

GARMIN[®]



XERO[®] L60i

Owner's Manual

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Introduction

⚠ WARNING

See the *Important Safety and Product Information* guide in the product box for product warnings and other important information.

Always inspect your equipment before using a bow or firearm. You are responsible for understanding and complying with any applicable regulations for using a bow or firearm.

Always understand your target and what lies beyond your target before taking a shot. Failure to account for your shooting environment could cause property damage, injury, or death.

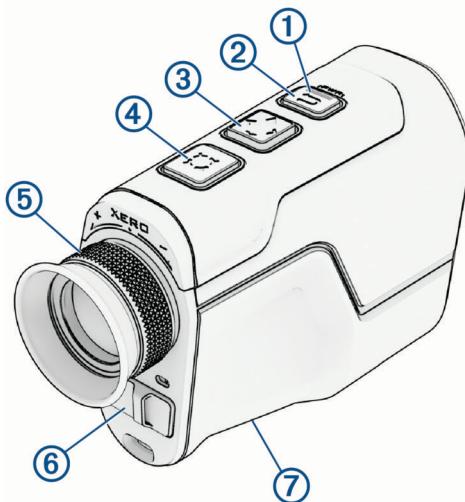
Laser Warning

⚠ WARNING

This device requires no regular maintenance. In the event that the device becomes damaged or is inoperable, repair or service must be handled by authorized, factory-trained technicians only. Attempting to repair or service the unit on your own can result in direct exposure to laser radiation and the risk of permanent eye damage. For repair or service, contact your dealer or Garmin® for more information.

This device has a protective housing which, when in place, prevents human access to laser radiation in excess of the accessible emission limit (AEL) for Class 1 laser products. This device should not be modified or operated without its housing or optics. Operating this device without a housing and optics, or operating this device with a modified housing or optics that expose the laser source, may result in direct exposure to laser radiation and the risk of permanent eye damage. Removal or modification of the diffuser in front of the laser optic may result in the risk of permanent eye damage.

Device Overview



① Status LED	View device status.
② ↵	Hold to turn the rangefinder on or off. Press to return to the previous screen.
③ ▲▼◀▶	Press to scroll through menu options.
④ ✕	Press to range with the laser. Hold to scan with the laser. Press to select menu options.
⑤ Adjustable diopter	Rotate the eyepiece to focus the image in the display.
⑥ Weather cap USB-C® power and data port (under weather cap)	Pull up to access the USB-C power and data port. Connect a compatible USB cable to transfer data using your computer.
⑦ Device label	<p>View manufacturer's identification and certification.</p>  <p>CLASS I CONSUMER LASER PRODUCT EN 50689:2021 Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.</p> <p>GARMIN 1200 E 151st St, Olathe, KS 66062 www.garmin.com</p> <p>CE UK CA IC NOM</p> <p>FCC ID: IPH-04378 TA-XXXX /YYYY IC:1792A-04378</p> <p>ICASA SN: A04378 TAIWAN</p>

Status LEDs

LED Activity	Status
Blinking green	The rangefinder is turned on and ready for use.
Alternating yellow and red	The rangefinder failed to turn on due to low battery power.
Blinking yellow	The rangefinder is busy.

Installing AAA Batteries

The rangefinder operates on two AAA lithium batteries. Lithium batteries are required for this device.

- 1 Rotate the battery cover counter-clockwise to remove it.



- 2 Insert two AAA lithium batteries into the rangefinder, observing polarity.
- 3 Replace the battery cover.

Turning the Device On or Off

- To turn on the device, press .
- To turn off the device, hold  for 2 seconds.

Standby Mode

To conserve battery life, the rangefinder goes into standby mode when not in use. It wakes up when you push any button. The rangefinder fully powers off after 48 hours without use.

Adjusting the Eyepiece

The rangefinder features an adjustable eyepiece (+/- 4 diopter adjustment). This allows you to focus the image in the display for your eyesight.

Rotate the eyepiece in or out to focus the display.

Bluetooth® Connected Features

The rangefinder includes Bluetooth connected features for your compatible mobile device using the Garmin Explore™ app.

Data uploads to Garmin Explore: Automatically sends saved locations and courses to the Garmin Explore app when you sync your rangefinder. This allows you to share the data with other paired devices.

Software updates: Allows you to receive updates for your device software using the Garmin Explore app.

Improved GPS acquisition: Allows you to connect to satellite signals more quickly.

Garmin Explore

The Garmin Explore website and app allow you to create courses, waypoints, and collections, plan trips, sync tracks, upload activities, and use cloud storage. They offer advanced planning both online and offline, allowing you to share and sync data with your compatible Garmin device. You can use the app to download maps for offline access, and then navigate anywhere without using your cellular service.

You can download the Garmin Explore app from the app store on your phone (garmin.com/exploreapp), or you can go to explore.garmin.com.

Pairing Your Phone

To use the connected features of your rangefinder, you must pair it using the Garmin Explore app, instead of pairing it from the Bluetooth settings on your phone.

- 1 During the initial setup for your rangefinder, select **YES** when you are prompted to pair with your phone.
- 2 Bring your phone within 10 m (33 ft.) of your rangefinder.
- 3 From the app store on your phone, install and open the Garmin Explore app (garmin.com/exploreapp).
- 4 Follow the instructions in the app to complete the pairing and setup process.

Point Ranging

WARNING

Always inspect your equipment before using a bow or firearm. You are responsible for understanding and complying with any applicable regulations for using a bow or firearm.

