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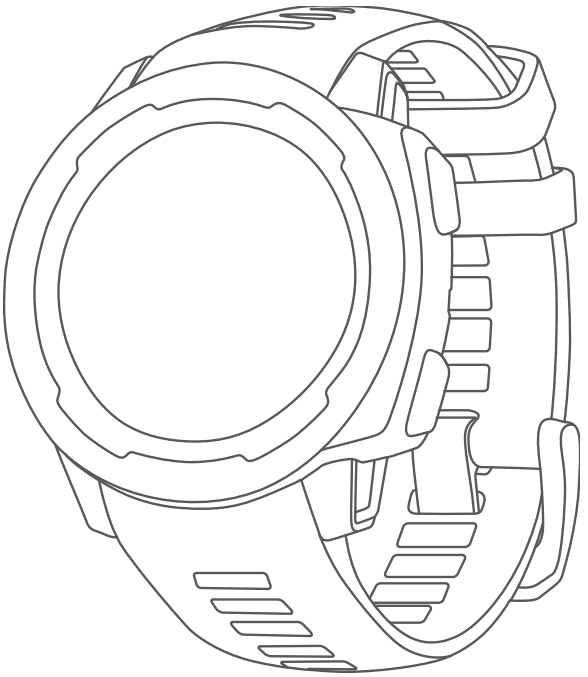

INSTINCT® 2 SERIES

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 consult your physician before you begin or modify any exercise program.

Getting Started

When using your watch the first time, you should complete these tasks to set it up and get to know the basic features.

1. Press **CTRL** to turn on the watch (*Buttons*, page 2).
2. Follow the on-screen instructions to complete the initial setup.

   During the initial setup, you can pair your smartphone with your watch to receive notifications, sync your activities, and more (*Pairing Your Phone with Your Watch*, page 63).
3. Charge the device (*Charging the Watch*, page 80).
4. Start an activity (*Starting an Activity*, page 8).

Buttons

1 LIGHT CTRL	Press to turn the backlight on and off. Press to turn the device on. Hold to view the controls menu.
2 GPS	Press to view the activity list and start or stop an activity. Press to choose an option in a menu. Hold to view GPS coordinates and save your location.
3 BACK SET	Press to return to the previous screen. Hold to view the clock menu.
4 DOWN ABC	Press to scroll through the glance loop and menus. Hold to view the altimeter, barometer, and compass (ABC) screen.
5 UP MENU	Press to scroll through the glance loop and menus. Hold to view the menu.

Using the Watch

- Hold **CTRL** to view the controls menu (*Controls*, page 49).

  The controls menu provides quick access to frequently used functions, such as turning on do not disturb mode, saving a location, and turning the watch off.
- From the watch face, press **UP** or **DOWN** to scroll through the glance loop (*Glances*, page 38).
- From the watch face, press **GPS** to start an activity or open an app (*Activities and Apps*, page 7).
- Hold **MENU** to customize the watch face (*Customizing the Watch Face*, page 37), adjust settings (*System Settings*, page 78), pair wireless sensors (*Pairing Your Wireless Sensors*, page 59), and more.

Clearing User Data with the Kill Switch Feature

NOTE: This feature is only available on Instinct 2 Solar - Tactical Edition models.

The Kill Switch feature quickly removes all saved user-entered data and resets all settings to the factory default values.

Hold **SET** and **CTRL**.

TIP: You can press any button to cancel the Kill Switch feature during a 10-second countdown.

After 10 seconds, the watch deletes all user-entered data.

Instinct 2 Series Models

The Instinct 2 Series watch has several available models that add additional features.

Watch Model	Additional Features
Instinct 2 Solar	• Solar charging to charge your watch outside (*Tips for Solar Charging*, page 81) • Making purchases with the Garmin Pay™ feature (*Garmin Pay*, page 51)
Instinct 2 - Surf Edition	• Recording surf activities (*Surfing*, page 23) • Viewing the Surfline™ glance (*Glances*, page 38) • Viewing tide information for a location (*Viewing Tide Information*, page 24)
Instinct 2 Solar - Tactical Edition	• Compatibility with night vision goggles (*Controls*, page 49) • Using stealth mode to turn off wireless communications (*Controls*, page 49) • Using the kill switch feature to remove data and reset settings (*Clearing User Data with the Kill Switch Feature*, page 3) • Recording jumpmaster activities (*Jumpmaster*, page 21)
Instinct 2 - dēzl™ Edition	• Connecting with the Garmin® dēzl app and other dēzl devices (*dēzl App*, page 6) • Break planning to keep track of your working hours (*Using Break Planning on the Watch*, page 7) • Viewing loyalty card information for trucking plaza rewards accounts (*Loyalty Programs*, page 7) • Recording trucker health workouts (*Starting a Trucker Health Activity*, page 7)

Clocks

Setting an Alarm

You can set multiple alarms. You can set each alarm to sound once or to repeat regularly.

1. From any screen, hold **SET**.
2. Select **Alarms**.
3. Enter the alarm time.
4. Select **Repeat**, and select when the alarm should repeat (optional).
5. Select **Sound and Vibe**, and select a type of notification (optional).
6. Select **Backlight** > **On** to turn on the backlight with the alarm (optional).
7. Select **Label**, and select a description for the alarm (optional).

Starting the Countdown Timer

1. From any screen, hold **SET**.
2. Select **Timers**.
3. Enter the time.
4. If necessary, select an option to edit the timer:
   - To automatically restart the timer after it expires, press **UP** and select **Auto Restart** > **On**.
   - To select a type of notification, press **UP** and select **Sound and Vibe**.
5. Press **GPS** to start the timer.

Saving a Quick Timer

You can set up to ten separate quick timers.

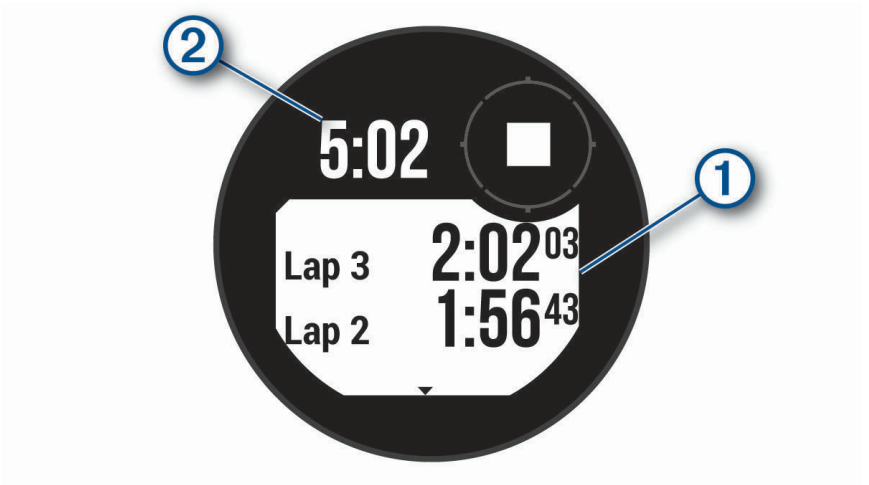
1. From any screen, hold **SET**.
2. Select **Timers**.
3. Select an option:
   - To save your first quick timer, enter the time, press **UP**, and select **Save**.
   - To save additional quick timers, select **Add Timer**, and enter the time.

Deleting a Timer

1. From any screen, hold **SET**.
2. Select **Timers**.
3. Select a timer.
4. Press **UP**.
5. Select **Delete**.

Using the Stopwatch

1. From any screen, hold **SET**.
2. Select **Stopwatch**.
3. Press **GPS** to start the timer.
4. Press **SET** to restart the lap timer ①.



   The total stopwatch time ② continues running.
5. Press **GPS** to stop both timers.
6. Press **UP**, and select an option.

Syncing the Time with GPS

Each time you turn on the device and acquire satellites, the device automatically detects your time zones and the current time of day. You can also manually sync the time with GPS when you change time zones, and to update for daylight saving time.

1. From any screen, hold **SET**.
2. Select **Set Time with GPS**.
3. Wait while the device locates satellites (*Acquiring Satellite Signals*, page 87).

Adding Alternate Time Zones

You can display the current time of day in additional time zones on the alternate time zones glance. You can add up to three alternate time zones.

1. From any screen, hold **SET**.
2. Select **Alt. Time Zones**.
3. Select **Add Zone**.
4. Select a time zone.
5. If necessary, rename the time zone.

Setting Alerts

1 From any screen, hold **SET**.
2 Select **Alerts**.
3 Select an option:
- To set an alert to sound a specific number of minutes or hours before the actual sunset occurs, select **Til Sunset** > **Status** > **On**, select **Time**, and enter the time.
- To set an alert to sound a specific number of minutes or hours before the actual sunrise occurs, select **Til Sunrise** > **Status** > **On**, select **Time**, and enter the time.
- To set an alert to sound when a storm approaches, select **Storm Alert** > **On**, select **Rate**, and select the rate of pressure change.
- To set an alert to sound every hour, select **Hourly** > **On**.

Trucking

Getting Started with Your Instinct 2 - dēzl Edition Watch

When using your Instinct 2 - dēzl Edition watch the first time, you should complete these tasks to complete the setup and get to know the basic trucking features.

1 Download the dēzl app, and add your Instinct 2 - dēzl Edition watch (*dēzl App*, page 6).
2 If necessary, in the dēzl app, add your dēzl navigation device.

NOTE: See the owner's manual for your dēzl device for more information.

3 Use the break planning glance to keep track of your working hours (*Using Break Planning on the Watch*, page 7).
4 In the watch settings in the Garmin dēzl app, log in to your trucking plaza rewards accounts to view your rewards information on your watch (*Loyalty Programs*, page 7).
5 Start a **Trucker Health** activity, and view the workout tutorials on the Garmin dēzl app (*Starting a Trucker Health Activity*, page 7).

dēzl App

⚠ WARNING

Use caution when using the device while operating a vehicle. Only access the information displayed on the device with a glance. Always maintain awareness of your surroundings and do not stare at the display or become distracted by the display. Focusing on the display could prevent you from avoiding obstacles or hazards, which could lead to an accident causing property damage, serious personal injury, or death.

The dēzl app enables features specific to the professional driving customer and allows you to connect and integrate your dēzl navigation device and your dēzl wearable device. You can download the dēzl app from the app store on your smartphone.

PrePass®

NOTICE

Garmin is not responsible for the accuracy or timeliness of the information provided by the PrePass app.

NOTE: Before you can use this feature, you must have an active PrePass account.

The PrePass app enables drivers to verify the safety, credentials, and weight of a commercial vehicle with upcoming weigh stations. You can pair your Instinct 2 - dēzl Edition device with the dēzl app and the PrePass app to receive upcoming weigh station notifications on your Instinct 2 - dēzl Edition device.

NOTE: This feature is available only in the United States.

Starting a Trucker Health Activity

You can follow preloaded workouts designed to be done during your driving breaks.

1. From the watch face, press **GPS**.
2. Select **Trucker Health**.
3. Select a workout type.
4. Select a workout duration.
5. If necessary, open the dēzl app to view exercise tutorials.
6. Press **GPS** to start the workout.

After you begin a workout, the device displays each step of the workout, the time left for each step, and your current heart rate.

Break Planning

NOTICE

This device by itself is NOT an approved substitute for logbook recording requirements under Federal Motor Carrier Safety Administration (FMCSA) regulations. Drivers should comply with all applicable federal and state hours-of-service requirements. When integrated with a Garmin eLog™ compliant Electronic Logging Device (ELD), this device enables a motor carrier to comply with hours of service logging and break requirements. For more information, or to purchase a Garmin eLog device, go to garmin.com/elog.

You can use the break planning glance on your Instinct 2 - dēzl Edition watch to keep track of your working hours, which may help you comply with safety regulations.

Using Break Planning on the Watch

You can start the timer from the break planning glance at any time.

1. From the watch face, press **UP** or **DOWN** to view the break planning glance.
2. Press **GPS** to start a drive.

   The drive timer starts and your next break time displays below the timer.
3. Press **GPS** to start a break.

   The break timer starts and your total break time displays below the timer.

Loyalty Programs

From your Instinct 2 - dēzl Edition watch, you can access loyalty programs from some of the travel plazas in the United States, including Love's Travel Stops® and Pilot Flying J Travel Centers™. You can use a watch glance to check reward points balances and other loyalty program information (*Glances*, page 38).

Activities and Apps

Your watch can be used for indoor, outdoor, athletic, and fitness activities. When you start an activity, the watch displays and records sensor data. You can create custom activities or new activities based on default activities (*Creating a Custom Activity*, page 25). When you finish your activities, you can save and share them with the Garmin Connect™ community.

You can also add Connect IQ™ activities and apps to your watch using the Connect IQ app (*Connect IQ Features*, page 66).

For more information about activity tracking and fitness metric accuracy, go to garmin.com/ataccuracy.

Starting an Activity

When you start an activity, GPS turns on automatically (if required).

1. From the watch face, press **GPS**.
2. If this is the first time you are starting an activity, select the checkbox next to each activity to add to your favorites, and select **Done**.
3. Select an option:
   - Select an activity from your favorites.
   - Select , and select an activity from the extended activity list.
4. If the activity requires GPS signals, go outside to an area with a clear view of the sky, and wait until the watch is ready.

   The watch is ready after it establishes your heart rate, acquires GPS signals (if required), and connects to your wireless sensors (if required).
5. Press **GPS** to start the activity timer.

   The watch records activity data only while the activity timer is running.

Tips for Recording Activities

- Charge the watch before starting an activity (*Charging the Watch*, page 80).
- Press **SET** to record laps, start a new set or pose, or advance to the next workout step.
- Press **UP** or **DOWN** to view additional data screens.
- Hold **MENU**, and select **Power Mode** to use a power mode to extend battery life (*Customizing Power Modes*, page 77).

Stopping an Activity

1. Press **GPS**.
2. Select an option:
   - To resume your activity, select **Resume**.
   - To save the activity and return to watch mode, select **Save** > **Done**.
   - To suspend your activity and resume it at a later time, select **Resume Later**.
   - To mark a lap, select **Lap**.
   - To navigate back to the starting point of your activity along the path you traveled, select **Back to Start** > **TracBack**.

     NOTE: This feature is available only for activities that use GPS.
   - To navigate back to the starting point of your activity by the most direct path, select **Back to Start** > **Straight Line**.

     NOTE: This feature is available only for activities that use GPS.
   - To measure the difference between your heart rate at the end of the activity and your heart rate two minutes later, select **Recovery HR**, and wait while the timer counts down.
   - To discard the activity and return to watch mode, select **Discard** > ✓.

   NOTE: After stopping the activity, the device saves it automatically after 30 minutes.

Running

Going for a Track Run

Before you go for a track run, make sure you are running on a standard-shape, 400 m track.

You can use the track run activity to record your outdoor track data, including distance in meters and lap splits.

1. Stand on the outdoor track.
2. From the watch face, press **GPS**.
3. Select **Track Run**.
4. Wait while the watch locates satellites.
5. If you are running in lane 1, skip to step 11.
6. Press **MENU**.
7. Select the activity settings.
8. Select **Lane Number**.
9. Select a lane number.
10. Press **BACK** twice to return to the activity timer.
11. Press **GPS**.
12. Run around the track.

    After you run 3 laps, your watch records the track dimensions and calibrates your track distance.
13. After you complete your activity, press **GPS**, and select **Save**.

Tips for Recording a Track Run

- Wait until the GPS status indicator turns green before starting a track run.
- During your first run on an unfamiliar track, run for a minimum of 3 laps to calibrate your track distance. You should run slightly past your starting point to complete the lap.
- Run each lap in the same lane.

  NOTE: The default Auto Lap® distance is 1600 m, or 4 laps around the track.
- If you are running in a lane other than lane 1, set the lane number in the activity settings.

Going for a Virtual Run

You can pair your watch with a compatible third-party app to transmit pace, heart rate, or cadence data.

1. From the watch face, press **GPS**.
2. Select **Virtual Run**.
3. On your tablet, laptop, or phone, open the Zwift™ app or another virtual training app.
4. Follow the on-screen instructions to start a running activity and pair the devices.
5. Press **GPS** to start the activity timer.
6. After you complete your activity, press **GPS**, and select **Save**.

Calibrating the Treadmill Distance

To record more accurate distances for your treadmill runs, you can calibrate the treadmill distance after you run at least 1.5 km (1 mi.) on a treadmill. If you use different treadmills, you can manually calibrate the treadmill distance on each treadmill or after each run.

1. Start a treadmill activity (*Starting an Activity*, page 8).
2. Run on the treadmill until your watch records at least 1.5 km (1 mi.).
3. After you finish the activity, press **GPS** to stop the activity timer.
4. Select an option:
   - To calibrate the treadmill distance the first time, select **Save**.
     The device prompts you to complete the treadmill calibration.
   - To manually calibrate the treadmill distance after the first-time calibration, select **Calibrate & Save** > ✔.
5. Check the treadmill display for the distance traveled, and enter the distance on your watch.

Swimming

NOTICE

The device is intended for surface swimming. Scuba diving with the device may damage the product and will void the warranty.

NOTE: The watch has wrist-based heart rate enabled for swim activities.

Swim Terminology

Length: One trip down the pool.

Interval: One or more consecutive lengths. A new interval starts after a rest.

Stroke: A stroke is counted every time your arm wearing the device completes a full cycle.

Swolf: Your swolf score is the sum of the time for one pool length and the number of strokes for that length. For example, 30 seconds plus 15 strokes equals a swolf score of 45. For open water swimming, swolf is calculated over 25 meters. Swolf is a measurement of swimming efficiency and, like golf, a lower score is better.

Stroke Types

Stroke type identification is available only for pool swimming. Your stroke type is identified at the end of a length. Stroke types appear in your swimming history and in your Garmin Connect account. You can also select stroke type as a custom data field (*Customizing the Data Screens*, page 25).

Free	Freestyle
Back	Backstroke
Breast	Breaststroke
Fly	Butterfly
Mixed	More than one stroke type in an interval
Drill	Used with drill logging (*Training with the Drill Log*, page 11)

Tips for Swimming Activities

- Press **SET** to record an interval during open water swimming.
- Before starting a pool swimming activity, follow the on-screen instructions to select your pool size or enter a custom size.

  The watch measures and records distance by completed pool lengths. The pool size must be correct to display accurate distance. The next time you start a pool swimming activity, the watch uses this pool size. You can hold MENU, select the activity settings, and select Pool Size to change the size.
- For accurate results, swim the entire pool length, and use one stroke type for the entire length. Pause the activity timer when resting.
- Press **SET** to record a rest during pool swimming (*Auto Rest and Manual Rest*, page 11).

  The device automatically records swim intervals and lengths for pool swimming.
- To help the device count your lengths, use a strong push off the wall and glide before your first stroke.
- When doing drills, you must either pause the activity timer or use the drill logging feature (*Training with the Drill Log*, page 11).

Auto Rest and Manual Rest

NOTE: Swim data is not recorded during a rest. To view other data screens, you can press UP or DOWN.

The auto rest feature is available only for pool swimming. Your watch automatically detects when you are resting, and the rest screen appears. If you rest for more than 15 seconds, the watch automatically creates a rest interval. When you resume swimming, the watch automatically starts a new swim interval. You can turn on the auto rest feature in the activity options (*Activities and App Settings*, page 26).

TIP: For best results using the auto rest feature, minimize your arm motions while resting.

During a pool or open water swim activity, you can manually mark a rest interval by pressing SET.

Training with the Drill Log

The drill log feature is available only for pool swimming. You can use the drill log feature to manually record kick sets, one-arm swimming, or any type of swimming that is not one of the four major strokes.

1. During your pool swim activity, press **UP** or **DOWN** to view the drill log screen.
2. Press **SET** to start the drill timer.
3. After you complete a drill interval, press **SET**.

   The drill timer stops, but the activity timer continues to record the entire swim session.
4. Select a distance for the completed drill.

   Distance increments are based on the pool size selected for the activity profile.
5. Select an option:
   - To start another drill interval, press **SET**.
   - To start a swim interval, press **UP** or **DOWN** to return to the swim training screens.

Multisport

Triathletes, duathletes, and other multisport competitors can take advantage of the multisport activities, such as Triathlon or Swimrun. During a multisport activity, you can transition between activities and continue to view your total time. For example, you can switch from biking to running and view your total time for biking and running throughout the multisport activity.

You can customize a multisport activity, or you can use the default triathlon activity set up for a standard triathlon.

Triathlon Training

When you participate in a triathlon, you can use the triathlon activity to quickly transition to each sport segment, to time each segment, and to save the activity.

1. From the watch face, press **GPS**.
2. Select **Triathlon**.
3. Press **GPS** to start the activity timer.
4. Press **SET** at the beginning and end of each transition.

   The transition feature is on by default, and the transition time is recorded separately from the activity time. The transition feature can be turned on or off in the triathlon activity settings. If transitions are turned off, press SET to change sports.
5. After you complete your activity, press **GPS**, and select **Save**.

Creating a Multisport Activity

1. From the watch face, press **GPS**.
2. Select **Add** > **Multisport**.
3. Select a multisport activity type, or enter a custom name.

   Duplicate activity names include a number. For example, Triathlon(2).
4. Select two or more activities.
5. Select an option:
   - Select an option to customize specific activity settings. For example, you can select whether to include transitions.
   - Select **Done** to save and use the multisport activity.
6. Select ✓ to add the activity to your list of favorites.

Indoor Activities

The watch can be used for training indoors, such as running on an indoor track or using a stationary bike or indoor trainer. GPS is turned off for indoor activities (*Activities and App Settings*, page 26).

When running or walking with GPS turned off, speed and distance are calculated using the accelerometer in the watch. The accelerometer is self-calibrating. The accuracy of the speed and distance data improves after a few outdoor runs or walks using GPS.

TIP: Holding the handrails of the treadmill reduces accuracy.

When cycling with GPS turned off, speed and distance data are not available unless you have an optional sensor that sends speed and distance data to the watch, such as a speed or cadence sensor.

Recording a Strength Training Activity

You can record sets during a strength training activity. A set is multiple repetitions (reps) of a single move.

1. From the watch face, press **GPS**.
2. Select **Strength**.

   The first time you record a strength training activity, you must select which wrist your watch is on.
3. Press **GPS** to start the set timer.
4. Start your first set.

   The device counts your reps. Your rep count appears when you complete at least four reps.

   TIP: The device can only count reps of a single move for each set. When you want to change moves, you should finish the set and start a new one.
5. Press **SET** to finish the set.

   The watch displays the total reps for the set. After several seconds, the rest timer appears.
6. If necessary, press **DOWN**, and edit the number of reps.

   TIP: You can also add the weight used for the set.
7. When you are done resting, press **SET** to start your next set.
8. Repeat for each strength training set until your activity is complete.
9. After your last set, press **GPS** to stop the set timer.
10. Select **Save**.

Recording a HIIT Activity

You can use specialized timers to record a high-intensity interval training (HIIT) activity.

1. From the watch face, press **GPS**.
2. Select **HIIT**.
3. Select an option:
   - Select **Free** to record an open, unstructured HIIT activity.
   - Select **HIIT Timers** > **AMRAP** to record as many rounds as possible during a set time period.
   - Select **HIIT Timers** > **EMOM** to record a set number of moves every minute on the minute.
   - Select **HIIT Timers** > **Tabata** to alternate between 20-second intervals of maximum effort with 10 seconds of rest.
   - Select **HIIT Timers** > **Custom** to set your move time, rest time, number of moves, and number of rounds.
   - Select **Workouts** to follow a saved workout.
4. If necessary, follow the on-screen instructions.
5. Press **GPS** to start your first round.

   The watch displays a countdown timer and your current heart rate.
6. If necessary, press **SET** to manually move to the next round or rest.
7. After you finish the activity, press **GPS** to stop the activity timer.
8. Select **Save**.

Using an ANT+® Indoor Trainer

Before you can use a compatible ANT+ indoor trainer, you must pair the trainer with your watch (*Pairing Your Wireless Sensors*, page 59).

You can use your watch with an indoor trainer to simulate resistance while following a course, ride, or workout. While using an indoor trainer, GPS is turned off automatically.

1. From the watch face, press **GPS**.
2. Select **Bike Indoor**.
3. Press **MENU**.
4. Select **Smart Trainer Options**.
5. Select an option:
   - Select **Free Ride** to go for a ride.
   - Select **Follow Course** to follow a saved course (*Courses*, page 74).
   - Select **Follow Workout** to follow a saved workout (*Workouts*, page 30).
   - Select **Set Power** to set the target power value.
   - Select **Set Grade** to set the simulated grade value.
   - Select **Set Resistance** to set the resistance force applied by the trainer.
6. Press **GPS** to start the activity timer.

