



KILO[®]

KILO850™ 4x20mm DIGITAL LASER RANGEFINDER KILO1250™ 6x20mm DIGITAL LASER RANGEFINDER







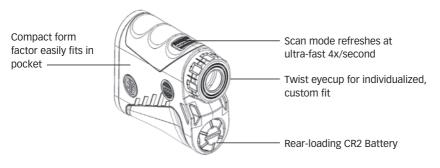
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SIG SAUER [®] Electro-Optics Infinite Guarantee™

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INTRODUCTION

Congratulations on the purchase of your SIG SAUER® KILO850[™] or KILO1250[™] Laser Rangefinders. The KILO850[™] and KILO1250[™] are the most advanced, yet simple to use rangefinders on the market and feature the fastest, digital signal processing engine while streamlining the user interface for a no hassle, out of the box experience.





CONTENTS:

- KILO850[™] or KILO1250[™] Digital Laser Rangefinder
- CR2 Battery (1)
- Premium Padded Ballistic Nylon Case
- Lanyard

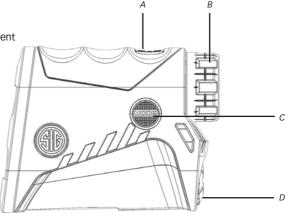
KEY FEATURES:

- 4x20mm or 6x20mm monocular with SpectraCoat[™] anti-reflection coatings for superior light transmission and optical clarity.
- Revolutionary Lightwave™ DSP Technology for the fastest and longest distance rangefinder engine.
- HyperScan provides 4 range updates per second in scan mode while RangeLock reports the last range result when ranging distant targets.
- Features line of sight or angle modified range. Units in yards or meters to tenth Y/M resolution.
- Transmissive LCD display in the KILO850 or High Transmittance LCD display in the KILO1250.
- Compact, lightweight polymer housing with diopter adjustment.
- Simplified user interface with RANGE and MODE buttons only.
- Sleek design for one handed operation and lanyard attachment points.



PRODUCT IDENTIFICATION:

- A- Power/Range Button
- B- Eyecup / Diopter Focus Adjustment
- C- Mode Button
- **D- Battery Compartment**



LIGHTWAVE[™] DSP TECHNOLOGY

SIG SAUER's proprietary Lightwave DSP engine leverages HyperScan – an advanced power management technique that provides the fastest refresh rate in scan mode (4 times per second) even at distances up to a mile. Our DSP engine uses the latest generation field programmable gate array (FPGA) running sophisticated signal processing algorithms to reduce false positives while finding weak or distant targets.

RANGING ACCURACY, RESOLUTION AND MAXIMUM RANGES

The KILO850[™] and KILO1250[™] provide line of sight or angle modified range information accurate to ±0.5 yards or meters out to 500 yards; ±1 yard from 500 - 1000 yards and ±2 yards beyond 1000 yards. Range is displayed in 0.1 yard or meter resolution.

RANGING PERFORMANCE IN HYPERSCAN MODE					
	Reflective	Trees	Deer		
KILO850™	Up to 1,200 yds	Up to 800 yds	Up to 600 yds		
KIL01250™	Up to 1,600 yds	Up to 950 yds	Up to 750 yds		



LINE OF SIGHT (LOS) AND ANGLE MODIFIED RANGE (AMR™)

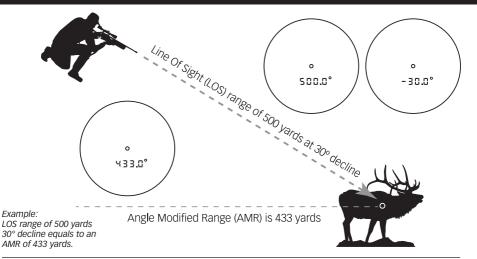
The KILO850[™] and KILO1250[™] provide 2 simple modes of operation. Line of sight is the range to the target independent of angle. It is comparable to the "hypotenuse" of a triangle. When ranging in LOS mode, the distance is displayed in addition to the angle of incline. This method is preferred for those long range shooters and hunters wanting to use the LOS range and angle of incline to calculate a very precise holdover using a ballistic calculator smartphone application and/or wind measurement device.

Angle modified range is the equivalent horizontal range to the target and is comparable to the "horizontal leg" of a triangle. AMR is also known as "rifleman's rule" and uses the LOS range and angle of incline to calculate the horizontal distance the projectile travels between shooter and target. AMR is very accurate for most shooters and archers and should be used in most situations.