Always understand your target and what lies beyond your target before taking a shot. Failure to account for your shooting environment could cause property damage, injury, or death.

Ranging a Target

You can use the rangefinder to measure the distance from your current position to a target. For targets that are too far away for laser-ranging, the rangefinder uses the Sensor Locate feature, which uses GPS, along with its compass, inclinometer, and onboard mapping to display an estimated distance.

- 1 Align the reticle on the rangefinder's display with the target.
- 2 Select an option:
 - To quickly range the target, press .
 - To range the target continuously or get a Sensor Located distance, hold , hold the rangefinder steady as it lasers the target, and release .

Saving a Ranged Location

- 1 After ranging a location, press .
- 2 Select **SAVE**.
- 3 Select an icon for the location.
- 4 Select **DONE**.

Navigating to a Ranged Location

- 1 After ranging a location, press .
- 2 Select **GO**.
- 3 Begin navigating to the destination.

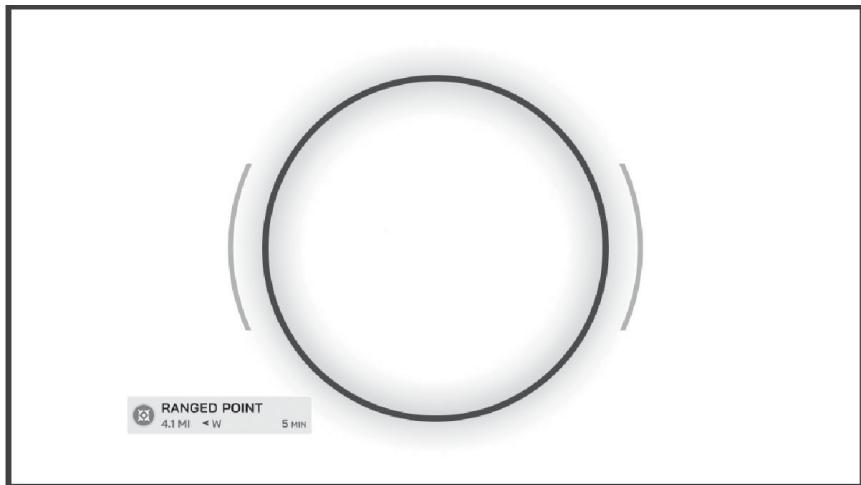
 represents your location on the map. Your route is marked with a colored line.

Viewing a Previous Location

The visual recall feature allows the rangefinder to guide your view back to a previously-ranged location in the environment.

NOTE: Recent ranges are automatically stored for a limited time, even if you do not manually save them.

- 1 From the home screen, press ▼.
- 2 Select **RECALL LAST RANGE**.
- 3 Follow the on-screen instructions to face in the direction of the ranged location.



A large circle appears on the display when the rangefinder is aligned with the ranged location.

Apps

From the home screen, press ◀ to open the apps list.

Name	More Information
SETTINGS	Customizes the device settings (Settings, page 16).
SAVED POINTS	Displays saved waypoints (Saving a Ranged Location, page 4), along with up to 20 of your most recently ranged points (Viewing Saved Points, page 6).
GARMIN SHARE	Sends and receives data with other Garmin devices (Garmin Share, page 6).
ELEVATION CHART	Displays a chart of the altitude at your current location.
MEASURE	Measures the distance between ranged points (Measuring the Distance Between Points, page 8).
COURSE CREATOR	Creates courses with multiple points for you to navigate (Creating and Navigating a Course, page 7).
TIPS	Displays tips for using your rangefinder.

Viewing Saved Points

You can view courses, ranged locations you have saved as waypoints, as well as the last 20 locations you have ranged.

- 1 From the home screen, press .
- 2 Select **SAVED POINTS**.
- 3 If necessary, press  to view your saved waypoints or courses.
- 4 Select a point or course from the list.
- 5 Press .
- 6 Select an option:
 - Select **GO** to navigate to the point or course (*Navigating to a Ranged Location, page 4*).
 - Select **RECALL** to make the rangefinder guide your view to the location of the point in the environment (*Viewing a Previous Location, page 5*).
 - Select **SAVE** to save the point (*Saving a Ranged Location, page 4*).
This option appears only for points that have not already been saved.
 - Select **DELETE** to remove the point or course from the list.

Saving Your Current Location

If you want to return to a certain spot, you can save your location as a waypoint.

- 1 From the home screen, press .
- 2 Select **SAVE CURRENT LOCATION**.
- 3 Select an icon for the location.
- 4 Select **DONE**.

Garmin Share

NOTICE

It is your responsibility to use discretion when sharing information with others. Always ensure you are aware of and comfortable with the individual with whom you share information.

The Garmin Share feature allows you to use Bluetooth technology to wirelessly share your data with other compatible Garmin devices. With Garmin Share enabled and compatible Garmin devices in range of each other, you can select saved locations and courses to transfer to another device through a direct, secured device-to-device connection, without the need for a phone or Wi-Fi® connectivity.

Sharing Data with Garmin Share

Before you can use this feature, you must have Bluetooth technology enabled on both compatible devices, and they must be within 3 m (10 ft.) of each other. When prompted, you must also consent to share your data with other Garmin devices using Garmin Share.