   The trainer increases or decreases resistance based on the elevation information in the course or ride.

Climbing Sports

Recording an Indoor Climbing Activity

You can record routes during an indoor climbing activity. A route is a climbing path along an indoor rock wall.

1. From the watch face, press **GPS**.
2. Select **Climb Indoor**.
3. Select ✔ to record route statistics.
4. Select a grading system.

   NOTE: The next time you start an indoor climbing activity, the device uses this grading system. You can hold MENU, select the activity settings, and select Grading System to change the system.
5. Select the difficulty level for the route.
6. Press **GPS**.
7. Start your first route.

   NOTE: When the route timer is running, the device automatically locks the buttons to prevent accidental button presses. You can hold any button to unlock the watch.
8. When you finish the route, descend to the ground.

   The rest timer starts automatically when you are on the ground.

   NOTE: If necessary, you can press SET to finish the route.
9. Select an option:
   - To save a successful route, select **Completed**.
   - To save an unsuccessful route, select **Attempted**.
   - To delete the route, select **Discard**.
10. Enter the number of falls for the route.
11. When you are done resting, press **SET** and begin your next route.
12. Repeat this process for each route until your activity is complete.
13. Press **GPS**.
14. Select **Save**.

Recording a Bouldering Activity

You can record routes during a bouldering activity. A route is a climbing path along a boulder or small rock formation.

1. From the watch face, press **GPS**.
2. Select **Bouldering**.
3. Select a grading system.

   NOTE: The next time you start a bouldering activity, the watch uses this grading system. You can hold MENU, select the activity settings, and select Grading System to change the system.
4. Select the difficulty level for the route.
5. Press **GPS** to start the route timer.
6. Start your first route.
7. Press **SET** to finish the route.
8. Select an option:
   - To save a successful route, select **Completed**.
   - To save an unsuccessful route, select **Attempted**.
   - To delete the route, select **Discard**.
9. When you are done resting, press **SET** to start your next route.
10. Repeat this process for each route until your activity is complete.
11. After your last route, press **GPS** to stop the route timer.
12. Select **Save**.

Starting an Expedition

You can use the **Expedition** app to prolong the battery life while recording a multi-day activity.

1. From the watch face, press **GPS**.
2. Select **Expedition**.
3. Press **GPS** to start the activity timer.

   The device enters low power mode and collects GPS track points once an hour. To maximize battery life, the device turns off all sensors and accessories, including the connection to your smartphone.

Recording a Track Point Manually

During an expedition, track points are recorded automatically based on the selected recording interval. You can manually record a track point at any time.

1. During an expedition, press **GPS**.
2. Select **Add Point**.

Viewing Track Points

1. During an expedition, press **GPS**.
2. Select **View Points**.
3. Select a track point from the list.
4. Select an option:
   - To start navigating to the track point, select **Go To**.
   - To view detailed information about the track point, select **Details**.

Going Hunting

You can save locations relevant to your hunt and view a map of saved locations. During a hunting activity, the device uses a GNSS mode that conserves battery life.

1. From the watch face, press **GPS**.
2. Select **Hunt**.
3. From the map, press **GPS**, and select **Start Hunt**.
4. Press **GPS**, and select an option:
   - To save your current location, select **Save Location**.
   - To view locations saved during this hunt activity, select **Hunt Locations**.
   - To view all previously saved locations, select **Saved Locations**.
5. After you complete your hunt, press **GPS**, and select **End Hunt**.

Going Fishing

1. From the watch face, press **GPS**.
2. Select **Fish**.
3. Press **GPS** > **Start Fish**.
4. Press **GPS**, and select an option:
   - To add the catch to your fish count and save the location, select **Log Catch**.
   - To save your current location, select **Save Location**.
   - To set an interval timer, end time, or end time reminder for the activity, select **Fish Timers**.
   - To navigate back to the starting point of your activity, select **Back to Start**, and select an option.
   - To view your saved locations, select **Saved Locations**.
   - To navigate to a destination, select **Navigation**, and select an option.
   - To edit the activity settings, select **Settings**, and select an option (*Activities and App Settings*, page 26).
5. After you complete your activity, press **GPS**, and select **End Fish**.

Skiing

Viewing Your Ski Runs

Your watch records the details of each downhill skiing or snowboarding run using the auto run feature. This feature is turned on by default for downhill skiing and snowboarding. It automatically records new ski runs based on your movement. The activity timer pauses when you stop moving downhill and when you are on a chairlift. The activity timer remains paused during the chairlift ride. You can start moving downhill to restart the activity timer. You can view run details from the paused screen or while the activity timer is running.

1. Start a skiing or snowboarding activity.
2. Hold **MENU**.
3. Select **View Runs**.
4. Press **UP** and **DOWN** to view details of your last run, your current run, and your total runs.

   The run screens include time, distance traveled, maximum speed, average speed, and total descent.

Recording a Backcountry Skiing Activity

The backcountry skiing activity lets you manually switch between climbing and descending tracking modes so you can accurately track your statistics.

1. From the watch face, press **GPS**.
2. Select **Backcountry Ski**.
3. Select an option:
   - If you are starting your activity on a climb, select **Climbing**.
   - If you are starting your activity moving downhill, select **Descending**.
4. Press **GPS** to start the activity timer.
5. Press **SET** to switch between climbing and descending tracking modes.
6. After you complete your activity, press **GPS**, and select **Save**.

Golfing

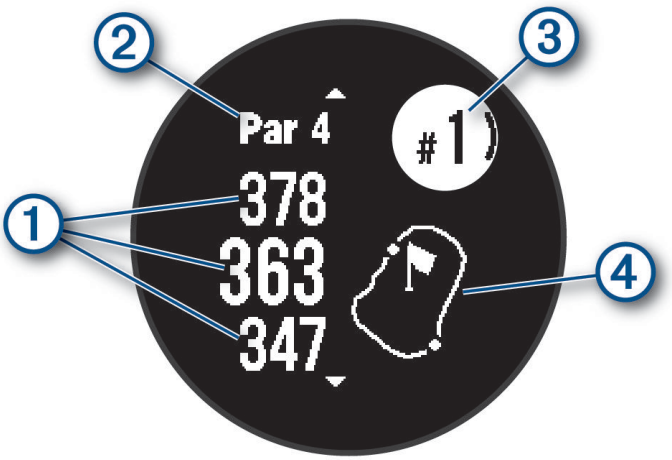
Playing Golf

Before you play a course for the first time, you must download it from the Garmin Connect app (*Garmin Connect*, page 64). Courses downloaded from the Garmin Connect app are updated automatically.

Before you play golf, you should charge the watch (*Charging the Watch*, page 80).

1. From the watch face, press **GPS**.
2. Select **Golf**.
3. Go outside, and wait while the watch locates satellites.
4. Select a course from the list of available courses.
5. Select ✔ to keep score.
6. Select a tee box.

   The hole information screen appears.



1	Distance to the front, middle, and back of the green
2	Par for the hole
3	Current hole number
4	Map of the green

NOTE: Because pin locations change, the watch calculates the distance to the front, middle, and back of the green, but not the actual pin location.

7. Select an option:
   - Press **UP** or **DOWN** to view the location and distance to a layup or to the front and back of a hazard.
   - Press **GPS** to open the golf menu (*Golf Menu*, page 19).

Golf Menu

During a round, you can press GPS to open additional features in the golf menu.

End Round: Ends the current round.

Pause Round: Pauses the current round. You can resume the round at any time by starting a Golf activity.

Change Hole: Allows you to manually change the hole.

Move Flag: Allows you to move the pin location to get a more precise distance measurement (*Moving the Flag*, page 20).

Measure Shot: Shows the distance of your previous shot recorded with the Garmin AutoShot™ feature (*Viewing Measured Shots*, page 20). You can also manually record a shot (*Manually Measuring a Shot*, page 20).

Scorecard: Opens the scorecard for the round (*Keeping Score*, page 21).

Odometer: Shows the recorded time, distance, and steps traveled. The odometer automatically starts and stops when you start or end a round. You can reset the odometer during a round.

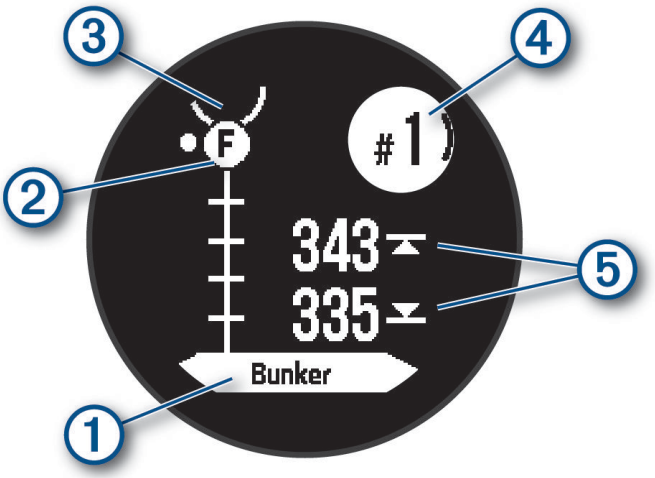
Club Stats: Shows your statistics with each golf club, such as distance and accuracy information. Appears when you pair Approach® CT10 sensors.

Settings: Allows you to customize the golf activity settings (*Activities and App Settings*, page 26).

Viewing Hazards

You can view distances to hazards along the fairway for par 4 and 5 holes. Hazards that affect shot selection are displayed individually or in groups to help you determine the distance to layup or carry.

1 From the hole information screen, press **UP** or **DOWN** to view hazard information.



- The hazard type ① is listed at the bottom of the screen.
- Hazards ② are indicated by a letter signifying the order of the hazards on the hole, and are shown below the green in approximate locations relative to the fairway.
- The green is represented as a half circle ③ at the top of the screen.
- The current hole number ④ is listed at the top right of the screen.
- The distances to the front and back ⑤ of the nearest hazard appear on the screen.

2 Press **UP** or **DOWN** to view other hazards for the current hole.

Moving the Flag

You can take a closer look at the green and move the pin location.

1. From the hole information screen, press **GPS**.
2. Select **Move Flag**.
3. Press **UP** or **DOWN** to move the pin location.
4. Press **GPS**.

   The distances on the hole information screen are updated to show the new pin location. The pin location is saved for only the current round.

Changing Holes

You can change holes manually from the hole view screen.

1. While playing golf, press **GPS**.
2. Select **Change Hole**.
3. Select a hole.

Viewing Measured Shots

Before the device can automatically detect and measure shots, you must enable scoring.

Your device features automatic shot detection and recording. Each time you take a shot along the fairway, the device records your shot distance so you can view it later.

TIP: Automatic shot detection works best when you wear the device on your leading wrist and make good contact with the ball. Putts are not detected.

1. While playing golf, press **GPS**.
2. Select **Measure Shot**.

   Your last shot distance appears.

   NOTE: The distance automatically resets when you hit the ball again, putt on the green, or move to the next hole.
3. Press **DOWN**.
4. Select **Previous Shots** to view all recorded shot distances.

Manually Measuring a Shot

You can manually add a shot if the watch doesn't detect it. You must add the shot from the location of the missed shot.

1. Take a shot and watch where your ball lands.
2. From the hole information screen, press **GPS**.
3. Select **Measure Shot**.
4. Press **DOWN**.
5. Select **Add Shot** > ✔.
6. If necessary, enter the club you used for the shot.
7. Walk or drive to your ball.

The next time you take a shot, the watch automatically records your last shot distance. If necessary, you can manually add another shot.

Keeping Score

1. From the hole information screen, press **GPS**.
2. Select **Scorecard**.
   The scorecard appears when you are on the green.
3. Press **UP** or **DOWN** to scroll through the holes.
4. Press **GPS** to select a hole.
5. Press **UP** or **DOWN** to set the score.
   Your total score is updated.

Enabling Statistics Tracking

The Stat Tracking feature enables detailed statistics tracking while playing golf.

1. From the hole information screen, hold **MENU**.
2. Select the activity settings.
3. Select **Stat Tracking**.

Recording Statistics

Before you can record statistics, you must enable statistics tracking (*Enabling Statistics Tracking*, page 21).

1. From the scorecard, select a hole.
2. Enter the total number of strokes taken, including putts, and press **GPS**.
3. Set the number of putts taken, and press **GPS**.
   NOTE: The number of putts taken is used for statistics tracking only and does not increase your score.
4. If necessary, select an option:
   NOTE: If you are on a par 3 hole, fairway information does not appear.
   - If your ball hit the fairway, select **In Fairway**.
   - If your ball missed the fairway, select **Missed Right** or **Missed Left**.
5. If necessary, enter the number of penalty strokes.

Jumpmaster

⚠ WARNING

The jumpmaster feature is for use by experienced skydivers only. The jumpmaster feature should not be used as a primary skydiving altimeter. Failure to input the appropriate jump related information can lead to serious personal injury or death.

NOTE: This feature is only available onInstinct 2 Solar - Tactical Edition models.

The jumpmaster feature follows military guidelines for calculating the high altitude release point (HARP). The watch detects automatically when you have jumped to begin navigating toward the desired impact point (DIP) using the barometer and electronic compass.

Jump Types

The jumpmaster feature allows you to set the jump type to one of three types: HAHO, HALO, or Static. The jump type selected determines what additional setup information is required (*Entering Jump Information*, page 22). For all jump types, drop altitudes and opening altitudes are measured in feet above ground level (AGL).

HAHO: High Altitude High Opening. The jumpmaster jumps from a very high altitude and opens the parachute at a high altitude. You must set a DIP and a drop altitude of at least 1,000 feet. The drop altitude is assumed to be the same as the opening altitude. Common values for a drop altitude range from 12,000 to 24,000 feet AGL.

HALO: High Altitude Low Opening. The jumpmaster jumps from a very high altitude and opens the parachute at a low altitude. The required information is the same as the HAHO jump type, plus an opening altitude. The opening altitude must not be greater than the drop altitude. Common values for an opening altitude range from 2,000 to 6,000 feet AGL.

Static: The wind speed and direction are assumed to be constant for the duration of the jump. The drop altitude must be at least 1,000 feet.

Entering Jump Information

1. Press **GPS**.
2. Select **Jumpmaster**.
3. Select a jump type (*Jump Types*, page 22).
4. Complete one or more actions to enter your jump information:
   - Select **DIP** to set a waypoint for the desired landing location.
   - Select **Drop Alt.** to set the drop altitude AGL (in feet) when the jumpmaster exits the aircraft.
   - Select **Open Alt** to set the open altitude AGL (in feet) when the jumpmaster opens the parachute.
   - Select **Forward Throw** to set the horizontal distance traveled (in meters) due to aircraft speed.
   - Select **Crs. to HARP** to set the direction traveled (in degrees) due to aircraft speed.
   - Select **Wind** to set the wind speed (in knots) and direction (in degrees).
   - Select **Constant** to fine-tune some information for the planned jump. Depending on the jump type, you can select **Percent Max.**, **Safety Factor**, **K-Open**, **K-Freefall**, or **K-Static** and enter additional information (*Constant Settings*, page 23).
   - Select **Auto to DIP** to enable navigation to the DIP automatically after you jump.
   - Select **GO TO HARP** to start navigation to the HARP.

Entering Wind Information for HAHO and HALO Jumps

1. Press **GPS**.
2. Select **Jumpmaster**.
3. Select a jump type (*Jump Types*, page 22).
4. Select **Wind** > **Add**.
5. Select an altitude.
6. Enter a wind speed in knots and select **Done**.
7. Enter a wind direction in degrees and select **Done**.

   The wind value is added to the list. Only wind values included in the list are used in calculations.
8. Repeat steps 5–7 for each available altitude.

Resetting Wind Information

1. Press **GPS**.
2. Select **Jumpmaster**.
3. Select **HAHO** or **HALO**.
4. Select **Wind** > **Reset**.

All wind values are removed from the list.

Entering Wind Information for a Static Jump

1. Press **GPS**.
2. Select **Jumpmaster** > **Static** > **Wind**.
3. Enter a wind speed in knots and select **Done**.
4. Enter a wind direction in degrees and select **Done**.

Constant Settings

Select Jumpmaster, select a jump type, and select Constant.

Percent Max.: Sets the jump range for all jump types. A setting less than 100% decreases the drift distance to the DIP, and a setting greater than 100% increases the drift distance. More experienced jumpmasters may want to use smaller numbers, and less experienced skydivers may want to use larger numbers.

Safety Factor: Sets the margin of error for a jump (HAHO only). Safety factors are usually integer values of two or greater, and are determined by the jumpmaster based on specifications for the jump.

K-Freefall: Sets the wind drag value for a parachute during freefall, based on the parachute canopy rating (HALO only). Each parachute should be labeled with a K value.

K-Open: Sets the wind drag value for an open parachute, based on the parachute canopy rating (HAHO and HALO). Each parachute should be labeled with a K value.

K-Static: Sets the wind drag value for a parachute during a static jump, based on the parachute canopy rating (Static only). Each parachute should be labeled with a K value.

Surfing

NOTE: This feature is only available on Instinct 2 - Surf Edition models.

You can use the surfing activity to record your surfing sessions. After your session, you can view the number of waves, longest wave, and maximum speed.

1. From the watch face, press **GPS**.
2. Select **Surf**.
3. Wait on the beach until your watch acquires GPS signals.
4. Press **GPS** to start the activity timer.
5. After you complete your activity, press **GPS** to stop the activity timer.
6. Select **Save** to review the summary of your surfing session.

Viewing Tide Information

⚠ WARNING

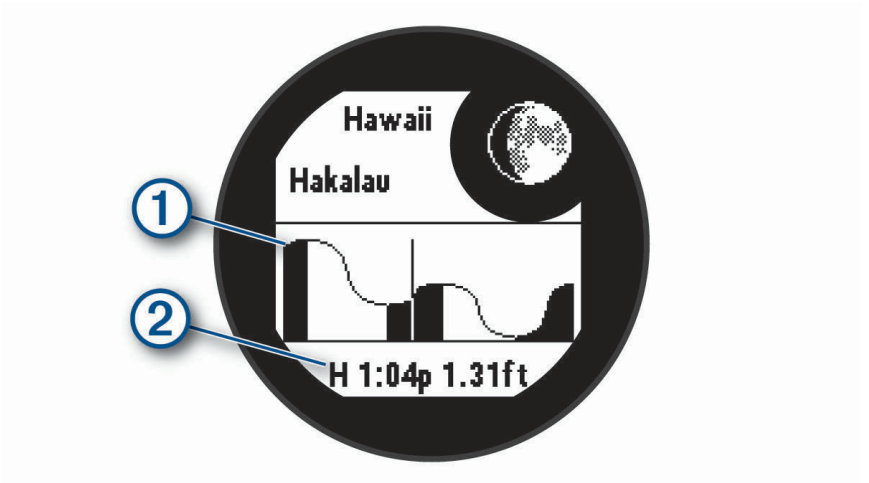
Tide information is for information purposes only. It is your responsibility to heed all posted water-related guidance, to remain aware of your surroundings, and to use safe judgment in, on, and around the water at all times. Failure to heed this warning could result in serious personal injury or death.

NOTE: This feature is only available on Instinct 2 - Surf Edition models.

When you pair your watch with a compatible phone, you can view information about a tide station, including the tide height and when the next high and low tides will occur.

1. From the watch face, press **GPS**.
2. Select **Tides**.
3. Select an option:
   - To use your current location when you are near a tide station, select **Current Location**.
   - To select a recently used tide station, select **Recent**.
   - To select a saved location, select **Saved**.
   - To enter coordinates for a location, select **Coordinates**.

   A 24-hour tide chart appears for the current date with the current tide height ① and information about the next tide ②.



4. Press **DOWN** to see tide information for upcoming days.

Customizing Activities and Apps

You can customize the activities and apps list, data screens, data fields, and other settings.

Adding or Removing a Favorite Activity

The list of your favorite activities appears when you press **GPS** from the watch face, and it provides quick access to the activities you use most frequently. The first time you press **GPS** to start an activity, the watch prompts you to select your favorite activities. You can add or remove favorite activities at any time.

1. Hold **MENU**.
2. Select **Activities & Apps**.

   Your favorite activities appear at the top of the list.
3. Select an option:
   - To add a favorite activity, select the activity, and select **Set as Favorite**.
   - To remove a favorite activity, select the activity, and select **Remove from Favorites**.

Changing the Order of an Activity in the Apps List

1. Hold **MENU**.
2. Select **Activities & Apps**.
3. Select an activity.
4. Select **Reorder**.
5. Press **UP** or **DOWN** to adjust the position of the activity in the apps list.

Customizing the Data Screens

You can show, hide, and change the layout and content of data screens for each activity.

1. Hold **MENU**.
2. Select **Activities & Apps**.
3. Select the activity to customize.
4. Select the activity settings.
5. Select **Data Screens**.
6. Select a data screen to customize.
7. Select an option:
   - Select **Layout** to adjust the number of data fields on the data screen.
   - Select a field to change the data that appears in the field.
   - Select **Reorder** to change the location of the data screen in the loop.
   - Select **Remove** to remove the data screen from the loop.
8. If necessary, select **Add New** to add a data screen to the loop.
   You can add a custom data screen, or select one of the predefined data screens.

Adding a Map to an Activity

You can add the map to the data screens loop for an activity.

1. Hold **MENU**.
2. Select **Activities & Apps**.
3. Select the activity to customize.
4. Select the activity settings.
5. Select **Data Screens** > **Add New** > **Map**.

Creating a Custom Activity

1. From the watch face, press **GPS**.
2. Select **Add**.
3. Select an option:
   - Select **Copy Activity** to create your custom activity starting from one of your saved activities.
   - Select **Other** to create a new custom activity.
4. If necessary, select an activity type.
5. Select a name or enter a custom name.
   Duplicate activity names include a number, for example: Bike(2).
6. Select an option:
   - Select an option to customize specific activity settings. For example, you can customize the data screens or auto features.
   - Select **Done** to save and use the custom activity.
7. Select ✔ to add the activity to your list of favorites.

Activities and App Settings

These settings allow you to customize each preloaded activity app based on your needs. For example, you can customize data pages and enable alerts and training features. Not all settings are available for all activity types.

Hold **MENU**, select Activities & Apps, select an activity, and select the activity settings.

3D Distance: Calculates your distance traveled using your elevation change and your horizontal movement over ground.

3D Speed: Calculates your speed using your elevation change and your horizontal movement over ground.

Add Activity: Allows you to customize a multisport activity.

Alerts: Sets the training or navigation alerts for the activity.

Auto Climb: Enables the watch to detect elevation changes automatically using the built-in altimeter (*Enabling Auto Climb*, page 29).

Auto Lap: Sets the options for the Auto Lap feature to automatically mark laps. The Auto Distance option marks laps at a specific distance. The Auto Position option marks laps at a location where you previously pressed SET. When you complete a lap, a customizable lap alert message appears. This feature is helpful for comparing your performance over different parts of an activity.

Auto Pause: Sets the options for the Auto Pause® feature to stop recording data when you stop moving or when you drop below a specified speed. This feature is helpful if your activity includes stop lights or other places where you must stop.

Auto Rest: Enables the watch to automatically detect when you are resting during a pool swim and create a rest interval (*Auto Rest and Manual Rest*, page 11).

Auto Run: Enables the watch to detect ski or windsurf runs automatically using the built-in accelerometer. For the windsurf activity, you can set speed and distance thresholds for automatically starting a run.

Auto Scroll: Sets the watch to scroll through all of the activity data screens automatically while the activity timer is running.

Background Color: Sets the background color of each activity to black or white.

Big Numbers: Changes the size of the numbers on the golf hole information screen.

Broadcast Heart Rate: Enables automatic heart rate data broadcasting when you start the activity (*Broadcasting Heart Rate Data*, page 54).

Countdown Start: Enables a countdown timer for pool swimming intervals.

Data Screens: Enables you to customize data screens and add new data screens for the activity (*Customizing the Data Screens*, page 25).

Golf Distance: Sets the unit of measure used while playing golf.

GPS: Sets the mode for the GPS antenna. Using the GPS + GLONASS or GPS + GALILEO options provides increased performance in challenging environments and faster position acquisition. Using the GPS and another satellite together can reduce battery life more than using the GPS option only. Using the UltraTrac option records track points and sensor data less frequently (*Changing the GPS Setting*, page 30).

