



Nikon  
100<sup>th</sup>  
anniversary

# COOLSHOT

*The Golfer's Laser Rangefinders*

**VR**

Vibration Reduction



# GAIN CONFIDENCE

## COOLSHOT

*By knowing your distance and the  
COOLSHOT is built for golfers. It  
If strategic golf is*

*Master distance and develop a golfing sense with COOLSHOT.  
true shot distance, you can confidently choose the right club.  
enables you to be at your best on the fairway and on the green.  
your game, play with confidence — play with COOLSHOT.*

## AIMING STRAIGHT FOR THE FLAGSTICK

*A NEW CHOICE IN LASER RANGEFINDERS  
THAT BOASTS OPTICAL  
VR (Vibration Reduction) TECHNOLOGY*



COOLSHOT 80 VR **NEW**



COOLSHOT 80 i VR **NEW**

**VR**  
Vibration Reduction



VR

*No need to hesitate. LOCKED ON sign lets you know the distance to the flagstick.*



## LOCKED ON TECHNOLOGY

**A new, easy way to indicate that the distance to the flagstick has been measured.**

Picture the scene of an approach shot to a green with woods in the background, where you are not sure whether the measured distance is to the flagstick or to the trees behind it. LOCKED ON Technology displays the distance to the closest subject, the flagstick, and the LOCKED ON sign (↔) in the viewfinder appears to inform you at the same time. It is clearly visible that the distance to the flagstick has been measured even with trees in the background.

\* Single measurement: When measuring overlapping subjects and the distance to the closest subject is displayed, the LOCKED ON sign (↔) appears.

Continuous measurement: When displayed figures shift to a closer subject, the LOCKED ON sign (↔) appears.

※ Employed models: COOLSHOT 80i VR / COOLSHOT 80 VR



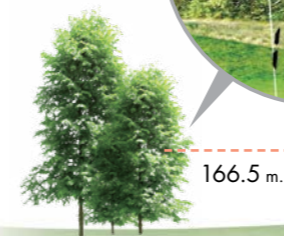
### Measuring woods in the background

When measuring woods in the background, the LOCKED ON sign (↔) does not light up.



### Measuring the flagstick

When the distance to the closest subject, the flagstick, is displayed, the LOCKED ON sign (↔) lights up.



\* Simulated images

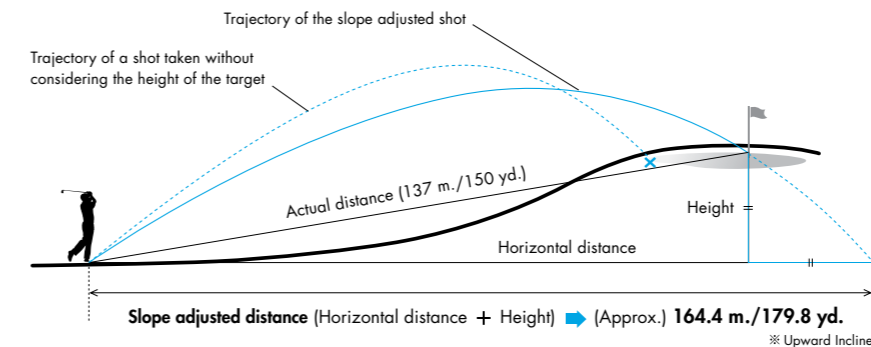
*Grasp the right distance to hit on an uphill/downhill course*

## ID TECHNOLOGY

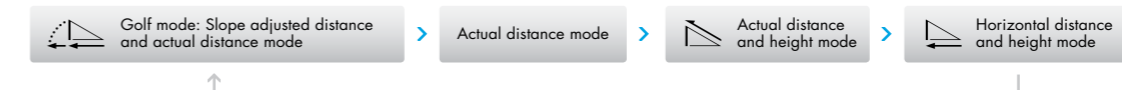
**Displays a guide distance to how far you should hit the ball, reading the uphill and downhill slopes of a course.**

Employing ID Technology that reads the uphill and downhill slopes of a course, Golf mode displays the slope adjusted distance (Horizontal distance  $\pm$  Height) which is a guide distance to how far you should hit the ball. This helps you to choose the right club on an uphill/downhill course where it is often difficult to accurately judge distance.

