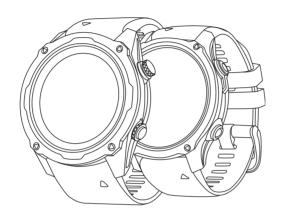
# GARMIN. DESCENT™ MK2/MK2S

**Dive Computer** 



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 **LIGHT** to turn on the watch (*Buttons*, page 7).
- 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 Smartphone*, page 9).
- 3 Charge the device (Charging the Watch, page 10).
- 4 Start an activity (Starting an Activity, page 27).

#### **Buttons**



#### 1 LIGHT:

- Press to turn the backlight on and off.
- Press to turn the device on.
- Hold to view the controls menu.

NOTE: While diving, hold functions are disabled.

#### 2 UP·MENU:

- Press to scroll through the widget loop and menus.
- Hold to view the menu.

NOTE: You can enable or disable this button for dive activities (*Dive Setup*, page 12).

#### 3 DOWN:

- Press to scroll through the widget loop and menus.
- Press to scroll through the data screens during a dive.
- Hold to view the music controls from any screen.

NOTE: While diving, hold functions are disabled.

#### (4) START·STOP:

- Press to view the activity list and start or stop an activity.
- Press to choose an option in a menu.
- Press to view the menu during a dive.

#### 5 BACK·LAP:

Press to return to the previous screen.

- Press to exit a menu during a dive.
- Press to record a lap, rest, or transition during a multisport activity.
- Hold to view the watch face from any screen.
- Hold to return to the primary data screen during a dive.
- 6: Double tap the device to scroll through the data screens during a dive.

## **Using the Watch**

- Hold LIGHT to view the controls menu.
  - 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 widget loop.
   Your watch comes preloaded with widgets that provide at-a-glance information. More widgets are available when you pair your watch with a smartphone.
- From the watch face, press **START** to start an activity or open an app (Activities and Apps, page 27).
- Hold MENU to customize the watch face, adjust settings, and pair wireless sensors.

## **Viewing the Controls Menu**

The controls menu contains options, such as the stopwatch, locating your connected phone, and turning the watch off. You can also open the Garmin Pay™ wallet.

**NOTE:** You can add, reorder, and remove the options in the controls menu (*Customizing the Controls Menu*, page 106).

1 From any screen, hold LIGHT.



2 Press **UP** or **DOWN** to scroll through the options.

#### **Enabling Airplane Mode**

You can enable airplane mode to disable all wireless communications.

NOTE: You can add options to the controls menu (Customizing the Controls Menu, page 106).

- 1 Hold LIGHT.
- 2 Select X.

#### **Viewing Widgets**

Your device comes preloaded with several widgets, and more are available when you pair your device with a smartphone.

Press UP or DOWN.

The device scrolls through the widget loop and displays summary data for each widget.



Press START to view widget details.

**TIP:** You can press DOWN to view additional screens for a widget, or press START to view additional options and functions for a widget.

- From any screen, hold **BACK** to return to the watch face.
- If you are recording an activity, press BACK to return to the activity data pages.

## **Customizing the Watch**

- From the watch face, hold MENU to change the watch face.
- From the widget screens, hold **MENU** to customize the widget options.
- From the controls menu, hold **MENU** to add, remove, and reorder the controls.
- From any screen, hold **MENU** to change additional settings.

#### **Default Watch Face**



- Alternate time zone pointer. References the 24-hour time markings on the watch.
- (2) No-fly time remaining. References the 24-hour time markings on the watch (No-Fly Time, page 14).
- 3 Surface interval (SI) time after a dive.

## **Pairing Your Smartphone**

To use the connected features on your watch, you must pair it directly through the Garmin Dive™ app, instead of from the Bluetooth® settings on your smartphone.

- 1 From the app store on your smartphone, install and open the Garmin Dive app.
- 2 Select an option to enable pairing mode on your watch:
  - During the initial setup, select **Yes** when you are prompted to pair with your smartphone.
  - If you previously skipped the pairing process, hold **MENU**, and select **Pair Phone**.

- 3 Select an option to add your watch to your account:
  - If this is the first time you are pairing a device with the Garmin Dive app, follow the on-screen instructions.
  - If you already paired another device with the Garmin Dive app, select Add > Devices, and follow the
    on-screen instructions.

## **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 119).

- 1 Pinch the sides of the charging clip.
- 2 Align the clip with the contacts on the back of the watch, and release the clip.



3 Plug the USB cable into a USB charging port.
The watch displays the current battery charge level.

# **Product Updates**

On your computer, install Garmin Express (www.garmin.com/express). On your smartphone, install the Garmin Dive™ app.