Your Xero® L60i rangefinder can send and receive data when connected to another compatible Garmin device (*Receiving Data with Garmin Share, page 7*). You can also transfer your data between different devices. For example, you can share a favorite course from your rangefinder to your compatible Garmin watch.

- 1 From the home screen, press ◀.
- 2 Select **GARMIN SHARE**.
- 3 Press ☰.
- 4 Select **SHARE**.
- 5 Select a category, and select one or more items.
- 6 Select **SHARE**.
- 7 Wait while the device locates compatible devices.
- 8 Select a device.
- 9 If necessary, confirm the six-digit PIN matches on both devices, and select **CONTINUE**.
- 10 Wait while the devices transfer the data.
- 11 Select **SHARE AGAIN** to share the same items with another user (optional).
- 12 Select **DONE**.

Receiving Data with Garmin Share

Before you can use this feature, you must have Bluetooth technology enabled on both compatible devices, and they must be within 3 m (10 ft.) of each other. When prompted, you must also consent to share your data with other Garmin devices using Garmin Share.

- 1 From the home screen, press ◀.
- 2 Select **GARMIN SHARE**.
- 3 Wait while the device locates compatible devices in range.
- 4 Select **ACCEPT**.
- 5 If necessary, confirm the six-digit PIN matches on both devices, and select **CONTINUE**.
- 6 Wait while the devices transfer the data.
- 7 Select **DONE**.

Creating and Navigating a Course

You can use the course creator feature to navigate courses consisting of multiple ranged points.

- 1 From the home screen, press ◀.
- 2 Select **COURSE CREATOR**.
- 3 Range the first point for the course (*Ranging a Target, page 4*).
- 4 Range the second point.
- 5 If necessary, range additional points.
- 6 Select **START NAVIGATION**.

The device calculates your route and displays it on the map.

Measuring the Distance Between Points

You can use the device to measure the distance from your current position to a ranged or previously saved point, as well as the distance between points.

1 Select an option:

- To measure the distance between your location and a target in the environment, align the rangefinder reticle with the target, and range the point (*Ranging a Target, page 4*).
- To measure the distance between your location and a saved waypoint, select **ADD LOCATION > SAVED POINTS**, and select a waypoint.

The ranged distance appears.

2 Repeat the step to add a second point.

The ranged distance appears, along with the distance between the two points.

3 If necessary, add additional points.

The ranged distance appears, along with the combined distance between each of the ranged points.

Map

▲ represents your location on the map. As you travel, ▲ moves and displays your path. Depending on your zoom level, waypoint names and symbols may appear on the map. You can zoom in on the map to see more detail. When you are navigating to a destination, your route is marked with a colored line on the map.

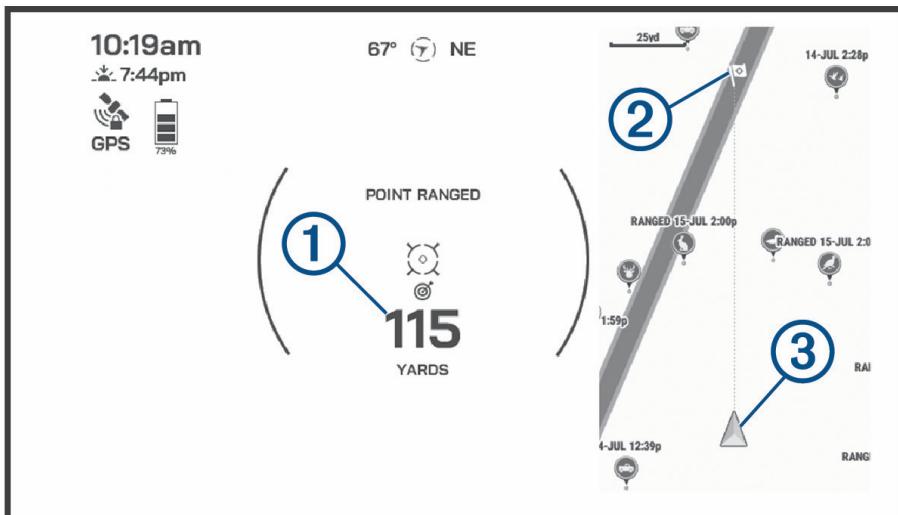
Using the Map

- 1 From the home screen, press ► to open the map.
- 2 If necessary, press ◀ or ► to zoom in or out.
- 3 Press □ to change to pan mode.
- 4 Use the directional pad to move the crosshairs.
- 5 Hold □ to select the area indicated by the crosshairs.
- 6 Select an option:
 - Select **GO** to navigate to the location (*Navigating to a Ranged Location, page 4*).
 - Select **RECALL** to make the rangefinder guide your view to the location in the environment (*Viewing a Previous Location, page 5*).
 - Select **MARK WAYPOINT** to save the location as a waypoint.