Grading System: Sets the grading system for rating the route difficulty for a rock climbing activity.

Lane Number: Sets your lane number for track running.

Lap Key: Enables or disables the SET button for recording a lap, set, or rest during the activity.

Lock Device: Locks the buttons during a multisport activity to prevent inadvertent button presses.

Metronome: Plays tones or vibrates at a steady rhythm to help you improve your performance by training at a faster, slower, or more consistent cadence. You can set the beats per minute (bpm) of the cadence you want to maintain, beat frequency, and sound settings.

Penalties: Enables penalty stroke tracking while playing golf (*Recording Statistics*, page 21).

Pool Size: Sets the pool length for pool swimming.

Power Averaging: Controls whether the watch includes zero values for power data that occur when you are not pedaling.

Power Mode: Sets the default power mode for the activity.

Power Save Timeout: Sets the power-save timeout length for how long your watch stays in training mode, for example, when you are waiting for a race to start. The Normal option sets the watch to enter low-power watch mode after 5 minutes of inactivity. The Extended option sets the watch to enter low-power watch mode after 25 minutes of inactivity. The extended mode can result in shorter battery life between charges.

Record Activity: Enables activity FIT file recording for golf activities. FIT files record fitness information that is tailored for Garmin Connect.

Recording Interval: Sets the frequency for recording track points during an expedition. By default, GPS track points are recorded once an hour, and they are not recorded after sunset. Recording track points less frequently maximizes battery life.

Record After Sunset: Sets the watch to record track points after sunset during an expedition.

Record VO2 Max.: Enables VO2 max. recording for trail run activities.

Rename: Sets the activity name.

Repeat: Enables the Repeat option for multisport activities. For example, you can use this option for activities that include multiple transitions, such as a swimrun.

Restore Defaults: Allows you to reset the activity settings.

Route Stats: Enables route statistics tracking for indoor climbing activities.

Scoring: Enables or disables scorekeeping automatically when you start a round of golf.

SpeedPro: Enables advanced speed metrics for windsurf activity runs.

Stat Tracking: Enables statistics tracking while playing golf (*Recording Statistics*, page 21).

Stroke Detect.: Enables stroke detection for pool swimming.

Transitions: Enables transitions for multisport activities.

Activity Alerts

You can set alerts for each activity, which can help you to train toward specific goals, to increase your awareness of your environment, and to navigate to your destination. Some alerts are available only for specific activities. There are three types of alerts: event alerts, range alerts, and recurring alerts.

Event alert: An event alert notifies you once. The event is a specific value. For example, you can set the watch to alert you when you burn a specified number of calories.

Range alert: A range alert notifies you each time the watch is above or below a specified range of values. For example, you can set the watch to alert you when your heart rate is below 60 beats per minute (bpm) and over 210 bpm.

Recurring alert: A recurring alert notifies you each time the watch records a specified value or interval. For example, you can set the watch to alert you every 30 minutes.

Alert Name	Alert Type	Description
Cadence	Range	You can set minimum and maximum cadence values.
Calories	Event, recurring	You can set the number of calories.
Custom	Event, recurring	You can select an existing message or create a custom message and select an alert type.
Distance	Recurring	You can set a distance interval.
Elevation	Range	You can set minimum and maximum elevation values.
Heart Rate	Range	You can set minimum and maximum heart rate values or select zone changes. See *About Heart Rate Zones*, page 67 and *Heart Rate Zone Calculations*, page 69.
Pace	Range	You can set minimum and maximum pace values.
Pacing	Recurring	You can set a target swim pace.
Power	Range	You can set the high or low power level.
Proximity	Event	You can set a radius from a saved location.
Run/Walk	Recurring	You can set timed walking breaks at regular intervals.
Speed	Range	You can set minimum and maximum speed values.
Stroke Rate	Range	You can set high or low strokes per minute.
Time	Event, recurring	You can set a time interval.
Track Timer	Recurring	You can set a track time interval in seconds.

Setting an Alert

1 Hold **MENU**.
2 Select **Activities & Apps**.
3 Select an activity.
NOTE: This feature is not available for all activities.
4 Select the activity settings.
5 Select **Alerts**.
6 Select an option:
- Select **Add New** to add a new alert for the activity.
- Select the alert name to edit an existing alert.

7 If necessary, select the type of alert.
8 Select a zone, enter the minimum and maximum values, or enter a custom value for the alert.
9 If necessary, turn on the alert.

For event and recurring alerts, a message appears each time you reach the alert value. For range alerts, a message appears each time you exceed or drop below the specified range (minimum and maximum values).

Enabling Auto Climb

You can use the auto climb feature to detect elevation changes automatically. You can use it during activities such as climbing, hiking, running, or biking.

1 Hold **MENU**.
2 Select **Activities & Apps**.
3 Select an activity.
NOTE: This feature is not available for all activities.
4 Select the activity settings.
5 Select **Auto Climb** > **Status**.
6 Select **Always** or **When Not Navigating**.
7 Select an option:
- Select **Run Screen** to identify which data screen appears while running.
- Select **Climb Screen** to identify which data screen appears while climbing.
- Select **Invert Colors** to reverse the display colors when changing modes.
- Select **Vertical Speed** to set the rate of ascent over time.
- Select **Mode Switch** to set how quickly the device changes modes.

NOTE: The Current Screen option allows you to automatically switch to the last screen you were viewing before the auto climb transition occurred.

Changing the GPS Setting

For more information about GPS, go to garmin.com/aboutGPS.

1. Hold **MENU**.
2. Select **Activities & Apps**.
3. Select an activity.

   NOTE: This feature is not available for all activities.
4. Select the activity settings.
5. Select **GPS**.
6. Select an option:
   - Select **Off** to disable GPS for the activity.
   - Select **Normal (GPS Only)** to enable the GPS satellite system.
   - Select **GPS + GLONASS** (Russian satellite system) for more accurate position information in situations with poor sky visibility.

     NOTE: Using GPS and another satellite system together can reduce battery life more quickly than using GPS only.
   - Select **GPS + GALILEO** (European Union satellite system) for more accurate position information in situations with poor sky visibility.
   - Select **UltraTrac** to record track points and sensor data less frequently.

     NOTE: Enabling the UltraTrac feature increases battery life but decreases the quality of recorded activities. You should use the UltraTrac feature for activities that demand longer battery life and for which frequent sensor data updates are less important.

Training

Workouts

You can create custom workouts that include goals for each workout step and for varied distances, times, and calories. During your activity, you can view workout-specific data screens that contain workout step information, such as the workout step distance or average step pace.

You can create and find more workouts using Garmin Connect, or select a training plan that has built-in workouts and transfer them to your watch.

You can schedule workouts using Garmin Connect. You can plan workouts in advance and store them on your watch.

Following a Workout From Garmin Connect

Before you can download a workout from Garmin Connect, you must have a Garmin Connect account (*Garmin Connect*, page 64).

1. Select an option:
   - Open the Garmin Connect app.
   - Go to connect.garmin.com.
2. Select **Training** > **Workouts**.
3. Find a workout, or create and save a new workout.
4. Select or **Send to Device**.
5. Follow the on-screen instructions.

Starting a Workout

Before you can start a workout, you must download a workout from your Garmin Connect account.

1. From the watch face, press **GPS**.
2. Select an activity.
3. Hold **MENU**.
4. Select **Training** > **Workouts**.
5. Select a workout.

   NOTE: Only workouts that are compatible with the selected activity appear in the list.
6. Select **Do Workout**.
7. Press **GPS** to start the activity timer.

After you begin a workout, the device displays each step of the workout, step notes (optional), the target (optional), and the current workout data.

Following a Daily Suggested Workout

Before the watch can suggest a daily workout, you must have a training status and VO2 max. estimate (*Training Status*, page 44).

1. From the watch face, press **GPS**.
2. Select **Run** or **Bike**.

   The daily suggested workout appears.
3. Select **GPS**, and select an option:
   - To do the workout, select **Do Workout**.
   - To discard the workout, select **Dismiss**.
   - To preview the workout steps, select **Steps**.
   - To update the workout target setting, select **Target Type**.
   - To turn off future workout notifications, select **Disable Prompt**.

The suggested workout updates automatically to changes in training habits, recovery time, and VO2 max.

Creating an Interval Workout

1. From the watch face, press **GPS**.
2. Select an activity.
3. Hold **MENU**.
4. Select **Training** > **Intervals** > **Edit** > **Interval** > **Type**.
5. Select **Distance**, **Time**, or **Open**.

   TIP: You can create an open-ended interval by selecting the Open option.
6. If necessary, select **Duration**, enter a distance or time interval value for the workout, and select ✔.
7. Press **BACK**.
8. Select **Rest** > **Type**.
9. Select **Distance**, **Time**, or **Open**.
10. If necessary, enter a distance or time value for the rest interval, and select ✔.
11. Press **BACK**.
12. Select one or more options:
    - To set the number of repetitions, select **Repeat**.
    - To add an open-ended warm up to your workout, select **Warm Up** > **On**.
    - To add an open-ended cool down to your workout, select **Cool Down** > **On**.

Starting an Interval Workout

1. From the watch face, press **GPS**.
2. Select an activity.
3. Hold **MENU**.
4. Select **Training** > **Intervals** > **Do Workout**.
5. Press **GPS** to start the activity timer.
6. When your interval workout has a warm up, press **SET** to begin the first interval.
7. Follow the on-screen instructions.

After you complete all of the intervals, a message appears.

About the Training Calendar

The training calendar on your watch is an extension of the training calendar or schedule you set up in your Garmin Connect account. After you have added a few workouts to the Garmin Connect calendar, you can send them to your device. All scheduled workouts sent to the device appear in the calendar glance. When you select a day in the calendar, you can view or do the workout. The scheduled workout stays on your watch whether you complete it or skip it. When you send scheduled workouts from Garmin Connect, they overwrite the existing training calendar.

Using Garmin Connect Training Plans

Before you can download and use a training plan, you must have a Garmin Connect account (*Garmin Connect*, page 64), and you must pair the Instinct 2 watch with a compatible phone.

1. From the Garmin Connect app, select ☰ or •••.
2. Select **Training** > **Training Plans**.
3. Select and schedule a training plan.
4. Follow the on-screen instructions.
5. Review the training plan in your calendar.

PacePro Training

Many runners like to wear a pace band during a race to help achieve their race goal. The PacePro feature allows you to create a custom pace band based on distance and pace or distance and time. You can also create a pace band for a known course to optimize your pace effort based on elevation changes.

You can create a PacePro plan using the Garmin Connect app. You can preview the splits and elevation plot before you run the course.

Downloading a PacePro Plan from Garmin Connect

Before you can download a PacePro plan from Garmin Connect, you must have a Garmin Connect account (*Garmin Connect*, page 64).

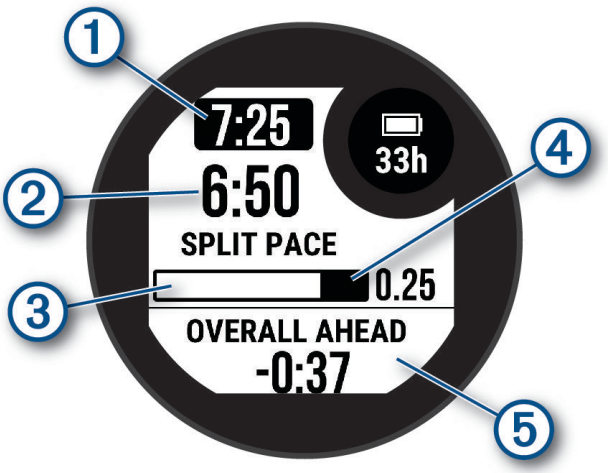
1. Select an option:
   - Open the Garmin Connect app, and select ☰ or •••.
   - Go to connect.garmin.com.
2. Select **Training** > **PacePro Pacing Strategies**.
3. Follow the on-screen instructions to create and save a PacePro plan.
4. Select ↗ or **Send to Device**.

Starting a PacePro Plan

Before you can start a PacePro plan, you must download a plan from your Garmin Connect account.

1. From the watch face, press **GPS**.
2. Select an outdoor running activity.
3. Hold **MENU**.
4. Select **Training** > **PacePro Plans**.
5. Select a plan.
6. Press **GPS**.

   TIP: You can preview the splits, elevation plot, and the map before you accept the PacePro plan.
7. Select **Accept Plan** to start the plan.
8. If necessary, select ✔ to enable course navigation.
9. Press **GPS** to start the activity timer.



1	Target split pace
2	Current split pace
3	Completion progress for the split
4	Distance remaining in the split
5	Overall time ahead of or behind your target time

TIP: You can hold MENU, and select **Stop PacePro** > ✔ to stop the PacePro plan. The activity timer continues running.

Using Virtual Partner®

Your Virtual Partner is a training tool designed to help you meet your goals. You can set a pace for the Virtual Partner and race against it.

NOTE: This feature is not available for all activities.

1. Hold **MENU**.
2. Select **Activities & Apps**.
3. Select an activity.
4. Select the activity settings.
5. Select **Data Screens** > **Add New** > **Virtual Partner**.
6. Enter a pace or speed value.
7. Press **UP** or **DOWN** to change the location of the Virtual Partner screen (optional).
8. Start your activity (*Starting an Activity*, page 8).
9. Press **UP** or **DOWN** to scroll to the Virtual Partner screen and see who is leading.

Setting a Training Target

The training target feature works with the Virtual Partner feature so you can train toward a set distance, distance and time, distance and pace, or distance and speed goal. During your training activity, the watch gives you real-time feedback about how close you are to achieving your training target.

1. From the watch face, press **GPS**.
2. Select an activity.
3. Hold **MENU**.
4. Select **Training** > **Set a Target**.
5. Select an option:
   - Select **Distance Only** to select a preset distance or enter a custom distance.
   - Select **Distance and Time** to select a distance and time target.
   - Select **Distance and Pace** or **Distance and Speed** to select a distance and pace or speed target.

   The training target screen appears and displays your estimated finish time. The estimated finish time is based on your current performance and the time remaining.
6. Press **GPS** to start the activity timer.

   TIP: You can hold MENU, and select **Cancel Target** > ✔ to cancel the training target.

Racing a Previous Activity

You can race a previously recorded or downloaded activity. This feature works with the Virtual Partner feature so you can see how far ahead or behind you are during the activity.

NOTE: This feature is not available for all activities.

1. From the watch face, press **GPS**.
2. Select an activity.
3. Hold **MENU**.
4. Select **Training** > **Race an Activity**.
5. Select an option:
   - Select **From History** to select a previously recorded activity from your device.
   - Select **Downloaded** to select an activity you downloaded from your Garmin Connect account.
6. Select the activity.

   The Virtual Partner screen appears indicating your estimated finish time.
7. Press **GPS** to start the activity timer.
8. After you complete your activity, press **GPS**, and select **Save**.

History

History includes time, distance, calories, average pace or speed, lap data, and optional sensor information.

NOTE: When the device memory is full, your oldest data is overwritten.

Using History

History contains previous activities you have saved on your watch.

1. From the watch face, hold **MENU**.
2. Select **History** > **Activities**.
3. Select an activity.
4. Press **GPS**.
5. Select an option:
   - To view additional information about the activity, select **All Stats**.
   - To view the impact of the activity on your aerobic and anaerobic fitness, select **Training Effect** (*About Training Effect*, page 47).
   - To view your time in each heart rate zone, select **Heart Rate**.
   - To select a lap and view additional information about each lap, select **Laps**.
   - To select a ski or snowboard run and view additional information about each run, select **Runs**.
   - To select an exercise set and view additional information about each set, select **Sets**.
   - To view the activity on a map, select **Map**.
   - To view an elevation plot for the activity, select **Elevation Plot**.
   - To delete the selected activity, select **Delete**.

Multisport History

Your device stores the overall multisport summary of the activity, including overall distance, time, calories, and optional accessory data. Your device also separates the activity data for each sport segment and transition so you can compare similar training activities and track how quickly you move through the transitions. Transition history includes distance, time, average speed, and calories.

Personal Records

When you complete an activity, the device displays any new personal records you achieved during that activity. Personal records include your fastest time over several typical race distances and longest run or ride.

NOTE: For cycling, personal records also include most ascent and best power (power meter required).

Viewing Your Personal Records

1. From the watch face, hold **MENU**.
2. Select **History** > **Records**.
3. Select a sport.
4. Select a record.
5. Select **View Record**.

Restoring a Personal Record

You can set each personal record back to the one previously recorded.

1. From the watch face, hold **MENU**.
2. Select **History** > **Records**.
3. Select a sport.
4. Select a record to restore.
5. Select **Previous** > ✓.

   NOTE: This does not delete any saved activities.

Clearing Personal Records

1. From the watch face, hold **MENU**.
2. Select **History** > **Records**.
3. Select a sport.
4. Select an option:
   - To delete one record, select a record, and select **Clear Record** > ✓.
   - To delete all records for the sport, select **Clear All Records** > ✓.

   NOTE: This does not delete any saved activities.

Viewing Data Totals

You can view the accumulated distance and time data saved to your watch.

1. From the watch face, hold **MENU**.
2. Select **History** > **Totals**.
3. Select an activity.
4. Select an option to view weekly or monthly totals.

Using the Odometer

The odometer automatically records the total distance traveled, elevation gained, and time in activities.

1. From the watch face, hold **MENU**.
2. Select **History** > **Totals** > **Odometer**.
3. Press **UP** or **DOWN** to view odometer totals.

Deleting History

1. From the watch face, hold **MENU**.
2. Select **History** > **Options**.
3. Select an option:
   - Select **Delete All Activities** to delete all activities from the history.
   - Select **Reset Totals** to reset all distance and time totals.

     NOTE: This does not delete any saved activities.

Appearance

You can customize the appearance of the watch face and the quick access features in the glance loop and controls menu.

Watch Face Settings

You can customize the appearance of the watch face by selecting the layout, colors, and additional data. You can also download custom watch faces from the Connect IQ store.

Customizing the Watch Face

You can customize the watch face information and appearance.

1. From the watch face, hold **MENU**.
2. Select **Watch Face**.
3. Press **UP** or **DOWN** to preview the watch face options.
4. Press **GPS**.
5. Select an option:
   - To activate the watch face, select **Apply**.
   - To customize the data that appears on the watch face, select **Customize**, press **UP** or **DOWN** to preview the options, and press **GPS**.

Glances

Your watch comes preloaded with glances that provide quick information (*Viewing the Glance Loop*, page 40). Some glances require a Bluetooth® connection to a compatible phone.

Some glances are not visible by default. You can add them to the glance loop manually (*Customizing the Glance Loop*, page 40).

Name	Description
ABC	Displays combined altimeter, barometer, and compass information.
Alternate time zones	Displays the current time of day in additional time zones (*Adding Alternate Time Zones*, page 5).
Altitude acclimation	At altitudes above 800 m (2625 ft.), displays graphs showing altitude-corrected values for your average pulse oximeter reading, respiration rate, and resting heart rate for the last seven days.
Altimeter	Displays the approximate elevation based on pressure changes.
Barometer	Displays the environmental pressure data based on elevation.
Body Battery™	With all day wear, displays your current Body Battery level and a graph of your level for the last several hours (*Body Battery*, page 40).
Break planning	Allows you to start a drive and displays break planning information for your current drive on your Instinct 2 - dēzl Edition watch. **NOTE:** This feature is not available for all product models. .
Calendar	Displays upcoming meetings from your phone calendar.
Calories	Displays your calorie information for the current day.
Compass	Displays an electronic compass.
Dog tracking	Displays your dog's location information when you have a compatible dog tracking device paired with your Instinct 2 watch.
Floors climbed	Tracks your floors climbed and progress toward your goal.
Garmin coach	Displays scheduled workouts when you select a Garmin coach adaptive training plan in your Garmin Connect account. The plan adjusts to your current level of fitness, coaching and schedule preferences, and race date.
Health Snapshot™	Starts a Health Snapshot activity on your watch that records several key health metrics while you hold still for two minutes. It provides a glimpse of your overall cardiovascular status. The watch records metrics such as your average heart rate, stress level, and respiration rate. You can view summaries of your saved Health Snapshot activities.
Heart rate	Displays your current heart rate in beats per minute (bpm) and a graph of your average resting heart rate (RHR).
Intensity minutes	Tracks your time spent participating in moderate to vigorous activities, your weekly intensity minutes goal, and progress toward your goal.
inReach® controls	Allows you to send messages on your paired inReach device (*Using the inReach Remote*, page 60).
Last sport	Displays a brief summary of your last recorded activity.
Last ride	Displays a brief summary of your last recorded activity and history of the specified sport.

Name	Description
Last run Last swim	
Moon phase	Displays the moonrise and moonset times, along with the moon phase, based on your GPS position.
Music controls	Provides music player controls for your phone.
My Love Rewards	Displays your Love's® rewards information on your Instinct 2 - dēzl Edition watch. **NOTE:** This feature is not available for all product models.
Notifications	Alerts you to incoming calls, texts, social network updates, and more, based on your phone notification settings (*Enabling Bluetooth Notifications*, page 63).
Performance	Displays performance measurements that help you track and understand your training activities and race performances (*Performance Measurements*, page 41).
Pilot Flying J™ MyRewards	Displays your rewards card information on your Instinct 2 - dēzl Edition watch. **NOTE:** This feature is not available for all product models. .
Pulse oximeter	Allows you to take a manual pulse oximeter reading (*Getting Pulse Oximeter Readings*, page 55). If you are too active for the watch to determine your pulse oximeter reading, the measurements are not recorded.
Respiration	Your current respiration rate in breaths per minute and seven-day average. You can do a breathing activity to help you relax.
Sleep	Displays total sleep time, a sleep score, and sleep stage information for the previous night.
Solar intensity	Displays a graph of the intensity of solar input for the last 6 hours, and the average for the previous week. **NOTE:** This feature is not available for all product models.
Steps	Tracks your daily step count, step goal, and data for previous days.
Stress	Displays your current stress level and a graph of your stress level. You can do a breathing activity to help you relax. If you are too active for the watch to determine your stress level, stress measurements are not recorded.
Sunrise and sunset	Displays sunrise, sunset, and civil twilight times.
Surfline	Uses your current location to display current wave conditions, such as tide and wave height and surf rating, for the nearest surf spots. **NOTE:** This feature is not available for all product models.
Temperature	Displays temperature data from the internal temperature sensor.
Training status	Displays your current training status and training load, which shows you how your training affects your fitness level and performance (*Training Status*, page 44).
VIRB® controls	Provides camera controls when you have a VIRB device paired with your Instinct 2 watch (*VIRB Remote*, page 60).
Weather	Displays the current temperature and weather forecast.
Xero® device	Displays laser location information when you have a compatible Xero device paired with your Instinct 2 watch (*Xero Laser Location Settings*, page 62).

Viewing the Glance Loop

Glances provide quick access to health data, activity information, built-in sensors, and more. When you pair your watch, you can view data from your phone, such as notifications, weather, and calendar events.

1 Press **UP** or **DOWN**.

The watch scrolls through the glance loop and displays summary data for each glance.

2 Press **GPS** to view more information.

3 Select an option:

- Press **DOWN** to view details about a glance.
- Press **GPS** to view additional options and functions for a glance.

Customizing the Glance Loop

You can change the order of the glances in the loop, remove glances, and add new glances.

1 Hold **MENU**.

2 Select **Appearance** > **Glances**.

3 Select an option:

- Select a glance, and press **UP** or **DOWN** to change the location of the glance in the loop.
- Select a glance, and select to remove the glance from the loop.
- Select **Add**, and select a glance to add it to the loop.

Body Battery

Your watch analyzes your heart rate variability, stress level, sleep quality, and activity data to determine your overall Body Battery level. Like a gas gauge on a car, it indicates your amount of available reserve energy. The Body Battery level range is from 0 to 100, where 0 to 25 is low reserve energy, 26 to 50 is medium reserve energy, 51 to 75 is high reserve energy, and 76 to 100 is very high reserve energy.

You can sync your watch with your Garmin Connect account to view your most up-to-date Body Battery level, long-term trends, and additional details (*Tips for Improved Body Battery Data*, page 40).

Tips for Improved Body Battery Data

- For more accurate results, wear the watch while sleeping.
- Good sleep charges your Body Battery.
- Strenuous activity and high stress can cause your Body Battery to drain more quickly.
- Food intake, as well as stimulants like caffeine, has no impact on your Body Battery.

Performance Measurements

These performance measurements are estimates that can help you track and understand your training activities and race performances. The measurements require a few activities using wrist-based heart rate or a compatible chest heart rate monitor. Cycling performance measurements require a heart rate monitor and a power meter.