This provides easy access to these services for Garmin® devices:

- Software updates
- Map updates
- Course updates
- Data uploads to Garmin Dive
- Product registration

## **Setting Up Garmin Express**<sup>™</sup>

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

# **Diving**

## **Dive Warnings**

## **⚠ WARNING**

- The diving features of this device are for use by certified divers only. This device should not be used as a sole dive computer. Failure to input the appropriate dive-related information into the device can lead to serious personal injury or death.
- Make sure that you fully understand the use, displays, and limitations of your device. If you have questions about this manual or the device, always resolve any discrepancies or confusion before diving with the device. Always remember that you are responsible for your own safety.
- There is always a risk of decompression illness (DCI) for any dive profile even if you follow the dive plan provided by the dive tables or a diving device. No procedure, diving device, or dive table will eliminate the possibility of DCI or oxygen toxicity. An individual's physiological make up can vary from day to day. This device cannot account for these variations. You are strongly advised to remain well within the limits provided by this device to minimize the risk of DCI. You should consult a physician regarding your fitness before diving.
- Always use backup instruments, including a depth gauge, submersible pressure gauge, and timer or watch. You should have access to decompression tables when diving with this device.
- Perform pre-dive safety checks, such as checking proper device function and settings, display function, battery level, tank pressure, and bubble checks to check hoses for leaks.
- This device should not be shared between multiple users for diving purposes. Diver profiles are user specific, and using another diver's profile can result in misleading information that could lead to injury or death.
- For safety reasons, you should never dive alone. Dive with a designated buddy. You should also stay with
  others for an extended time after a dive, because the potential onset of decompression illness (DCI) may be
  delayed or triggered by surface activities.
- This device is not intended for commercial or professional dive activities. It is for recreational purposes only. Commercial or professional dive activities can expose the user to extreme depths or conditions that increase the risk of DCI.
- Do not dive with a gas if you have not personally verified its contents and input the analyzed value to the device. Failure to verify tank contents and input the appropriate gas values to the device will result in incorrect dive planning information and could result in serious injury or death.
- Diving with more than one gas mixture presents a much greater risk than diving with a single gas mixture. Mistakes related to the use of multiple gas mixtures may lead to serious injury or death.
- Always ensure a safe ascent. A rapid ascent increases the risk of DCI.
- Disabling the deco lockout feature on the device can result in an increased risk of DCI, which can result in personal injury or death. Disable this feature at your own risk.
- Violating a required decompression stop may result in serious injury or death. Never ascend above the displayed decompression stop depth.
- Always perform a safety stop between 3 and 5 meters (9.8 and 16.4 feet) for 3 minutes, even if no decompression stop is required.

#### **Dive Modes**

The Descent™ device supports six dive modes. Each dive mode has four phases: dive pre-check, surface display, in-dive, and post-dive. During the pre-dive check, you can confirm the dive settings before you start diving (*Dive Setup*, page 12). The surface phase shows the data screens for the dive mode (*Dive Data Screens*, page 15). The in-dive phase shows data about the dive in progress, and other watch features, such as GPS, are disabled (*Going Diving*, page 19). During the post-dive review, you can view a summary of the completed dive (*Viewing the Dive Log Widget*, page 23).

**Single-Gas**: This mode allows you to dive with a single gas blend. You can set up to 11 additional gases as backup gases.

**Multi-Gas**: This mode allows you to configure multiple gas blends and switch gases during your dive. You can set the oxygen content from 5–100%. This mode supports one bottom gas, and up to 11 additional gases as decompression or backup gases.

**NOTE:** Backup gases are not used in no-decompression limit (NDL) and time to surface (TTS) decompression calculations until you activate them during a dive.

**CCR**: This mode for closed-circuit rebreather (CCR) diving allows you to configure two partial pressure of oxygen (PO2) setpoints, closed-circuit (CC) diluent gases, and open-circuit (OC) decompression and backup gases.

**Gauge**: This mode allows you to dive with basic bottom timer features.

**NOTE:** After diving in gauge mode, the device can only be used in gauge or apnea mode for 24 hours.

**Apnea**: This mode allows you to free dive with apnea-specific dive data. This mode has a higher data refresh rate.

**Apnea Hunt**: This mode is similar to the Apnea dive mode, but tuned specifically for spearfishers. This mode disables start and stop tones.

## **Using the Pool Dive Mode**

When the device is in pool dive mode, the tissue load and decompression lockout features function normally, but dives are not saved to the dive log.

- 1 Hold **LIGHT** to view the controls menu.
- 2 Select **目**.

The pool dive mode turns off automatically at midnight.

## **Dive Setup**

You can customize the dive settings based on your needs. Not all settings are applicable for all dive modes. You can also edit the settings before you start a dive.