In this example, if the rangefinder is in LOS mode the line of sight range of 500 yards would be displayed and toggle back and forth displaying "500.0 y" (yards) and "-30.0" (degrees decline). Use LOS in combination with a ballistic calculator to calculate an exact holdover in minutes of angle or milliradians.

If the rangefinder is in AMR mode the angle modified range of 433.0 yards would be displayed. This is the equivalent horizontal range and can be used in combination with a ballistic / holdover reticle or with the SIG Ballistic Turret SBT^m dial.

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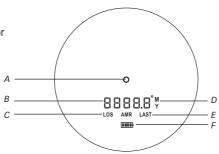




LIQUID CRYSTAL DISPLAYS (LCD)

Both the KILO850[™] and KILO1250[™] use LCD displays, however, the KILO1250 has an upgraded, high-transmittance LCD display which provides almost 50% more light transmission over conventional LCDs. This becomes important in low light situations.

- A- Circle center aiming feature this is your aiming feature or reticle to determine range
- B- 5 Character alphanumeric digits for range and angle display
- C- LOS and AMR selection
- D- M and Y unit of measure selection
- E- LAST target selection
- F- Battery Status indicator







Safety and Operation Procedures

The KILO850[™] and KILO1250[™] are classified as Class 3R products. There are a few precautions that are important to remember:

- Do not depress the RANGE button while aiming at the human eye or while looking into the transmitting optics on the objective side
- Do not leave the KILO850/KILO1250 within reach of small children
- Do not take the product apart or modify the product in any way to expose internal electronics that might cause damage or electric shock
- Do not use any other power source other than a CR2 battery or equivalent.

OPERATION

The KILO850 and KILO1250 were designed to get you up and running without the typical complexity of buried menus and programming modes. The rangefinders come out of box in the following configuration:

(a) Best Target (rangefinder returns the best or most likely target, not the first or last)

(b) Angle Modified Range (equivalent horizontal range)

(C) Units of Measure in Yards

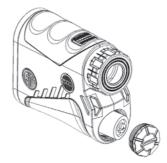


SET UP

Installing the Battery

Remove the battery cap by turning the cap in a counter-clockwise direction. Insert (1) CR2 Primary Lithium battery (-) terminal side first. The (+) terminal should be facing out. Place the cap onto the (+) battery terminal and reinstall the battery cap by turning the cap in the clockwise direction.

A CAUTION - Be careful to not cross-thread the cap.

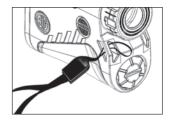


After installation of the battery and depressing the RANGE button, the status of the rangefinder is displayed:



Installing the Lanyard

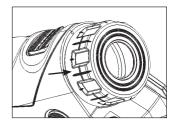
Install the lanyard loop through the lanyard attachment point. Pass the lanyard back through the loop for secure attachment.





Diopter Adjustment

The diopter or focus adjustment is integral to the eyecup. The focus adjustment is used to bring the LCD display into sharp focus along with the target image. The diopter adjustment can turn clockwise or counter-clockwise depending upon the user's prescription

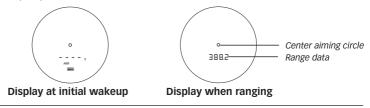


DISPLAY INFORMATION

The LCD displays show you the center aiming circle, the unit of measure (Y), Angle Modified Range mode (AMR) and the remaining battery status. The display will remain active for up to 10 seconds. You can then press the RANGE button to determine range to target.

If you press the RANGE button while the rangefinder is off and continue to hold the RANGE button down, the rangefinder will automatically switch into SCAN mode within 1 second.

After determining the distance to the target, the rangefinder will continue to display the center aiming circle and range data for 10 seconds – and only the range data. All other information is not shown after initial wakeup to prevent clutter in the field of view.





HyperScan MODE

While the rangefinders support single button push ranging operation, it is highly recommended that you push and hold the RANGE button down to activate HyperScan mode. This mode allows you to scan targets at 4X/second which significantly improves ranging performance at extreme distances. As the ranging distances are updated very quickly in HyperScan mode, once you release the RANGE button the last acquired distance will be displayed. When in HyperScan mode ranging distant targets, the display may update between no result and a distant range - by using RangeLock technology the rangefinder will report the last range result when the RANGE button is released.