These estimates are provided and supported by Firstbeat Analytics™. For more information, go to garmin.com/performance-data/running.

NOTE: The estimates may seem inaccurate at first. The watch requires you to complete a few activities to learn about your performance.

VO2 max.: VO2 max. is the maximum volume of oxygen (in milliliters) you can consume per minute per kilogram of body weight at your maximum performance (*About VO2 Max. Estimates*, page 41).

Predicted race times: Your watch uses the VO2 max. estimate and your training history to provide a target race time based on your current state of fitness (*Viewing Your Predicted Race Times*, page 42).

Performance condition: Your performance condition is a real-time assessment after 6 to 20 minutes of activity. It can be added as a data field so you can view your performance condition during the rest of your activity. It compares your real-time condition to your average fitness level (*Performance Condition*, page 42).

Functional threshold power (FTP): The watch uses your user profile information from the initial setup to estimate your FTP. For a more accurate rating, you can conduct a guided test (*Getting Your FTP Estimate*, page 43).

Lactate threshold: Lactate threshold requires a chest heart rate monitor. Lactate threshold is the point where your muscles start to rapidly fatigue. Your watch measures your lactate threshold level using heart rate data and pace (*Lactate Threshold*, page 43).

About VO2 Max. Estimates

VO2 max. is the maximum volume of oxygen (in milliliters) you can consume per minute per kilogram of body weight at your maximum performance. In simple terms, VO2 max. is an indication of cardiovascular strength and should increase as your level of fitness improves. The Instinct 2 watch requires wrist-based heart rate or a compatible chest heart rate monitor to display your VO2 max. estimate. The watch has separate VO2 max. estimates for running and cycling. You must run either outside with GPS or ride with a compatible power meter at a moderate level of intensity for several minutes to get an accurate VO2 max. estimate.

On the watch, your VO2 max. estimate appears as a number and description. On your Garmin Connect account, you can view additional details about your VO2 max. estimate.

VO2 max. data is provided by Firstbeat Analytics. VO2 max. analysis is provided with permission from The Cooper Institute®. For more information, see the appendix (*VO2 Max. Standard Ratings*, page 102), and go to www.CooperInstitute.org.

Getting Your VO2 Max. Estimate for Running

This feature requires wrist-based heart rate or a compatible chest heart rate monitor. If you are using a chest heart rate monitor, you must put it on and pair it with your watch (*Pairing Your Wireless Sensors*, page 59).

For the most accurate estimate, complete the user profile setup (*Setting Up Your User Profile*, page 67), and set your maximum heart rate (*Setting Your Heart Rate Zones*, page 68). The estimate may seem inaccurate at first. The watch requires a few runs to learn about your running performance. You can disable VO2 max. recording for ultra run and trail run activities if you do not want those run types to affect your VO2 max. estimate (*Activities and App Settings*, page 26).

1. Start a running activity.
2. Run for at least 10 minutes outdoors.
3. After your run, select **Save**.
4. Press **UP** or **DOWN** to scroll through the performance measurements.

Getting Your VO2 Max. Estimate for Cycling

This feature requires a power meter and wrist-based heart rate or a compatible chest heart rate monitor. The power meter must be paired with your watch (*Pairing Your Wireless Sensors*, page 59). If you are using a chest heart rate monitor, you must put it on and pair it with your watch.

For the most accurate estimate, complete the user profile setup (*Setting Up Your User Profile*, page 67) and set your maximum heart rate (*Setting Your Heart Rate Zones*, page 68). The estimate may seem inaccurate at first. The watch requires a few rides to learn about your cycling performance.

1. Start a cycling activity.
2. Ride at a steady, high intensity for at least 20 minutes.
3. After your ride, select **Save**.
4. Press **UP** or **DOWN** to scroll through the performance measurements.

Viewing Your Predicted Race Times

For the most accurate estimate, complete the user profile setup (*Setting Up Your User Profile*, page 67), and set your maximum heart rate (*Setting Your Heart Rate Zones*, page 68).

Your watch uses the VO2 max. estimate (*About VO2 Max. Estimates*, page 41) and your training history to provide a target race time. The watch analyzes several weeks of your training data to refine the race time estimates.

TIP: If you have more than one Garmin device, you can enable the Physio TrueUp™ feature, which allows your watch to sync activities, history, and data from other devices (*Syncing Activities and Performance Measurements*, page 79).

1. From the watch face, press **UP** or **DOWN** to view the performance glance.
2. Press **GPS** to view glance details.
3. Press **UP** or **DOWN** to view a predicted race time.
4. Press **GPS** to view predictions for other distances.

   NOTE: The predictions may seem inaccurate at first. The watch requires a few runs to learn about your running performance.

Performance Condition

As you complete your activity, such as running or cycling, the performance condition feature analyzes your pace, heart rate, and heart rate variability to make a real-time assessment of your ability to perform compared to your average fitness level. It is approximately your real-time percentage deviation from your baseline VO2 max. estimate.

Performance condition values range from -20 to +20. After the first 6 to 20 minutes of your activity, the device displays your performance condition score. For example, a score of +5 means that you are rested, fresh, and capable of a good run or ride. You can add performance condition as a data field to one of your training screens to monitor your ability throughout the activity. Performance condition can also be an indicator of fatigue level, especially at the end of a long training run or ride.

NOTE: The device requires a few runs or rides with a heart rate monitor to get an accurate VO2 max. estimate and learn about your running or riding ability (*About VO2 Max. Estimates*, page 41).

Viewing Your Performance Condition

This feature requires wrist-based heart rate or a compatible chest heart rate monitor.

1. Add **Perform. Cond.** to a data screen (*Customizing the Data Screens*, page 25).
2. Go for a run or ride.

   After 6 to 20 minutes, your performance condition appears.
3. Scroll to the data screen to view your performance condition throughout the run or ride.

Getting Your FTP Estimate

Before you can get your functional threshold power (FTP) estimate, you must pair a chest heart rate monitor and power meter with your watch (*Pairing Your Wireless Sensors*, page 59), and you must get your VO2 max. estimate (*Getting Your VO2 Max. Estimate for Cycling*, page 42).

The watch uses your user profile information from the initial setup and your VO2 max. estimate to estimate your FTP. The watch automatically detects your FTP during rides at a steady, high intensity with heart rate and power.

1. Press **UP** or **DOWN** to view the performance glance.
2. Press **GPS** to view the glance details.
3. Press **UP** or **DOWN** to view your FTP estimate.

   Your FTP estimate appears as a value measured in watts per kilogram, your power output in watts, and a position on the gauge.

   For more information, see the appendix (*FTP Ratings*, page 103).

   NOTE: When a performance notification alerts you to a new FTP, you can select Accept to save the new FTP, or Decline to keep your current FTP.

Conducting an FTP Test

Before you can conduct a test to determine your functional threshold power (FTP), you must pair a chest heart rate monitor and a power meter with your device (*Pairing Your Wireless Sensors*, page 59), and you must get your VO2 max. estimate (*Getting Your VO2 Max. Estimate for Cycling*, page 42).

NOTE: The FTP test is a challenging workout that takes about 30 minutes to complete. Choose a practical and mostly flat route that allows you to ride at a steadily increasing effort, similar to a time trial.

1. From the watch face, select **GPS**.
2. Select a cycling activity.
3. Hold **MENU**.
4. Select **Training** > **FTP Guided Test**.
5. Follow the on-screen instructions.

   After you begin your ride, the device displays each step duration, the target, and current power data. A message appears when the test is complete.
6. After you complete the guided test, complete the cool down, stop the timer, and save the activity.

   Your FTP appears as a value measured in watts per kilogram, your power output in watts, and a position on the color gauge.
7. Select an option:
   - Select **Accept** to save the new FTP.
   - Select **Decline** to keep your current FTP.

Lactate Threshold

Lactate threshold is the exercise intensity at which lactate (lactic acid) starts to accumulate in the bloodstream. In running, it is the estimated level of effort or pace. When a runner exceeds the threshold, fatigue starts to increase at an accelerating rate. For experienced runners, the threshold occurs at approximately 90% of their maximum heart rate and between 10k and half-marathon race pace. For average runners, the lactate threshold often occurs well below 90% of maximum heart rate. Knowing your lactate threshold can help you determine how hard to train or when to push yourself during a race.

If you already know your lactate threshold heart rate value, you can enter it in your user profile settings (*Setting Your Heart Rate Zones*, page 68). You can turn on the Auto Detection feature to automatically record your lactate threshold during an activity.

Performing a Guided Test to Determine Your Lactate Threshold

This feature requires a Garmin chest heart rate monitor. Before you can perform the guided test, you must put on a heart rate monitor and pair it with your device (*Pairing Your Wireless Sensors*, page 59).

The device uses your user profile information from the initial setup and your VO2 max. estimate to estimate your lactate threshold. The device will automatically detect your lactate threshold during runs at a steady, high intensity with heart rate.

TIP: The device requires a few runs with a chest heart rate monitor to get an accurate maximum heart rate value and VO2 max. estimate. If you are having trouble getting a lactate threshold estimate, try manually lowering your maximum heart rate value.

1. From the watch face, select **GPS**.
2. Select an outdoor running activity.

   GPS is required to complete the test.
3. Hold **MENU**.
4. Select **Training** > **Lactate Threshold Guided Test**.
5. Start the timer, and follow the on-screen instructions.

   After you begin your run, the device displays each step duration, the target, and current heart rate data. A message appears when the test is complete.
6. After you complete the guided test, stop the timer and save the activity.

   If this is your first lactate threshold estimate, the device prompts you to update your heart rate zones based on your lactate threshold heart rate. For each additional lactate threshold estimate, the device prompts you to accept or decline the estimate.

Training Status

These measurements are estimates that can help you track and understand your training activities. The measurements require a few activities using wrist-based heart rate or a compatible chest heart rate monitor. Cycling performance measurements require a heart rate monitor and a power meter.

These estimates are provided and supported by Firstbeat Analytics. For more information, go to garmin.com/performance-data/running.

NOTE: The estimates may seem inaccurate at first. The watch requires you to complete a few activities to learn about your performance.

Training status: Training status shows you how your training affects your fitness and performance. Your training status is based on changes to your training load and VO2 max. over an extended time period.

VO2 max.: VO2 max. is the maximum volume of oxygen (in milliliters) you can consume per minute per kilogram of body weight at your maximum performance (*About VO2 Max. Estimates*, page 41). Your watch displays heat and altitude corrected VO2 max. values when you are acclimating to high heat environments or high altitude (*Heat and Altitude Performance Acclimation*, page 45).

Training load: Training load is the sum of your excess post-exercise oxygen consumption (EPOC) over the last 7 days. EPOC is an estimate of how much energy it takes for your body to recover after exercise (*Training Load*, page 45).

Training load focus: Your watch analyzes and distributes your training load into different categories based on the intensity and structure of each activity recorded. Training load focus includes the total load accumulated per category, and the focus of the training. Your watch displays your load distribution over the last 4 weeks (*Training Load Focus*, page 46).

Recovery time: The recovery time displays how much time remains before you are fully recovered and ready for the next hard workout (*Recovery Time*, page 47).

Training Status Levels

Training status shows you how your training affects your fitness level and performance. Your training status is based on changes to your training load and VO2 max. over an extended time period. You can use your training status to help plan future training and continue improving your fitness level.

Peaking: Peaking means that you are in ideal race condition. Your recently reduced training load is allowing your body to recover and fully compensate for earlier training. You should plan ahead, since this peak state can only be maintained for a short time.

Productive: Your current training load is moving your fitness level and performance in the right direction. You should plan recovery periods into your training to maintain your fitness level.

Maintaining: Your current training load is enough to maintain your fitness level. To see improvement, try adding more variety to your workouts or increasing your training volume.

Recovery: Your lighter training load is allowing your body to recover, which is essential during extended periods of hard training. You can return to a higher training load when you feel ready.

Unproductive: Your training load is at a good level, but your fitness is decreasing. Your body may be struggling to recover, so you should pay attention to your overall health including stress, nutrition, and rest.

Detraining: Detraining occurs when you are training much less than usual for a week or more, and it is affecting your fitness level. You can try increasing your training load to see improvement.

Overreaching: Your training load is very high and counterproductive. Your body needs a rest. You should give yourself time to recover by adding lighter training to your schedule.

No Status: The device needs one or two weeks of training history, including activities with VO2 max. results from running or cycling, to determine your training status.

Tips for Getting Your Training Status

The training status feature depends on updated assessments of your fitness level, including at least two VO2 max. measurements per week. Your VO2 max. estimate is updated after outdoor runs or rides with power during which your heart rate reached at least 70% of your maximum heart rate for several minutes. Indoor run activities do not generate a VO2 max. estimate in order to preserve the accuracy of your fitness level trend. You can disable VO2 max. recording for ultra run and trail run activities if you do not want those run types to affect your VO2 max. estimate (*Activities and App Settings*, page 26).

To get the most out of the training status feature, you can try these tips.

- At least two times per week, run or ride outdoors with a power meter, and reach a heart rate higher than 70% of your maximum heart rate for at least 10 minutes.

  After using the device for one week, your training status should be available.
- Record all of your fitness activities on this device, or enable the Physio TrueUp feature, allowing your device to learn about your performance (*Syncing Activities and Performance Measurements*, page 79).

Heat and Altitude Performance Acclimation

Environmental factors such as high temperature and altitude impact your training and performance. For example, high altitude training can have a positive impact on your fitness, but you may notice a temporary VO2 max. decline while exposed to high altitudes. Your Instinct 2 watch provides acclimation notifications and corrections to your VO2 max. estimate and training status when the temperature is above 22ºC (72ºF) and when the altitude is above 800 m (2625 ft.). You can keep track of your heat and altitude acclimation in the training status glance.

NOTE: The heat acclimation feature is available only for GPS activities and requires weather data from your connected phone.

Training Load

Training load is a measurement of your training volume over the last seven days. It is the sum of your excess post-exercise oxygen consumption (EPOC) measurements for the last seven days. The gauge indicates whether your current load is low, high, or within the optimal range to maintain or improve your fitness level. The optimal range is determined based on your individual fitness level and training history. The range adjusts as your training time and intensity increase or decrease.

Training Load Focus

In order to maximize performance and fitness gains, training should be distributed across three categories: low aerobic, high aerobic, and anaerobic. Training load focus shows you how much of your training is currently in each category and provides training targets. Training load focus requires at least 7 days of training to determine if your training load is low, optimal, or high. After 4 weeks of training history, your training load estimate will have more detailed target information to help you balance your training activities.

Below targets: Your training load is lower than optimal in all intensity categories. Try increasing the duration or frequency of your workouts.

Low aerobic shortage: Try adding more low aerobic activities to provide recovery and balance for your higher intensity activities.

High aerobic shortage: Try adding more high aerobic activities to help improve your lactate threshold and VO2 max. over time.

Anaerobic shortage: Try adding a few more intense, anaerobic activities to improve your speed and anaerobic capacity over time.

Balanced: Your training load is balanced and provides all-around fitness benefits as you continue training.

Low aerobic focus: Your training load is mostly low aerobic activity. This provides a solid foundation and prepares you for adding more intense workouts.

High aerobic focus: Your training load is mostly high aerobic activity. These activities help to improve lactate threshold, VO2 max., and endurance.

Anaerobic focus: Your training load is mostly intense activity. This leads to rapid fitness gains, but should be balanced with low aerobic activities.

Above targets: Your training load is higher than optimal, and you should consider scaling back the duration and frequency of your workouts.

About Training Effect

Training Effect measures the impact of an activity on your aerobic and anaerobic fitness. Training Effect accumulates during the activity. As the activity progresses, the Training Effect value increases. Training Effect is determined by your user profile information and training history, and heart rate, duration, and intensity of your activity. There are seven different Training Effect labels to describe the primary benefit of your activity. Each label is color coded and corresponds to your training load focus (*Training Load Focus*, page 46). Each feedback phrase, for example, "Highly Impacting VO2 Max." has a corresponding description in your Garmin Connect activity details.

Aerobic Training Effect uses your heart rate to measure how the accumulated intensity of an exercise affects your aerobic fitness and indicates if the workout had a maintaining or improving effect on your fitness level. Your excess post-exercise oxygen consumption (EPOC) accumulated during exercise is mapped to a range of values that account for your fitness level and training habits. Steady workouts at moderate effort or workouts involving longer intervals (>180 sec) have a positive impact on your aerobic metabolism and result in an improved aerobic Training Effect.

Anaerobic Training Effect uses heart rate and speed (or power) to determine how a workout affects your ability to perform at very high intensity. You receive a value based on the anaerobic contribution to EPOC and the type of activity. Repeated high-intensity intervals of 10 to 120 seconds have a highly beneficial impact on your anaerobic capability and result in an improved anaerobic Training Effect.

You can add Aerobic TE and Anaerobic TE as data fields to one of your training screens to monitor your numbers throughout the activity.

Training Effect	Aerobic Benefit	Anaerobic Benefit
From 0.0 to 0.9	No benefit.	No benefit.
From 1.0 to 1.9	Minor benefit.	Minor benefit.
From 2.0 to 2.9	Maintains your aerobic fitness.	Maintains your anaerobic fitness.
From 3.0 to 3.9	Impacts your aerobic fitness.	Impacts your anaerobic fitness.
From 4.0 to 4.9	Highly impacts your aerobic fitness.	Highly impacts your anaerobic fitness.
5.0	Overreaching and potentially harmful without enough recovery time.	Overreaching and potentially harmful without enough recovery time.

Training Effect technology is provided and supported by Firstbeat Technologies Ltd. For more information, go to firstbeat.com.

Recovery Time

You can use your Garmin device with wrist-based heart rate or a compatible chest heart rate monitor to display how much time remains before you are fully recovered and ready for the next hard workout.

NOTE: The recovery time recommendation uses your VO2 max. estimate and may seem inaccurate at first. The device requires you to complete a few activities to learn about your performance.

The recovery time appears immediately following an activity. The time counts down until it is optimal for you to attempt another hard workout. The device updates your recovery time throughout the day based on changes in sleep, stress, relaxation, and physical activity.

Recovery Heart Rate

If you are training with wrist-based heart rate or a compatible chest heart rate monitor, you can check your recovery heart rate value after each activity. Recovery heart rate is the difference between your exercising heart rate and your heart rate two minutes after the exercise has stopped. For example, after a typical training run, you stop the timer. Your heart rate is 140 bpm. After two minutes of no activity or cool down, your heart rate is 90 bpm. Your recovery heart rate is 50 bpm (140 minus 90). Some studies have linked recovery heart rate to cardiac health. Higher numbers generally indicate healthier hearts.

TIP: For best results, you should stop moving for two minutes while the device calculates your recovery heart rate value.

Pausing and Resuming Your Training Status

If you are injured or sick, you can pause your training status. You can continue to record fitness activities, but your training status, training load focus, recovery feedback, and workout recommendations are temporarily disabled.

You can resume your training status when you are ready to start training again. For best results, you need at least two VO2 max. measurements each week (*About VO2 Max. Estimates*, page 41).

1. When you want to pause your training status, select an option:
   - From the training status glance, hold **MENU**, and select **Options** > **Pause Training Status**.
   - From your Garmin Connect settings, select **Performance Stats** > **Training Status** > ⋮ > **Pause Training Status**.
2. Sync your watch with your Garmin Connect account.
3. When you want to resume your training status, select an option:
   - From the training status glance, hold **MENU**, and select **Options** > **Resume Training Status**.
   - From your Garmin Connect settings, select **Performance Stats** > **Training Status** > ⋮ > **Resume Training Status**.
4. Sync your watch with your Garmin Connect account.

Controls

The controls menu lets you quickly access watch features and options. You can add, reorder, and remove the options in the controls menu (*Customizing the Controls Menu*, page 50).

From any screen, hold **CTRL**.

Icon	Name	Description
	Alarm Clock	Select to add or edit an alarm (*Setting an Alarm*, page 4).
	Altimeter	Select to open the altimeter screen.
	Alt. Time Zones	Select to view the current time of day in additional time zones (*Adding Alternate Time Zones*, page 5).
	Assistance	Select to send an assistance request (*Requesting Assistance*, page 71).
	Barometer	Select to open the barometer screen.
	Battery Saver	Select to enable or disable the battery saver feature (*Customizing the Battery Saver Feature*, page 77).
	Brightness	Select to adjust the screen brightness (*Changing the Screen Settings*, page 79).
	Broadcast Heart Rate	Select to turn on heart rate broadcasting to a paired device (*Broadcasting Heart Rate Data*, page 54).
	Compass	Select to open the compass screen.
	Do Not Disturb	Select to enable or disable do not disturb mode to dim the screen and disable alerts and notifications. For example, you can use this mode while watching a movie.
	Find My Phone	Select to play an audible alert on your paired phone, if it is within Bluetooth range. The Bluetooth signal strength appears on the Instinct watch screen, and it increases as you move closer to your phone.
	Flashlight	Select to turn on the screen to use your watch as a flashlight.

Icon	Name	Description
	Lock Keys	Select to lock the buttons to prevent inadvertent presses.
	Moon Phase	Select to view moonrise and moonset times, along with the moon phase, based on your GPS position.
	Music Controls	Select to control music playback on your phone.
	Night Vision	Select to reduce backlight intensity for compatibility with night vision goggles and disable the wrist heart rate monitor. **NOTE:** This feature is not available for all product models.
	Phone	Select to enable or disable Bluetooth technology and your connection to your paired phone.
	Power Off	Select to turn off the watch.
	Save Location	Select to save your current location to navigate back to it later.
	Set Time with GPS	Select to sync your watch with the time on your phone or using satellites.
	Stealth Mode	Select to enable or disable stealth mode to turn off wireless communications and prevent the storage and sharing of your GPS position. **NOTE:** This feature is not available for all product models.
	Stopwatch	Select to start the stopwatch (*Using the Stopwatch*, page 5).
	Sunrise & Sunset	Select to view sunrise, sunset, and twilight times.
	Sync	Select to sync your watch with your paired phone.
	Timers	Select to set a countdown timer (*Starting the Countdown Timer*, page 4).
	Wallet	Select to open your Garmin Pay wallet and pay for purchases with your watch (*Garmin Pay*, page 51).

Customizing the Controls Menu

You can add, remove, and change the order of the shortcut menu options in the controls menu (*Controls*, page 49).

1. Hold **MENU**.
2. Select **Appearance** > **Controls**.
3. Select a shortcut to customize.
4. Select an option:
   - Select **Reorder** to change the location of the shortcut in the controls menu.
   - Select **Remove** to remove the shortcut from the controls menu.
5. If necessary, select **Add New** to add an additional shortcut to the controls menu.

Music Playback Controls

NOTE: Music playback controls may look different, depending on the selected music source.

	Select to view more music playback controls.
	Select to browse the audio files and playlists for the selected source.
	Select to adjust the volume.
	Select to play and pause the current audio file.
	Select to skip to the next audio file in the playlist. Hold to fast forward through the current audio file.
	Select to restart the current audio file. Select twice to skip to the previous audio file in the playlist. Hold to rewind through the current audio file.
	Select to change the repeat mode.
	Select to change the shuffle mode.

Garmin Pay

The Garmin Pay feature allows you to use your watch to pay for purchases in participating locations using credit or debit cards from a participating financial institution.

NOTE: This feature is not available for all product models.

Setting Up Your Garmin Pay Wallet

You can add one or more participating credit or debit cards to your Garmin Pay wallet. Go to garmin.com/garminpay/banks to find participating financial institutions.

1. From the Garmin Connect app, select ☰ or •••.
2. Select **Garmin Pay** > **Get Started**.
3. Follow the on-screen instructions.

Paying for a Purchase Using Your Watch

Before you can use your watch to pay for purchases, you must set up at least one payment card.

You can use your watch to pay for purchases in a participating location.

1. Hold **CTRL**.
2. Select .
3. Enter your four-digit passcode.

   NOTE: If you enter your passcode incorrectly three times, your wallet locks, and you must reset your passcode in the Garmin Connect app.

   Your most recently used payment card appears.
4. If you have added multiple cards to your Garmin Pay wallet, select **DOWN** to change to another card (optional).
5. Within 60 seconds, hold your watch near the payment reader, with the watch facing the reader.

   The watch vibrates and displays a check mark when it is finished communicating with the reader.
6. If necessary, follow the instructions on the card reader to complete the transaction.

TIP: After you successfully enter your passcode, you can make payments without a passcode for 24 hours while you continue to wear your watch. If you remove the watch from your wrist or disable heart rate monitoring, you must enter the passcode again before making a payment.