Hold MENU, and select Dive Setup.

**Gases**: Sets the gas blends used in the gas dive modes (*Setting Up Your Breathing Gases*, page 12). You can have up to twelve gases for each gas dive mode.

**Conservatism**: Sets the level of conservatism for decompression calculations. Higher conservatism provides a shorter bottom time and a longer ascent time. The Custom option allows you to set a custom gradient factor.

NOTE: Make sure you understand gradient factors before entering a custom level of conservatism.

Water Type: Allows you to select the water type.

**P02**: Sets the partial pressure of oxygen (P02) thresholds, in bar, for the maximum operating depth (M0D), decompression, warnings, and critical alerts (*Setting P02 Thresholds*, page 14).

Scuba Alerts: Allows you to set custom alerts for gas dives (Custom Dive Alerts, page 13).

Apnea Alerts: Allows you to set custom alerts for apnea dives (Custom Dive Alerts, page 13).

**Safety Stop**: Allows you to change the safety stop duration.

**Last Deco Stop**: Allows you to set the depth of the final decompression stop.

End Dive Delay: Allows you to set the length of time before the device ends and saves a dive after surfacing.

**CCR Setpoints**: Allows you to set high and low PO2 setpoints for closed-circuit rebreather (CCR) dives (Setting CCR Setpoints, page 14).

**Backlight**: Allows you to adjust the backlight settings for dive activities. You can enable the backlight throughout the dive or only when you are at depth.

**Heart Rate**: Allows you to enable or disable a heart rate monitor for dives. The Stored Strap Data option allows you to enable a chest heart rate monitor, such as the HRM-Pro™ series accessory, that stores heart rate data with the dive. You can view chest heart rate monitor data in the Garmin Dive™ app after you complete the dive.

**Double Tap to Scroll**: Allows you to double tap the device to scroll through the dive data screens. If you notice accidental scrolling, you can use the Sensitivity option to adjust the responsiveness.

**UP Key**: Allows you to enable or disable the UP button during dive activities to prevent inadvertent button presses.

Units: Sets the distance, depth, and tank pressure units of measure for diving.

No-Fly Time: Allows you to set the no-fly countdown timer mode (No-Fly Time, page 14).

Silent Diving: Allows you to disable all tones and vibrations for alerts during dive activities.

**Deco Lockout**: Allows you to disable the decompression lockout feature. This feature prevents single-gas, multi-gas, and CCR dives for 24 hours if you violate a decompression ceiling for more than three minutes.

**NOTE:** You can still disable the decompression lockout feature after violating a decompression ceiling.

#### **Setting Up Your Breathing Gases**

You can enter up to twelve gases for each gas dive mode. Decompression calculations include your decompression gases, but do not include your backup gases.

- 1 Hold MENU.
- 2 Select Dive Setup > Gases.
- 3 Select a dive mode.

4 Select the first gas in the list.

For single-gas or multi-gas dive modes, this is the bottom gas. For the closed-circuit rebreather (CCR) dive mode, this is the diluent gas.

- **5** Select **Oxygen**, and enter the oxygen percentage of the gas blend.
- 6 Select **Helium**, and enter the helium percentage of the gas blend.

The device calculates the remaining percentage as the nitrogen content.

- 7 Press BACK.
- 8 Select an option:

NOTE: Not all options are available for all dive modes.

- Select Add Backup, and enter the oxygen and helium percentage for your backup gas.
- Select **Add New**, enter the oxygen and helium percentage, and select **Mode** to set the intended use for the gas, such as decompression or backup.

**NOTE:** For the multi-gas dive mode, you can select **Set as Travel Gas** to set a decompression gas as your intended gas for descending.

#### **Custom Dive Alerts**

You can set custom dive alerts to help you train toward a specific goal or to increase your awareness of your environment.

Alert Name	Dive Mode	Description
Depth	Single-gas, multi-gas, CCR, gauge, apnea, or apnea hunt.	The alert occurs when you reach the selected depth.
High Speed	Apnea or apnea hunt.	The alert occurs when your vertical speed exceeds the selected speed.
Low Speed	Apnea or apnea hunt.	The alert occurs when your vertical speed drops below the selected speed.
Neutral Buoyancy	Apnea or apnea hunt.	The alert occurs when you reach the selected depth.
Surface Timer	Apnea or apnea hunt.	The alert occurs when the selected time interval elapses.
Target Depth	Apnea or apnea hunt.	The alert occurs when you reach the selected depth.
Time	Single-gas, multi-gas, CCR, gauge, apnea, or apnea hunt.	The alert occurs when the selected time interval elapses.
Variometer	Apnea or apnea hunt.	The alert occurs every time you reach the selected depth interval.