HUD Profiles

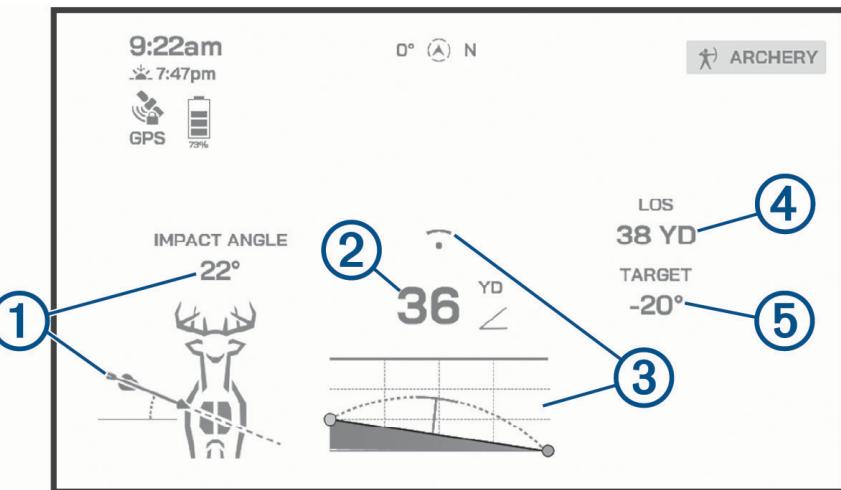
The HUD profile determines what data is displayed on the home screen after you range a point. You can change the profile by pressing ◀ on the home screen, and selecting **SETTINGS > HUD PROFILE**.

Hiking Profile



①	The distance from your location to the ranged point.
②	The location of the ranged point on the map.
③	Your current location on the map.

Archery Profile



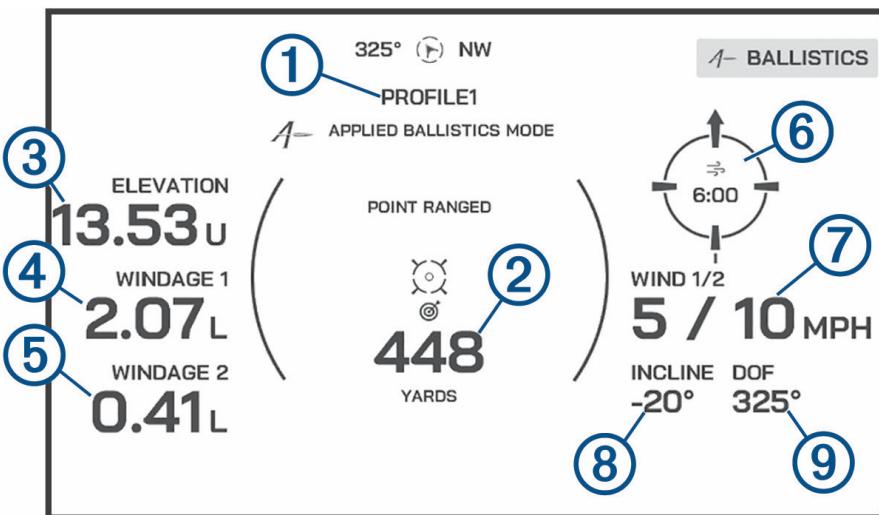
①	The projected impact angle of an arrow to the ranged point.
②	The angle-compensated distance to the point.
③	The projected flight apex arc of the arrow.
④	The line of sight distance to the point.
⑤	The angle to the point.

Applied Ballistics Profile

⚠️ WARNING

The Applied Ballistics feature is intended to provide accurate elevation and windage solutions based on gun and bullet profiles and measurements of current conditions only. Depending on your environment, conditions may change rapidly. Changes in environmental conditions, like wind gusts or downrange winds, may have an effect on the accuracy of your shot. Elevation and windage solutions are suggestions only based upon your input into the feature. Take readings often and carefully, and allow the readings to stabilize after significant changes in environmental conditions. Always allow a margin of safety for changing conditions and reading errors.

Always understand your target and what lies beyond your target before taking a shot. Failure to account for your shooting environment could cause property damage, injury, or death.



①	The name of the selected profile.
②	The distance from your current location to the ranged point.
③	The vertical portion of the aiming solution, displayed in milliradians (mil) or minute of angle (MOA).
④	The horizontal portion of the aiming solution based on the wind speed 1 and wind direction, displayed in milliradians (mil) or minute of angle (MOA).
⑤	The horizontal portion of the aiming solution based on the wind speed 2 and wind direction, displayed in milliradians (mil) or minute of angle (MOA).
⑥	The wind direction.
⑦	The wind speed used for windage 1 and windage 2.
⑧	The angle of inclination of the shot. A negative value indicates a downhill shot. A positive value indicates an uphill shot. The shooting solution multiplies the vertical portion of the solution by the cosine of the inclination angle to calculate the adjusted solution for an uphill or downhill shot.
⑨	The direction of fire, with north at 0 degrees and east at 90 degrees.

Applied Ballistics®

⚠️ WARNING

The Applied Ballistics feature is intended to provide accurate elevation and windage solutions based on gun and bullet profiles and measurements of current conditions only. Depending on your environment, conditions may change rapidly. Changes in environmental conditions, like wind gusts or downrange winds, may have an effect on the accuracy of your shot. Elevation and windage solutions are suggestions only based upon your input into the feature. Take readings often and carefully, and allow the readings to stabilize after significant changes in environmental conditions. Always allow a margin of safety for changing conditions and reading errors.

Always understand your target and what lies beyond your target before taking a shot. Failure to account for your shooting environment could cause property damage, injury, or death.

The Applied Ballistics feature offers customized aiming solutions for long-range shooting based on your rifle characteristics, bullet characteristics, and various environmental conditions. You can enter parameters including wind, temperature, humidity, range, and firing direction.

This feature provides the information you need to fire long-range projectiles, including elevation holdover, windage, and time of flight. It also includes custom drag models for your bullet type. Go to appliedballisticsllc.com for more details about this feature. See the *Applied Ballistics Glossary of Terms*, page 14 for descriptions of the terms and data fields.

