BDX™ 2.0

KILO®

APPLIED BALLISTICS
THE SCIENCE OF ACCURACY

Bluetooth®

KILO WARP 6K
ADVANCED RANGEFINDING BALLISTIC CALCULATOR

OPERATOR'S MANUAL

SIG SAUER®

SIG SAUER

TABLE OF CONTENTS

1.0 INTRODUCTION

The KILO WARP™ rangefinder was built to meet the uncompromising demands of the modern shooter—where milliseconds matter and precision is mission-critical. Harnessing the proven speed of SIG SAUER's GEN II LightWave DSP ranging engine, WARP delivers lightning-fast performance and accuracy on finite targets through fog, rain, and dust.

With an advanced onboard ballistic solver powered by Applied Ballistics®, and real-time environmental sensors, WARP doesn't just measure, it calculates and solves. Every reading becomes a customized shoot-to solution, with precision backed by tested technology and real-time data.

Designed for rugged environments yet compact enough to streamline your loadout, the WARP's recoil-hardened chassis ensures point-of-impact and point-of-aim remain consistent over time, no matter how punishing the conditions.

Whether you're up against the stage timer or chasing long-range impacts, the KILO WARP is your insurance policy for precision and speed.

2.0 CONTENTS

- KILO WARP 6K
- Wireless Pressure Pad
- 1913 Mount
- M-LOK Mount
- Universal Mount
- 1620 Battery
- 1/8" Hex L-key
- 3/32" Hex L-key
- CR123A Battery
- Lens Cleaning Pen
- Optic Muli-tool
- T27 Torx L-Key
- Quick Reference Instructions

The most recent Operator's Manual can be downloaded from the SIG SAUER website and can also be accessed through the free BDX App.

3.0 KEY FEATURES

- Onboard Environmental Sensors And Digital Compass For Real-Time Ballistic Calculations
- Applied Ballistics Elite With Complete AB Bullet Database And Custom Drag Curves
- Direct Wind Input For Instant Modification To Wind Speed And Direction
- Drop Remote Waypoints With Basemap, OnX, Google Maps, and Apple Maps
- Configure Ballistic Profiles With The BDX 2.0 APP and Store Up To 25 Profiles Onboard
- Daylight Bright Green Visible Zeroing Laser
- Cross-bolt Picatinny Mount

4.0 SAFETY AND OPERATION PROCEDURES

WARNING LASER

- **THE KILO WARP® IS CLASSIFIED AS A CLASS 3R PRODUCT.**
- **DO NOT PRESS THE RANGE BUTTON WHILE AIMING AT THE HUMAN EYE OR WHILE LOOKING INTO THE TRANSMITTING OPTICS ON THE OBJECTIVE SIDE.**
- **DO NOT LEAVE THE KILO 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 CR123A BATTERY OR EQUIVALENT.**
- **BEFORE WORKING WITH ANY FIREARM, ALWAYS ENSURE THAT THE FIREARM IS UNLOADED, CLEARED, AND THE SAFETY IS ENGAGED TO PREVENT SERIOUS INJURY OR DEATH TO YOU OR A BYSTANDER.**

⚠ WARNING

- INGESTION HAZARD: This product contains a button cell or coin battery.
- DEATH or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause Internal Chemical Burns in as little as 2 hours.
- KEEP new and used batteries OUT OF REACH of CHILDREN.
- Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.

- Keep in original package until ready to use.
- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- For treatment information call, The National Battery Ingestion Hotline (NBIH) 1–(800) 498–8666.Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Compatible battery: CR1620 Nominal voltage: 3V

⚠ WARNING

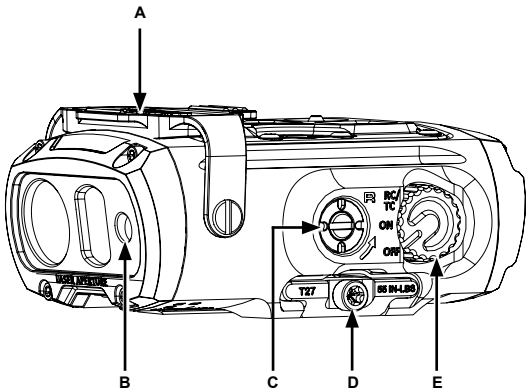
- Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- Ensure the batteries are installed correctly according to polarity (+ and -).
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above 140°F (60°C) or incinerate. Doing so may result in injury due to venting, leakage or explosion, resulting in chemical burns.
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

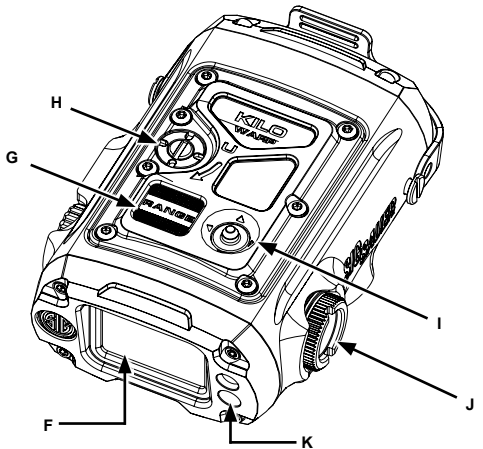
WARNING: CANCER AND REPRODUCTIVE HARM—www.P65warnings.ca.gov

5.0 PRODUCT IDENTIFICATION

5.1 KILO WARP

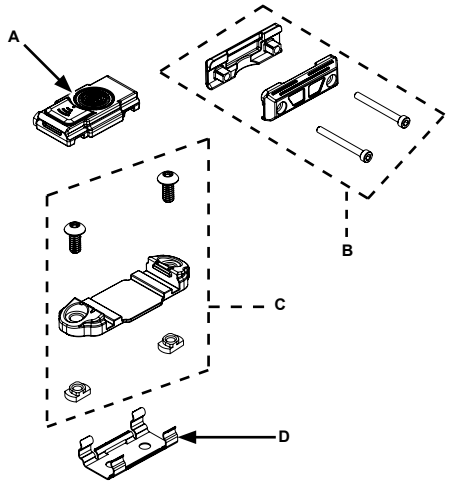
A. Lens Cover
B. Laser Aperture
C. Windage Adjustment
D. Mounting Bolt
E. Power/Mode Selector
F. Display
G. Range Button
H. Elevation Adjustment
I. 5-way Joystick
J. Battery Compartment
K. Environmental Sensors





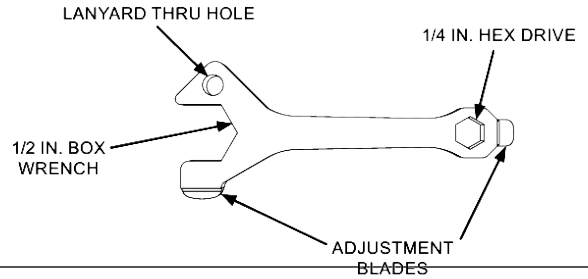
5.2 WIRELESS BUTTON

A. Wireless Button
B. 1913 Adapter
C. M-LOK Adapter
D. Universal Adapter



5.3 OPTIC TOOL

An optic multi-tool is included with the Kilo WARP. The open box-end is designed for 1/2 in. hex nuts. There are (2) adjustment blades for adjusting the windage and elevation dials on the WARP and other optics. A 1/4 in. hex drive bit slot can be used with an 1/4 in. drive bit. The adjustment blade next to the wrench is designed to be used on battery compartments with coin solts. Lastly there is a retaining hole located on the box end intended for lanyards and key rings.