Adding a Card to Your Garmin Pay Wallet

You can add up to 10 credit or debit cards to your Garmin Pay wallet.

1. From the Garmin Connect app, select or •••.
2. Select **Garmin Pay** > > **Add Card**.
3. Follow the on-screen instructions.

After the card is added, you can select the card on your watch when you make a payment.

Managing Your Garmin Pay Cards

You can temporarily suspend or delete a card.

NOTE: In some countries, participating financial institutions may restrict the Garmin Pay features.

1. From the Garmin Connect app, select or •••.
2. Select **Garmin Pay**.
3. Select a card.
4. Select an option:
   - To temporarily suspend or unsuspend the card, select **Suspend Card**.

     The card must be active to make purchases using your Instinct 2 watch.
   - To delete the card, select .

Changing Your Garmin Pay Passcode

You must know your current passcode to change it. If you forget your passcode, you must reset the Garmin Pay feature for your Instinct 2 watch, create a new passcode, and reenter your card information.

1. From the Instinct 2 device page in the Garmin Connect app, select **Garmin Pay** > **Change Passcode**.
2. Follow the on-screen instructions.

The next time you pay using your Instinct 2 watch, you must enter the new passcode.

Sensors and Accessories

The Instinct 2 watch has several internal sensors, and you can pair additional wireless sensors for your activities.

Wrist Heart Rate

Your watch has a wrist-based heart rate monitor, and you can view your heart rate data on the heart rate glance (*Viewing the Glance Loop*, page 40).

The watch is also compatible with chest heart rate monitors. If both wrist-based heart rate and chest heart rate data are available when you start an activity, your watch uses the chest heart rate data.

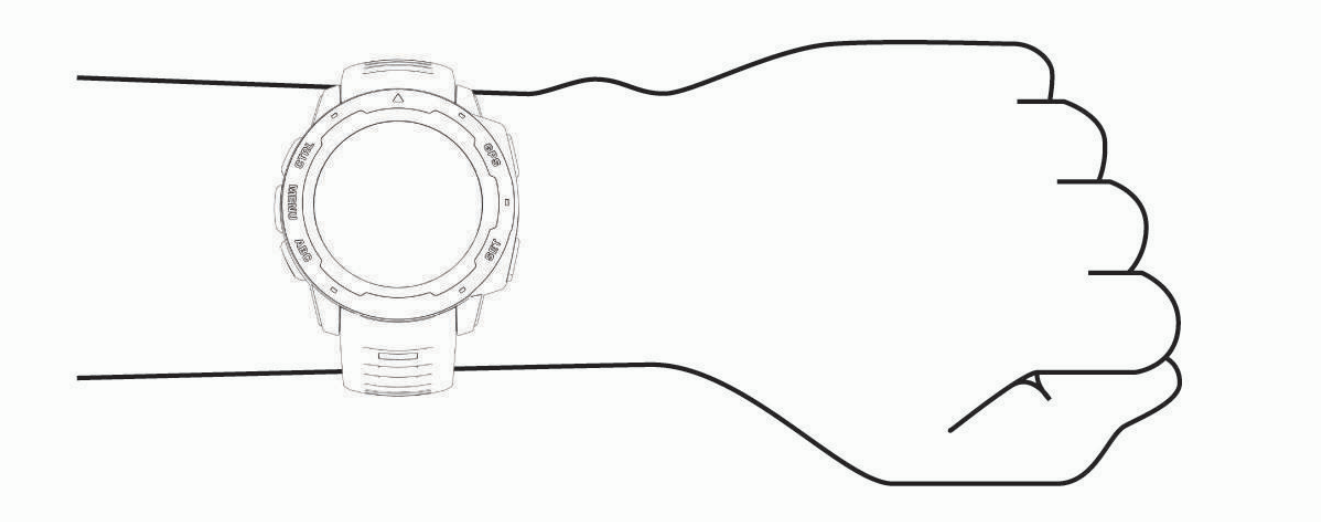
Wearing the Watch

⚠ CAUTION

Some users may experience skin irritation after prolonged use of the watch, especially if the user has sensitive skin or allergies. If you notice any skin irritation, remove the watch and give your skin time to heal. To help prevent skin irritation, ensure the watch is clean and dry, and do not overtighten the watch on your wrist. For more information, go to garmin.com/fitandcare.

- Wear the watch above your wrist bone.

  NOTE: The watch should be snug but comfortable. For more accurate heart rate readings, the watch should not shift while running or exercising. For pulse oximeter readings, you should remain motionless.



  NOTE: The optical sensor is located on the back of the watch.
- See *Tips for Erratic Heart Rate Data*, page 53 for more information about wrist-based heart rate.
- See *Tips for Erratic Pulse Oximeter Data*, page 55 for more information about the pulse oximeter sensor.
- For more information about accuracy, go to garmin.com/ataccuracy.
- For more information about watch wear and care, go to garmin.com/fitandcare.

Tips for Erratic Heart Rate Data

If the heart rate data is erratic or does not appear, you can try these tips.

- Clean and dry your arm before putting on the watch.
- Avoid wearing sunscreen, lotion, and insect repellent under the watch.
- Avoid scratching the heart rate sensor on the back of the watch.
- Wear the watch above your wrist bone. The watch should be snug but comfortable.
- Wait until the ♥ icon is solid before starting your activity.
- Warm up for 5 to 10 minutes and get a heart rate reading before starting your activity.

  NOTE: In cold environments, warm up indoors.
- Rinse the watch with fresh water after each workout.

Wrist Heart Rate Monitor Settings

Hold **MENU**, and select **Sensors & Accessories** > **Wrist Heart Rate**.

Status: Enables or disables the wrist heart rate monitor. The default value is Auto, which automatically uses the wrist heart rate monitor unless you pair an external heart rate monitor.

NOTE: Disabling the wrist heart rate monitor also disables the wrist-based pulse oximeter sensor. You can perform a manual reading from the pulse oximeter glance.

While Swimming: Enables or disables the wrist heart rate monitor during swimming activities.

Abnormal Heart Rate Alerts: Allows you to set the watch to alert you when your heart rate exceeds or drops below a target value (*Setting an Abnormal Heart Rate Alert*, page 54).

Broadcast Heart Rate: Allows you to begin broadcasting your heart rate data to a paired device (*Broadcasting Heart Rate Data*, page 54).

Setting an Abnormal Heart Rate Alert

⚠ CAUTION

This feature only alerts you when your heart rate exceeds or drops below a certain number of beats per minute, as selected by the user, after a period of inactivity. This feature does not notify you of any potential heart condition and is not intended to treat or diagnose any medical condition or disease. Always defer to your health care provider for any heart-related issues.

You can set the heart rate threshold value.

1. Hold **MENU**.
2. Select **Sensors & Accessories** > **Wrist Heart Rate** > **Abnormal Heart Rate Alerts**.
3. Select **High Alert** or **Low Alert**.
4. Set the heart rate threshold value.

Each time your heart rate exceeds or drops below the threshold value, a message appears and the watch vibrates.

Broadcasting Heart Rate Data

You can broadcast your heart rate data from your watch and view it on paired devices. Broadcasting heart rate data decreases battery life.

TIP: You can customize the activity settings to broadcast your heart rate data automatically when you begin an activity (*Activities and App Settings*, page 26). For example, you can broadcast your heart rate data to an Edge® device while cycling.

1. Select an option:
   - Hold **MENU**, and select **Sensors & Accessories** > **Wrist Heart Rate** > **Broadcast Heart Rate**.
   - Hold **CTRL** to open the controls menu, and select .

     NOTE: You can add options to the controls menu (*Customizing the Controls Menu*, page 50).
2. Press **GPS**.

   The watch starts broadcasting your heart rate data.
3. Pair your watch with your compatible device.

   NOTE: The pairing instructions differ for each Garmin compatible device. See your owner's manual.
4. Press **GPS** to stop broadcasting your heart rate data.

Pulse Oximeter

The Instinct 2 watch has a wrist-based pulse oximeter to gauge the saturation of oxygen in your blood. Knowing your oxygen saturation can be valuable in understanding your overall health and help you determine how your body is adapting to altitude. Your watch gauges your blood oxygen level by shining light into the skin and checking how much light is absorbed. This is referred to as SpO_2.

On the watch, your pulse oximeter readings appear as an SpO_2 percentage. On your Garmin Connect account, you can view additional details about your pulse oximeter readings, including trends over multiple days (*Setting the Pulse Oximeter Mode*, page 55). For more information on pulse oximeter accuracy, go to garmin.com/ataccuracy.

Getting Pulse Oximeter Readings

You can manually begin a pulse oximeter reading by viewing the pulse oximeter glance. The glance displays your most recent blood oxygen saturation percentage.

1. While you are sitting or inactive, press **UP** or **DOWN** to view the pulse oximeter glance.
2. Wait until the watch begins the pulse oximeter reading.
3. Remain motionless for up to 30 seconds.

   NOTE: If you are too active for the watch to get a pulse oximeter reading, a message appears instead of a percentage. You can check again after several minutes of inactivity. For best results, hold the arm wearing the watch at heart level while the watch reads your blood oxygen saturation.

Setting the Pulse Oximeter Mode

1. Hold **MENU**.
2. Select **Sensors & Accessories** > **Pulse Oximeter** > **Pulse Ox Mode**.
3. Select an option:
   - To turn off automatic measurements, select **Manual Check**.
   - To turn on continuous measurements while you sleep, select **During Sleep**.

     NOTE: Unusual sleep positions can cause abnormally low sleep-time SpO2 readings.
   - To turn on measurements while you are inactive during the day, select **All Day**.

     NOTE: Turning on **All Day** mode decreases battery life.

Tips for Erratic Pulse Oximeter Data

If the pulse oximeter data is erratic or does not appear, you can try these tips.

- Remain motionless while the watch reads your blood oxygen saturation.
- Wear the watch above your wrist bone. The watch should be snug but comfortable.
- Hold the arm wearing the watch at heart level while the watch reads your blood oxygen saturation.
- Use a silicone or nylon band.
- Clean and dry your arm before putting on the watch.
- Avoid wearing sunscreen, lotion, and insect repellent under the watch.
- Avoid scratching the optical sensor on the back of the watch.
- Rinse the watch with fresh water after each workout.

Compass

The watch has a 3-axis compass with automatic calibration. The compass features and appearance change depending on your activity, whether GPS is enabled, and whether you are navigating to a destination. You can change the compass settings manually (*Compass Settings*, page 56).

Compass Settings

Hold **MENU**, and select **Sensors & Accessories** > **Compass**.

Calibrate: Allows you to manually calibrate the compass sensor (*Calibrating the Compass Manually*, page 56).

Display: Sets the directional heading on the compass to letters, degrees, or milliradians.

North Ref.: Sets the north reference of the compass (*Setting the North Reference*, page 56).

Mode: Sets the compass to use electronic-sensor data only (On), a combination of GPS and electronic-sensor data when moving (Auto), or GPS data only (Off).

Calibrating the Compass Manually

NOTICE

Calibrate the electronic compass outdoors. To improve heading accuracy, do not stand near objects that influence magnetic fields, such as vehicles, buildings, and overhead power lines.

Your watch was already calibrated at the factory, and the watch uses automatic calibration by default. If you experience irregular compass behavior, for example, after moving long distances or after extreme temperature changes, you can manually calibrate the compass.

1. Hold **MENU**.
2. Select **Sensors & Accessories** > **Compass** > **Calibrate** > **Start**.
3. Follow the on-screen instructions.

   TIP: Move your wrist in a small figure eight motion until a message appears.

Setting the North Reference

You can set the directional reference used in calculating heading information.

1. Hold **MENU**.
2. Select **Sensors & Accessories** > **Compass** > **North Ref.**.
3. Select an option:
   - To set geographic north as the heading reference, select **True**.
   - To set the magnetic declination for your location automatically, select **Magnetic**.
   - To set grid north (000º) as the heading reference, select **Grid**.
   - To set the magnetic variation value manually, select **User** > **Mag. Variation**, enter the magnetic variation, and select **Done**.

Altimeter and Barometer

The watch contains an internal altimeter and barometer. The watch collects elevation and pressure data continuously, even in low-power mode. The altimeter displays your approximate elevation based on pressure changes. The barometer displays environmental pressure data based on the fixed elevation where the altimeter was most recently calibrated (*Altimeter Settings*, page 56).

Altimeter Settings

Hold **MENU**, and select **Sensors & Accessories** > **Altimeter**.

Calibrate: Allows you to manually calibrate the altimeter sensor.

Auto Cal.: Allows the altimeter to self-calibrate each time you use satellite systems.

Sensor Mode: Sets the mode for the sensor. The Auto option uses both the altimeter and barometer according to your movement. You can use the Altimeter Only option when your activity involves changes in altitude, or the Barometer Only option when your activity does not involve changes in altitude.

Elevation: Sets the units of measure for elevation.

Calibrating the Barometric Altimeter

Your watch was already calibrated at the factory, and the watch uses automatic calibration at your GPS starting point by default. You can manually calibrate the barometric altimeter if you know the correct elevation.

1. Hold **MENU**.
2. Select **Sensors & Accessories** > **Altimeter**.
3. Select an option:
   - To calibrate automatically from your GPS starting point, select **Auto Cal.**, and select an option.
   - To enter the current elevation manually, select **Calibrate** > **Enter Manually**.
   - To enter the current elevation from the digital elevation model, select **Calibrate** > **Use DEM**.

     NOTE: Some devices require a phone connection to use DEM for calibration.
   - To enter the current elevation from your GPS starting point, select **Calibrate** > **Use GPS**.

Barometer Settings

Hold **MENU**, and select **Sensors & Accessories** > **Barometer**.

Calibrate: Allows you to manually calibrate the barometer sensor.

Plot: Sets the time scale for the chart in the barometer glance.

Storm Alert: Sets the rate of barometric pressure change that triggers a storm alert.

Sensor Mode: Sets the mode for the sensor. The Auto option uses both the altimeter and barometer according to your movement. You can use the Altimeter Only option when your activity involves changes in altitude, or the Barometer Only option when your activity does not involve changes in altitude.

Pressure: Sets how the watch displays pressure data.

Calibrating the Barometer

Your watch was already calibrated at the factory, and the watch uses automatic calibration at your GPS starting point by default. You can manually calibrate the barometer if you know the correct elevation or the correct sea level pressure.

1. Hold **MENU**.
2. Select **Sensors & Accessories** > **Barometer** > **Calibrate**.
3. Select an option:
   - To enter the current elevation and sea level pressure (optional), select **Enter Manually**.
   - To calibrate automatically from the digital elevation model, select **Use DEM**.

     NOTE: Some watches require a phone connection to use DEM for calibration.
   - To calibrate automatically from your GPS starting point, select **Use GPS**.

Wireless Sensors

Your watch can be paired and used with wireless ANT+ or Bluetooth sensors (*Pairing Your Wireless Sensors*, page 59). After the devices are paired, you can customize the optional data fields (*Customizing the Data Screens*, page 25). If your watch was packaged with a sensor, they are already paired.

For information about specific Garmin sensor compatibility, purchasing, or to view the owner's manual, go to buy.garmin.com for that sensor.

Sensor Type	Description
Club Sensors	You can use Approach CT10 golf club sensors to automatically track your golf shots, including location, distance, and club type.
DogTrack	Allows you to receive data from a compatible handheld dog tracking device.
Extended Display	You can use the Extended Display mode to display data screens from your Instinct watch on a compatible Edge device during a ride or triathlon.
External Heart Rate	You can use an external heart rate monitor, such as the HRM-Pro™ or HRM-Dual™, and view heart rate data during your activities.
Foot Pod	You can use a foot pod to record pace and distance instead of using GPS when you are training indoors or when your GPS signal is weak.
inReach	The inReach remote function allows you to control your inReach device using your Instinct watch (*Using the inReach Remote*, page 60).
Lights	You can use Varia™ smart bike lights to improve situational awareness.
Power	You can use a power meter, such as Rally™ and Vector™, to view your power data on your watch. You can adjust your power zones to match your goals and abilities (*Setting Your Power Zones*, page 69), or use range alerts to be notified when you reach a specified power zone (*Setting an Alert*, page 29).
Radar	You can use a Varia rearview bike radar to improve situational awareness and send alerts about approaching vehicles.
RD Pod	You can use a Running Dynamics Pod to record running dynamics data and view it on your watch (*Running Dynamics*, page 59).
Smart Trainer	You can use your watch with an indoor bike smart trainer to simulate resistance while following a course, ride, or workout.
Speed/Cadence	You can attach speed or cadence sensors to your bike and view the data during your ride. If necessary, you can manually enter your wheel circumference (*Wheel Size and Circumference*, page 104).
Tempe	You can attach the tempe™ temperature sensor to a secure strap or loop where it is exposed to ambient air, so it provides a consistent source of accurate temperature data.
VIRB	The VIRB remote function allows you to control your VIRB action camera using your watch (*VIRB Remote*, page 60).
XERO Laser Locations	You can view and share laser location information from a Xero device (*Xero Laser Location Settings*, page 62).

Pairing Your Wireless Sensors

The first time you connect a wireless sensor to your watch using ANT+ or Bluetooth technology, you must pair the watch and sensor. If the sensor has both ANT+ and Bluetooth technology, Garmin recommends that you pair using ANT+ technology. After they are paired, the watch connects to the sensor automatically when you start an activity and the sensor is active and within range.

1. If you are pairing a heart rate monitor, put on the heart rate monitor.

   The heart rate monitor does not send or receive data until you put it on.
2. Bring the watch within 3 m (10 ft.) of the sensor.

   NOTE: Stay 10 m (33 ft.) away from other wireless sensors while pairing.
3. Hold **MENU**.
4. Select **Sensors & Accessories** > **Add New**.
5. Select an option:
   - Select **Search All**.
   - Select your sensor type.

   After the sensor is paired with your watch, the sensor status changes from Searching to Connected. Sensor data appears in the data screen loop or a custom data field. You can customize the optional data fields (*Customizing the Data Screens*, page 25).

Running Dynamics

You can use your compatible Instinct 2 device paired with the HRM-Pro accessory or other running dynamics accessory to provide real-time feedback about your running form.

The running dynamics accessory has an accelerometer that measures torso movement in order to calculate six running metrics.

Cadence: Cadence is the number of steps per minute. It displays the total steps (right and left combined).

Vertical oscillation: Vertical oscillation is your bounce while running. It displays the vertical motion of your torso, measured in centimeters.

Ground contact time: Ground contact time is the amount of time in each step that you spend on the ground while running. It is measured in milliseconds.

NOTE: Ground contact time and balance are not available while walking.

Ground contact time balance: Ground contact time balance displays the left/right balance of your ground contact time while running. It displays a percentage. For example, 53.2 with an arrow pointing left or right.

Stride length: Stride length is the length of your stride from one footfall to the next. It is measured in meters.

Vertical ratio: Vertical ratio is the ratio of vertical oscillation to stride length. It displays a percentage. A lower number typically indicates better running form.

Training with Running Dynamics

Before you can view running dynamics, you must put on a running dynamics accessory, such as the HRM-Pro accessory, and pair it with your device (*Pairing Your Wireless Sensors*, page 59).

1. Hold **MENU**.
2. Select **Activities & Apps**.
3. Select an activity.
4. Select the activity settings.
5. Select **Data Screens** > **Add New**.
6. Select a running dynamics data screen.

   NOTE: The running dynamics screens are not available for all activities.
7. Go for a run (*Starting an Activity*, page 8).
8. Select **UP** or **DOWN** to open a running dynamics screen to view your metrics.

Tips for Missing Running Dynamics Data

If running dynamics data does not appear, you can try these tips.

- Make sure you have a running dynamics accessory, such as the HRM-Pro accessory.
  Accessories with running dynamics have on the front of the module.
- Pair the running dynamics accessory with your watch again, according to the instructions.
- If you are using the HRM-Pro accessory, pair it with your watch using ANT+ technology, rather than Bluetooth technology.
- If the running dynamics data display shows only zeros, make sure the accessory is worn right-side up.
  NOTE: Ground contact time and balance appears only while running. It is not calculated while walking.

inReach Remote

The inReach remote function allows you to control your inReach device using your Instinct device. Go to buy.garmin.com to purchase a compatible inReach device.

Using the inReach Remote

Before you can use the inReach remote function, you must add the inReach glance to the glance loop (*Customizing the Glance Loop*, page 40).

1. Turn on the inReach device.
2. On your Instinct watch, press **UP** or **DOWN** from the watch face to view the inReach glance.
3. Press **GPS** to search for your inReach device.
4. Press **GPS** to pair your inReach device.
5. Press **GPS**, and select an option:
   - To send an SOS message, select **Initiate SOS**.
     NOTE: You should only use the SOS function in a real emergency situation.
   - To send a text message, select **Messages** > **New Message**, select the message contacts, and enter the message text or select a quick text option.
   - To send a preset message, select **Send Preset**, and select a message from the list.
   - To view the timer and distance traveled during an activity, select **Tracking**.

VIRB Remote

The VIRB remote function allows you to control your VIRB action camera using your device.

Controlling a VIRB Action Camera

Before you can use the VIRB remote function, you must enable the remote setting on your VIRB camera. See the *VIRB Series Owner's Manual* for more information.

1. Turn on your VIRB camera.
2. Pair your VIRB camera with your Instinct watch (*Pairing Your Wireless Sensors*, page 59).
   The VIRB glance is automatically added to the glance loop.
3. Press **UP** or **DOWN** from the watch face to view the VIRB glance.
4. If necessary, wait while your watch connects to your camera.
5. Select an option:
   - To record video, select **Start Recording**.
     The video counter appears on the Instinct screen.
   - To take a photo while recording video, press **DOWN**.
   - To stop recording video, press **GPS**.
   - To take a photo, select **Take Photo**.
   - To take multiple photos in burst mode, select **Take Burst**.
   - To send the camera to sleep mode, select **Sleep Camera**.
   - To wake the camera from sleep mode, select **Wake Camera**.
   - To change video and photo settings, select **Settings**.

Controlling a VIRB Action Camera During an Activity

Before you can use the VIRB remote function, you must enable the remote setting on your VIRB camera. See the *VIRB Series Owner's Manual* for more information.

1. Turn on your VIRB camera.
2. Pair your VIRB camera with your Instinct watch (*Pairing Your Wireless Sensors*, page 59).
   When the camera is paired, a VIRB data screen is automatically added to activities.
3. During an activity, press **UP** or **DOWN** to view the VIRB data screen.
4. If necessary, wait while your watch connects to your camera.
5. Hold **MENU**.
6. Select **VIRB**.
7. Select an option:
   - To control the camera using the activity timer, select **Settings** > **Recording Mode** > **Timer Start/Stop**.
     NOTE: Video recording automatically starts and stops when you start and stop an activity.
   - To control the camera using the menu options, select **Settings** > **Recording Mode** > **Manual**.
   - To manually record video, select **Start Recording**.
     The video counter appears on the Instinct screen.
   - To take a photo while recording video, press **DOWN**.
   - To manually stop recording video, press **GPS**.
   - To take multiple photos in burst mode, select **Take Burst**.
   - To send the camera to sleep mode, select **Sleep Camera**.
   - To wake the camera from sleep mode, select **Wake Camera**.

Xero Laser Location Settings

Before you can customize laser location settings, you must pair a compatible Xero device (*Pairing Your Wireless Sensors*, page 59).

Hold **MENU**, and select **Sensors & Accessories** > **XERO Laser Locations** > **Laser Locations**.

During Activity: Enables the display of laser location information from a compatible, paired Xero device during an activity.

Share Mode: Allows you to share laser location information publicly or broadcast it privately.

Map

▲ represents your location on the map. Location names and symbols appear on the map. When you are navigating to a destination, your route is marked with a line on the map.

- Map navigation (*Panning and Zooming the Map*, page 62)
- Map settings (*Map Settings*, page 62)

Panning and Zooming the Map

1. While navigating, press **UP** or **DOWN** to view the map.
2. Hold **MENU**.
3. Select **Pan/Zoom**.
4. Select an option:
   - To toggle between panning up and down, panning left and right, or zooming, press **GPS**.
   - To pan or zoom the map, press **UP** and **DOWN**.
   - To quit, press **BACK**.

Map Settings

You can customize how the map appears in the map app and data screens.

NOTE: If necessary, you can customize the map settings for specific activities instead of using the system settings.

Hold **MENU**, and select **Map**.

Orientation: Sets the orientation of the map. The North Up option shows north at the top of the screen. The Track Up option shows your current direction of travel at the top of the screen.