CHANGING MODES OF OPERATION

The rangefinders ship with the most common modes already configured. However, you can access and change the following features:

- Best or Last Target
- Line of Sight (LOS) or Angle Modified Range (AMR)
- Units of Measure (Y or M)

PROGRAMMING SEQUENCE

The sequence of the programming steps has been calibrated to reflect the frequency of potential setting changes, for example it is more likely that you would change from BEST to LAST target so it is the first programming step, whereas Unit of Measure (Y or M) is the last programming step as you will likely set that once and leave it in that setting.

1. BEST or LAST Target

To enter programming mode, press and release the RANGE button to wakeup the rangefinder. After wakeup, press and hold the MODE button for 2 seconds, then release the MODE button and the current selection will be flashing (BEST is default). You can toggle between BEST and LAST by pressing the RANGE button. Your selection will be flashing BEST of LAST. You can confirm your selection by pressing and releasing the MODE button – which will cause the Target Mode to stop flashing and save your selection. The rangefinder will then index to the next programming mode which is OLED Display Brightness. If you do not press and release the MODE button the rangefinder will save your displayed setting (BEST or LAST) and turn off. BEST Target Mode can be used in most settings, however when hunting through foliage or in high grass the LAST Target Mode is recommended.



2. Line of Sight (LOS) or Angle Modified Range (AMR)

After selecting and saving OLED Display Brightness, the rangefinder will then index to the next programming mode which is LOS or AMR. Your current selection will be flashing (AMR is default). You can toggle between LOS and AMR by pressing the RANGE button. You can confirm your selection by pressing and releasing the MODE button – which will cause LOS or AMR to stop flashing and confirm your selection. The rangefinder will then index to the next programming mode which is Unit of Measure. If you do not press and release the MODE button the rangefinder will save your displayed setting (LOS or AMR) and turn off. If you choose LOS Mode, the rangefinder will display the Line of Sight range independent of angle of incline or decline. However, when set to LOS Mode and ranging targets, after the RANGE button is released, the rangefinder will alternatively display every two (2) seconds for up to ten (10) seconds, the last LOS range distance acquired and the corresponding angle of incline or decline for that last distance acquired. The distance value will be shown with the Unit of Measure (Y or M), while the angle of incline or decline will be a numerical value only. This method is supported for those long range shooters that need to know both the LOS range and angle, especially when used in combination with a ballistic drop calculator. If you choose AMR mode, the rangefinder will display only the Angle Modified Range, as explained elsewhere in this instruction manual.

3. Unit of Measure - Yards (Y) or Meters (M)

After selecting and saving LOS or AMR, the rangefinder will then index to the next programming mode which is Unit of Measure, Yards (Y) or Meters (M). Your current selection will be flashing (Y is default). You can toggle between Y and M by pressing the RANGE button. You can confirm your selection by pressing and releasing the MODE button – which will cause Unit of Measure to stop flashing and confirm your selection. The rangefinder will then index out of programming mode and is ready to range targets. If you do not press and release the MODE button the rangefinder will save your displayed setting (Y or M) and turn off.



FREQUENTLY ASKED QUESTIONS (FAQ):

Q: Why does the display switch back and forth in numbers sometimes? Sometimes the number is negative?

A: When in Line of Sight mode (LOS), the rangefinders display the distance to the target independent of angle of incline or decline. In addition to displaying the LOS range, the rangefinders will then toggle back and forth between the LOS range and the angle.

Q: I can't get the display to focus.

A: You need to adjust the diopter ring to your vision. Rotate the eyecup / diopter ring in either direction to accommodate your unique prescription.

Q: I can't seem to range very far past trees.

A: The rangefinders will have very different performance based on changes in ambient conditions such as bright sunlight or snow, rain or fog, temperature and the reflectivity of the target being ranged. For example, at dusk or dawn your rangefinder may be able to range trees at over 1000 yards but in bright sunlight may only achieve 500 yards. This is normal, however, the KILO850TM/KILO1250TM are the highest performance compact rangefinder available.

Q: My battery seems to drain too fast.