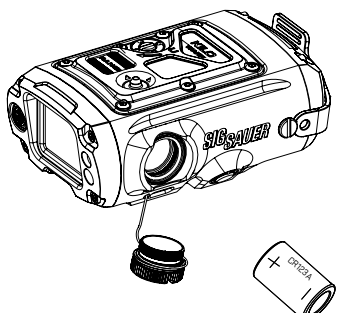
6.0 INSTALLATION AND SETUP

CAUTION

BE CAREFUL NOT TO CROSS-THREAD BATTERY CAP DURING INSTALLATION.

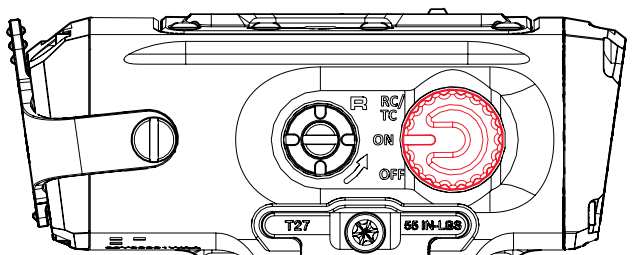
6.1 INSTALLING THE BATTERY

Remove the battery cap by turning the cap in a counterclockwise direction. Insert a CR123A battery (+) terminal side first. Place the cap onto the (–) battery terminal and reinstall the battery cap by turning clockwise.



6.2 POWER

After installation of the battery, turn the power switch to the on position, and the main screen of the KILO WARP will appear.

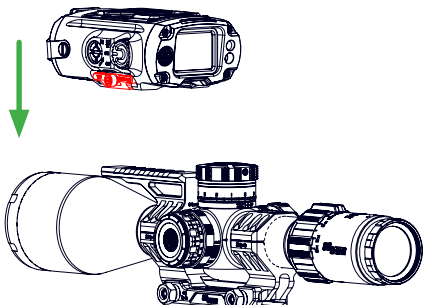


6.3 INSTALLING THE WARP TO A RAIL SYSTEM

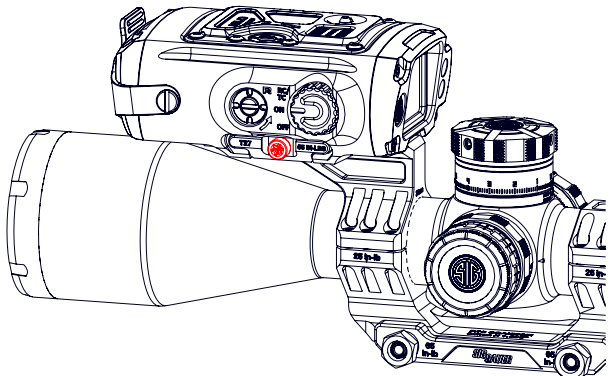
WARNING UNLOAD/CLEAR

BEFORE WORKING WITH ANY FIREARM, ALWAYS ENSURE THAT THE FIREARM IS UNLOADED, CLEARED, AND THE SAFETY IS ENGAGED TO PREVENT SERIOUS INJURY OR DEATH TO YOU OR A BYSTANDER.

1. Loosen the screw for the KILO WARP's rail system using a Torx T27 drive bit if necessary and place it on a picatinny rail diving board mount or an accessory rail.

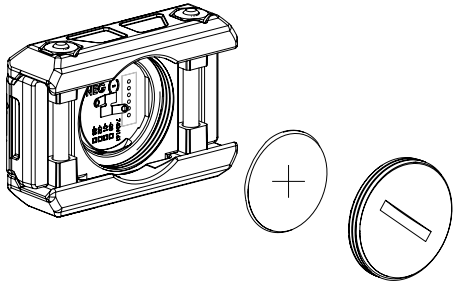


2. While tightening the mounting bolt, push the WARP toward the muzzle, torque highlighted cross bolt to 55 IN-LBS using a T27 torx driver.



6.4 WIRELESS BUTTON INSTALLATION

1. Use multi-tool coin blade to unscrew battery cap.
2. Place a 1620 battery into the battery compartment with the (+) terminal facing outward and the (-) terminal facing the wireless button.

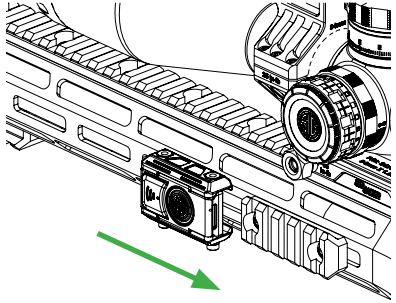


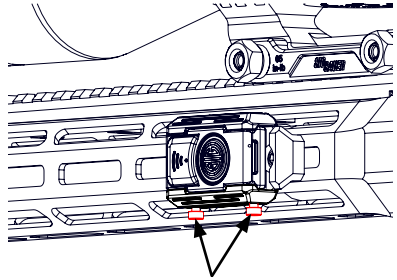
There is no need to pair the wireless button. The button comes paired from the factory to your KILO WARP.

There are three ways to mount the wireless button, each included with the WARP:

