode is set. Measurement standby	POWER	All symbols (while pressing) +Hgt2 Ang	88.8
2 Selecting and setting Limited mode	(1) Linear distance [3] (2) Horizontal distance [4] (3) Height (from horizontal) [5] (4) Angle (from horizontal) [6] (5) Vertical separation (height between two points) [7] Return to 2-(1) Linear distance, then repeat.	MODE	Last Use mode symbol Act	n/a
			Act	n/a
			Hor	n/a
			Hgt	n/a
			Ang	n/a
			Hgt blinks	n/a
			Act	n/a
See the relevant section in this manual for each mode setting and display.				
8 Power off	Regardless of process, after 30 seconds since your last operation, power turns off.	30 seconds without operation		

[3] Linear distance mode

Operation/Results	Work	Button	Display	Display examples
				meter yards feet Elevation Depression
3 Measurement with Linear distance mode				
3-1 Seeking your target (Align the reticle with target)	Linear distance		Act	
3-2 Measurement (Laser irradiate symbol is displayed.)	With the POWER button depressed, continuous measurement is possible for up to 20 seconds. (When done, 3-3 display appears.)	POWER		
3-3 Failure to measure	Repeat step 3-1.			---
3-4 Measurement OK	Linear distance Follow by 3-5 or 3-1		Act	206 225 676
3-5 Data display after switching modes	(1) Horizontal distance [4] (2) Height (from horizontal) [5] (3) Angle (from horizontal) [6] (4) Vertical separation (height between two points) [7] (5) Linear distance Return to 3-5-(1) and repeat. (In Limited mode, return to 3-5-(1), then repeat (1),(2) and (5))	MODE	Hor Hgt Ang Hgt blinks Act	n/a 20 220 660 13 -13 --- 206 225 676
8 Power off	Regardless of process, after 30 seconds since your last operation, power turns off.	30 seconds without operation		

[4] Horizontal distance mode

Operation/Results	Work	Button	Display	Display examples
				meter yards feet Elevation Depression
4 Measurement with horizontal distance mode				
4-1 Seeking your target (Align the reticle with target.)	Horizontal distance		Hor	
4-2 Measurement (Laser irradiate symbol is displayed.)	With the POWER button depressed, continuous measurement is possible for up to 20 seconds. (When done, 4-3 display appears.)	POWER		
4-3 Failure to measure	Repeat step 4-1.			---
4-4 Measurement OK	Horizontal distance Follow by 4-5 or 4-1.		Hor	20 220 660
4-5 Data display after switching modes	(1) Height (from horizontal) [5] (2) Angle (from horizontal) [6] (3) Vertical separation (height between two points) [7] (4) Linear distance [3] (5) Horizontal distance Return to 4-5-(1), then repeat. (In Limited mode, return to 4-5-(1), then repeat (1), (4) and (5))	MODE	Hgt Ang Hgt blinks Act Hor	45.0 49.2 146 13 -13 --- 206 225 676 20 220 660
8 Power off	Regardless of process, after 30 seconds since your last operation, power turns off.	30 seconds without operation		

[5] Height mode

Operation/Results	Work	Button	Display	Display examples
				meter yards feet Elevation Depression
5 Measurement with height mode				
5-1 Seeking your target (Align the reticle with target)	Height (from horizontal)		Hgt	
5-2 Measurement (Laser irradiate symbol is displayed.)	With the POWER button depressed, continuous measurement is possible for up to 20 seconds. (When done, 5-3 display appears.)	POWER		
5-3 Failure to measure	Repeat step 5-1.			---
5-4 Measurement OK	Linear distance Follow by 5-5 or 5-1.		Hgt	45.0 49.2 146
5-5 Data display after switching modes	(1) Angle (from horizontal) [6] (2) Vertical separation (height between two points) [7] (3) Linear distance [3] (4) Horizontal distance [4] (5) Height (from horizontal) Return to 5-5-(1) and repeat. (In Limited mode, return to 5-5-(3), then repeat (3), (4) and (5))	MODE	Ang Hgt blinks Act Hor Hgt	13 -13 --- 206 225 676 20 220 660 45.0 49.2 146
8 Power off	Regardless of process, after 30 seconds since your last operation, power turns off.	30 seconds without operation		