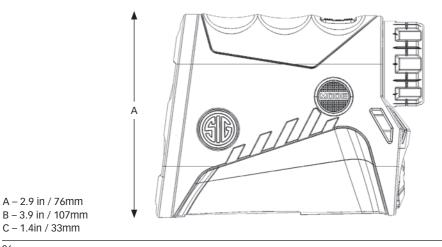
A: Most commercial rangefinders will provide over 4000 individual range calculations using a fresh CR2 primary lithium battery. Your KILO850/KILO1250 exceeds this specification, however, when heavily using Scan mode this will cause the battery to drain much faster as the FPGA remains active at all times and you will quickly exceed 4000 range calculations due to the HyperScan mode. This is normal operation but you should always keep a spare CR2 battery when heading out to remote locations.



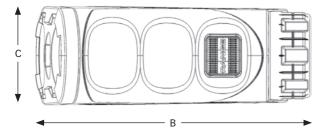
KIL0850 SPECIFICATIONS			
Magnification	4x		
Objective Clear Aperture	20mm		
Exit Pupil	5mm		
Eye Relief	24mm		
Angular (FDV)	8.3°		
FOV @ 100yds	43.77 ft		
Laser Divergence	1.9 mrad		
Range Response Time	.25 sec		
Scanning	Yes		
Range Resolution Under 100 yds	.1 yds		
Max Range	Reflective up to 1,200 yds	Trees up to 800 yds	Deer up to 600 yds
Weight with Battery	5 oz / 140 g		

KIL01250 SPECIFICATIONS			
Magnification	6х		
Objective Clear Aperture	20mm		
Exit Pupil	3.33mm		
Eye Relief	15mm		
Angular (FDV)	6.5°		
FOV @ 100yds	34.18 ft		
Laser Divergence	1.9 mrad		
Range Response Time	.25 sec		
Scanning	Yes		
Range Resolution Under 100 yds	.1 yds		
Max Range	Reflective up to 1,600 yds	Trees up to 950 yds	Deer up to 750 yds
Weight with Battery	5 oz / 140 g		





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A DANGER

CLASS 3R LASER PRODUCT INVISIBLE LASER RADIATION - AVOID DIRECT EYE EXPOSURE

This product complies with IEC 60825-1: 2014-05 Ed 3.0 and complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

P o < 14W, λ = 905 nm, t = 22 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 equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with these instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause interference to radio or television reception the user is encouraged to try to correct the interference by one or more of the following:

- · Reorient or relocate the receiving antenna
- · Increase the separation between this product and the receiver
- · Connect the equipment to an alternative outlet or receiver
- · Consult a technician.

Shielded interference cable must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

Specifications and designs are subject to change without any notice or obligation on the part of the manufacturer.

A CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.







SIG SAUER Electro-Optics Infinite Guarantee™

SIG SAUER has manufactured the most rugged, dependable high-performance firearms for over two centuries. Our heritage of design, engineering and precision-manufactured quality predates the existence of any other optics company worldwide. We understand the importance of quality in the line of fire, at the shooting range or on your next hunt. SIG SAUER Electro-Optics had to earn the right to wear that badge and the Infinite Guarantee has your back, forever. Period.

We will repair or replace your SIG SAUER product in the event it becomes damaged or defective, at no charge to you. If we cannot repair your product, we will replace it with a product in perfect working order of equal or better physical condition. It doesn't matter how it happened, whose fault it was, or where you purchased it.

SIG SAUER Infinite Guarantee™

- Unlimited Lifetime Guarantee
- Fully Transferable
- No Warranty Card Required
- No Receipt Required
- No Time Limit Applies
- No Charge

If you ever have a problem, no matter the cause, we promise to take care of you when it counts. Please note that our Infinite Guarantee does not provide coverage for intentional damage, misuse, cosmetic damage that does not affect the performance of the optic, loss, theft or unauthorized repair or modification. Excludes electronic components.



SIG SAUER Electronic & Tritium Component Limited 5-Year Warranty For components not included under the SIG SAUER® Infinite Guarantee™, this warranty covers any defects in materials and workmanship in the electronic and Tritium components of illuminated riflescopes/sights, pistol sights, electronic sights, flashlights, lasers, binoculars, spotting scopes, and rangefinders. This warranty lasts for five years from the date of manufacture. If, during that five-year

period, these products are found to have electronic or Tritium component defects in materials or workmanship, SIG SAUER will repair your product, at no charge to you. If we cannot repair your product, we will replace it with a product in perfect working order of equal or better physical condition.



FOR PRODUCT SERVICE ON THIS MODEL, PLEASE CALL 603-610-3000

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