a. M-LOK adapter
b. 1913 adapter
c. Universal adapter

EXAMPLE INSTALLATION: PICATINNY RAIL

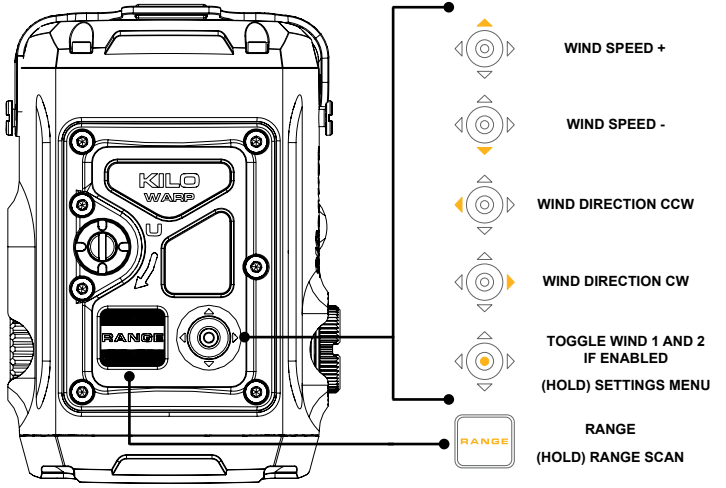




7.0 CONTROLS

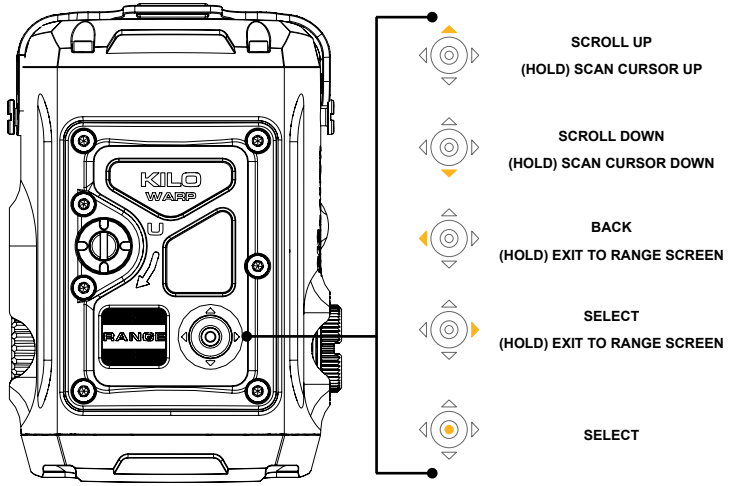
RANGE SCREEN

RANGE SCREEN CONTROLS



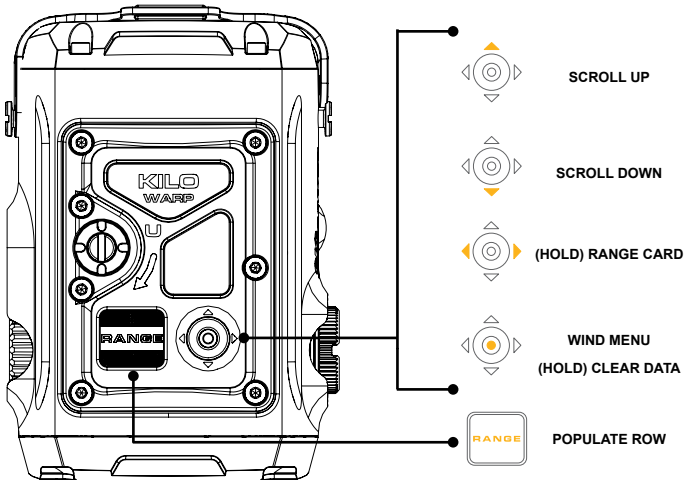
MAIN MENU SETTINGS

MAIN MENU CONTROLS



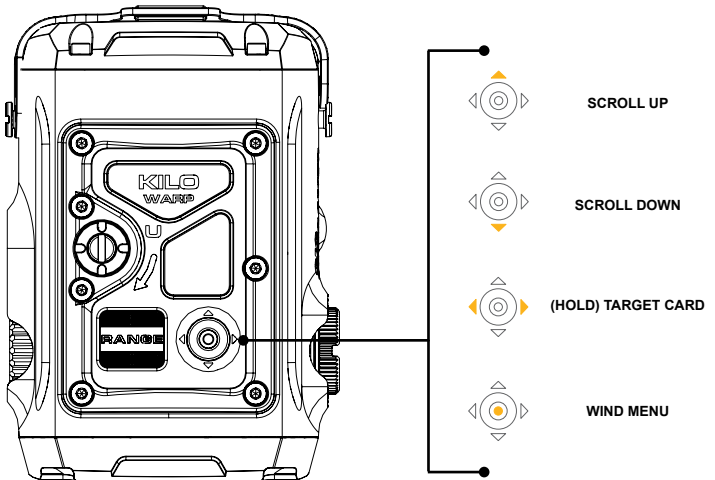
TARGET CARD MENU

TARGET CARD MENU CONTROLS



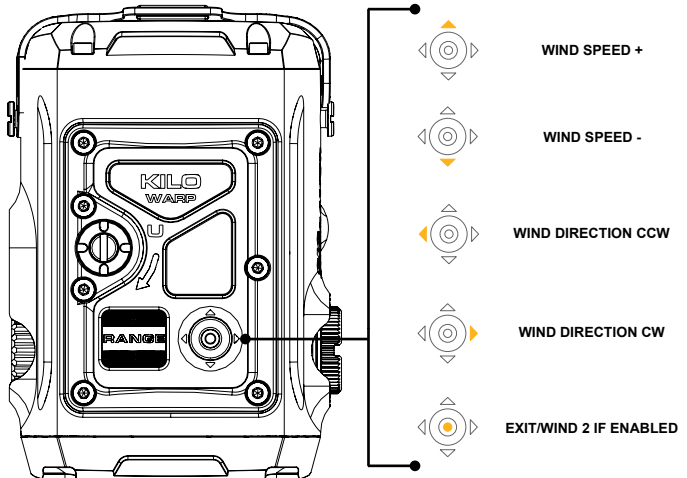
RANGE CARD MENU

RANGE CARD MENU CONTROLS



RANGE CARD/TARGET CARD WIND MENU

RANGE CARD/ TARGET CARD WIND MENU CONTROLS



8.0 ALIGNMENT

1. Measure Offset
    a. Scan the QR code for a printable example alignment target.
    b. Measure sight to laser offset for a parallel zero.
2. Enable Visible Laser

WARNING

DO NOT ACTIVATE THE VISIBLE LASER WHILE AIMING AT THE HUMAN EYE OR WHILE LOOKING INTO THE TRANSMITTING OPTICS ON THE OBJECTIVE SIDE.

    a. After battery is installed and the WARP is powered on, enter the Settings Menu.
    b. Navigate to “Visible Laser” and activate. Press the back button to disable the laser.
3. Adjust Optic
    a. Use windage/elevation adjustments on the KILO WARP to align with the visible laser with the alignment target.

9.0 SETTINGS MENUS

9.1 BALLISTICS PROFILE

Within the “Ballistics Profile” submenu, you will see all of your custom bullet profiles that have been created in the BDX App and synced with your KILO WARP.

9.2 RANGE MODE

Select how the range data is used and displayed.

- AB Elite: provides a solution for the selected profile with the onboard calculator.
- AB External: communicates with another AB device to calculate a solution.
- Angle modified: provides the equivalent horizontal distance to the target.
- Line of Sight: displays the direct distance to the target along with the angle.

9.3 TARGET MODE

- First: the WARP will return the closest (first) target detected.
- Last: the WARP will return the furthest (last) target detected.
- Best: the WARP will return the object with the strongest signal return lased.

9.4 DEVICE SETTINGS

DISPLAY BRIGHTNESS

- Auto: adjusts the display backlight to match the surrounding conditions.
- High, Medium, and Low: fixed settings that will adjust the brightness of the screen.

HOLD INDICATOR

Solutions can be displayed with three choices to indicate hold over/under and hold off left/right.

- Hold +/ –
- Hold arrows (directional arrow)
- Hold U/L (U/D and L/R)

ORIENTATION

The KILO WARP can be mounted horizontally or vertically, and the Orientation setting can adjust the screen to be viewed from either direction.

- Landscape when mounted horizontally.
- Portrait Left/Right can be used for vertical installation.

SOLUTION PRECISION

Display one or two decimal places of precision for ballistic calculations

- Rounded (ex. 3.2)
- Precise (ex. 3.24)

THEME

Colors may be inverted for a dark or light color theme.

- Dark
- Light

CUSTOMIZE FIELDS

The last row of the range display can display of the following

- Aerodynamic Jump: vertical wind component
- Density Altitude: equivalent air density
- Horizontal Coriolis: horizontal earth spin component
- Spin Drift: horizontal movement of the projectile during travel
- Temperature: temperature of current surroundings
- None: blank field
- Retained Energy: bullet energy at impact
- Retained Velocity: bullet velocity at impact
- Time of Flight: total flight time
- Vertical Coriolis: vertical earth spin component

HAPTIC

KILO WARP 6K contains a haptic feedback motor which gives a tactile alert to the user.

- Levelplex: Alerts when crossing between in and out of level condition.
- Range Return: Alerts when a range is returned from a ranging event.
- Range fail: Alerts when no range is retuned form a ranging event.