NOTE: You may need to upgrade the ballistic solver in the Applied Ballistics Quantum™ app to unlock all Applied Ballistics features (*Applied Ballistics Quantum App*, page 11).

Applied Ballistics Quantum App

The Applied Ballistics Quantum app allows you to manage ballistic profiles on your Xero L60i device, or upgrade your ballistic solver, if necessary. You can download the Applied Ballistics Quantum app from the app store on your phone.

Applied Ballistics Options

From the home screen, press ▲, and select **AB MENU**.

TARGET CARD: Sets the long-range shooting conditions for your current target, including range, elevation, and windage (*Editing the Target*, page 12). You can change the selected target and customize conditions for up to 26 targets (*Changing the Target*, page 12).

RANGE CARD: Displays data for various ranges based on user input parameters (*Range Card*, page 12). You can customize the data fields (*Customizing the Range Card Fields*, page 12).

ENVIRONMENT: Sets the atmospheric conditions for your current environment. You can enter custom values, or use the pressure, latitude, and temperature values from the internal sensor in the device (*Environment*, page 12).

PROFILE: Sets the bullet and gun properties for your current profile (*Editing a Profile*, page 13). You can change the selected profile (*Selecting a Different Profile*, page 13) and add additional profiles (*Adding a Profile*, page 12).

SETTINGS: Sets the units of measure and fire control options for windage and elevation (*Applied Ballistics App Settings*, page 16).

Target Card

Adding a Target

You can add up to 26 targets.

- 1 From the home screen, press **▲**, and select **AB MENU**.
- 2 Select **TARGET CARD** > **SET UP TARGETS**.
- 3 Align the reticle on the rangefinder's display with the target.
- 4 Select an option:
 - To quickly range the target, press .
 - To range the target continuously, hold , hold the rangefinder steady as it lases the target, and release .

The new target appears at the bottom of the list.

Editing the Target

- 1 From the home screen, press **▲**, and select **AB MENU**.
- 2 Select **TARGET CARD**.
- 3 Select a target.
- 4 Select an option to edit.

Changing the Target

- 1 From the home screen, press **▲**, and select **AB MENU**.
- 2 Select **TARGET CARD**.
- 3 Select a target.
- 4 Select **SET AS CURRENT**.

Range Card

Customizing the Range Card Fields

- 1 From the home screen, press **▲**, and select **AB MENU**.
- 2 Select **RANGE CARD**.
- 3 Press  to select the first field.
- 4 Press **▲** or **▼** to change the field.
- 5 Repeat the steps to change the second field.

Environment

Editing the Environment

- 1 From the home screen, press **▲**, and select **AB MENU**.
- 2 Select **ENVIRONMENT**.
- 3 Select an option to edit.

Profile

Adding a Profile

You can add a .pro file that contains profile information by creating it using the Applied Ballistics Quantum app and transferring the file to the AB folder on the device. You can also create a profile using your Garmin device.

- 1 From the home screen, press **▲**, and select **AB MENU**.
- 2 Select **PROFILE** > **PROFILE** > **CREATE NEW PROFILE**.

Editing a Profile

1 From the home screen, press  and select **AB MENU**.

2 Select **PROFILE > PROFILE**.

3 Select a profile.

4 Select an option:

- To enter the bullet properties, select **BULLET PROPERTIES**, and select an option.

TIP: You can select **BULLET DATABASE** to automatically enter bullet properties from the Applied Ballistics bullet database. If you manually enter the bullet properties, you can find the information on the bullet manufacturer's website.

- To enter the gun and scope properties, select **GUN PROPERTIES**, and select an option.

- To calibrate the muzzle velocity to provide a more accurate solution in the supersonic range for your firearm, select **GUN PROPERTIES > CALIBRATE MUZZLE VELOCITY**, select an option, and select **DONE**.

- To calibrate the drop scale factor to provide a more accurate solution at or beyond the transonic range for your firearm, select **GUN PROPERTIES > CALIBRATE DSF**, select an option, and select **DONE**.

NOTE: Garmin recommends you calibrate the muzzle velocity prior to calibrating the drop scale factor.

After you calibrate the drop scale factor, you can select **GUN PROPERTIES > VIEW DSF TABLE** to view the drop scale factor table. If necessary, you can press  while viewing the drop scale factor table to reset it to the default values.

- To edit the muzzle velocity temperature table, select **GUN PROPERTIES > MV-TEMP TABLE**, and select a value to edit.

NOTE: If necessary, you can press  when no value is highlighted to reset the muzzle velocity temperature table back to the default values.

- To edit the units of measure for output fields, select **OUTPUT UNITS**.

Deleting a Profile

NOTE: You cannot delete your current profile.

1 From the home screen, press  and select **AB MENU**.

2 Select **PROFILE > PROFILE**.

3 Select a profile.

4 Select **DELETE PROFILE**.

Selecting a Different Profile

1 From the home screen, press  and select **AB MENU**.

2 Select **PROFILE > PROFILE**.

3 Select a profile.

4 Select **SELECT PROFILE**.

Applied Ballistics Glossary of Terms

Target Card Fields

DIRECTION OF FIRE: The direction of fire, with north at 0 degrees and east at 90 degrees. Input field.

INCLINATION: The angle of inclination of the shot. A negative value indicates a downhill shot. A positive value indicates an uphill shot. The shooting solution multiplies the vertical portion of the solution by the cosine of the inclination angle to calculate the adjusted solution for an uphill or downhill shot. Input field.