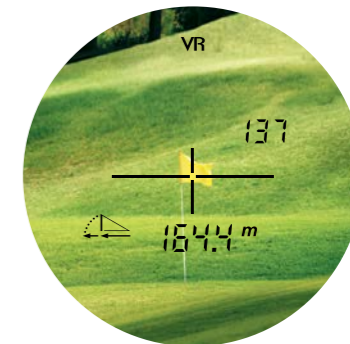
※ Employed models: COOLSHOT 80i VR / COOLSHOT 40i



Measurement display mode cycle



※ For COOLSHOT 40i, the order of the Measurement display mode cycle is Actual distance and height mode, Horizontal distance and height mode, Golf mode, then Actual distance mode.



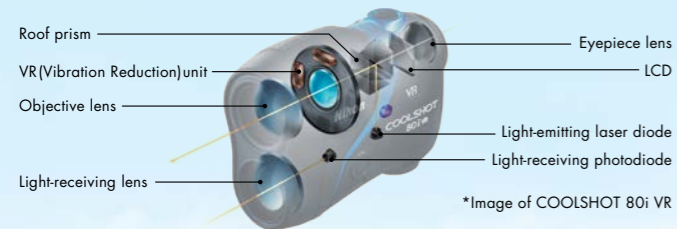
COOLSHOT 80i VR viewfinder display example (for uphill):  
The upper figure shows the "actual distance" while the one below indicates the "slope adjusted distance".

For an uphill shot with an actual distance of 137 meters / 150 yards, the Golf mode displays the slope adjusted distance (164.4 m. / 179.8 yd.), which is the sum of the horizontal distance (133.8 m. / 146.4 yd.) and the height (30.6 m. / 33.4 yd.). You can thus select the right club for even both up and down hill shots.

# MEASUREMENT TECHNOLOGY FOR GOLFERS

## Nikon's system design: Minimised measurement errors

The Nikon Laser Rangefinder's system design meets the exacting requirements of professional golfers. Nikon engineers determined the system design through repeated simulations that enable invisible laser rays to be precisely picked up by a sensing unit. High-quality integrated circuits and sophisticated software not only provide outstanding measurement performance, but also quick response.



## HYPER READ: Quick, consistent measurement response

Nikon's original data processing algorithm, "HYPER READ", displays the distance measurement result with a fast and stable response, regardless of the distance to the target. This enables you to focus on your game with stress-free measurement.

※ Employed models: COOLSHOT 80i VR / COOLSHOT 80 VR / COOLSHOT 40i / COOLSHOT 40

## First Target Priority algorithm: The distance to the closest subject is displayed

Laser beams are projected and reflected off objects. The First Target Priority algorithm displays the range to the nearest target among the multiple results obtained. You can then exactly measure the distance to the flagstick, instead of a background object. This is especially useful for approach shots.

## Continuous measurement: Easy to target a small object

Holding down the power button provides 8-second continuous measurement which minimises the effect of hand shake, enabling easy targeting of a faraway small object like a flagstick.

\* COOLSHOT 40 / COOLSHOT 20 employs one-push continuous measurement.  
By just pressing the button once, you can perform 8-second continuous measurement.

## High-performance viewfinder: Easy viewing

A large ocular with long eye relief design provides a wide field of view and easy viewing. You can easily catch small targets such as flagsticks.

## Multilayer coating: Increased light transmission

Multilayer coating is applied to the lenses for a much brighter and clearer view. This increases light transmission and reduces flare and ghost due to light reflection. You can thus see just about all target objects on the course with clarity.

## Ergonomic body design: Easy operation and comfortable handling

The Nikon Laser Rangefinder's body is built compact, lightweight, and optimised for golfing. While maintaining excellent optical performance, COOLSHOT's easy-to-handle ergonomic body design provides comfortable and stress-free operation.

## All-weather waterproof/fogproof body

The body is filled with nitrogen gas and sealed. The waterproof/fogproof body design means you can use COOLSHOT even in case of a sudden shower without worry. It also prevents the inside of the optical system from fogging or molding even under significant changes in temperature.