UNIT OF MEASURE

Each submenu offers different forms of measurement to configure the WARP to the operator’s preferences.

- Distance: Yards or Meters
- Temperature: Fahrenheit or Celsius
- Wind Speed: MPH (miles per hour) or MPS (meters per second)
- Ret Energy: ft-lbs or joules
- Ret Velocity: FPS (feet per second) or MPS (meters per second)
- Density Altitude: Feet or meters
- Holdover: Solution units are configured in the ballistic profile.

WIND

- Increment step: adjust the increment/decrement value of each 5-way joystick press. The steps available are (.5, 1,2,4,5), meaning that whatever number is chosen is how many units of measure up or down the wind adjustment will move when the joystick is pressed.
- Direction: The left and right buttons of the 5-way joystick control the wind direction.
  - Clock: the L/R joystick buttons will adjust the wind direction around 12 points clockwise/counterclockwise.
  - L or R: the L/R joysticks will only switch between two values on the clock, 3 and 9 o'clock.
- Wind2: The device can be configured to calculate 2 wind values for each solution. For users that don't wish to use this feature, wind input can be simplified to a single wind magnitude.

STARTUP LOGO

Bypass the startup splash screen for a faster boot time, or turn the logo on to see the screen load each startup.

9.5 FEATURE SETTINGS

LEVELPLEX

- Onboard 6-axis accelerometer digital compass can be configured for 1, 2, or 3 degree accuracy. When out-of-level, a triangle will be displayed in the top corner of the display indicating the direction to correct cant. If Levelplex is enabled in "Haptic" settings, the KILO WARP will indicate with haptic feedback in-level and out-of-level conditions according the degree of Levelplex accuracy selected.

MOTAC™ (STANDBY AUTO-SHUTDOWN)

- In order to extend battery life, MOTAC senses device activity and will power down the unit when not in use. Off will disable the auto-shutdown feature. The other modes are listed in minutes of Backlight/Screen/Device power down.

RANGE CARD

- Selecting the RC/TC on the power knob will bring up range and target cards built with current environmental data. This menu will allow you configure the beginning, ending, and intervals of the Range Card entries as well as scrolling behavior and configuring data for the right column.

TARGET CARD

- Selecting the "RC/TC" on the power knob will bring up range and target cards built with current environmental data. The target card allows you to range targets and populate them into a list. The right column of the card can be configured to show different dates. See "Menu" → "Customize Fields".

SOLVER

Some users may choose to disable some calculations of the solver. This menu allows those to be configured.

- Aerodynamic Jump (On/Off)
- Spin Drift (On/Off)
- Coriolis (On/Off)

9.6 CONNECTIVITY AND SYSTEM

DEVICE BOND

Use this to connect to a BDX-enabled Sierra or Bravo riflescope.

ONBOARD SENSORS

View live data collected from the onboard sensors and select to use onboard temperature sensors or override the temperature reading.

- View Sensors
  - Temperature
  - Pressure
  - Humidity
  - Azimuth
  - Incline
  - Cant
  - Latitude
  - Declination
- Temperature
  - Auto/Manual

9.7 VIS LASER

WARNING

DO NOT ACTIVATE THE VISIBLE LASER WHILE AIMING AT THE HUMAN EYE OR WHILE LOOKING INTO THE TRANSMITTING OPTICS ON THE OBJECTIVE SIDE.

Turn on the visible green laser for aligning the laser to your riflescope. See “8.0 Alignment” on page 30.

9.8 ABOUT

Within the “about” submenu, you will see the current software and firmware versions installed on your KILO along with contact information for SIG SAUER and the serial number of your product.

10.0 INSTALLING AND USING THE BDX APP

The KILO was designed for long range shooters and hunters with onboard environmental sensors and an embedded ballistics calculator for greater precision at long distances. To get the most out of your rangefinder, download the SIG Ballistic App (SIG BDX) and synchronize your smartphone with your rangefinder. Once a ballistic profile is synchronized with your rangefinder you no longer need to carry your smartphone to take advantage of the advanced ballistics embedded on your rangefinder unless you intend to override environmental settings or anticipate needing real-time wind updates. By using the smartphone app simultaneously with the rangefinder, you can see more detailed information in real time by using the “RANGEFINDER” screen in the app. Furthermore, you can remotely range targets with the KILO WARP by using the “RANGE” button integrated on the “RANGEFINDER” screen of the SIG BDX app.

In this section, you will download the SIG Ballistic App (SIG BDX), set up a Ballistic Profile, configure your rangefinder by selecting one profile, and then downloading one or more profiles to your rangefinder.

1. Download the BDX® App from the App Store/Google Play Store

Go to the App Store to download the SIG Ballistic App (SIG BDX) to an iOS based Apple product. For Android products go to the Google Play store. Search for SIG SAUER® or SIG Ballistic App (SIG BDX). Download and install the app on your smartphone.

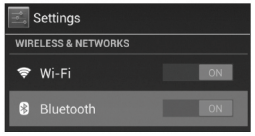
BDX™ Ballistic Data Xchange

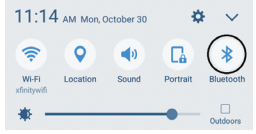
ANDROID APP ON Google play

Download on the App Store

2. Turn Bluetooth on and Pair

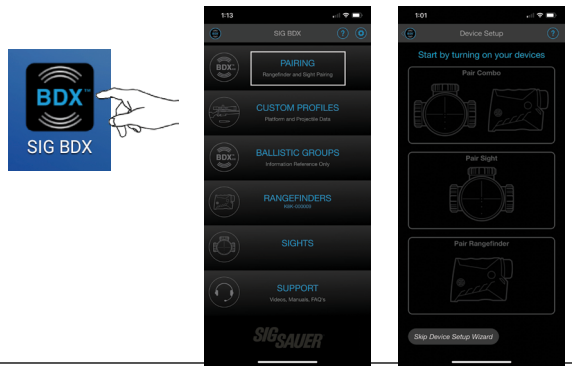
Once installed, launch the app – you will see the Home screen. You now need to sync your KILO WARP with your smartphone. For iOS, all you need to do is ensure that Bluetooth is ON by going to Settings and sliding the toggle button until Bluetooth is ON. iOS devices automatically pair with your rangefinder from within the SIG Ballistic App. For Android you will need to formally pair the devices by going to Settings, then Bluetooth and sliding the toggle button ON. Make sure the rangefinder is nearby and also turned on by pressing and releasing the RANGE button. Your KILO should appear as a nearby device – select your rangefinder and you are now paired. Once you have formally paired your Android smartphone with your KILO WARP, you will need to select the rangefinder from within the Home screen of the SIG Ballistic App. See images below.