#### **Setting a Custom Dive Alert**

- 1 Hold MENU.
- 2 Select Dive Setup.
- 3 Select an option:
  - Select Scuba Alerts.
  - Select Apnea Alerts.
- 4 Select an option:
  - Select Add Alert to add a new alert.
  - · Select the alert name to edit an existing alert.
- **5** If necessary, enable the alert.
- 6 Select an option:

**NOTE:** Not all options are available for all alert types.

- Select **Depth** to specify the depth that should trigger the alert.
- Select Time to specify the time interval that should trigger the alert.
- Select **Speed** to specify the vertical speed threshold that should trigger the alert.

**NOTE:** You can set the alert to trigger when your vertical speed exceeds or drops below the selected speed.

- Select **Interval** to specify if the alert should trigger once or at a repeat interval.
- Select Direction to specify if the alert should be enabled for ascending, descending, or both.
- Select **Dive Types** to specify which dive modes should allow the alert to trigger.

- Select **Sounds** to set the alert tone, vibration, or neither.
- Select **Pop-up** to enable a pop-up notification for the alert.
- Select **Preview Alert** to see how the alert appears and sounds during a dive.

## **Setting PO2 Thresholds**

You can configure the partial pressure of oxygen (PO2) alert message thresholds, in bar.

- 1 Hold MENU.
- 2 Select Dive Setup > PO2.
- 3 Select an option:
  - Select MOD/Deco PO2 to set the maximum operating depth (MOD) and decompression PO2 threshold for your planned bottom gas before you should begin your ascent and switch to the decompression gas with the highest percentage of oxygen.
    - NOTE: The watch does not switch gases for you automatically. You must select the gas.
  - Select PO2 Warning to set the threshold for the highest oxygen concentration level that you are comfortable reaching.
  - Select PO2 Critical to set the threshold for the maximum oxygen concentration level that you should reach.
- 4 Enter a value.

If you reach the PO2 Critical threshold value during a dive, the watch displays an alert message (*Dive Alerts*, page 24).

## **Setting CCR Setpoints**

You can configure the high and low partial pressure of oxygen (PO2) setpoints for closed-circuit rebreather (CCR) dives.

- 1 Hold MENU.
- 2 Select Dive Setup > CCR Setpoints.
- 3 Select an option:
  - To configure the lower PO2 setpoint, select Low Setpoint.
  - To configure the upper PO2 setpoint, select **High Setpoint**.
- 4 Select Mode.
- 5 Select an option:
  - To automatically change the setpoint based on your current depth, select Auto.
    - **NOTE**: For example, if you descend through the high setpoint depth or ascend through the low setpoint depth, the PO2 threshold switches to the high or low setpoint, respectively. Automatic setpoint depths must be at least 6.1 m (20 ft.) apart.
  - To manually change setpoints during a dive, select Manual.
    - **NOTE:** If you manually change setpoints within 1.8 m (6 ft.) of an automatic switch depth, then automatic setpoint switching is disabled until you are more than 1.8 m (6 ft.) above or below the automatic switch depth. This prevents unintended setpoint switching.
- 6 Select PO2, and enter a value.
- 7 If necessary, select **Depth**, and enter a depth value for the automatic setpoint change.

## **No-Fly Time**

After a dive, you may need to wait several hours before it is safe to fly on an airplane. To indicate your remaining no-fly time, \*\( \text{appears} \) appears on the default watch face, along with a no-fly time estimate in hours (*Default Watch Face*, page 9). You can view more details on the surface interval widget (*Viewing the Surface Interval Widget*, page 22).

**TIP:** You can add the no-fly indicator to a custom watch face (*Customizing the Watch Face*, page 107). Hold **MENU**, and select **Dive Setup** > **No-Fly Time**.

No-Fly Time Mode	Dive Type	No-Fly Time
Standard or 24 Hours	Dive duration of 3 minutes or less or depth of 5 m (15 ft.) or less.	0 hours
Standard	Non-decompression dive more than 48 hours since the previous dive.	12 hours
Standard	Multiple non-decompression dives within 48 hours.	18 hours
Standard	Dive with a completed decompression stop.	24 hours

No-Fly Time Mode	Dive Type	No-Fly Time
24 Hours	Non-gauge dive that did not violate the decompression plan.	24 hours
Standard or 24 Hours	Gauge dive or a dive that violated the decompression plan.	48 hours

## **Dive Data Screens**

You can press **DOWN** or double-tap the device to scroll through the data screens.

In the activity settings, you can reorder the default data screens, add a dive stopwatch, and add custom data screens (*Customizing the Data Screens*, page 100). You can customize the data fields on some of the data screens.