\* COOLSHOT 80i VR / COOLSHOT 80 VR are waterproof and fogproof.  
COOLSHOT 40i / COOLSHOT 40 / COOLSHOT 20 has a rainproof body design.



# COURSE TRYOUT

Use the COOLSHOT to effectively measure distance to objects around the fairway and the green, as well as the distance to the exact point where you want the golf ball to land. By knowing the exact distance to your target, you can select the proper club. Of course, you should also consider the wind condition and lie to strategically attack the course.

\* Make sure to check the local rules in advance when using a laser rangefinder in an official competition.



## TEE SHOT

Shot with a dogleg corner



Note: Viewfinder display shown here is a simulated image using the COOLSHOT 40.

A dogleg corner can make estimating distance difficult. In this case, measure the distance to a tree in front of the corner and then the distance to the woods to get the distance to the centre of the fairway. Now you can swing without hesitation.

## SECOND SHOT

Shot with a hazard



Note: Viewfinder display shown here is a simulated image using the COOLSHOT 40.

With a bunker or pond in front of the green, measure the distance to the edge of the green and the distance to the hazard to play it safe.

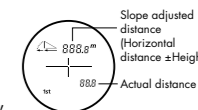
## APPROACH

Uphill shot



Note: Viewfinder display shown here is a simulated image using the COOLSHOT 40i.

On an uphill slope, you may not reach the green without considering height. In cases like this, use a COOLSHOT that's equipped with ID Technology. ID Technology displays the slope adjusted distance, enabling you to hit an accurate shot to reach the green.









**Targeting stability. Measures uphill/downhill slopes.**  
**LOCKED ON function.**

# COOLSHOT 80 i VR NEW

*Slope-adjusted measurement*




VR  

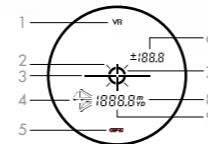
- ☐ VR (Vibration Reduction) function employed NEW
- ☐ LOCKED ON TECHNOLOGY\*: LOCKED ON sign (  ) informs you of the distance to the closest subject. When measuring overlapping subjects, the distance to the closest subject is displayed with a LOCKED ON sign (  ) in the viewfinder. For example, on a golf course, it is clearly visible that the distance to the flagstick has been measured even with trees in the background. NEW
- ☐ Measurement range: 7.5-915 m./8-1,000 yd.
- ☐ ID TECHNOLOGY displays the slope adjusted distance (Horizontal distance  $\pm$ Height) which is a guide to how far you should hit the ball and useful when golfing on an uphill/downhill course.
- ☐ First Target Priority algorithm is employed. When measuring overlapping subjects, the distance of the closest subject is displayed – useful for measuring the distance to a flagstick on a green with woods in the background.
- ☐ Single or continuous measurement (up to 8 seconds)
- ☐ HYPER READ enables quick and stable measurement response regardless of distance
- ☐ Measurement result is displayed in approx. 0.5 seconds
- ☐ High-quality 6x monocular with multilayer coating for bright, clear images
- ☐ Large ocular for easy viewing (18 mm)
- ☐ Long eye relief design affords eyeglass wearers easy viewing
- ☐ Waterproof (up to 1 m./3.3 ft. for 10 minutes) and fogproof ; battery chamber is rainproof
- ☐ Ergonomic design for comfortable holding

\* Single measurement: When measuring overlapping subjects and the distance to the closest subject is displayed, the LOCKED ON sign (  ) appears. Continuous measurement: When displayed figures shift to a closer subject, the LOCKED ON sign (  ) appears.