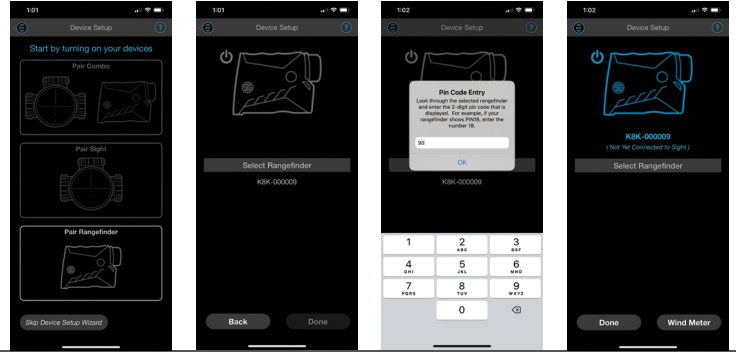


3. Launch the free SIG SAUER BDX® App and Pair with your KILO WARP® (Enter your PIN code)

On your smartphone, open the BDX App, click on “PAIRING”, turn on your KILO WARP by pressing and releasing the “RANGE” button. This will turn the “PAIR RANGEFINDER” icon white. (Continued on next page)

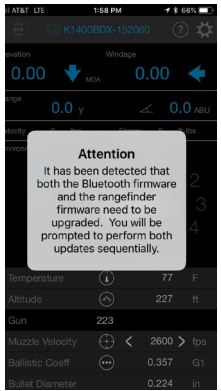


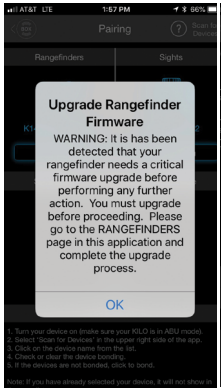
This will bring up the pairing screen. Tap the “PAIR RANGEFINDER” icon. This will give you a list of rangefinders that are on and within range. Tap the rangefinder you wish to pair as identified by serial number. Look through your rangefinder and read the PIN. Type this PIN into the Pin Code Entry popup and tap OK. This will pair your rangefinder and the rangefinder icon will turn blue to indicate success. You may also pair a rangefinder by tapping “Skip Device Setup Wizard” on the opening screen and following the directions below. Instructions for pairing your wind meter are also below.

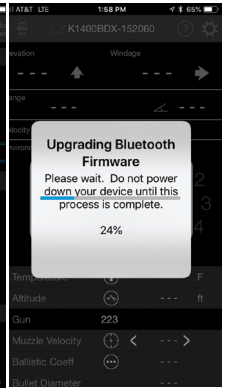


4. Updating your KILO WARP® to the latest software during Pairing

You may be prompted to update the software on your KILO. These software updates are mandatory and allow SIG SAUER to ensure that your BDX® App and KILO WARP perform optimally. Most updates take less than 1 minute. Ensure that your KILO is turned on and that your smartphone has at least 25% battery life remaining before installing any software updates. For best operation be sure to keep your smartphone awake during the entire installation process.

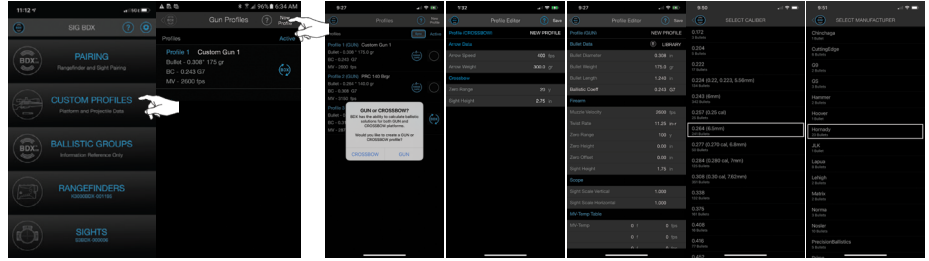






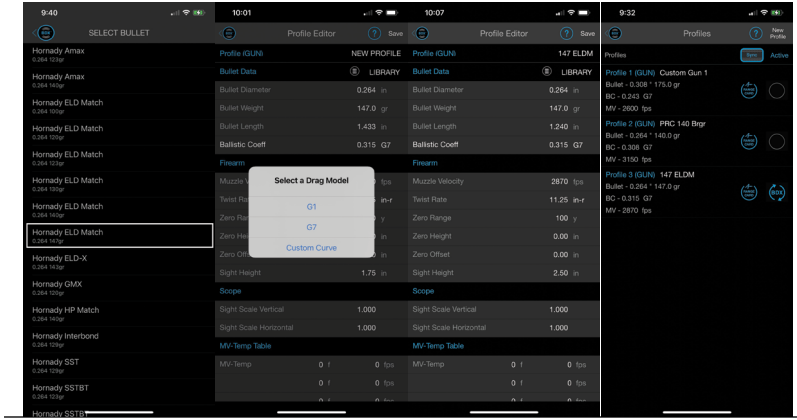
5. Configure up to 30 custom bullet profiles

The BDX App allows you to create and modify up to 30 profiles. From the home screen of the App touch “PROFILES”. Only one profile can be active at any time and is denoted by the BDX Icon in blue to the right of the screen. The BDX App comes with one default 0.308 profile. You can edit this profile by touching “Profile 1” or create a new one by touching the “New Profile” in the upper right corner of the App. You will be prompted to choose either a crossbow or a gun profile. If crossbow is selected, you will be taken to the crossbow profile editor. Tap each white number to change the values. You can rename your profile by tapping “NEW PROFILE” and typing a new name. Save your profile by tapping “SAVE” at the upper right.

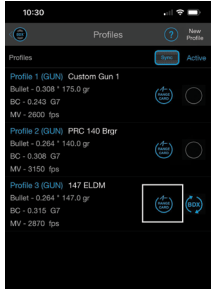


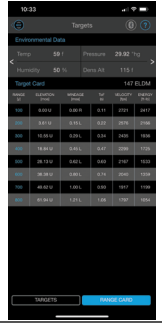
If “GUN” is selected, you will be taken to the Gun “PROFILE EDITOR”. In the PROFILE EDITOR. You can rename the profile by tapping “NEW PROFILE” and changing it, which will reflect elsewhere on the app and on your KILO. You may find your cartridge already in the “LIBRARY”. Select “LIBRARY” and you will be brought to a page with many common calibers listed. **(NOTE- This library is based on bullet diameter in the decimal scale, cartridges like 30-06 have a bullet diameter of .308 and can be found in the .308 section.)** After selecting your caliber, you will be brought to the bullet manufacturer menu. Find the correct manufacturer and corresponding bullet weight for your cartridge. After selecting your cartridge and manufacturer, you will be prompted to choose which drag curve to use: G1, G7 or Custom. If a Custom Drag curve is available, it is recommended that you select the Custom Drag curve since this bullet will have exact BC data for super, sub and transonic flight. **If you cannot find your cartridge in the library simply enter its characteristics manually on the main “PROFILE EDITOR” page. You can customize virtually any bullet characteristic that is in white (not greyed out). This is useful for those customers that hand load their ammunition or have characterized their rifle for parameters such as muzzle velocity, sight height, bullet weight and zero Range.** Once your profile is created press “SAVE” in the upper right-hand corner of the screen. You can come back and adjust this information in your profile at any time.

Tapping the “SYNC” button at the top of the page will copy all of your profiles onto your rangefinder. You can select which profile is active with the BDX button as stated above or by use of the menu in the rangefinder under Ballistic Profiles.

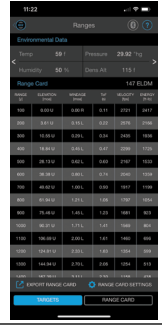


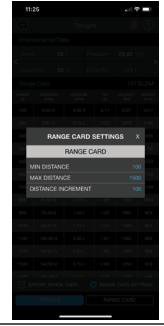
Tapping on the “RANGE CARD” icon will bring up the Target card and range card for that profile. The first screen is the Targets card. The Targets card allows you to choose up to eight ranges for which to view the ballistics for the selected profile. The ranges are shown in blue. You can tap a range to change its value manually. You may also tap a range, then range a target and populate that value with the actual range to the target. At the top of the screen, you will find the Environmental Data. You may tap any value shown in white to change it. The ballistic data will update with each change. Tapping the arrow on the right will cycle through other parameters that may be changed for Wind, Heading, Inclination, and Latitude. You can tap right again to show the profile data.