## Single-Gas and Multi-Gas Data Screens



**Primary data screen**: Displays the main dive data, including your breathing gas and rate of ascent or decent. **Primary data screen**:

- Your partial pressure of oxygen (PO2) level.
- Your nitrogen (N2) and helium (He) tissue load level.
  - Green: 0 to 79% tissue load.
  - Yellow: 80 to 99% tissue load.
  - Red: 100% or greater tissue load.
- (3) Your rate of descent or ascent.
  - Green: Good. Ascent is less than 7.9 m (26 ft.) per min.
  - Yellow: Moderately high. Ascent is between 7.9 and 10.1 m (26 and 33 ft.) per min.
  - Red: Too high. Ascent is greater than 10.1 m (33 ft.) per min.

**Dive compass**: Allows you to view the compass and set a directional heading to aid with underwater navigation (*Navigating with the Dive Compass*, page 19).

**Customizable data screen**: Displays additional dive data and physiological information, including the time of day, battery level, and your heart rate. You can edit the gauges and the first five data fields (*Customizing the Data Screens*, page 100).

## Customizable data screen:

The time to surface (TTS) decompression calculation.

#### **Big Numbers Mode**

You can change the size of the numbers on the single-gas and multi-gas dive data screens.

- 1 Hold MENU.
- 2 Select Activities & Apps.
- 3 Select Single-Gas or Multi-Gas.
- 4 Select the activity settings.

## 5 Select Big Numbers.

#### **CCR Data Screens**



**Primary data screen**: Displays the main dive data, including your breathing gas and rate of ascent or decent. **Primary data screen**:

- Indicates whether closed-circuit (CC) or open-circuit (OC) diving is active.
- Your partial pressure of oxygen (PO2) level.
- Your nitrogen (N2) and helium (He) tissue load level.
- Green: 0 to 79% tissue load.
  - Yellow: 80 to 99% tissue load.
  - Red: 100% or greater tissue load.
- Your rate of descent or ascent.
  - Green: Good. Ascent is less than 7.9 m (26 ft.) per min.
  - Yellow: Moderately high. Ascent is between 7.9 and 10.1 m (26 and 33 ft.) per min.
  - Red: Too high. Ascent is greater than 10.1 m (33 ft.) per min.

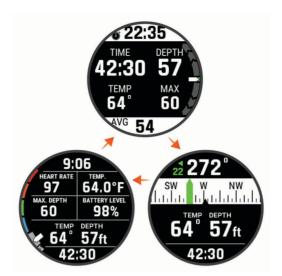
**Dive compass**: Allows you to view the compass and set a directional heading to aid with underwater navigation (*Navigating with the Dive Compass*, page 19).

**Customizable data screen**: Displays additional dive data and physiological information, including the time of day and battery level. You can edit the gauges and the first five data fields (*Customizing the Data Screens*, page 100).

#### Customizable data screen:

- The time to surface (TTS) decompression calculation.
- Your central nervous system (CNS) oxygen toxicity level.
  - Green: 0 to 79% CNS oxygen toxicity.
  - Yellow: 80 to 99% CNS oxygen toxicity.
  - Red: 100% or greater CNS oxygen toxicity.
- Your current oxygen toxicity units (OTU).
  - Green: 0 to 249 OTU.
  - Yellow: 250 to 299 OTU.
  - Red: 300 or greater OTU.

## **Gauge Data Screens**



**Dive stopwatch**: Displays the bottom time stopwatch; current, maximum, and average depth; and rate of ascent or decent (*Using the Gauge Dive Stopwatch*, page 20).

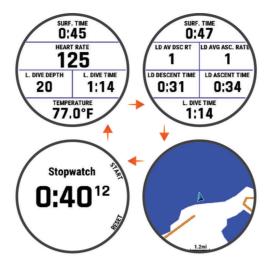
**Dive compass**: Allows you to view the compass and set a directional heading to aid with underwater navigation (*Navigating with the Dive Compass*, page 19).

**Customizable data screen**: Displays additional dive data and physiological information, including the time of day, battery level, and your heart rate. You can edit the gauges and the first five data fields (*Customizing the Data Screens*, page 100).

## **Apnea Data Screens**



**In-dive screen**: Displays the information about the current dive, including the elapsed time, current and maximum depth, and rate ascent or descent. You can edit the data screen layout and data fields (*Customizing the Data Screens*, page 100).



**Surface interval screen 1**: Displays the current surface interval time, heart rate, and last dive information. You can edit the data screen layout and data fields.

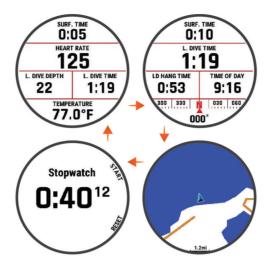
**Surface interval screen 2**: Displays the current surface interval time and last dive information. You can edit the data screen layout and data fields.