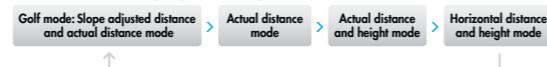


## Internal display

- 1 VR-function-employing model indication
- 2 Laser irradiation mark (  )
- 3 Target mark (  )
- 4 Measurement display mode
- 5 Battery condition
- 6 Height (Actual distance at Golf mode setting)
- 7 LOCKED ON sign — First Target Priority detection sign (  )
- 8 Unit of measure (m./yd.)
- 9 Distance



## Measurement display mode cycle







**Targeting stability. LOCKED ON function.**

# COOLSHOT 80 VR NEW

*Actual distance measurement*




VR 

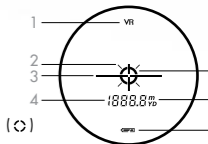
- ☐ VR (Vibration Reduction) function employed NEW
- ☐ LOCKED ON TECHNOLOGY\*: LOCKED ON sign (  ) informs you of the distance to the closest subject. When measuring overlapping subjects, the distance to the closest subject is displayed with a LOCKED ON sign (  ) in the viewfinder. For example, on a golf course, it is clearly visible that the distance to the flagstick has been measured even with trees in the background. NEW
- ☐ Measurement range: 7.5-915 m./8-1,000 yd.
- ☐ First Target Priority algorithm is employed. When measuring overlapping subjects, the distance of the closest subject is displayed – useful for measuring the distance to a flagstick on a green with woods in the background.
- ☐ Single or continuous measurement (up to 8 seconds)
- ☐ HYPER READ enables quick and stable measurement response regardless of distance
- ☐ Measurement result is displayed in approx. 0.5 seconds
- ☐ High-quality 6x monocular with multilayer coating for bright, clear images
- ☐ Large ocular for easy viewing (18 mm)
- ☐ Long eye relief design affords eyeglass wearers easy viewing
- ☐ Waterproof (up to 1 m./3.3 ft. for 10 minutes) and fogproof ; battery chamber is rainproof
- ☐ Ergonomic design for comfortable holding

\* Single measurement: When measuring overlapping subjects and the distance to the closest subject is displayed, the LOCKED ON sign (  ) appears. Continuous measurement: When displayed figures shift to a closer subject, the LOCKED ON sign (  ) appears.



## Internal display

- 1 VR-function-employing model indication
- 2 Laser irradiation mark (  )
- 3 Target mark (  )
- 4 Distance
- 5 LOCKED ON sign — First Target Priority detection sign (  )
- 6 Unit of measure (m./yd.)
- 7 Battery condition



**Fast and Accurate.**  
Measures slope adjusted distance.

## COOLSHOT 40i

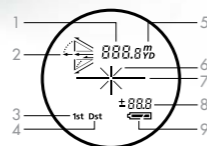
*Slope-adjusted measurement*



- ☐ Measurement range: 7.5-590 m./8-650 yd.
- ☐ ID TECHNOLOGY displays the slope adjusted distance (Horizontal distance  $\pm$ Height) which is a guide to how far you should hit the ball and useful when golfing on an uphill/downhill course.
- ☐ First Target Priority mode is employed. When measuring overlapping subjects, the distance of the closest subject is displayed—useful when measuring the distance to a flagstick on a green with woods in the background.
- ☐ Target Priority Switch System offers two measurement modes: First Target Priority mode and Distant Target Priority mode
- ☐ Single or continuous measurement (up to 8 seconds)
- ☐ HYPER READ enables quick and stable measurement response regardless of distance
- ☐ Measurement result is displayed in approx. 0.5 seconds
- ☐ High-quality 6x monocular with multilayer coating for bright, clear images
- ☐ Large ocular for easy viewing (18 mm)
- ☐ Long eye relief design affords eyeglass wearers easy viewing
- ☐ Rainproof — JIS/IEC protection class 4 (IPX4) equivalent (under our testing conditions)
- ☐ Compact, lightweight and ergonomic design

### Internal display

- 1 Distance
- 2 Measurement display mode
- 3 First Target Priority mode
- 4 Distant Target Priority mode
- 5 Unit of measure (m./yd.)
- 6 Laser irradiation mark (>X)
- 7 Target mark (—+—)
- 8 Height (Actual distance at Golf mode setting)
- 9 Battery condition