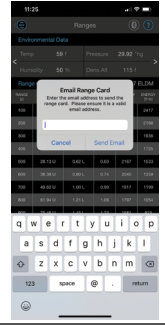




Tapping “RANGE CARD” at the bottom of the screen will take you to the Range Card. The Environmental and other previously mentioned information will remain at the top of the screen. The Range Card shows the ballistic trajectory for the profile selected. The Range Card uses the units selected in the Rangefinder settings menu. Tapping on Range Card Settings will open a menu allowing you to change the minimum and maximum distances as well as the distance increment. Tap on the value you wish to change and type in a new number. Tapping on Export Range Card will open a window that allows you to enter an email address to which you would like to send a copy of your range card.







From the main menu, tap the gear icon in the upper right to access the global settings menu. From here you can customize your app and rangefinder by choosing in which units the following parameters are displayed.

Range units in yards or meters

Wind speed units in mph, m/s, or kph

Muzzle velocity units in fps or m/s

Bullet size units in inches or cm

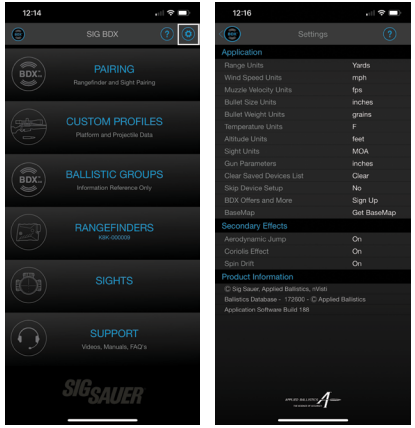
Bullet weight units in grains or grams

Temperature units in F or C

Altitude units in feet or meters

Sight units in MOA or mrad

Gun parameters in inches or cm



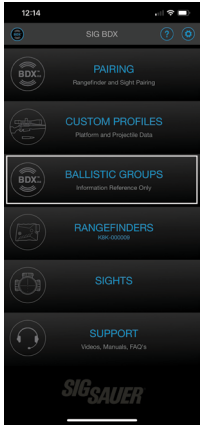
This is also where you can clear the devices that are paired with the app by tapping “Clear” next to “Clear Saved Devices List”.

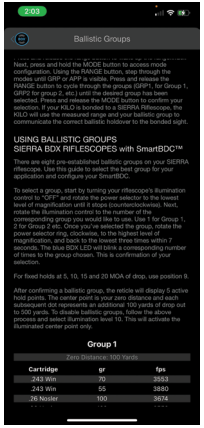
You may also choose whether you want to skip the device setup by selecting “Yes” or “No” accordingly.

You also have to option to sign up for BDX offers or download the BaseMap app.

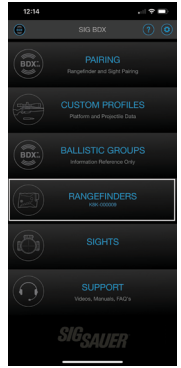
This is also the location for globally setting whether or not you want the secondary ballistic effects to be considered in the ballistic solver. These options include Aerodynamic Jump, Coriolis Effect, and Spin Drift.

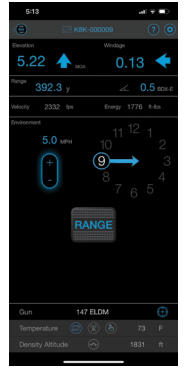
Selecting “BALLISTIC GROUPS” from the main menu takes you to a list of eight ballistic groups that you may choose to select instead of setting up a unique profile. Follow the instructions for your optic (riflescope, etc.) to choose a ballistic group.



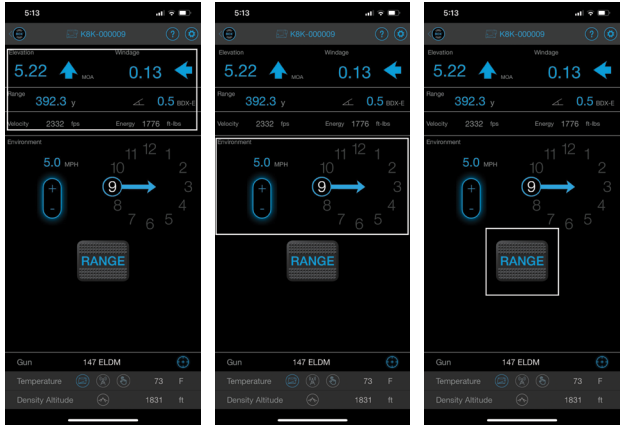


Tapping “RANGEFINDERS” on the home page will bring up the rangefinder HUD. The top of the screen shows you your hold over, wind correction, range, and inclination. This is the same information displayed in your rangefinder. You can also see the velocity and energy left in your round at the target distance. In the middle of the screen you can adjust wind speed and direction manually. To adjust the speed, press on the + or – to increase or decrease the speed. To change direction, press on the number on the clock from which the wind is blowing.



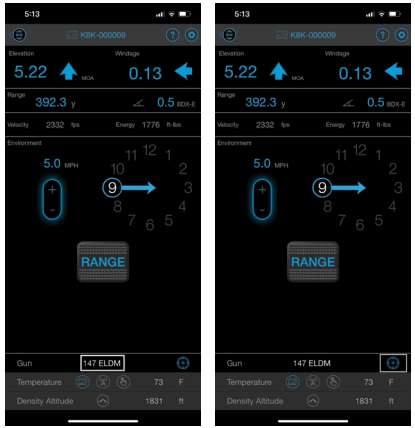


Below the wind adjustment, you will find a “RANGE” button. This will allow you to mount your rangefinder in a tripod and press this button to remotely trigger your rangefinder.

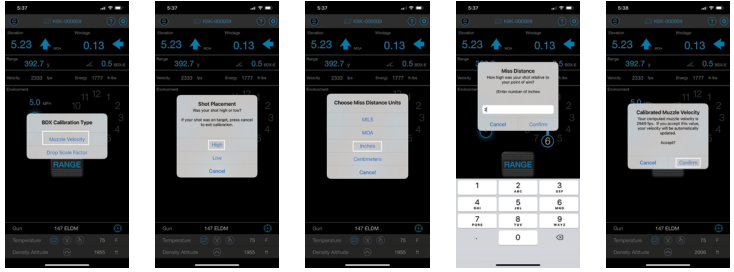


Pressing the profile name will take you to the profile page. From here you can select a different profile or create a new one. Pressing the “Ballistic Calibration” icon will give you a choice of two calibration routines. If you are shooting at ranges where your round is supersonic, use the Muzzle Velocity calibration. If you are shooting at ranges where your round will pass through transonic into subsonic, you should use the drop scale factor. If you are shooting subsonic ammo, such as 300 BLK, use the Muzzle Velocity calibration.