**Map**: Displays your current location on the map (*Diving with the Map*, page 22). You can edit the data fields. **Stopwatch**: Displays the surface interval stopwatch (*Using the Basic Dive Stopwatch*, page 20).

#### **Apnea Hunt Data Screens**



**In-dive screen**: Displays the information about the current dive, including the elapsed time, current and maximum depth, and rate ascent or descent. You can edit the data screen layout and data fields (*Customizing the Data Screens*, page 100).



**Surface interval screen 1**: Displays the current surface interval time, heart rate, and last dive information. You can edit the data screen layout and data fields.

**Surface interval screen 2**: Displays the current surface interval time, time of day, last dive information, and a compass. You can edit the data screen layout and data fields.

**Map**: Displays your current location on the map (*Diving with the Map*, page 22). You can edit data fields. **Stopwatch**: Displays the surface interval stopwatch (*Using the Basic Dive Stopwatch*, page 20).

## **Going Diving**

- 1 From the watch face, press **START**.
- 2 Select a dive mode (*Dive Modes*, page 11).
- 3 If necessary, press **DOWN** to edit the dive settings, such as the gases, water type, and alerts (*Dive Setup*, page 12).
- 4 Wait with your wrist out of the water until the watch acquires GPS signals and the status bar is filled (optional).
  - The watch requires GPS signals to save your dive entry location.
- 5 Press **START** until the primary dive data screen appears.
- 6 Descend to start your dive.
  - The activity timer starts automatically when you reach a depth of 1.2 m (4 ft.).

**NOTE:** If you start a dive without selecting a dive mode, the watch uses the most recently used dive mode and settings, and your dive entry location is not saved.

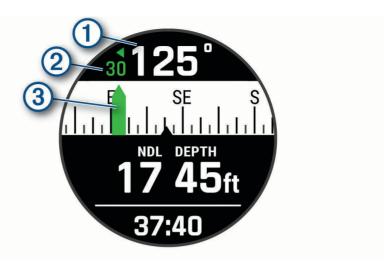
- **7** Select an option:
  - Press **DOWN** to scroll through the data screens and dive compass.
    - **TIP:** You can also double tap the watch to scroll through the screens.
  - Press **START** to view the in-dive menu.
- **8** When you are ready to end the dive, ascend to the surface.
- **9** Keep your wrist out of the water so the watch can acquire GPS signals and save your dive exit location (optional).
- 10 Select an option:
  - For a **Single-Gas**, **Multi-Gas**, **CCR**, or **Gauge** dive, wait for the **End Dive Delay** timer to count down. **NOTE**: When you ascend to 1 m (3.3 ft.), the **End Dive Delay** timer begins counting down (*Dive Setup*, page 12). You can press **START**, and select **Stop Dive** to save the dive before the timer elapses.
  - For an Apnea or Apnea Hunt dive, press BACK, and select Save.

The watch saves the dive activity.

TIP: You can view your diving history in the dive log widget (Viewing the Dive Log Widget, page 23).

## **Navigating with the Dive Compass**

1 During a Single-Gas, Multi-Gas, CCR, or Gauge dive, scroll to the dive compass.



The compass indicates your directional heading 1.

2 Press **START** to set the heading.

The compass indicates deviations 2 from the set heading 3.

- 3 Press START, and select an option:
  - To reset the heading, select Reset Heading.
  - To change the heading by 180 degrees, select Set to Recip..
     NOTE: The compass indicates the reciprocal heading with a red mark.
  - To set to a 90-degree heading left or right, select **Set to 90L** or **Set to 90R**.
  - To clear the heading, select Clear Heading.

## **Using the Gauge Dive Stopwatch**

**TIP:** You can add a simplified stopwatch screen to any of the gas dive modes (*Customizing the Data Screens*, page 100).

- 1 Start a Gauge dive.
- 2 Scroll to the stopwatch screen.



- 3 Press START, and select Reset Avg. Depth to set the average depth to your current depth.
- 4 Press START, and select Start Stopwatch.
- **5** Select an option:
  - To stop using the stopwatch, press **START**, and select **Stop Stopwatch**.
  - To restart the stopwatch, press **START**, and select **Reset Stopwatch**.

## **Using the Basic Dive Stopwatch**

- 1 Select an option:
  - Add the Stopwatch Timer data screen to the Single-Gas, Multi-Gas, CCR, or Gauge dive mode.

- Enable the STOPWATCH surface data screen for the Apnea or Apnea Hunt dive mode.
- 2 During a gas dive or apnea surface interval, scroll to the stopwatch screen.