### Measurement display mode cycle



**Fast and Accurate.**

## COOLSHOT 40

*Actual distance measurement*



- ☐ Measurement range: 7.5-590 m./8-650 yd.
- ☐ First Target Priority mode is employed. When measuring overlapping subjects, the distance of the closest subject is displayed—useful for measuring the distance to a flagstick on a green with woods in the background.
- ☐ A single press of the POWER ON/Measurement button provides 8-second continuous measurement, which enables measurement even with slight hand movement.
- ☐ HYPER READ enables quick and stable measurement response regardless of distance
- ☐ Measurement result is displayed in approx. 0.5 seconds
- ☐ High-quality 6x monocular with multilayer coating for bright, clear images
- ☐ Large ocular for easy viewing (18 mm)
- ☐ Long eye relief design affords eyeglass wearers easy viewing
- ☐ Rainproof — JIS/IEC protection class 4 (IPX4) equivalent (under our testing conditions)
- ☐ Compact, lightweight and ergonomic design

### Internal display

- 1 Distance
- 2 Target mark (—+—)
- 3 Unit of measure (m./yd.)
- 4 Laser irradiation mark (>X)
- 5 Battery condition



**The pocket-sized, compact and light model.**

## COOLSHOT 20

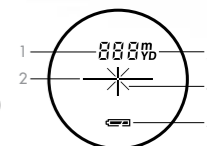
*Actual distance measurement*








- ☐ Measurement range: 5-500 m./6-550 yd.
- ☐ First Target Priority mode is employed. When measuring overlapping subjects, the distance of the closest subject is displayed—useful for measuring the distance to a flagstick on a green with woods in the background.
- ☐ A single press of the POWER ON/Measurement button provides 8-second continuous measurement, which enables measurement even with slight hand movement.
- ☐ High-quality 6x monocular with multilayer coating for bright, clear images
- ☐ Long eye relief design affords eyeglass wearers easy viewing
- ☐ Rainproof — JIS/IEC protection class 4 (IPX4) equivalent (under our testing conditions)
- ☐ Compact, lightweight (approx. 125 g) body

### Internal display

- 1 Distance
- 2 Target mark (—+—)
- 3 Unit of measure (m./yd.)
- 4 Laser irradiation mark (>X)
- 5 Battery condition



FUNCTION  
COMPARISON CHART

	 COOLSHOT 80i VR	 COOLSHOT 80 VR	 COOLSHOT 40i	 COOLSHOT 40	 COOLSHOT 20
Guide for maximum measurement distance to a flagstick*	457 m./ 500 yd.	457 m./ 500 yd.	411 m./ 450 yd.	411 m./ 450 yd.	229 m./ 250 yd.
VR (Vibration Reduction) function	●	●	—	—	—
LOCKED ON TECHNOLOGY	●	●	—	—	—
ID TECHNOLOGY	●	—	●	—	—
HYPER READ (Measurement response)	● (Approx. 0.5 sec.)	● (Approx. 0.5 sec.)	● (Approx. 0.5 sec.)	● (Approx. 0.5 sec.)	—
Continuous measurement	●	●	●	—	—
One-push continuous measurement	—	—	—	●	●
First Target Priority algorithm	●	●	●	●	●
Waterproof/Fogproof	Waterproof/Fogproof	Waterproof/Fogproof	Rainproof	Rainproof	Rainproof

\* Under Nikon's measurement conditions.

TIPS FOR MEASURING DISTANCE TO THE FLAGSTICK



**01 Hold the Laser Rangefinder body steady with both hands to prevent hand movement.**

When targeting a distant small object like a flagstick, hand movement may influence the result. It is best to hold the COOLSHOT body firmly with both hands.

**02 Position the flag at the centre of the target mark in the viewfinder.**

To measure the distance to the flagstick successfully, target the flag, which is larger than the stick. Position the flag on the centre of the target mark (—|—) in the viewfinder. Note that when your target is off-centre from the target mark, the distance to the object cannot be measured.

**03 Keep targeting the flagstick with continuous measurement.**

Continuous measurement function minimises the influence of hand shake or movement. During measurement, the measured distance is displayed consecutively. To obtain distance to the flagstick, keep targeting the flag on the centre of the target mark.