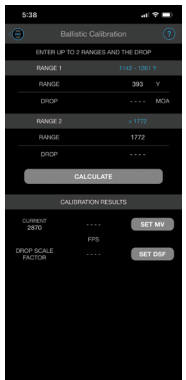
The ballistic calibration routines allow you correct for errors in your measured muzzle velocity. If you don’t have a chronograph, you can input the stated muzzle velocity on your factory ammo box as a starting point. You will need to be able to shoot your rifle at distance while performing either calibration. The muzzle velocity option requires that you range and shoot at a single distance of at least 300 yards. The drop scale factor option requires that you range and shoot at two distances significantly further away. The exact distances will vary depending on the caliber and projectile you are shooting as the distances required are in the transonic and subsonic regions for your specific combination. Suggested ranges are provided on the calibration screen.



In order to use the Muzzle Velocity Calibration, you need to range a target at a range of at least 300 yards. In this example, the target is at 392.7 yards. Using the ballistic solution provided by the app for your profile, shoot a 3-5 shot group into that target. Measure the distance from your point of aim to the center of the group. Now open the app and go to the rangefinder HUD screen. Range the target again. Then press the Ballistic Calibration icon. You will get a popup asking which calibration type you would like to perform. Tap “Muzzle Velocity”. In this example, the center of the group was high. Next, you will be asked which units you measured in. In the example, the units are inches. Then you will be asked how many units you measured. In this example, the distance was 2 inches. Tap Confirm to accept the calibrated muzzle velocity. Range the target again and notice the new hold over value based on the updated muzzle velocity.



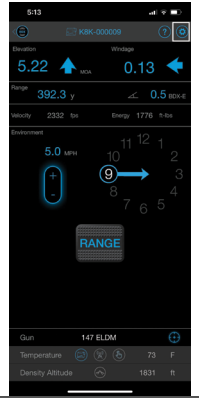
Selecting Drop Scale Factor brings you to the advanced muzzle velocity and drop scale factor screen. Notice in this example of a 6.5 PRC, the suggested distances are significantly further than 300 yards. Here, you will input the two ranges that you are shooting and the total drop at each range. Press the calculate button. Your new muzzle velocity and drop scale factor will populate in the results section. Press “Set MV” and “Set DSF” to accept the new values.



Towards the bottom on the screen you will find the environmental parameters. For temperature, there are three choices for where the value is derived. Tap any of the three icons to choose it and turn it blue. The first icon indicates that the temperature will be taken from the rangefinder’s onboard sensors. The second icon indicates that the temperature will be taken from the closest local weather station. The third icon allows you to manually input the temperature. Tapping that icon will turn the numerical value from gray to white. You may then tap the number and change it.

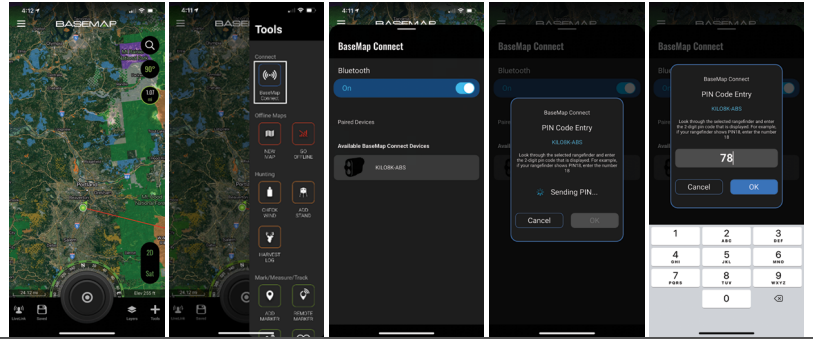
Density altitude is calculated from the onboard sensors for pressure and humidity and whichever temperature solution you have selected. The value for density altitude is reported to the right.

In the upper right of the screen, you will find the gear icon for the rangefinder settings. From here you can customize your app and rangefinder by choosing in which units the following parameters are displayed. These parameters may also be set within the rangefinder menu on the device itself as described earlier. Tap the values in white to change them.



11.0 BASEMAP™

To connect your KILO WARP to your BaseMap app, first, open BaseMap. Tap on Tools in the lower right. Tap on BaseMap Connect in the upper right. Turn on Bluetooth, if needed, and tap on your rangefinder in the available devices menu. Read the PIN in your rangefinder display and enter it in the BaseMap popup. Select OK. Your rangefinder is now paired with BaseMap. Use the “Remote Marker” option from the tools menu to range targets and automatically drop markers on your map at that location.



12.0 FREQUENTLY ASKED QUESTIONS (FAQ)

Q: I am pressing the RANGE button and nothing happens?

A: Check to make sure you have a fresh CR2 battery installed. If the battery is new, try loosening and tightening the battery cap until the cap is snug.

Q: Information on the display is disappearing – is this normal?

A: Yes. The rangefinder OLED display was optimized to only present the most important information while in use. Upon initial wake up, all your settings are visible such as the battery indicator, Line of Sight (LOS) or Angle Modified Range (AMR), LAST or BEST target mode and unit of measure. After the first range is acquired or in SCAN mode, after about 2 seconds, only the aiming circle and range information is displayed.

Q: I can't seem to range past 1200 yards on trees?

A: The rangefinder 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 2000 yards but in bright sunlight may only achieve 1100 yards. This is normal, however, the KILO WARP is 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. The KILO has additional sensors and Bluetooth which consume more battery power. The rangefinder exceeds 4000 ranges on a fresh battery, however, when heavily using SCAN mode this will cause the battery to drain much faster as the range processor 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. You can also turn off Bluetooth to extend your runtime.

Q: When in SCAN mode my rangefinder turns off after 20 seconds, is this normal?

A: Yes - the SCAN mode is limited to 20 seconds to remain eye safe in all conditions. You can reenter SCAN mode by releasing and pressing the RANGE button again.

Q: My Bluetooth link between my smartphone and my rangefinder keeps disconnecting?

A: You can update your Settings / Preferences from the home screen on your app. Click on the Settings / Preferences button in the upper right hand corner of the screen and then change the KILO Timeout setting to 30, 60 or 180 seconds. This will keep the rangefinder awake longer allowing you to synchronize and update settings. However, by increasing the KILO Timeout settings this will also force you to wait longer to put the rangefinder back into Programming Mode. You will have to wait for the rangefinder to timeout, wake the unit back up by pressing the RANGE button and then pressing and holding down the MODE button for 2 seconds to re-enter programming mode. Or, alternatively, you can close the SIG Ballistic App and then enter programming mode if you don't want to wait for the rangefinder to time out. If you are still experiencing connection issues make sure you are using the latest version of the SIG Ballistic App. You can update your app from the App Store or the Google Play store. You may also need to turn your Bluetooth radio OFF and back ON again to restore the link.

Q: I'm getting a different temperature reading from my rangefinder when I know the ambient temperature is different?

A: If you are carrying the rangefinder in a pocket or it is sitting in the sun it may sense a different temperature than the ambient environment. You can either let your rangefinder sit in the shade for a few minutes or you can override the temperature by entering the Environment submenu on the app, touching the KILO icon next to the word "TEMPERATURE" and manually entering the temperature – be sure to press SYNC to update the temperature on the rangefinder.

Q: My rangefinder is not calculating elevation and wind holds – no holds are showing up on the OLED display or in the HUD on the app?

A: Your rangefinder is probably set to AMR (Angle Modified Range). In AMR mode only the angle modified range is displayed on the HUD and on the OLED display. Go into Programming Mode and switch the range mode from AMR to LOS. Next, select a Profile (i.e. Pro 1). Be sure to have at least one Profile configured on your app and synchronized with your rangefinder.