**TIP:** During an apnea surface interval, you can press and hold START to open the stopwatch and start the timer, even if the screen is not enabled.

- 3 Press START to start the timer.
- 4 Press **STOP** to stop the timer.
- 5 Press BACK to reset the timer.

## **Switching Gases During a Dive**

- 1 Start a single-gas, multi-gas, or closed-circuit rebreather (CCR) dive.
- 2 Select an option:
  - Press **START**, select **Gas**, and select a backup or decompression gas.

NOTE: If necessary, you can select Add New and enter a new gas.

• Dive until you reach the MOD/Deco PO2 threshold (Setting PO2 Thresholds, page 14).

The device prompts you to switch to the gas with the highest percentage of oxygen.

NOTE: The device does not switch gases for you automatically. You must select the gas.

## Switching Between CC and OC Diving for a Bailout Procedure

During a closed-circuit rebreather (CCR) dive, you can switch between closed-circuit (CC) and open-circuit (OC) diving while you perform a bailout procedure.

- 1 Start a CCR dive.
- 2 Press START.
- 3 Select Switch to OC.

The dividing lines on the data screens turn red, and the device switches the active breathing gas to your OC decompression gas.

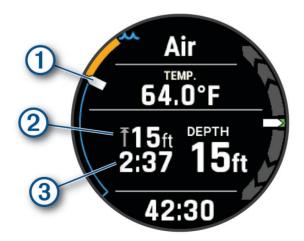
NOTE: If you have not set up an OC decompression gas, the device switches to your diluent gas.

- 4 If necessary, press START, and select Gas to manually switch to a backup gas.
- 5 Press START, and select Switch to CC to switch back to CC diving.

## **Performing a Safety Stop**

You should perform a safety stop during every dive to help reduce the risk of decompression sickness.

1 After a dive of at least 11 m (35 ft.), ascend to 5 m (15 ft.). Safety stop information appears on the data screens.



- 1 Your depth relative to the surface.
  - As you ascend, your position moves upward toward the safety stop depth.
- 2 The safety stop ceiling depth.
- The safety stop timer.

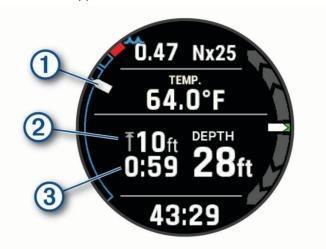
When you are within 1 m (5 ft.) of the ceiling depth, the timer starts counting down.

- 2 Stay within 2 m (8 ft.) of the safety stop ceiling depth until the safety stop timer reaches zero.
  - **NOTE:** If you ascend more than 3 m (8 ft.) above the safety stop ceiling depth, the safety stop timer pauses, and the device alerts you to descend below the ceiling depth. If you descend below 11 m (35 ft.), the safety stop timer resets.
- 3 Continue ascending to the surface.

## **Performing a Decompression Stop**

You should always perform all the required decompression stops during a dive to help reduce the risk of decompression sickness. Missing a decompression stop adds significant risk.

1 When you exceed the no-decompression limit (NDL) time, begin your ascent. Decompression stop information appears on the data screens.



- 1 Your depth relative to the surface.
  - As you ascend, your position moves upward toward the required decompression stop depth. The empty segments represent cleared stops. You may clear a stop before ascending to it.
- The decompression stop ceiling depth.
- 3 The decompression stop timer.
- 2 Stay within 0.6 m (2 ft.) of the decompression stop ceiling depth until the decompression stop timer reaches zero.

**NOTE:** If you ascend more than 0.6 m (2 ft.) above the decompression stop ceiling depth, the decompression stop timer pauses, and the device alerts you to descend below the ceiling depth. The depth and ceiling depth flash red until you are within the safe margin.

3 Continue ascending to the surface or the next decompression stop.

## Diving with the Map

You can view your dive entry and exit locations on the map during apnea surface intervals.

**TIP:** You can view map data for all dive modes in the dive log widget and in the Garmin Dive<sup>™</sup> app.

- 1 During an apnea dive activity, scroll to the map.
- 2 Press START, and select an option:
  - To pan or zoom the map, select **Pan/Zoom**.
    - **TIP:** You can press **START** to toggle between panning up and down, panning left and right, or zooming. You can hold **START** to select the point indicated by the crosshairs.
  - To mark your location, select **Save Location**.
    - TIP: You can press **DOWN** to change the icon.

## **Viewing the Surface Interval Widget**

- 1 From the watch face, press **UP** or **DOWN** to view the surface interval widget.
- 2 Press **START** to view your oxygen toxicity units (OTU) and central nervous system (CNS) percentage. **NOTE:** The OTU accumulated during a dive expire after 24 hours.