User Locations: Shows or hides saved locations on the map.

Auto Zoom: Automatically selects the zoom level for optimal use of your map. When disabled, you must zoom in or out manually.

Phone Connectivity Features

Phone connectivity features are available for your Instinct watch when you pair it using the Garmin Connect app (*Pairing Your Phone with Your Watch*, page 63).

- App features from the Garmin Connect app, the Connect IQ app, and more (*Phone Apps and Computer Applications*, page 64)
- Glances (*Glances*, page 38)
- Controls menu features (*Controls*, page 49)
- Safety and tracking features (*Safety and Tracking Features*, page 70)
- Phone interactions, such as notifications (*Enabling Bluetooth Notifications*, page 63)

Pairing Your Phone with Your Watch

To use the connected features of the Instinct watch, it must be paired directly through the Garmin Connect app, instead of from the Bluetooth settings on your phone.

1. From the app store on your phone, install and open the Garmin Connect app.
2. Bring your phone within 10 m (33 ft.) of your watch.
3. Select an option to enable pairing mode on your watch:
   - During the initial setup, select ✔ when you are prompted to pair with your smartphone.
   - If you previously skipped the pairing process, hold **MENU**, and select **Pair Phone**.
4. Select an option to add your watch to your account:
   - If this is the first time you are pairing a device with the Garmin Connect app, follow the on-screen instructions.
   - If you already paired another device with the Garmin Connect app, from the ☰ or ••• menu, select **Garmin Devices** > **Add Device**, and follow the on-screen instructions.

Enabling Bluetooth Notifications

Before you can enable notifications, you must pair the watch with a compatible phone (*Pairing Your Phone with Your Watch*, page 63).

1. Hold **MENU**.
2. Select **Phone** > **Smart Notifications** > **Status** > **On**.
3. Select **General Use** or **During Activity**.
4. Select a notification type.
5. Select status, tone, and vibration preferences.
6. Press **BACK**.
7. Select privacy and timeout preferences.
8. Press **BACK**.
9. Select **Signature** to add a signature to your text message replies.

Viewing Notifications

1. From the watch face, press **UP** or **DOWN** to view the notifications glance.
2. Press **GPS**.
3. Select a notification.
4. Press **GPS** for more options.
5. Press **BACK** to return to the previous screen.

Receiving an Incoming Phone Call

When you receive a phone call on your connected phone, the Instinct watch displays the name or phone number of the caller.

- To accept the call, select **Accept**.

  NOTE: To talk to the caller, you must use your connected phone.
- To decline the call, select **Decline**.
- To decline the call and immediately send a text message reply, select **Reply**, and select a message from the list.

  NOTE: To send a text message reply, you must be connected to a compatible Android™ phone using Bluetooth technology.

Replying to a Text Message

NOTE: This feature is available only for compatible Android phones.

When you receive a text message notification on your watch, you can send a quick reply by selecting from a list of messages. You can customize messages in the Garmin Connect app.

NOTE: This feature sends text messages using your phone. Regular text message limits and charges from your carrier and phone plan may apply. Contact your mobile carrier for more information about text message charges or limits.

1. From the watch face, press **UP** or **DOWN** to view the notifications glance.
2. Press **GPS**, and select a text message notification.
3. Press **GPS**.
4. Select **Reply**.
5. Select a message from the list.

   Your phone sends the selected message as an SMS text message.

Managing Notifications

You can use your compatible phone to manage notifications that appear on your Instinct 2 watch.

Select an option:

- If you are using an iPhone®, go to the iOS® notifications settings to select the items to show on the watch.
- If you are using an Android phone, from the Garmin Connect app, select **Settings** > **Notifications**.

Turning Off the Bluetooth Phone Connection

You can turn off the Bluetooth phone connection from the controls menu.

NOTE: You can add options to the controls menu (*Customizing the Controls Menu*, page 50).

1. Hold **CTRL** to view the controls menu.
2. Select to turn off the Bluetooth phone connection on your Instinct watch.

   Refer to the owner's manual for your phone to turn off Bluetooth technology on your phone.

Turning On and Off Phone Connection Alerts

You can set the Instinct 2 watch to alert you when your paired phone connects and disconnects using Bluetooth technology.

NOTE: Phone connection alerts are turned off by default.

1. Hold **MENU**.
2. Select **Phone** > **Alerts**.

Phone Apps and Computer Applications

You can connect your watch to multiple Garmin phone apps and computer applications using the same Garmin account.

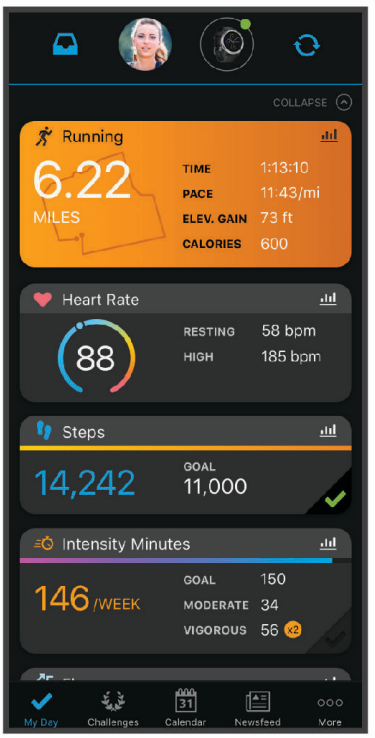
Garmin Connect

You can connect with your friends on Garmin Connect. Garmin Connect gives you the tools to track, analyze, share, and encourage each other. Record the events of your active lifestyle including runs, walks, rides, swims, hikes, triathlons, and more. To sign up for a free account, you can download the app from the app store on your phone (garmin.com/connectapp), or go to connect.garmin.com.

Store your activities: After you complete and save an activity with your watch, you can upload that activity to your Garmin Connect account and keep it as long as you want.

Analyze your data: You can view more detailed information about your activity, including time, distance, elevation, heart rate, calories burned, cadence, running dynamics, an overhead map view, pace and speed charts, and customizable reports.

NOTE: Some data requires an optional accessory such as a heart rate monitor.



Plan your training: You can choose a fitness goal and load one of the day-by-day training plans.

Track your progress: You can track your daily steps, join a friendly competition with your connections, and meet your goals.

Share your activities: You can connect with friends to follow each other's activities or post links to your activities on your favorite social networking sites.

Manage your settings: You can customize your watch and user settings on your Garmin Connect account.

Using the Garmin Connect App

After you pair your watch with your phone (*Pairing Your Phone with Your Watch*, page 63), you can use the Garmin Connect app to upload all of your activity data to your Garmin Connect account.

1. Verify the Garmin Connect app is running on your phone.
2. Bring your watch within 10 m (30 ft.) of your phone.

   Your watch automatically syncs your data with the Garmin Connect app and your Garmin Connect account.

Updating the Software Using the Garmin Connect App

Before you can update your watch software using the Garmin Connect app, you must have a Garmin Connect account, and you must pair the watch with a compatible phone (*Pairing Your Phone with Your Watch*, page 63).

Sync your watch with the Garmin Connect app (*Using the Garmin Connect App*, page 65).

When new software is available, the Garmin Connect app automatically sends the update to your watch. The update is applied when you are not actively using the watch. When the update is complete, your watch restarts.

Using Garmin Connect on Your Computer

The Garmin Express™ application connects your watch to your Garmin Connect account using a computer. You can use the Garmin Express application to upload your activity data to your Garmin Connect account and to send data, such as workouts or training plans, from the Garmin Connect website to your watch. You can also install software updates and manage your Connect IQ apps.

1. Connect the watch to your computer using the USB cable.
2. Go to garmin.com/express.
3. Download and install the Garmin Express application.
4. Open the Garmin Express application, and select **Add Device**.
5. Follow the on-screen instructions.

Updating the Software Using Garmin Express

Before you can update your watch software, you must download and install the Garmin Express application and add your watch (*Using Garmin Connect on Your Computer*, page 66).

1. Connect the watch to your computer using the USB cable.

   When new software is available, the Garmin Express application sends it to your watch.
2. After the Garmin Express application finishes sending the update, disconnect the watch from your computer.

   Your watch installs the update.

Connect IQ Features

You can add Connect IQ features to your watch from Garmin and other providers using the Connect IQ app (garmin.com/connectiqapp). You can customize your watch with watch faces, device apps, and data fields.

Watch Faces: Allow you to customize the appearance of the clock.

Device Apps: Add interactive features to your watch, such as glances and new outdoor and fitness activity types.

Data Fields: Allow you to download new data fields that present sensor, activity, and history data in new ways. You can add Connect IQ data fields to built-in features and pages.

Downloading Connect IQ Features

Before you can download features from the Connect IQ app, you must pair your Instinct 2 watch with your phone (*Pairing Your Phone with Your Watch*, page 63).

1. From the app store on your phone, install and open the Connect IQ app.
2. If necessary, select your watch.
3. Select a Connect IQ feature.
4. Follow the on-screen instructions.

Downloading Connect IQ Features Using Your Computer

1. Connect the watch to your computer using a USB cable.
2. Go to apps.garmin.com, and sign in.
3. Select a Connect IQ feature, and download it.
4. Follow the on-screen instructions.

Garmin Explore™

The Garmin Explore website and mobile app allow you to plan trips and use cloud storage for your waypoints, routes, and tracks. They offer advanced planning both online and offline, allowing you to share and sync data with your compatible Garmin device. You can use the mobile 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.

Garmin Golf™ App

The Garmin Golf app allows you to upload scorecards from your compatible Garmin device to view detailed statistics and shot analyses. Golfers can compete with each other at different courses using the Garmin Golf app. More than 42,000 courses have leaderboards that anyone can join. You can set up a tournament event and invite players to compete.

The Garmin Golf app syncs your data with your Garmin Connect account. You can download the Garmin Golf app from the app store on your phone (garmin.com/golfapp).

User Profile

You can update your user profile on your watch or on the Garmin Connect app.

Setting Up Your User Profile

You can update your gender, birth year, height, weight, heart rate zone, and power zone settings. The device uses this information to calculate accurate training data.

1. Hold **MENU**.
2. Select **User Profile**.
3. Select an option.

Viewing Your Fitness Age

Your fitness age gives you an idea of how your fitness compares with a person of the same gender. Your watch uses information, such as your age, body mass index (BMI), resting heart rate data, and vigorous activity history to provide a fitness age. If you have a Garmin Index™ scale, your watch uses the body fat percentage metric instead of BMI to determine your fitness age. Exercise and lifestyle changes can impact your fitness age.

NOTE: For the most accurate fitness age, complete the user profile setup (*Setting Up Your User Profile*, page 67).

1. Hold **MENU**.
2. Select **User Profile** > **Fitness Age**.

About Heart Rate Zones

Many athletes use heart rate zones to measure and increase their cardiovascular strength and improve their level of fitness. A heart rate zone is a set range of heartbeats per minute. The five commonly accepted heart rate zones are numbered from 1 to 5 according to increasing intensity. Generally, heart rate zones are calculated based on percentages of your maximum heart rate.

Fitness Goals

Knowing your heart rate zones can help you measure and improve your fitness by understanding and applying these principles.

- Your heart rate is a good measure of exercise intensity.
- Training in certain heart rate zones can help you improve cardiovascular capacity and strength.

If you know your maximum heart rate, you can use the table (*Heart Rate Zone Calculations*, page 69) to determine the best heart rate zone for your fitness objectives.

If you do not know your maximum heart rate, use one of the calculators available on the Internet. Some gyms and health centers can provide a test that measures maximum heart rate. The default maximum heart rate is 220 minus your age.

Setting Your Heart Rate Zones

The watch uses your user profile information from the initial setup to determine your default heart rate zones. You can set separate heart rate zones for sport profiles, such as running, cycling, and swimming. For the most accurate calorie data during your activity, set your maximum heart rate. You can also set each heart rate zone and enter your resting heart rate manually. You can manually adjust your zones on the watch or using your Garmin Connect account.

1. Hold **MENU**.
2. Select **User Profile** > **Heart Rate**.
3. Select **Max. HR** > **Max. HR**, and enter your maximum heart rate.

   You can use the Auto Detection feature to automatically record your maximum heart rate during an activity.
4. Select **LTHR** > **LTHR**, and enter your lactate threshold heart rate.

   You can perform a guided test to estimate your lactate threshold (*Lactate Threshold*, page 43). You can use the Auto Detection feature to automatically record your lactate threshold during an activity.
5. Select **Resting HR** > **Set Custom**, and enter your resting heart rate.

   You can use the average resting heart rate measured by your watch, or you can set a custom resting heart rate.
6. Select **Zones** > **Based On**.
7. Select an option:
   - Select **BPM** to view and edit the zones in beats per minute.
   - Select **%Max. HR** to view and edit the zones as a percentage of your maximum heart rate.
   - Select **%HRR** to view and edit the zones as a percentage of your heart rate reserve (maximum heart rate minus resting heart rate).
   - Select **%LTHR** to view and edit the zones as a percentage of your lactate threshold heart rate.
8. Select a zone, and enter a value for each zone.
9. Select **Sport Heart Rate**, and select a sport profile to add separate heart rate zones (optional).
10. Repeat the steps to add sport heart rate zones (optional).

Letting the Watch Set Your Heart Rate Zones

The default settings allow the watch to detect your maximum heart rate and set your heart rate zones as a percentage of your maximum heart rate.

- Verify that your user profile settings are accurate (*Setting Up Your User Profile*, page 67).
- Run often with the wrist or chest heart rate monitor.
- Try a few heart rate training plans, available from your Garmin Connect account.
- View your heart rate trends and time in zones using your Garmin Connect account.

Heart Rate Zone Calculations

Zone	% of Maximum Heart Rate	Perceived Exertion	Benefits
1	50–60%	Relaxed, easy pace, rhythmic breathing	Beginning-level aerobic training, reduces stress
2	60–70%	Comfortable pace, slightly deeper breathing, conversation possible	Basic cardiovascular training, good recovery pace
3	70–80%	Moderate pace, more difficult to hold conversation	Improved aerobic capacity, optimal cardiovascular training
4	80–90%	Fast pace and a bit uncomfortable, breathing forceful	Improved anaerobic capacity and threshold, improved speed
5	90–100%	Sprinting pace, unsustainable for long period of time, labored breathing	Anaerobic and muscular endurance, increased power

Setting Your Power Zones

The power zones use default values based on gender, weight, and average ability, and may not match your personal abilities. If you know your functional threshold power (FTP) value, you can enter it and allow the software to calculate your power zones automatically. You can manually adjust your zones on the device or using your Garmin Connect account.

1. Hold **MENU**.
2. Select **User Profile** > **Power Zones**.
3. Select an activity.
4. Select **Based On**.
5. Select an option:
   - Select **Watts** to view and edit the zones in watts.
   - Select **% FTP** to view and edit the zones as a percentage of your functional threshold power.
6. Select **Auto Detect FTP** to automatically detect your FTP during an activity.
7. Select **FTP**, and enter your FTP value.
8. Select a zone, and enter a value for each zone.
9. If necessary, select **Minimum**, and enter a minimum power value.

Safety and Tracking Features

⚠ CAUTION

The safety and tracking features are supplemental features and should not be relied on as a primary method to obtain emergency assistance. The Garmin Connect app does not contact emergency services on your behalf.

NOTICE

To use the safety and tracking features, the Instinct 2 watch must be connected to the Garmin Connect app using Bluetooth technology. Your paired phone must be equipped with a data plan and be in an area of network coverage where data is available. You can enter emergency contacts in your Garmin Connect account.

For more information about safety and tracking features, go to garmin.com/safety.

Assistance: Allows you to send a message with your name, LiveTrack link, and GPS location (if available) to your emergency contacts.

Incident detection: When the Instinct 2 watch detects an incident during certain outdoor activities, the watch sends an automated message, LiveTrack link, and GPS location (if available) to your emergency contacts.

LiveTrack: Allows friends and family to follow your races and training activities in real time. You can invite followers using email or social media, allowing them to view your live data on a web page.

Live Event Sharing: Allows you to send messages to friends and family during an event, providing real-time updates.

NOTE: This feature is available only if your watch is connected to a compatible Android phone.

Adding Emergency Contacts

Emergency contact phone numbers are used for the safety and tracking features.

1. From the Garmin Connect app, select ☰ or •••.
2. Select **Safety & Tracking** > **Safety Features** > **Emergency Contacts** > **Add Emergency Contacts**.
3. Follow the on-screen instructions.

Adding Contacts

You can add up to 50 contacts to the Garmin Connect app. Contact emails can be used with the LiveTrack feature. Three of these contacts can be used as emergency contacts (*Adding Emergency Contacts*, page 70).

1. From the Garmin Connect app, select ☰ or •••.
2. Select **Contacts**.
3. Follow the on-screen instructions.

After you add contacts, you must sync your data to apply the changes to your Instinct 2 device (*Using the Garmin Connect App*, page 65).

Turning Incident Detection On and Off

NOTE: Your paired phone must be equipped with a data plan and be in an area of network coverage where data is available.

Before you can enable incident detection on your watch, you must set up emergency contacts in the Garmin Connect app (*Adding Emergency Contacts*, page 70). Your emergency contacts must be able to receive emails or text messages (standard text messaging rates may apply).

1. From the watch face, hold **MENU**.
2. Select **Safety** > **Incident Detection**.
3. Select a GPS activity.

   NOTE: Incident detection is available only for certain outdoor activities.

When an incident is detected by your Instinct 2 watch and your phone is connected, the Garmin Connect app can send an automated text message and email with your name and GPS location to your emergency contacts. You have 15 seconds to cancel the message.

Requesting Assistance

NOTE: Your paired phone must be equipped with a data plan and be in an area of network coverage where data is available.

Before you can request assistance, you must set up emergency contacts (*Adding Emergency Contacts*, page 70). Your emergency contacts must be able to receive emails or text messages (standard text messaging rates may apply).

1 Hold **CTRL**.

2 When you feel three vibrations, release the button to activate the assistance feature.

The countdown screen appears.

TIP: You can select **Cancel** before the countdown is complete to cancel the message.

Health and Wellness Settings

Hold **MENU**, and select **Health & Wellness**.

Heart Rate: Allows you to customize the wrist heart rate monitor settings (*Wrist Heart Rate Monitor Settings*, page 54).

Pulse Ox Mode: Allows you to select a pulse oximeter mode (*Setting the Pulse Oximeter Mode*, page 55).

Move Alert: Enables or disables the Move Alert feature (*Using the Move Alert*, page 71).

Goal Alerts: Allows you to turn on and off goal alerts, or turn them off only during activities. Goal alerts appear for your daily steps goal, daily floors climbed goal, and weekly intensity minutes goal.

Move IQ: Allows you to turn on and off Garmin Move IQ™ events. When your movements match familiar exercise patterns, the Garmin Move IQ feature automatically detects the event and displays it in your timeline. The Garmin Move IQ events show activity type and duration, but they do not appear in your activities list or newsfeed. For more detail and accuracy, you can record a timed activity on your device.

Auto Goal

Your device creates a daily step goal automatically, based on your previous activity levels. As you move during the day, the device shows your progress toward your daily goal.

If you choose not to use the auto goal feature, you can set a personalized step goal on your Garmin Connect account.

Using the Move Alert

Sitting for prolonged periods of time can trigger undesirable metabolic state changes. The move alert reminds you to keep moving. After one hour of inactivity, Move! and the move bar appear. Additional segments appear after every 15 minutes of inactivity. The device also beeps or vibrates if audible tones are turned on (*System Settings*, page 78).

Go for a short walk (at least a couple of minutes) to reset the move alert.

Intensity Minutes

To improve your health, organizations such as the World Health Organization recommend at least 150 minutes per week of moderate intensity activity, such as brisk walking, or 75 minutes per week of vigorous intensity activity, such as running.

The watch monitors your activity intensity and tracks your time spent participating in moderate to vigorous intensity activities (heart rate data is required to quantify vigorous intensity). The watch adds the amount of moderate activity minutes with the amount of vigorous activity minutes. Your total vigorous intensity minutes are doubled when added.

Earning Intensity Minutes

Your Instinct 2 watch calculates intensity minutes by comparing your heart rate data to your average resting heart rate. If heart rate is turned off, the watch calculates moderate intensity minutes by analyzing your steps per minute.

- Start a timed activity for the most accurate calculation of intensity minutes.
- Wear your watch all day and night for the most accurate resting heart rate.

Sleep Tracking

While you are sleeping, the watch automatically detects your sleep and monitors your movement during your normal sleep hours. You can set your normal sleep hours in the user settings on your Garmin Connect account. Sleep statistics include total hours of sleep, sleep stages, sleep movement, and sleep score. You can view your sleep statistics on your Garmin Connect account.

NOTE: Naps are not added to your sleep statistics. You can use do not disturb mode to turn off notifications and alerts, with the exception of alarms (*Controls*, page 49).

Using Automated Sleep Tracking

1. Wear your device while sleeping.
2. Upload your sleep tracking data to the Garmin Connect site (*Using the Garmin Connect App*, page 65).

   You can view your sleep statistics on your Garmin Connect account.

   You can view sleep information from the previous night on your Instinct 2 device (*Glances*, page 38).

Navigation

Viewing and Editing Your Saved Locations

TIP: You can save a location from the controls menu (*Controls*, page 49).

1. From the watch face, press **GPS**.
2. Select **Navigate** > **Saved Locations**.
3. Select a saved location.
4. Select an option to view or edit the location details.

Saving a Dual Grid Location

You can save your current location using dual grid coordinates to navigate back to the same location later.

1. From any screen, hold **GPS**.
2. Select **GPS**.
3. If necessary, select **DOWN** to edit location information.

Navigating to a Destination

You can use your device to navigate to a destination or follow a course.

1. From the watch face, press **GPS**.
2. Select an activity.
3. Hold **MENU**.
4. Select **Navigation**.
5. Select a category.
6. Respond to the on-screen prompts to choose a destination.
7. Select **Go To**.

   Navigation information appears.
8. Press **GPS** to begin navigation.

Navigating to the Starting Point of a Saved Activity

You can navigate back to the starting point of a saved activity in a straight line or along the path you traveled. This feature is available only for activities that use GPS.

1. From the watch face, press **GPS**.
2. Select an activity.
3. Hold **MENU**.
4. Select **Navigation** > **Activities**.
5. Select an activity.
6. Select **Back to Start**, and select an option:
   - To navigate back to the starting point of your activity along the path you traveled, select **TracBack**.
   - To navigate back to the starting point of your activity in a straight line, select **Straight Line**.

   A line appears on the map from your current location to the starting point of the last saved activity.

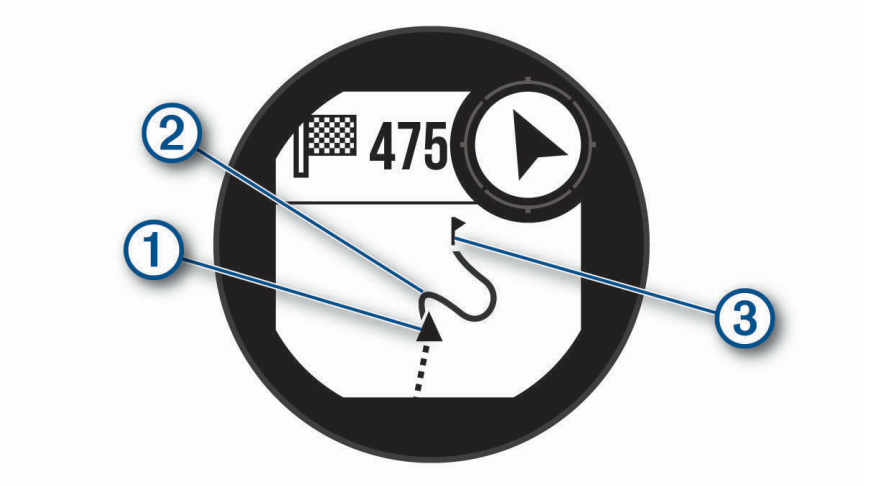
   NOTE: You can start the timer to prevent the device from timing out to watch mode.
7. Press **DOWN** to view the compass (optional).

   The arrow points toward your starting point.

Navigating to Your Starting Point During an Activity

You can navigate back to the starting point of your current activity in a straight line or along the path you traveled. This feature is available only for activities that use GPS.

1. During an activity, press **GPS**.
2. Select **Back to Start**, and select an option:
   - To navigate back to the starting point of your activity along the path you traveled, select **TracBack**.
   - To navigate back to the starting point of your activity in a straight line, select **Straight Line**.