Q: My rangefinder is not working. I've tried everything but the display will not turn on.

A: It is possible that you have set the display brightness to setting LOW 1. Go into a dark room and press the RANGE button. You should see the display. Press and hold the MODE button down to enter the programming mode. Press and release the MODE button until you see the display setting (i.e. Low 1). Press the RANGE button to select a different setting such as Hi 1 or AUTO. AUTO is recommended as the display will now automatically adjust to the correct brightness based on your local conditions. Once selected continue pressing the MODE button until you exit the programming mode.

Q: My ballistic solution in the HUD and displayed in the KILO is always off a few inches.

A: For accurate ballistic solutions make sure you have updated the temperature and altitude within the App to your current location, you have the correct bullet caliber (diameter) and weight selected, your zero distance is correct and that your muzzle velocity is correct. Using the MV Calibration routine provides the most accurate MV and will improve the accuracy of the ballistic calculator. It is always best to use the MV Calibration routine

at the farthest distance you intend to shoot. Calibrating at 500 yards will yield a better MV than calibrating at 300 yards.

Q: When using AB External on my KILO I can no longer see the rangefinder information on the HUD in the BDX App.

A: If your KILO and a Kestrel are actively paired (sending / receiving information) the BDX App cannot be connected and paired to your KILO at the same time.

Q: My KILO is set to AB External but isn't displaying holdover information.

A: To display a complete ballistic solution your KILO must be actively paired with a Kestrel. No holdover information is displayed unless the Kestrel and KILO are both on and actively paired.

Q: The rangefinder HUD in the BDX App is sluggish when using my KILO in AB External mode (Kestrel is not paired to the KILO).

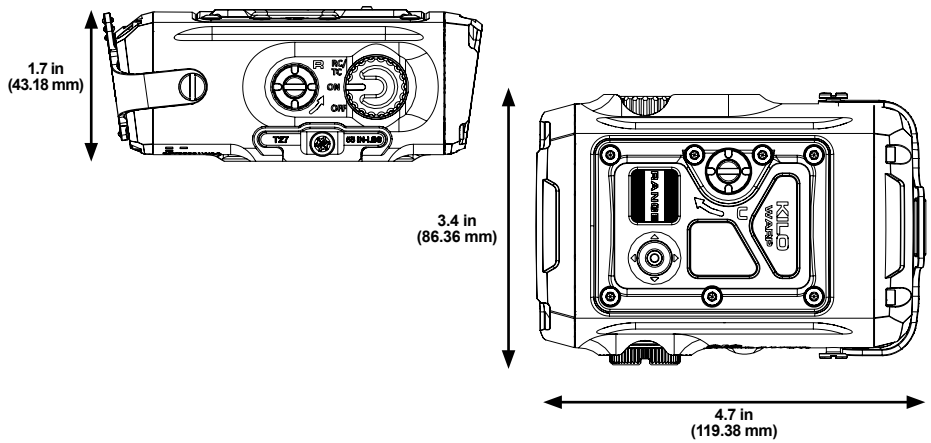
A: AB External mode on your KILO was designed to be used directly with a Kestrel with AB Elite on board. This communications protocol is relatively slow and does not respond as quickly when compared to using AB Ultralight. AB Ultralight resides on your KILO and is much faster for calculating ballistic solutions out to 800 yards.

Q: My KILO and Kestrel are paired but I am not getting anything but zero's for elevation and wind holds.

A: You need to setup at least one custom bullet profile on your Kestrel. See the Kestrel instructions for setting up a bullet profile.

KILO WARP 6K™ SPECIFICATIONS			
Battery	CR123A		
Display Type	1.8 in Reflective TFT		
Run Time	Minimum of 4,000 ranges		
Range Response Time	.25 sec		
Scanning	Yes		
Range Resolution Under 100 yds	.1 yds		
Max Range	Reflective Up to 6,000 yds	Trees Up to 2,000 yds	Deer Up to 1,700 yds
Weight with Battery	14 oz/400 g		

DIMENSIONS



WARNING LASER

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.

3R: FCC: 2AP8SK24 IC: 24032 -K24
P o < 20W, 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.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This product is a Class 3R consumer laser product determined with C^6 = 1 according to EN60825-1:2014. Class 3R emissions are needed for the intended function of this product. Class 1 or 2 emissions would be inadequate. This product is not a laser pointer. Intrabeam viewing is not intended.
This product complies with EN 50689:2021.

LASER APERTURE

FCC STATEMENT:

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

INDUSTRY CANADA:

This device complies with Industry Canada licence RSS standard(s). Operation is subject to the following two conditions:

- This device may not cause interference, and
- This device must accept any interference, including interference that may cause undesired operation of the device.

Le present apparel est conforme aux CNR d'Industrie Canada applicable aux appareil radio exempts de licence.

L'exploitationestautorisée aux deux conditions suivantes:

- l'appareil ne doit pas produire de brouillage, et
- l'utilisateur de l'appareildoit accepter tout brouillage radio électrique subi, mêmesi le brouillage est susceptible d'encompromettre le fonctionnement

The device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS-102 RF exposure,users can obtain Canadian information on RF exposure and compliance.

WEEE Statement

Information for Users on Disposal of Old Equipment and Batteries

This symbol indicates that the electrical and electronic equipment and the battery with this symbol should not be disposed of as general household waste at it's end-of-life. Instead, the products should be handed over to the applicable collection points for the recycling of electrical and electronic equipment as well as batteries for proper treatment, recovery and recycling in accordance with your national legislation and the WEEE Directive 2012/19/EU.

By disposing of this product correctly, you will help to conserve natural resources and will help to prevent potential negative effects on the environment and human health, which could otherwise be caused by inappropriate waste handling of these products. For more information about these collection points and recycling of these products, please contact your local municipal office, your household waste disposal service, or the shop where you purchased the product. If you wish to send back this product for disposal, please visit our webpage: https://www.sigsauer.com/optics-service-contact

WARNING: CANCER AND REPRODUCTIVE HARM—www.P65warnings.ca.gov

SIG SAUER® INFINITE GUARANTEE™

SIG SAUER® has a history of quality and reliability that dates back more than 250 years. We understand the importance of true dependability whether it be in the line of duty, at the shooting range or on your next hunt and we continually strive to deliver products that meet and exceed the expectations of even the most demanding customers. That's why SIG SAUER is proud to offer our INFINITE GUARANTEE* on all our firearms, optics, and suppressors.

Our promise: We warrant that your new SIG SAUER firearm, optic, or suppressor was originally manufactured free of defects in material, workmanship, electrical, optical, and mechanical function. We will repair your SIG SAUER product in the event it becomes damaged or is defective in any way, at no charge to you. If we cannot repair your product, we will replace it or, if we cannot replace it, we will provide you with a replacement of equal value. All with no questions asked, forever.

SIG SAUER® Infinite Guarantee

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

Please note that our Infinite Guarantee excludes coverage for intentional damage, misuse, cosmetic damage that does not affect the performance of the optic, loss, theft, or unauthorized repair or modification. Excludes Tritium components.

Customers seeking warranty coverage must first obtain a Return Merchandise Authorization (RMA) by contacting SIG SAUER Customer Service and return the product unloaded and freight prepaid.

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12100 SW Tualatin Rd, Tualatin, OR 97062 USA

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