SPECIFICATIONS		COOLSHOT 80 i VR	COOLSHOT 80 VR	COOLSHOT 40 i	COOLSHOT 40	COOLSHOT 20
Measurement range		7.5-915 m./8-1,000 yd.	7.5-915 m./8-1,000 yd.	7.5-590 m./8-650 yd.	7.5-590 m./8-650 yd.	5-500 m./6-550 yd.
Measuring accuracy *1 (actual distance)		±0.75 m./yd. (shorter than 700 m./yd.) ±1.25 m./yd. (700 m./yd. and over)	±0.75 m./yd. (shorter than 700 m./yd.) ±1.25 m./yd. (700 m./yd. and over)	±0.75 m./yd.	±0.75 m./yd.	±1 m./yd. (shorter than 100 m./yd.) ±2 m./yd. (100 m./yd. and over)
Distance display : Increment		Actual distance (upper): every 1 m./yd.  Actual distance (lower): every 0.5 m./yd.  Horizontal distance/Slope adjusted distance (lower): every 0.2 m./yd.  Height (upper): every 0.2 m./yd. (shorter than 100 m./yd.) every 1 m./yd. (100 m./yd. and over)	Actual distance: every 0.5 m./yd.	Actual distance (upper): every 0.5 m./yd.  Actual distance (lower): every 1 m./yd.  Horizontal distance/Slope adjusted distance (upper): every 0.2 m./yd.  Height (lower): every 0.2 m./yd. (shorter than 100 m./yd.) every 1 m./yd. (100 m./yd. and over)	Actual distance: every 0.5 m./yd.	Actual distance: every 1 m./yd.
Finder	Magnification (x)	6	6	6	6	6
	Effective objective diameter (mm)	21	21	21	21	20
	Actual field of view (°)	7.5	7.5	7.5	7.5	6.0
	Exit pupil (mm)	3.5	3.5	3.5	3.5	3.3
	Eye relief (mm)	18.0	18.0	18.3	18.3	16.7
Dimensions (LxHxW) (mm/inch)		99×75×48/3.9×3.0×1.9	99×75×48/3.9×3.0×1.9	112×70×36/4.4×2.8×1.4	112×70×36/4.4×2.8×1.4	91×73×37/3.6×2.9×1.5
Weight (excluding battery) (g)		200	200	160	160	125
Power source		CR2 lithium battery x 1 (DC 3V) Auto power shutoff function equipped (after 8 sec.)				
Waterproof structure*2		Waterproof*3 (Battery chamber rainproof*4) / fogproof		Rainproof *4		
EMC		FCC Part15 SubpartB class B, EU: EMC directive, AS/NZS, VCCI class B, CU TR 020				
Safety		IEC60825-1: Class 1M/Laser Product    FDA/21 CFR Part 1040.10: Class I Laser Product				
Environment		RoHS, WEEE				

The specifications of these products may not be achieved depending on the target object's shape, surface texture and nature, and/or weather conditions. \*1 Under Nikon's measurement conditions. \*2 Rangefinders may not be able to make a measurement due to raindrop interference. \*3 Waterproof up to 1 m./3.3 ft. for 10 minutes (but not for underwater usage). \*4 Rainproof – JIS/IEC protection class 4 (IPX4) equivalent (under our testing conditions) \*Note: The technology behind the Laser Rangefinder with inclinometer originated from technology incorporated in Nikon's Total Station DTM-1 surveying instrument. The Total Station DTM-1, first sold in 1985, was the first highly advanced electronic model of those surveying instruments that incorporated a distance and angle measuring capability developed by Nikon Corporation.

Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer.  
The colour of products in this brochure may differ from the actual products due to the colour of the printing ink used.

December 2016

©2016 NIKON VISION CO., LTD.



# **WARNING**

**Never look at the sun directly through optical equipment.  
It may cause damage to or loss of eyesight.**



## **Nikon Europe B.V.**

Tripolis 100  
Burgerweeshuispad 101  
1076 ER Amsterdam  
The Netherlands

[www.europe-nikon.com](http://www.europe-nikon.com)

## **NIKON VISION CO., LTD.**

Nikon Futaba Bldg.  
3-25, Futaba 1-chome  
Shinagawa-ku, Tokyo 142-0043  
Japan

[www.nikon.com/sportoptics](http://www.nikon.com/sportoptics)



**En**