Your current location ①, the track to follow ②, and your destination ③ appear on the map.

Navigating with Sight 'N Go

You can point the device at an object in the distance, such as a water tower, lock in the direction, and then navigate to the object.

1. From the watch face, press **GPS**.
2. Select an activity.
3. Hold **MENU**.
4. Select **Navigation** > **Sight 'N Go**.
5. Point the top of the watch at an object, and press **GPS**.
   Navigation information appears.
6. Press **GPS** to begin navigation.

Marking and Starting Navigation to a Man Overboard Location

You can save a man overboard (MOB) location, and automatically start navigation back to it.

TIP: You can customize the hold function of the keys to access the MOB function (*Customizing the Hot Keys*, page 79).

1. From the watch face, press **GPS**.
2. Select an activity.
3. Hold **MENU**.
4. Select **Navigation** > **Last MOB**.
   Navigation information appears.

Stopping Navigation

1. During an activity, hold **MENU**.
2. Select **Stop Navigation**.

Courses

You can send a course from your Garmin Connect account to your device. After it is saved to your device, you can navigate the course on your device.

You can follow a saved course simply because it is a good route. For example, you can save and follow a bike friendly commute to work.

You can also follow a saved course, trying to match or exceed previously set performance goals. For example, if the original course was completed in 30 minutes, you can race against a Virtual Partner trying to complete the course in under 30 minutes.

Creating and Following a Course on Your Device

1. From the watch face, press **GPS**.
2. Select an activity.
3. Hold **MENU**.
4. Select **Navigation** > **Courses** > **Create New**.
5. Enter a name for the course, and select ✓.
6. Select **Add Location**.
7. Select an option.
8. If necessary, repeat steps 6 and 7.
9. Select **Done** > **Do Course**.
   Navigation information appears.
10. Press **GPS** to begin navigation.

Creating a Course on Garmin Connect

Before you can create a course on the Garmin Connect app, you must have a Garmin Connect account (*Garmin Connect*, page 64).

1. From the Garmin Connect app, select ☰ or •••.
2. Select **Training** > **Courses** > **Create Course**.
3. Select a course type.
4. Follow the on-screen instructions.
5. Select **Done**.

   NOTE: You can send this course to your device (*Sending a Course to Your Device*, page 75).

Sending a Course to Your Device

You can send a course you created using the Garmin Connect app to your device (*Creating a Course on Garmin Connect*, page 75).

1. From the Garmin Connect app, select ☰ or •••.
2. Select **Training** > **Courses**.
3. Select a course.
4. Select ⋮ > **Send to Device**.
5. Select your compatible device.
6. Follow the on-screen instructions.

Viewing or Editing Course Details

You can view or edit course details before you navigate a course.

1. From the watch face, press **GPS**.
2. Select an activity.
3. Hold **MENU**.
4. Select **Navigation** > **Courses**.
5. Press **GPS** to select a course.
6. Select an option:
   - To begin navigation, select **Do Course**.
   - To create a custom pace band, select **PacePro**.
   - To view the course on the map and pan or zoom the map, select **Map**.
   - To begin the course in reverse, select **Do Course in Reverse**.
   - To view an elevation plot of the course, select **Elevation Plot**.
   - To change the course name, select **Name**.
   - To edit the course path, select **Edit**.
   - To delete the course, select **Delete**.

Projecting a Waypoint

You can create a new location by projecting the distance and bearing from your current location to a new location.

NOTE: You may need to add the Project Wpt. app to the activities and apps list.

1. From the watch face, press **GPS**.
2. Select **Project Wpt.**.
3. Press **UP** or **DOWN** to set the heading.
4. Press **GPS**.
5. Press **DOWN** to select a unit of measure.
6. Press **UP** to enter the distance.
7. Press **GPS** to save.

The projected waypoint is saved with a default name.

Navigation Settings

You can customize the map features and appearance when navigating to a destination.

Customizing Navigation Data Screens

1. Hold **MENU**.
2. Select **Navigation** > **Data Screens**.
3. Select an option:
   - Select **Map** > **Status** to turn on or off the map.
   - Select **Map** > **Data Field** to turn on or off a data field that shows routing information on the map.
   - Select **Elevation Plot** to turn on or off the elevation plot.
   - Select a screen to add, remove, or customize.

Heading Settings

You can set the behavior of the pointer that appears when navigating.

Hold **MENU**, and select **Navigation** > **Type**.

Bearing: Points in the direction of your destination.

Course: Shows your relationship to the course line leading to the destination.

Setting Navigation Alerts

You can set alerts to help you navigate to your destination.

1. Hold **MENU**.
2. Select **Navigation** > **Alerts**.
3. Select an option:
   - To set an alert for a specified distance from your final destination, select **Final Distance**.
   - To set an alert for the estimated time remaining until you reach your final destination, select **Final ETE**.
   - To set an alert when you stray from the course, select **Off Course**.
4. If necessary, select **Status** to turn on the alert.
5. If necessary, enter a distance or time value, and select ✔.

Power Manager Settings

Hold **MENU**, and select **Power Manager**.

Battery Saver: Allows you to customize system settings to extend battery life in watch mode (*Customizing the Battery Saver Feature*, page 77).

Power Modes: Allows you to customize system settings, activity settings, and GPS settings to extend battery life during an activity (*Customizing Power Modes*, page 77).

Customizing the Battery Saver Feature

The battery saver feature allows you to quickly adjust system settings to extend battery life in watch mode.

You can turn on the battery saver feature from the controls menu (*Controls*, page 49).

1. Hold **MENU**.
2. Select **Power Manager** > **Battery Saver**.
3. Select **Status** to turn on the battery saver feature.
4. Select **Edit**, and select an option:
   - Select **Watch Face** to enable a low-power watch face that updates once per minute.
   - Select **Phone** to disconnect your paired phone.
   - Select **Wrist Heart Rate** to turn off the wrist heart rate monitor.
   - Select **Pulse Oximeter** to turn off the pulse oximeter sensor.
   - Select **Backlight** to disable the automatic backlight.

   The watch displays the hours of battery life gained with each setting change.
5. Select **During Sleep** to enable the battery saver feature during your normal sleep hours.

   TIP: You can set your normal sleep hours in the user settings on your Garmin Connect account.
6. Select **Low Battery Alert** to receive an alert when the battery is low.

Changing the Power Mode

You can change the power mode to extend battery life during an activity.

1. During an activity, hold **MENU**.
2. Select **Power Mode**.
3. Select an option.

   The watch displays the hours of battery life available with the selected power mode.

Customizing Power Modes

Your device comes preloaded with several power modes, allowing you to quickly adjust system settings, activity settings, and GPS settings to extend battery life during an activity. You can customize existing power modes and create new custom power modes.

1. Hold **MENU**.
2. Select **Power Manager** > **Power Modes**.
3. Select an option:
   - Select a power mode to customize.
   - Select **Add** to create a custom power mode.
4. If necessary, enter a custom name.
5. Select an option to customize specific power mode settings.

   For example, you can change the GPS setting or disconnect your paired phone.

   The watch displays the hours of battery life gained with each setting change.
6. If necessary, select **Done** to save and use the custom power mode.

Restoring a Power Mode

You can reset a preloaded power mode to the factory default settings.

1. Hold **MENU**.
2. Select **Power Manager** > **Power Modes**.
3. Select a preloaded power mode.
4. Select **Restore** > ✔.

System Settings

Hold **MENU**, and select **System**.

Language: Sets the language displayed on the watch.

Time: Adjusts the time settings (*Time Settings*, page 78).

Backlight: Adjusts the screen settings (*Changing the Screen Settings*, page 79).

Sound and Vibe: Sets the watch sounds, such as button tones, alerts, and vibrations.

Do Not Disturb: Allows you to enable the Do Not Disturb mode. Use the During Sleep option to turn on do not disturb mode automatically during your normal sleep hours. You can set your normal sleep hours on your Garmin Connect account.

Hot Keys: Allows you to assign shortcuts to buttons (*Customizing the Hot Keys*, page 79).

Auto Lock: Allows you to lock the buttons automatically to prevent accidental button presses. Use the During Activity option to lock the buttons during a timed activity. Use the General Use option to lock the buttons when you are not recording a timed activity.

Format: Sets general format preferences, such as the units of measure, pace and speed shown during activities, the start of the week, and geographical position format and datum options (*Changing the Units of Measure*, page 79).

Physio TrueUp: Enables syncing of activities and performance measurements from your other Garmin devices (*Syncing Activities and Performance Measurements*, page 79).

Perf. Condition: Enables the performance condition feature during an activity (*Performance Condition*, page 42).

Data Recording: Sets how the watch records activity data. The Smart recording option (default) allows for longer activity recordings. The Every Second recording option provides more detailed activity recordings, but may not record entire activities that last for longer periods of time.

USB Mode: Sets the watch to use mass storage mode or Garmin mode when connected to a computer.

Reset: Allows you to reset user data and settings (*Resetting All Default Settings*, page 86).

Software Update: Allows you to install software updates downloaded using Garmin Express. Use the Auto Update option to enable your watch to download the latest software update from the Garmin Connect app on your paired phone.

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

Time Settings

Hold **MENU**, and select **System** > **Time**.

Time Format: Sets the device to show time in a 12-hour, 24-hour, or military format.

Set Time: Sets the time zone for the device. The Auto option sets the time zone automatically based on your GPS position.

Time: Allows you to adjust the time if it is set to the Manual option.

Alerts: Allows you to set hourly alerts, as well as sunrise and sunset alerts that sound a specific number of minutes or hours before the actual sunrise or sunset occurs (*Setting Alerts*, page 6).

Sync with GPS: Allows you to manually sync the time with GPS when you change time zones, and to update for daylight saving time (*Syncing the Time with GPS*, page 5).

Changing the Screen Settings

1. Hold **MENU**.
2. Select **System** > **Backlight**.
3. Select **Night Vision** to reduce the backlight intensity for compatibility with night vision goggles (optional).
4. Select an option:
   - Select **During Activity**.
   - Select **General Use**.
   - Select **During Sleep**.
5. Select an option:
   - Select **Brightness** to set the brightness level of the screen.
     NOTE: If you enable night vision mode, you cannot adjust the brightness level.
   - Select **Keys** to turn on the screen for button presses.
   - Select **Alerts** to turn on the screen for alerts.
   - Select **Gesture** to turn on the screen by raising and turning your arm to look at your wrist.
   - Select **Timeout** to set the length of time before the screen turns off.

Customizing the Hot Keys

You can customize the hold function of individual buttons and combinations of buttons.

1. Hold **MENU**.
2. Select **System** > **Hot Keys**.
3. Select a button or combination of buttons to customize.
4. Select a function.

Changing the Units of Measure

You can customize units of measure for distance, pace and speed, elevation, and more.

1. Hold **MENU**.
2. Select **System** > **Format** > **Units**.
3. Select a measurement type.
4. Select a unit of measure.

Syncing Activities and Performance Measurements

You can sync activities and performance measurements from other Garmin devices to your Instinct 2 watch using your Garmin Connect account. This allows your watch to more accurately reflect your training status and fitness. For example, you can record a ride with an Edge device, and view your activity details and overall training load on your Instinct 2 watch.

1. Hold **MENU**.
2. Select **System** > **Physio TrueUp**.

When you sync your watch with your phone, recent activities and performance measurements from your other Garmin devices appear on your Instinct 2 watch.

Viewing Device Information

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

1. Hold **MENU**.
2. Select **System** > **About**.

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 Hold **MENU**.

2 From the system menu, select **About**.

Device Information

Charging the Watch

⚠ WARNING

This device contains a lithium-ion battery. See the *Important Safety and Product Information* guide in the product box for product warnings and other important information.

NOTICE

To prevent corrosion, thoroughly clean and dry the contacts and the surrounding area before charging or connecting to a computer. Refer to the cleaning instructions (*Device Care*, page 81).

1 Plug the small end of the USB cable into the charging port on your watch.

2 Plug the large end of the USB cable into a USB charging port.
The watch displays the current battery charge level.

Solar Charging

NOTE: This feature is not available on all models.

The solar charging capability of the watch allows you to charge your watch while you use it.

Tips for Solar Charging

To maximize the battery life of your watch, follow these tips.

- When you are wearing the watch, avoid covering the face with your sleeve.
- When you are not wearing the watch, point the face toward sunlight.

  NOTE: The watch protects itself from overheating and stops charging automatically if the internal temperature exceeds the solar charging temperature threshold (*Specifications*, page 81).

  NOTE: The watch does not solar charge when connected to an external power source or when the battery is full.

Specifications

Battery type	Rechargeable, built-in lithium-ion battery
Water rating	10 ATM[1]
Operating and storage temperature range	From -20º to 60ºC (from -4º to 140ºF)
USB charging temperature range	From 0º to 45ºC (from 32º to 113ºF)
Solar charging temperature range	From 0° to 60°C (from 32° to 140°F)
Wireless frequency	2.4 GHz @ 4 dBm maximum

Battery Life Information

The actual battery life depends on the features enabled on your watch, such as activity tracking, wrist-based heart rate, phone notifications, GPS, internal sensors, and connected sensors (*Tips for Maximizing the Battery Life*, page 87).

Mode	Instinct 2 Battery Life	Instinct 2S Battery Life
Smartwatch mode with activity tracking and 24/7 wrist-based heart rate monitoring	Up to 28 days/unlimited with solar[2]	Up to 21 days/51 days with solar[2]
GPS mode	Up to 30 hours/48 hours with solar[3]	Up to 22 hours/28 hours with solar[3]
Max. battery GPS mode	Up to 70 hours/370 hours with solar[3]	Up to 54 hours/114 hours with solar[3]
Expedition GPS mode	Up to 32 days/unlimited with solar[2]	Up to 25 days/105 days with solar[2]
Battery saver watch mode	Up to 65 days/unlimited with solar[2]	Up to 50 days/unlimited with solar[2]

Device Care

NOTICE
Do not use a sharp object to clean the device.
Avoid chemical cleaners, solvents, and insect repellents that can damage plastic components and finishes.
Thoroughly rinse the device with fresh water after exposure to chlorine, salt water, sunscreen, cosmetics, alcohol, or other harsh chemicals. Prolonged exposure to these substances can damage the case.
Avoid pressing the buttons under water.
Avoid extreme shock and harsh treatment, because it can degrade the life of the product.
Do not store the device where prolonged exposure to extreme temperatures can occur, because it can cause permanent damage.

[1] The device withstands pressure equivalent to a depth of 100 m. For more information, go to www.garmin.com/waterrating.
[2] All-day wear with 3 hr./day outside in 50,000 lux conditions.
[3] With use in 50,000 lux conditions.

Cleaning the Watch

⚠ CAUTION

Some users may experience skin irritation after prolonged use of the watch, especially if the user has sensitive skin or allergies. If you notice any skin irritation, remove the watch and give your skin time to heal. To help prevent skin irritation, ensure the watch is clean and dry, and do not overtighten the watch on your wrist.

NOTICE

Even small amounts of sweat or moisture can cause corrosion of the electrical contacts when connected to a charger. Corrosion can prevent charging and data transfer.

1. Wipe the watch using a cloth dampened with a mild detergent solution.
2. Wipe it dry.

After cleaning, allow the watch to dry completely.

TIP: For more information, go to garmin.com/fitandcare.

Changing the Spring Bar Bands

You can replace the bands with new Instinct 2 bands or compatible QuickFit® 22 bands.

1 Use the pin tool to push in the watch pin.

2 Remove the band from the watch.

3 Select an option:

- To install Instinct 2 bands, align one side of the new band with the holes on the watch, push in the exposed watch pin, and press the band into place.

NOTE: Make sure the band is secure. The watch pin should align with the holes on the watch.

- To install QuickFit 22 bands, remove the watch pin from the Instinct 2 band, replace the watch pin on the watch, and press the new band into place.

NOTE: Make sure the band is secure. The latch should close over the watch pin.

4 Repeat the steps to change the other band.

Data Management

NOTE: The device is not compatible with Windows® 95, 98, Me, Windows NT®, and Mac® OS 10.3 and earlier.

Deleting Files

NOTICE

If you do not know the purpose of a file, do not delete it. Your device memory contains important system files that should not be deleted.

1 Open the **Garmin** drive or volume.
2 If necessary, open a folder or volume.
3 Select a file.
4 Press the **Delete** key on your keyboard.

NOTE: If you are using an Apple® computer, you must empty the Trash folder to completely remove the files.

Troubleshooting

Product Updates

Your device automatically checks for updates when connected to Bluetooth. You can manually check for updates from the system settings (*System Settings*, page 78). On your computer, install Garmin Express (www.garmin.com/express). On your phone, install the Garmin Connect app.

This provides easy access to these services for Garmin devices:

- Software updates
- Course updates
- Data uploads to Garmin Connect
- Product registration

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.
- Go to www.garmin.com/ataccuracy for information about feature accuracy.

  This is not a medical device.

My device is in the wrong language

You can change the device language selection if you have accidently selected the wrong language on the device.

1 Hold **MENU**.
2 Scroll down to the last item in the list, and press **GPS**.
3 Press **GPS**.
4 Select your language.
5 Press **GPS**.

Is my phone compatible with my watch?

The Instinct 2 watch is compatible with phones using Bluetooth technology.

Go to garmin.com/ble for Bluetooth compatibility information.

My phone will not connect to the watch

If your phone will not connect to the watch, you can try these tips.

- Turn off your phone and your watch, and turn them back on again.
- Enable Bluetooth technology on your phone.
- Update the Garmin Connect app to the latest version.
- Remove your watch from the Garmin Connect app and the Bluetooth settings on your phone to retry the pairing process.
- If you bought a new phone, remove your watch from the Garmin Connect app on the phone you intend to stop using.
- Bring your phone within 10 m (33 ft.) of the watch.
- On your phone, open the Garmin Connect app, select ☰ or •••, and select **Garmin Devices** > **Add Device** to enter pairing mode.
- From the watch face, hold **MENU**, and select **Phone** > **Pair Phone**.

Can I use my Bluetooth sensor with my watch?

The watch is compatible with some Bluetooth sensors. The first time you connect a sensor to your Garmin watch, you must pair the watch and sensor. After they are paired, the watch connects to the sensor automatically when you start an activity and the sensor is active and within range.

1. Hold **MENU**.
2. Select **Sensors & Accessories** > **Add New**.
3. Select an option:
   - Select **Search All**.
   - Select your sensor type.

   You can customize the optional data fields (*Customizing the Data Screens*, page 25).

Restarting Your Watch

1. Hold **CTRL** until the watch turns off.
2. Hold **CTRL** to turn on the watch.

Resetting All Default Settings

Before you reset all default settings, you should sync the watch with the Garmin Connect app to upload your activity data.

You can reset all of the watch settings to the factory default values.

1. Hold **MENU**.
2. Select **System** > **Reset**.
3. Select an option:
   - To reset all of the watch settings to the factory default values, including user profile data, but save activity history and downloaded apps and files, select **Reset Default Settings**.
   - To reset all of the watch settings to the factory default values and delete all user-entered information and activity history, select **Delete Data and Reset Settings**.

     NOTE: If you have set up a Garmin Pay wallet, this option deletes the wallet from your watch.

Tips for Maximizing the Battery Life

To extend the life of the battery, you can try these tips.

- Change the power mode during an activity (*Changing the Power Mode*, page 77).
- Turn on the battery saver feature from the controls menu (*Controls*, page 49).
- Reduce the screen timeout (*Changing the Screen Settings*, page 79).
- Reduce the screen brightness (*Changing the Screen Settings*, page 79).
- Use UltraTrac satellite mode for your activity.
- Turn off Bluetooth technology when you are not using connected features (*Controls*, page 49).
- When pausing your activity for a longer period of time, use the **Resume Later** option (*Stopping an Activity*, page 8).
- Use a watch face that is not updated every second.

  For example, use a watch face without a second hand (*Customizing the Watch Face*, page 37).
- Limit the phone notifications the watch displays (*Managing Notifications*, page 64).
- Stop broadcasting heart rate data to paired devices (*Broadcasting Heart Rate Data*, page 54).
- Turn off wrist-based heart rate monitoring (*Wrist Heart Rate Monitor Settings*, page 54).

  NOTE: Wrist-based heart rate monitoring is used to calculate vigorous intensity minutes and calories burned.
- Turn on manual pulse oximeter readings (*Setting the Pulse Oximeter Mode*, page 55).

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.

TIP: For more information about GPS, go to garmin.com/aboutGPS.

1. Go outdoors to an open area.

   The front 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.

Improving GPS Satellite Reception

- Frequently sync the watch to your Garmin account:
  - Connect your watch to a computer using the USB cable and the Garmin Express application.
  - Sync your watch to the Garmin Connect app using your Bluetooth enabled phone.

  While connected to your Garmin account, the watch downloads several days of satellite data, allowing it to quickly locate satellite signals.
- Take your watch outside to an open area away from tall buildings and trees.
- Remain stationary for a few minutes.

The temperature reading is not accurate

Your body temperature affects the temperature reading for the internal temperature sensor. To get the most accurate temperature reading, you should remove the watch from your wrist and wait 20 to 30 minutes.

You can also use an optional tempe external temperature sensor to view accurate ambient temperature readings while wearing the watch.

Activity Tracking

For more information about activity tracking accuracy, go to garmin.com/ataccuracy.

My daily step count does not appear

The daily step count is reset every night at midnight.

If dashes appear instead of your step count, allow the device to acquire satellite signals and set the time automatically.

My step count does not seem accurate

If your step count does not seem accurate, you can try these tips.

- Wear the watch on your non-dominant wrist.
- Carry the watch in your pocket when pushing a stroller or lawn mower.
- Carry the watch in your pocket when actively using your hands or arms only.

  NOTE: The watch may interpret some repetitive motions, such as washing dishes, folding laundry, or clapping your hands, as steps.

The step counts on my device and my Garmin Connect account don't match

The step count on your Garmin Connect account updates when you sync your device.

1. Select an option:
   - Sync your step count with the Garmin Express application (*Using Garmin Connect on Your Computer*, page 66).
   - Sync your step count with the Garmin Connect app (*Using the Garmin Connect App*, page 65).
2. Wait while the device syncs your data.

   Syncing can take several minutes.

   NOTE: Refreshing the Garmin Connect app or the Garmin Express application does not sync your data or update your step count.

The floors climbed amount does not seem accurate

Your watch uses an internal barometer to measure elevation changes as you climb floors. A floor climbed is equal to 3 m (10 ft.).

- Avoid holding handrails or skipping steps while climbing stairs.
- In windy environments, cover the watch with your sleeve or jacket as strong gusts can cause erratic readings.

Appendix

Data Fields

NOTE: Not all data fields are available for all activity types. Some data fields require ANT+ or Bluetooth accessories to display data. Some data fields appear in more than one category on the watch.

TIP: You can also customize the data fields from the watch settings in the Garmin Connect app.

Cadence Fields

Name	Description
Avg. Cadence	Cycling. The average cadence for the current activity.
Avg. Cadence	Running. The average cadence for the current activity.
Cadence	Cycling. The number of revolutions of the crank arm. Your device must be connected to a cadence accessory for this data to appear.
Cadence	Running. The steps per minute (right and left).
Lap Cadence	Cycling. The average cadence for the current lap.
Lap Cadence	Running. The average cadence for the current lap.
Last Lap Cad.	Cycling. The average cadence for the last completed lap.
Last Lap Cad.	Running. The average cadence for the last completed lap.

Compass Fields

Name	Description
Compass Hdg.	The direction you are moving based on the compass.
GPS Heading	The direction you are moving based on GPS.
Heading	The direction you are moving.

Distance Fields

Name	Description
Distance	The distance traveled for the current track or activity.
Int. Distance	The distance traveled for the current interval.
Lap Distance	The distance traveled for the current lap.
Last Lap Dist.	The distance traveled for the last completed lap.
Last Move Distance	The distance traveled for the last completed move.
Move Distance	The distance traveled for the current move.
Nautical Dist	The distance traveled in nautical meters or nautical feet.