[6] Angle mode

Operation/Results	Work	Button	Display	Display examples
				meter yards feet Elevation Depression
6 Measurement with angle mode setting (only at FULL mode setting)				
6-1 Seeking your target (Align the reticle with target)	Angle (from horizontal)		Ang	
6-2 Measurement (Laser irradiate symbol is displayed.)	With the POWER button depressed, continuous measurement is possible for up to 20 seconds. (When done, 6-3 display appears.)	POWER		
6-3 Failure to measure	Repeat step 6-1.			---
6-4 Measurement OK	Angle (from horizontal) Follow by 6-5 or 6-1.		Ang	13 -13 5.2 -5.2
6-5 Data display after switching modes	(1) Vertical separation between two points [7] (2) Linear distance [3] (3) Horizontal distance [4] (4) Height (from horizontal) [5] (5) Angle (from horizontal) Return to 6-5-(1), then repeat.	MODE	Hgt blinks Act Hor Hgt Ang	--- 206 225 676 20 220 660 45.0 49.2 146 13 -13
8 Power off	Regardless of process, after 30 seconds since your last operation, power turns off.	30 seconds without operation		

[7] Vertical separation (height between two points) mode

Operation/Results	Work	Button	Display	Display examples
				meter yards feet Elevation Depression
7 Measurement with Vertical separation (height between two points) mode (only at FULL mode setting)				
7-1 Seeking your target (Align the reticle with target)	Vertical separation (height between two points) (1st target)		Hgt blinks	
7-2 Measurement (Laser irradiate symbol is displayed)		POWER		
7-3 Failure to measure	Follow by 7-1 Repeat 7-1, 7-2, 7-3 until measurement is complete.		Hgt blinks	---
7-4 Measurement OK	Height of 1st target (from horizontal) followed by 7-5 or 7-6.		Hgt2 blinks	104 114 34 1
7-5 Data display after switching modes	(1) Linear distance (1st target) [3] (2) Horizontal distance (1st target) [4] (3) Height (from horizontal) (1st target) [5] (4) Angle (from horizontal) (1st target) [6] (5) Vertical separation (height between two points) 7-5 (follow by 6-1 or 6-2) (6-1) Return to 7-5-(1), then repeat. (6-2) follow by 7-3 or 7-4	MODE	Act Hor Hgt Ang Hgt blinks	247 270 8 10 224 245 735 104 114 34 1 25 0.0 0.0 0.0
7-6 Aiming (2nd target) (Align the reticle with target)	Vertical separation (height between two points) (2nd target) (Result shown is the height of the 1st target)		Hgt blinks	104 114 34 1
7-7 Measurement (Laser irradiate symbol is displayed)		POWER		
7-8 Failure to measure	Follow by 7-6 Repeat 7-6,7-7 and 7-8 until measurement is complete		Hgt blinks	---
7-9 Measurement OK	Vertical separation (height between two points) After 2 seconds move to 7-10		Hgt+Hgt2	64.0 70.0 2 10
7-10	Vertical separation (height between two points) Follow by 7-11 or 7-1		Hgt blinks	64.0 70.0 2 10
7-11 Date display after switching modes	(1) Linear distance (2nd target) [3] (2) Horizontal distance (2nd target) [4] (3) Height (from horizontal) (2nd target) [5] (4) Angle (from horizontal) (2nd target) [6] (5) Vertical separation (height between two points) Follow by 7-11-(6-1) or 7-11-(6-2) (6-1) Return to 7-11-(1), then repeat (6-2) Follow by 7-3 or 7-4	MODE	Act Hor Hgt Ang Hgt blinks	228 249 898 224 245 735 40.0 43.8 13 1 64.0 70.0 2 10
8 Power off	Regardless of process, after 30 seconds since your last operation, power turns off.	30 seconds without operation		