RANGE: The distance to the target, displayed in yards or meters. Input field.

SPEED: The speed of a moving target, displayed in miles per hour (mph), kilometers per hour (km/h), or meters per second (m/s). A negative value indicates a target moving to the left. A positive value indicates a target moving to the right. Input field.

Range Card Fields

DROP: The total drop the bullet experiences along its flight path, displayed in inches or centimeters.

ELEVATION: The vertical portion of the aiming solution, displayed in inches, milliradians (mrad or mil), or minute of angle (MOA).

ENERGY: The remaining energy of the bullet at target impact, displayed in foot-pounds of force (ft. lbf.) or joules (J).

H COR: The horizontal Coriolis effect. The horizontal Coriolis effect is the amount of the windage solution attributed to the Coriolis effect. This is always calculated by the device, although the impact may be minimal if you are not shooting at extended range.

LEAD: The horizontal correction needed to hit a target moving left or right at a given speed.

TIP: When you enter the speed of your target, the device factors the necessary windage required into the total windage value.

SPIN DRIFT: The amount of the windage solution attributed to the spin drift (gyroscopic drift). For example, in the northern hemisphere, a bullet shot out of a right-hand twist barrel will always deflect slightly to the right as it travels.

TOF: The time of flight, which indicates the time required for a bullet to reach its target at a given range.

V COR: The vertical Coriolis effect. The vertical Coriolis effect is the amount of the elevation solution attributed to the Coriolis effect. This is always calculated by the device, although the impact may be minimal if you are not shooting at extended range.

VEL MACH: The estimated velocity of the bullet when it impacts the target, displayed as a factor of mach speed.

VELOCITY: The estimated velocity of the bullet when it impacts the target.

WINDAGE 1: The horizontal portion of the aiming solution based on the wind speed 1 and wind direction, displayed in inches, milliradians (mrad or mil), or minute of angle (MOA).

WINDAGE 2: The horizontal portion of the aiming solution based on the wind speed 2 and wind direction, displayed in inches, milliradians (mrad or mil), or minute of angle (MOA).

Environment Fields

AMB/STN PRESS.: The ambient (station) pressure. Ambient pressure is not adjusted to represent sea level (barometric) pressure. Ambient pressure is required for the ballistics shooting solution. Input field.

TIP: You can manually enter this value, or you can select the USE CURRENT AMB./STN. PRESS. option to use the pressure value from the internal sensor in the device.

HUMIDITY: The percentage of moisture in the air. Input field.

LATITUDE: The horizontal location on the Earth's surface. Negative values are below the equator. Positive values are above the equator. This value is used to calculate the vertical and horizontal Coriolis drift. Input field.

TIP: You can select the USE CURRENT LATITUDE option to use the GPS coordinates from your device.

NOTE: The LATITUDE is used only for calculating the Coriolis effect. If you are shooting at a target less than 1,000 yards away, this input field is optional.

TEMPERATURE: The temperature at your current location, displayed in degrees Fahrenheit (F) or Celsius (C). Input field.

TIP: You can manually enter this value, or you can select the USE CURRENT TEMPERATURE option to use the temperature value from the internal sensor in the device.

WIND DIRECTION: The direction from which the wind is coming. For example, a 9:00 wind blows from your left to your right. Input field.

WIND SPEED 1: The wind speed used in the shooting solution, displayed in miles per hour (mph), kilometers per hour (km/h), or meters per second (m/s). Input field.

WIND SPEED 2: An optional, additional wind speed used in the shooting solution, displayed in miles per hour (mph), kilometers per hour (km/h), or meters per second (m/s). Input field.

TIP: You can use two wind speeds to calculate a windage solution that contains a high and low value. The actual windage to apply for the shot should fall within this range.

Profile Fields: Bullet Properties

BALLISTIC COEFFICIENT: The manufacturer's ballistic coefficient for your bullet. Input field.

BULLET DIAMETER: The bullet diameter, displayed in inches or centimeters. Input field.

NOTE: The diameter of the bullet may vary from the common name of the round. For example, a 300 Win Mag is actually .308 inches in diameter.

BULLET LENGTH: The length of the bullet, displayed in inches or centimeters. Input field.

BULLET WEIGHT: The bullet weight, displayed in grains (gr) or grams (g). Input field.

DRAG CURVE: The G1 or G7 standard projectile models for drag curve. Input field.

NOTE: Most long range rifle bullets are closer to the G7 standard.

Profile Fields: Gun Properties

MUZZLE VELOCITY: The speed of the bullet as it leaves the muzzle, displayed in feet per second (ft./sec.) or meters per second (m/s). Input field.

NOTE: This field is required for accurate calculations by the shooting solution. If you calibrate the muzzle velocity, this field may be updated automatically for a more accurate firing solution.

SIGHT HEIGHT: The distance from the center axis of the rifle barrel to the center axis of the scope, displayed in inches or centimeters. Input field.

TIP: You can easily determine this value by measuring from the top of the bolt to the center of the windage turret, and adding half of the diameter of the bolt.

SSF ELEVATION: A linear multiplier that accounts for vertical scaling. Not all rifle scopes track perfectly, so the ballistics solution requires a correction to scale according to a particular rifle scope. For example, if a turret is moved 10 mil but the impact is 9 mil, the sight scale is 0.9. Input field.