Elevation Fields

Name	Description
Avg. Ascent	The average vertical distance of ascent since the last reset.
Avg. Descent	The average vertical distance of descent since the last reset.
Elevation	The altitude of your current location above or below sea level.
Glide Ratio	The ratio of horizontal distance traveled to the change in vertical distance.
GPS Elevation	The altitude of your current location using GPS.
Grade	The calculation of rise (elevation) over run (distance). For example, if for every 3 m (10 ft.) you climb you travel 60 m (200 ft.), the grade is 5%.
Lap Ascent	The vertical distance of ascent for the current lap.
Lap Descent	The vertical distance of descent for the current lap.
Last Lap Ascent	The vertical distance of ascent for the last completed lap.
Last Lap Descent	The vertical distance of descent for the last completed lap.
Last Move Ascent	The vertical distance of ascent for the last completed move.
Last Move Descent	The vertical distance of descent for the last completed move.
Max. Ascent	The maximum rate of ascent in feet per minute or meters per minute since the last reset.
Max. Descent	The maximum rate of descent in meters per minute or feet per minute since the last reset.
Max. Elevation	The highest elevation reached since the last reset.
Min. Elevation	The lowest elevation reached since the last reset.
Move Ascent	The vertical distance of ascent for the current move.
Move Descent	The vertical distance of descent for the current move.
Total Ascent	The total elevation distance ascended since the last reset.
Total Descent	The total elevation distance descended since the last reset.

Heart Rate Fields

Name	Description
%HRR	The percentage of heart rate reserve (maximum heart rate minus resting heart rate).
Aerobic TE	The impact of the current activity on your aerobic fitness level.
Anaerobic TE	The impact of the current activity on your anaerobic fitness level.
Avg. %HRR	The average percentage of heart rate reserve (maximum heart rate minus resting heart rate) for the current activity.
Average HR	The average heart rate for the current activity.
Avg HR %Max.	The average percentage of maximum heart rate for the current activity.
Heart Rate	Your heart rate in beats per minute (bpm). Your device must have wrist-based heart rate or be connected to a compatible heart rate monitor.
HR %Max.	The percentage of maximum heart rate.
HR Zone	The current range of your heart rate (1 to 5). The default zones are based on your user profile and maximum heart rate (220 minus your age).
Int. Avg. %HRR	The average percentage of heart rate reserve (maximum heart rate minus resting heart rate) for the current swim interval.
Int. Avg. %Max.	The average percentage of maximum heart rate for the current swim interval.
Int. Avg. HR	The average heart rate for the current swim interval.
Int. Max. %HRR	The maximum percentage of heart rate reserve (maximum heart rate minus resting heart rate) for the current swim interval.
Int. Max. %Max.	The maximum percentage of maximum heart rate for the current swim interval.
Int. Max. HR	The maximum heart rate for the current swim interval.
Lap %HRR	The average percentage of heart rate reserve (maximum heart rate minus resting heart rate) for the current lap.
Lap HR	The average heart rate for the current lap.
Lap HR %Max.	The average percentage of maximum heart rate for the current lap.
Last Lap %HRR	The average percentage of heart rate reserve (maximum heart rate minus resting heart rate) for the last completed lap.
Last Lap HR	The average heart rate for the last completed lap.
L. Lap HR %Max.	The average percentage of maximum heart rate for the last completed lap.
Last Move %HRR	The average percentage of heart rate reserve (maximum heart rate minus resting heart rate) for the last move.
Last Move Heart Rate	The average heart rate for the last completed move.
Last Move Heart Rate %Max.	The average percentage of maximum heart rate for the last move.
Max. HR	The maximum heart rate for the current activity.

Name	Description
Move % Heart Rate Reserve	The average percentage of heart rate reserve (maximum heart rate minus resting heart rate) for the current move.
Move Heart Rate	The average heart rate in the current move.
Move Heart Rate %Max.	The average percentage of maximum heart rate for the current move.
Time in Zone	The time elapsed in each heart rate zone.

Lengths Fields

Name	Description
Interval Lengths	The number of pool lengths completed during the current interval.
Lengths	The number of pool lengths completed during the current activity.

Navigation Fields

Name	Description
Bearing	The direction from your current location to a destination. You must be navigating for this data to appear.
Course	The direction from your starting location to a destination. Course can be viewed as a planned or set route. You must be navigating for this data to appear.
Dest. Wpt	The last point on the route to the destination. You must be navigating for this data to appear.
Dist. Remaining	The remaining distance to the final destination. You must be navigating for this data to appear.
Distance To Next	The remaining distance to the next waypoint on the route. You must be navigating for this data to appear.
Estimated Total Distance	The estimated distance from the start to the final destination. You must be navigating for this data to appear.
ETA	The estimated time of day when you will reach the final destination (adjusted to the local time of the destination). You must be navigating for this data to appear.
ETA at Next	The estimated time of day when you will reach the next waypoint on the route (adjusted to the local time of the waypoint). You must be navigating for this data to appear.
ETE	The estimated time remaining until you reach the final destination. You must be navigating for this data to appear.
Glide Ratio Dest.	The glide ratio required to descend from your current position to the destination elevation. You must be navigating for this data to appear.
Next Waypoint	The next point on the route. You must be navigating for this data to appear.
Off Course	The distance to the left or right by which you have strayed from the original path of travel. You must be navigating for this data to appear.
Time to Next	The estimated time remaining before you reach the next waypoint in the route. You must be navigating for this data to appear.

Name	Description
VMG	The speed at which you are closing on a destination along a route. You must be navigating for this data to appear.
V Dist to Dest	The elevation distance between your current position and the final destination. You must be navigating for this data to appear.
Vert Spd to Tgt	The rate of ascent or descent to a predetermined altitude. You must be navigating for this data to appear.

Other Fields

Name	Description
Active Calories	The calories burned during the activity.
Ambient Press.	The uncalibrated environmental pressure.
Baro. Pressure	The current calibrated environmental pressure.
Battery Level	The watch battery level.
Calories	The calories burned throughout the day.
Floors Climbed	The total number of floors climbed up for the day.
Floors Descended	The total number of floors climbed down for the day.
Floors per Minute	The number of floors climbed up per minute.
Grit	The measurement of difficulty for the current activity based on elevation, gradient, and rapid changes in direction.
Lap Flow	The overall flow score for the current lap.
Lap Grit	The overall grit score for the current lap.
Laps	The number of laps completed for the current activity.
Load	The training load for the current activity. Training load is the amount of excess post-exercise oxygen consumption (EPOC), which indicates the strenuousness of your workout.
Max. Stress	Your maximum stress level for the current activity.
Moves	The number of moves completed for the current activity.
Perform. Cond.	The performance condition score is a real-time assessment of your ability to perform.
Reps	During a strength training activity, the number of repetitions in a workout set.
Respiration Rate	Your respiration rate in breaths per minute (brpm).
Runs	The number of runs for the activity.
Set Timer	During a strength training activity, the amount of time spent in the current workout set.
Stress	Your current stress level.
Sunrise	The time of sunrise based on your GPS position.
Sunset	The time of sunset based on your GPS position.
Time of Day	The time of day based on your current location and time settings (format, time zone, daylight saving time).

Pace Fields

Name	Description
500m Pace	The current rowing pace per 500 meters.
Avg. 500m Pace	The average rowing pace per 500 meters for the current activity.
Average Pace	The average pace for the current activity.
Int. Pace	The average pace for the current interval.
Lap 500m Pace	The average rowing pace per 500 meters for the current lap.
Lap Pace	The average pace for the current lap.
LL 500m Pace	The average rowing pace per 500 meters for the last lap.
Last Lap Pace	The average pace for the last completed lap.
Last Len. Pace	The average pace for your last completed pool length.
Last Move Pace	The average pace for the last completed move.
Move Pace	The average pace for the current move.
Pace	The current pace.

PacePro Fields

Name	Description
Next Split Distance	Running. The total distance of the next split.
Next Split Target Pace	Running. The target pace for the next split.
Overall Ahead/Behind	Running. The overall time ahead or behind of the target pace.
Split Distance	Running. The total distance of the current split.
Split Distance Remaining	Running. The remaining distance of the current split.
Split Pace	Running. The pace for the current split.
Split Target Pace	Running. The target pace for the current split.

Power Fields

Name	Description
% FTP	The current power output as a percentage of functional threshold power.
3s Avg. Balance	The 3-second moving average of the left/right power balance.
3s Avg. Power	The 3-second moving average of power output.
10s Avg Balance	The 10-second moving average of the left/right power balance.
10s Avg. Power	The 10-second moving average of power output.
30s Avg Balance	The 30-second moving average of the left/right power balance.
30s Avg. Power	The 30-second moving average of power output.
Avg. Balance	The average left/right power balance for the current activity.
Avg. L. PP	The average power phase angle for the left leg for the current activity.
Average Power	The average power output for the current activity.
Avg. R. PP	The average power phase angle for the right leg for the current activity.
Avg. L. PPP	The average power phase peak angle for the left leg for the current activity.
Avg. PCO	The average platform center offset for the current activity.
Avg. R. PPP	The average power phase peak angle for the right leg for the current activity.
Balance	The current left/right power balance.
Intensity Factor	The Intensity Factor™ for the current activity.
Lap Balance	The average left/right power balance for the current lap.
Lap L. PPP	The average power phase peak angle for the left leg for the current lap.
Lap L. PP	The average power phase angle for the left leg for the current lap.
Lap NP	The average Normalized Power™ for the current lap.
Lap PCO	The average platform center offset for the current lap.
Lap Power	The average power output for the current lap.
Lap R. PPP	The average power phase peak angle for the right leg for the current lap.
Lap R. PP	The average power phase angle for the right leg for the current lap.
Last Lap NP	The average Normalized Power for the last completed lap.
Last Lap Power	The average power output for the last completed lap.
Left PPP	The current power phase peak angle for the left leg. Power phase peak is the angle range over which the rider produces the peak portion of the driving force.
Left PP	The current power phase angle for the left leg. Power phase is the pedal stroke region where positive power is produced.
Max. Lap Power	The top power output for the current lap.
Max Power	The top power output for the current activity.

Name	Description
NP	The Normalized Power for the current activity.
Pedal Smooth.	The measurement of how evenly a rider is applying force to the pedals throughout each pedal stroke.
PCO	The platform center offset. Platform center offset is the location on the pedal platform where force is applied.
Power	Cycling. The current power output in watts.
Power to Weight	The current power measured in watts per kilogram.
Power Zone	The current range of power output (1 to 7) based on your FTP or custom settings.
Right PPP	The current power phase peak angle for the right leg. Power phase peak is the angle range over which the rider produces the peak portion of the driving force.
Right PP	The current power phase angle for the right leg. Power phase is the pedal stroke region where positive power is produced.
Time in Zone	The time elapsed in each power zone.
Time Seat.	The time spent seated while pedaling for the current activity.
Time Seat. Lap	The time spent seated while pedaling for the current lap.
Time Stand.	The time spent standing while pedaling for the current activity.
Time Stand. Lap	The time spent standing while pedaling for the current lap.
TSS	The Training Stress Score™ for the current activity.
Torque Eff.	The measurement of how efficiently a rider is pedaling.
Work	The accumulated work performed (power output) in kilojoules.

Rest Fields

Name	Description
Repeat On	The timer for the last interval plus the current rest (pool swimming).
Rest Timer	The timer for the current rest (pool swimming).

Run Dynamics

Name	Description
Avg. GCT Bal.	The average ground contact time balance for the current session.
Avg GCT	The average amount of ground contact time for the current activity.
Avg. Stride Len.	The average stride length for the current session.
Avg. Vert. Osc.	The average amount of vertical oscillation for the current activity.
Avg. Vert. Ratio	The average ratio of vertical oscillation to stride length for the current session.
GCT Balance	The left/right balance of ground contact time while running.
GCT	The amount of time in each step that you spend on the ground while running, measured in milliseconds. Ground contact time is not calculated while walking.
Lap GCT Bal.	The average ground contact time balance for the current lap.
Lap GCT	The average amount of ground contact time for the current lap.
Lap Stride Len.	The average stride length for the current lap.
Lap Vert. Osc.	The average amount of vertical oscillation for the current lap.
Lap Vert. Ratio	The average ratio of vertical oscillation to stride length for the current lap.
Stride Length	The length of your stride from one footfall to the next, measured in meters.
Vertical Osc.	The amount of bounce while you are running. The vertical motion of your torso, measured in centimeters for each step.
Vertical Ratio	The ratio of vertical oscillation to stride length.

Speed Fields

Name	Description
Avg. Moving Speed	The average speed when moving for the current activity.
Avg. Overall Speed	The average speed for the current activity, including both moving and stopped speeds.
Avg. Speed	The average speed for the current activity.
Avg. Nautical SOG	The average speed of travel in knots for the current activity, regardless of the course steered and temporary variations in heading.
Nautical Avg. Speed	The average speed in knots for the current activity.
Lap SOG	The average speed of travel for the current lap, regardless of the course steered and temporary variations in heading.
Lap Speed	The average speed for the current lap.
Last Lap SOG	The average speed of travel for the last completed lap, regardless of the course steered and temporary variations in heading.
Last Lap Speed	The average speed for the last completed lap.
Last Move Speed	The average speed for the last completed move.
Maximum SOG	The maximum speed of travel for the current activity, regardless of the course steered and temporary variations in heading.
Maximum Speed	The top speed for the current activity.
Max. Nautical SOG	The maximum speed of travel in knots for the current activity, regardless of the course steered and temporary variations in heading.
Max. Nautical Speed	The maximum speed in knots for the current activity.
Move Speed	The average speed for the current move.
Nautical SOG	The actual speed of travel in knots, regardless of the course steered and temporary variations in heading.
Nautical Speed	The current speed in knots.
Run SOG	The speed of travel for the current run, regardless of the course steered and temporary variations in heading.
Speed	The current rate of travel.
SOG	The actual speed of travel, regardless of the course steered and temporary variations in heading.
Vert. Spd.	The rate of ascent or descent over time.

Stroke Fields

Name	Description
Avg Dist Per Stk	Swimming. The average distance traveled per stroke during the current activity.
Avg Dist Per Stk	Paddle sports. The average distance traveled per stroke during the current activity.
Avg. Strk Rate	Paddle sports. The average number of strokes per minute (spm) during the current activity.
Avg. Strk Rate	Swimming. The average number of strokes per minute (spm) during the current activity.
Avg. Strk/Len	The average number of strokes per pool length during the current activity.
Dist. Per Stroke	Paddle sports. The distance traveled per stroke.
Int Strk Rate	The average number of strokes per minute (spm) during the current interval.
Int Strk/Len	The average number of strokes per pool length during the current interval.
Int Strk Type	The current stroke type for the interval.
Lap Dist Per Stk	Swimming. The average distance traveled per stroke during the current lap.
Lap Dist Per Stk	Paddle sports. The average distance traveled per stroke during the current lap.
Lap Strk Rate	Swimming. The average number of strokes per minute (spm) during the current lap.
Lap Strk Rate	Paddle sports. The average number of strokes per minute (spm) during the current lap.
Lap Strokes	Swimming. The total number of strokes for the current lap.
Lap Strokes	Paddle sports. The total number of strokes for the current lap.
L Lap Dist P Stk	Swimming. The average distance traveled per stroke during the last completed lap.
L Lap Dist P Stk	Paddle sports. The average distance traveled per stroke during the last completed lap.
L. Lap Stk. Rate	Swimming. The average number of strokes per minute (spm) during the last completed lap.
L. Lap Stk. Rate	Paddle sports. The average number of strokes per minute (spm) during the last completed lap.
L. Lap Strokes	Swimming. The total number of strokes for the last completed lap.
L. Lap Strokes	Paddle sports. The total number of strokes for the last completed lap.
L. Len. Stk. Rate	The average number strokes per minute (spm) during the last completed pool length.
L. Len. Strokes	The total number of strokes for the last completed pool length.
L. Len. Stk. Type	The stroke type used during the last completed pool length.
Stroke Rate	Swimming. The number of strokes per minute (spm).
Stroke Rate	Paddle sports. The number of strokes per minute (spm).
Strokes	Swimming. The total number of strokes for the current activity.
Strokes	Paddle sports. The total number of strokes for the current activity.

Swolf Fields

Name	Description
Average Swolf	The average swolf score for the current activity. Your swolf score is the sum of the time for one length plus the number of strokes for that length (*Swim Terminology*, page 10). In open water swimming, 25 meters is used to calculate your swolf score.
Int. Swolf	The average swolf score for the current interval.
Lap Swolf	The swolf score for the current lap.
L. Lap Swolf	The swolf score for the last completed lap.
Last Len. Swolf	The swolf score for the last completed pool length.

Temperature Fields

Name	Description
24-Hour Max.	The maximum temperature recorded in the last 24 hours from a compatible temperature sensor.
24-Hour Min.	The minimum temperature recorded in the last 24 hours from a compatible temperature sensor.
Temperature	The temperature of the air. Your body temperature affects the temperature sensor. You can pair a tempe sensor with your device to provide a consistent source of accurate temperature data.

Timer Fields

Name	Description
Avg. Lap Time	The average lap time for the current activity.
Average Move Time	The average move time for the current activity.
Elapsed Time	The total time recorded. For example, if you start the activity timer and run for 10 minutes, then stop the timer for 5 minutes, then start the timer and run for 20 minutes, your elapsed time is 35 minutes.
Interval Time	The stopwatch time for the current interval.
Lap Time	The stopwatch time for the current lap.
Last Lap Time	The stopwatch time for the last completed lap.
Last Move Time	The stopwatch time for the last completed move.
Move Time	The stopwatch time for the current move.
Moving Time	The total time moving for the current activity.
Multisport Time	The total time for all sports in a multisport activity, including transitions.
Overall Ahead/Behind	Running. The overall time ahead of or behind the target pace.
Stopped Time	The total time stopped for the current activity.
Swim Time	The swimming time for the current activity, not including rest time.
Timer	The current time of the countdown timer.

Color Gauges and Running Dynamics Data

In the Garmin Connect activity, the running dynamics data displays as colored graphs. The color zones are based on percentiles and show you how your running dynamics data compare to those of other runners.

Garmin has researched many runners of all different levels. The data values in the red or orange zones are typical for less experienced or slower runners. The data values in the green, blue, or purple zones are typical for more experienced or faster runners. More experienced runners tend to exhibit shorter ground contact times, lower vertical oscillation, lower vertical ratio, and higher cadence than less experienced runners. However, taller runners typically have slightly slower cadences, longer strides, and slightly higher vertical oscillation. Vertical ratio is your vertical oscillation divided by stride length. It is not correlated with height.

Go to garmin.com/runningdynamics for more information on running dynamics. For additional theories and interpretations of running dynamics data, you can search reputable running publications and websites.

Color Zone	Percentile in Zone	Cadence Range	Ground Contact Time Range
Purple	>95	>183 spm	<218 ms
Blue	70–95	174–183 spm	218–248 ms
Green	30–69	164–173 spm	249–277 ms
Orange	5–29	153–163 spm	278–308 ms
Red	<5	<153 spm	>308 ms

Ground Contact Time Balance Data

NOTE: In the Garmin Connect activity, the running dynamics data displays as colored graphs.

Ground contact time balance measures your running symmetry and appears as a percentage of your total ground contact time. For example, 51.3% with an arrow pointing left indicates the runner is spending more time on the ground when on the left foot. If your data screen displays both numbers, for example 48–52, 48% is the left foot and 52% is the right foot.

Color Zone	Red	Orange	Green	Orange	Red
Symmetry	Poor	Fair	Good	Fair	Poor
Percent of Other Runners	5%	25%	40%	25%	5%
Ground Contact Time Balance	>52.2% L	50.8–52.2% L	50.7% L–50.7% R	50.8–52.2% R	>52.2% R

While developing and testing running dynamics, the Garmin team found correlations between injuries and greater imbalances with certain runners. For many runners, ground contact time balance tends to deviate further from 50–50 when running up or down hills. Most running coaches agree that a symmetrical running form is good. Elite runners tend to have quick and balanced strides.

You can watch the gauge or data field during your run or view the summary on your Garmin Connect account after your run. As with the other running dynamics data, ground contact time balance is a quantitative measurement to help you learn about your running form.

Vertical Oscillation and Vertical Ratio Data

NOTE: In the Garmin Connect activity, the running dynamics data displays as colored graphs.

The data ranges for vertical oscillation and vertical ratio are slightly different depending on the sensor and whether it is positioned at the chest (HRM-Pro, HRM-Run™, or HRM-Tri™ accessories) or at the waist (Running Dynamics Pod accessory).

Color Zone	Percentile in Zone	Vertical Oscillation Range at Chest	Vertical Oscillation Range at Waist	Vertical Ratio at Chest	Vertical Ratio at Waist
Purple	>95	<6.4 cm	<6.8 cm	<6.1%	<6.5%
Blue	70–95	6.4–8.1 cm	6.8–8.9 cm	6.1–7.4%	6.5–8.3%
Green	30–69	8.2–9.7 cm	9.0–10.9 cm	7.5–8.6%	8.4–10.0%
Orange	5–29	9.8–11.5 cm	11.0–13.0 cm	8.7–10.1%	10.1–11.9%
Red	<5	>11.5 cm	>13.0 cm	>10.1%	>11.9%

VO2 Max. Standard Ratings

These tables include standardized classifications for VO2 max. estimates by age and gender.

Males	Percentile	20–29	30–39	40–49	50–59	60–69	70–79
Superior	95	55.4	54	52.5	48.9	45.7	42.1
Excellent	80	51.1	48.3	46.4	43.4	39.5	36.7
Good	60	45.4	44	42.4	39.2	35.5	32.3
Fair	40	41.7	40.5	38.5	35.6	32.3	29.4
Poor	0–40	<41.7	<40.5	<38.5	<35.6	<32.3	<29.4

Females	Percentile	20–29	30–39	40–49	50–59	60–69	70–79
Superior	95	49.6	47.4	45.3	41.1	37.8	36.7
Excellent	80	43.9	42.4	39.7	36.7	33	30.9
Good	60	39.5	37.8	36.3	33	30	28.1
Fair	40	36.1	34.4	33	30.1	27.5	25.9
Poor	0–40	<36.1	<34.4	<33	<30.1	<27.5	<25.9

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FTP Ratings

These tables include classifications for functional threshold power (FTP) estimates by gender.

Males	Watts per Kilogram (W/kg)
Superior	5.05 and greater
Excellent	From 3.93 to 5.04
Good	From 2.79 to 3.92
Fair	From 2.23 to 2.78
Untrained	Less than 2.23

Females	Watts per Kilogram (W/kg)
Superior	4.30 and greater
Excellent	From 3.33 to 4.29
Good	From 2.36 to 3.32
Fair	From 1.90 to 2.35
Untrained	Less than 1.90

FTP ratings are based on research by Hunter Allen and Andrew Coggan, PhD, *Training and Racing with a Power Meter* (Boulder, CO: VeloPress, 2010).

Wheel Size and Circumference

Your speed sensor automatically detects your wheel size. If necessary, you can manually enter your wheel circumference in the speed sensor settings.

The tire size is marked on both sides of the tire. This is not a comprehensive list. You can also measure the circumference of your wheel or use one of the calculators available on the internet.

Tire Size	Wheel Circumference (mm)
20 × 1.75	1515
20 × 1-3/8	1615
22 × 1-3/8	1770
22 × 1-1/2	1785
24 × 1	1753
24 × 3/4 Tubular	1785
24 × 1-1/8	1795
24 × 1.75	1890
24 × 1-1/4	1905
24 × 2.00	1925
24 × 2.125	1965
26 × 7/8	1920
26 × 1-1.0	1913
26 × 1	1952
26 × 1.25	1953
26 × 1-1/8	1970
26 × 1.40	2005
26 × 1.50	2010
26 × 1.75	2023
26 × 1.95	2050
26 × 2.00	2055
26 × 1-3/8	2068
26 × 2.10	2068
26 × 2.125	2070
26 × 2.35	2083
26 × 1-1/2	2100
26 × 3.00	2170
27 × 1	2145
27 × 1-1/8	2155

Tire Size	Wheel Circumference (mm)
27 × 1-1/4	2161
27 × 1-3/8	2169
29 x 2.1	2288
29 x 2.2	2298
29 x 2.3	2326
650 x 20C	1938
650 x 23C	1944
650 × 35A	2090
650 × 38B	2105
650 × 38A	2125
700 × 18C	2070
700 × 19C	2080
700 × 20C	2086
700 × 23C	2096
700 × 25C	2105
700C Tubular	2130
700 × 28C	2136
700 × 30C	2146
700 × 32C	2155
700 × 35C	2168
700 × 38C	2180
700 × 40C	2200
700 × 44C	2235
700 × 45C	2242
700 × 47C	2268

Symbol Definitions

These symbols may appear on the device or accessory labels.

	WEEE disposal and recycling symbol. The WEEE symbol is attached to the product in compliance with the EU directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE). It is intended to deter the improper disposal of this product and to promote reuse and recycling.