SSF WINDAGE: A linear multiplier that accounts for horizontal scaling. Not all rifle scopes track perfectly, so the ballistics solution requires a correction to scale according to a particular rifle scope. For example, if a turret is moved 10 mil but the impact is 9 mil, the sight scale is 0.9. Input field.

TWIST RATE: The distance it takes for the rifling of your barrel to make one full rotation, displayed in inches or centimeters. Rifle twist is often provided by the gun or barrel manufacturer. Input field.

ZERO HEIGHT: An optional modification to impact elevation at zero range. This is often used when adding a suppressor or using a subsonic load. For example, if you add a suppressor and your bullet impacts the target 1 inch higher than expected, your ZERO HEIGHT is 1 inch. You must set this to zero when you remove the suppressor. Input field.

ZERO OFFSET: An optional modification to impact windage at zero range. This is often used when adding a suppressor or using a subsonic load. For example, if you add a suppressor and your bullet impacts the target 1 inch to the left of the expected impact, your ZERO OFFSET is -1 inch. You must set this to zero when you remove the suppressor. Input field.

ZERO RANGE: The range at which the rifle was zeroed, displayed in yards or meters. Input field.

Profile Fields: Calibrate Muzzle Velocity

RANGE: The distance from the muzzle to the target, displayed in yards or meters. Input field.

TIP: You should enter a value as close as possible to the range suggested in the shooting solution. This is the range where the bullet slows to Mach 1.2 and begins to enter the transonic range.

TRUE DROP: The actual distance the bullet falls while in flight to the target, displayed in milliradians (mrad or mil) or minute of angle (MOA). Input field.

Profile Fields: Calibrate Drop Scale Factor

RANGE: The range from which you are shooting. Input field.

TIP: This range should be within 90% of the recommended range suggested in the shooting solution. Values that are less than 80% of the recommended range will not provide a valid adjustment.

TRUE DROP: The actual distance the bullet falls when fired at a specific range, displayed in milliradians (mrad or mil) or minute of angle (MOA). Input field.

Applied Ballistics App Settings

From the home screen, press **▲**, and select **AB MENU > SETTINGS**.

INPUT UNITS: Sets the units of measure used for input fields in the APPLIED BALLISTICS app.

WIND UNITS: Sets the units of measure used for wind fields in the APPLIED BALLISTICS app.

SPIN DRIFT: Enables or disables SPIN DRIFT in calculations.

CORIOLIS EFFECT: Enables or disables CORIOLIS EFFECT in calculations.

AERODYNAMIC JUMP: Enables or disables AERODYNAMIC JUMP in calculations.

Customizing Your Device

Settings

From the home screen, press **◀**, and select **SETTINGS**.

DISPLAY: Adjusts the display settings, such as brightness, color, and the amount of time the display is active before it turns off.

HUD PROFILE: Sets the profile for the home screen data (*HUD Profiles*, page 8).

MAP: Shows or hides detail relief on the map, and sets the level of detail for the map.

CALIBRATE COMPASS: Allows you to manually calibrate the compass if you experience irregular compass behavior. For example, after moving long distances or after extreme temperature changes.

PHONE: Pairs your rangefinder to a compatible phone (*Pairing Your Phone*, page 4).

RANGING: Sets the scan mode. When set to RECENT, the distance of the last object lased while **XX** is being held appears. MAXIMUM displays the value of the farthest lased object, while MINIMUM displays the value of the nearest.

SYSTEM: Sets the system settings, such as device language, units of measure, and satellite preferences (*System Settings*, page 16).

System Settings

From the home screen, press **◀**, and select **SETTINGS > SYSTEM**.

UNITS: Sets the units of measure for the device.

DISPLAY DECIMAL PRECISION: Displays the ranged value in decimal format.

LANGUAGE: Sets the language displayed on the rangefinder.

NAVIGATION SATELLITES: Sets the default satellite system (*Satellite Settings*, page 17).

ENABLE STATUS LED: Enables the status LED (*Status LEDs*, page 2).

PASSCODE: Sets a four-digit passcode to secure your personal information (*Setting Your Device Passcode*, page 17).

RESET OPTIONS: Deletes data and resets settings (*Resetting All Default Settings*, page 17).

ABOUT: Displays device, software, license, and regulatory information.

Satellite Settings

You can change the satellite systems used by the rangefinder. For more information about satellite systems, go to garmin.com/aboutGPS.

From the home screen, press  and select **SETTINGS > SYSTEM > NAVIGATION SATELLITES**.

GPS ONLY: Enables the GPS satellite system.

ALL SYSTEMS: Enables multiple satellite systems. Using multiple satellite systems together offers increased performance in challenging environments and faster position acquisition than using GPS only. However, using multiple systems can reduce battery life more quickly than using GPS only.

Setting Your Device Passcode

NOTICE

If you enter your passcode incorrectly three times, the device locks temporarily. After five incorrect attempts, the device deletes your data and resets to the factory default settings.

You can set up a device passcode to prevent unauthorized users from using your device. Once enabled, you must enter the passcode immediately after you turn on the device.

1 Select an option:

- During the initial setup, select **YES** when prompted to enable a passcode.
- Press  from the home screen, and select **SETTINGS > SYSTEM > PASSCODE > ENABLE PASSCODE**.

2 Enter a four-digit passcode.

Changing Your Device Passcode

NOTICE

You must know your existing device passcode to change it. If you enter your passcode incorrectly three times, the device locks temporarily. After five incorrect attempts, the device deletes your data and resets to the factory default settings.

1 From the home screen, press .

2 Select **SETTINGS > SYSTEM > PASSCODE**.

3 Enter your existing four-digit passcode.

4 Select **CHANGE PASSCODE**.

5 Enter a new four-digit passcode.

Resetting All Default Settings

The rangefinder offers options for deleting your user data and resetting all settings to the factory default values.

NOTE: If you clear data from the rangefinder after you sync with the Garmin Explore app, the data is not deleted from the app.

1 From the home screen, press .

2 Select **SETTINGS > SYSTEM > RESET OPTIONS**.

3 Select an option:

- To delete all of your recorded sessions from the rangefinder, select **CLEAR ALL SESSIONS**.
- To reset all settings to factory default values, select **RESTORE DEFAULT SETTINGS**.
- To reset all settings to factory default values and delete all user data and sessions, select **FACTORY RESET**.

Opening the Quick Options Menu

The quick options menu provides quick access to additional features and settings.

1 From the home screen, press .

2 Press  or  to cycle between the options.

Device Information

Device Care

NOTICE

Do not store the device where prolonged exposure to extreme temperatures can occur, because it can cause permanent damage.

Avoid chemical cleaners, solvents, and insect repellents that can damage plastic components and finishes.

Secure the weather cap tightly to prevent damage to the USB port.

Cleaning the Device

NOTICE

Do not use a dry cloth to clean the lens. Use of a dry cloth may damage the lens.

Avoid chemical cleaners and solvents that can damage plastic components.

- 1 Wipe the outer casing and lens with a soft, non-scratch cloth dampened with water or alcohol.
- 2 Wipe the outer casing dry, and allow the lens to air dry.

Long-Term Storage

When you do not plan to use the device for several months, remove the batteries. Stored data is not lost when batteries are removed.

Attaching a Lanyard

- 1 Insert the loop of the lanyard through the slot in the device.
- 2 Thread the other end of the lanyard through the loop, and pull it tight.

Specifications

Battery type	Replaceable 1.5 V AAA lithium
Battery life	Up to 1400 ranges (one second range followed by 10 second display)
Water rating	IEC 60529 IPX7 ¹
Operating temperature range	From -20° to 60°C (from -4° to 140°F) NOTICE Do not expose the device to temperatures above 60°C (140°F).
Wireless frequencies and transmit power	M/N: A04378 2400 - 2483,5 MHz: < 20 dBm
SAR values	M/N: A04378 0,17 W/kg trunk; 0,17 W/kg limb; 0,01 W/kg head

Viewing Device Information

You can view device information, such as the unit ID, software version, regulatory information, and license agreement.

- 1 From the home screen, press .
- 2 Select **SETTINGS > SYSTEM > ABOUT**.

¹ The device withstands incidental exposure to water of up to 1 m for up to 30 min. For more information, go to www.garmin.com/waterrating.

Viewing E-label Regulatory and Compliance Information

The label for this device is provided electronically. The e-label may provide regulatory information, such as identification numbers provided by the FCC or regional compliance markings, as well as applicable product and licensing information.

- 1 From the home screen, press .
- 2 From the settings menu, select **SYSTEM**.
- 3 Select **ABOUT**.

Troubleshooting

Troubleshooting Ranging Accuracy

External factors may affect ranging accuracy, such as ambient light, weather conditions, target reflectivity, and target size.

- Larger objects are easier to target than smaller objects. If you are having trouble ranging a smaller target, range a larger target that is nearby instead.
- The device can target longer ranges in lower light conditions, such as on overcast days. Bright sunlight minimizes ranging ability.
- Rain minimizes ranging ability.
- The device can target longer ranges when measuring the distance to reflective or shiny objects.
- The device can target longer ranges when the angle to the target is closer to 90 degrees. A smaller angle to the target limits ranging ability.

Acquiring Satellite Signals

The device may need a clear view of the sky to acquire satellite signals. The time and date are set automatically based on the GPS position.

- 1 Go outdoors to an open area.
The top of the device should be oriented toward the sky.
- 2 Wait while the device locates satellites.
It may take 30–60 seconds to locate satellite signals.

Disconnecting the USB Cable

If your device is connected to your computer as a removable drive or volume, you must safely disconnect your device from your computer to avoid data loss. If your device is connected to your Windows® computer as a portable device, it is not necessary to safely disconnect the device.

- 1 Complete an action:
 - For Windows computers, select the **Safely Remove Hardware** icon in the system tray, and select your device.
 - For Apple® computers, select the device, and select **File > Eject**.
- 2 Disconnect the cable from your computer.

Product Updates

Your device automatically checks for updates when paired with a phone using Bluetooth technology. You can manually check for updates from the system settings (*System Settings, page 16*). On your computer, install Garmin Express™ (garmin.com/express).

This provides easy access to these services for Garmin devices:

- Software updates
- Map updates

NOTE: Map updates are available through Garmin Express.

- Product registration

Setting Up Garmin Express

- 1 Connect the device to your computer using a USB cable.
- 2 Go to garmin.com/express.
- 3 Follow the on-screen instructions.

Getting More Information

You can find more information about this product on the Garmin website.

- Go to support.garmin.com for additional manuals, articles, and software updates.
- Go to buy.garmin.com, or contact your Garmin dealer for information about optional accessories and replacement parts.

support.garmin.com