- 3 Press DOWN to view your tissue load details.
- 4 Press **DOWN** to view your no-fly time remaining and the time of day the no-fly period ends.

## **Viewing the Dive Log Widget**

The widget displays summaries of your recently recorded dives.

- 1 From the watch face, press **UP** or **DOWN** to view the dive log widget.
- 2 Press START to view your most recent dive.
- 3 Press DOWN > START to view a different dive (optional).
- 4 Press START, and select an option:
  - To view additional information about the activity, select All Stats.
  - To view additional information about one of multiple apnea dives in the activity, select **Dives**, and select a
    dive.
  - To view the activity on a map, select Map.

**NOTE:** The device shows your entry and exit locations if you waited for GPS signals before and after the dive.

- To save a dive entry or exit location, select **Save Location**.
- To view a depth graph for the activity, select **Depth Profile**.
- To view a temperature graph for the activity, select **Temperature Plot**.
- To view the gases you used, select **Gas Switches**.
- To remove the activity from your device, select **Delete**.

## **Dive Planning**

You can plan for future dives using your device. The device can calculate no-decompression limit (NDL) times or create decompression plans. When planning a dive, the device uses your residual tissue load from recent dives in the calculations.

## **Calculating NDL Time**

You can calculate the no-decompression limit (NDL) time or maximum depth for a future dive. These calculations are not saved or applied to your next dive.

- 1 Press START.
- 2 Select Plan Dive > Compute NDL.
- 3 Select an option:
  - To calculate NDL based on your current tissue load, select **Diving Now**.
  - To calculate NDL based on your tissue load at a future time, select Enter Surf. Interval, and enter your surface interval time.
- 4 Enter an oxygen percentage.
- **5** Select an option:
  - To calculate the NDL time, select **Enter Depth**, and enter the planned depth for your dive.
  - To calculate the maximum depth, select Enter Time, and enter your planned dive time.

The NDL countdown clock, depth, and maximum operating depth (MOD) appear.

**NOTE:** If the planned depth exceeds the MOD of the breathing gas, a warning message appears, and the depth appears in red.

- 6 Press DOWN.
- **7** Select an option:
  - To exit, select Done.
  - To add intervals to your dive, select Add Repeat Dive, and follow the on-screen instructions.

## **Calculating Your Breathing Gas**

You can calculate the PO2 value, oxygen percentage, or maximum depth for a dive by adjusting two of the three values. The calculations are affected by the water type setting in the Dive Setup menu (*Dive Setup*, page 12).

- 1 Press START.
- 2 Select Plan Dive > Calculate Gas.
- 3 Press UP or DOWN, and select an option to calculate:
  - Select PO2.
  - Select 02%.

- Select Depth.
- 4 Press UP or DOWN to edit the first value.
- 5 Press START, then press UP or DOWN to edit the second value.
  As you edit the values, the device calculates an adjusted value for the highlighted option.
- 6 If necessary, press **BACK** to calculate the value for a different option.

## **Creating a Decompression Plan**

You can create open-circuit decompression plans and save them for future dives.

- 1 Press START
- 2 Select Plan Dive > Deco Plans > Add New.
- 3 Enter a name for the decompression plan.
- 4 Select an option:
  - To enter the maximum partial pressure of oxygen in bars, select PO2.
    - NOTE: The device uses the PO2 value for gas switching.
  - To enter your level of conservatism for decompression calculations, select Conservatism.
  - To enter your gas blends, select Gases.
  - To enter the depth of your last decompression stop, select Last Deco Stop.
  - To enter the maximum dive depth, select Bottom Depth.
  - To enter the time at the bottom depth, select **Bottom Time**.
- 5 Select Save.

## **Using Decompression Plans**

- 1 Press START.
- 2 Select Plan Dive > Deco Plans.
- 3 Select a decompression plan.
- 4 Select an option:
  - To view the decompression plan, select View.
  - To use the decompression plan settings for a dive mode, select **Apply**.
  - To change the decompression plan details, select Edit.
  - To edit the name of the decompression plan, select **Rename**.
  - To remove the decompression plan, select **Delete** > **Yes**.

## **Altitude Diving**

At higher altitudes, the atmospheric pressure is lower, and your body contains a larger amount of nitrogen than it would at the start of a dive at sea level. The device accounts for altitude changes automatically using the barometric pressure sensor. The absolute pressure value used by the decompression model is not affected by the altitude or the gauge pressure displayed on the watch.

# Tips for Wearing the Watch with an Exposure Suit

- Use the extra long silicone diving band to wear the watch over a thick exposure suit.
- Turn off the wrist-based heart rate monitor to increase battery life (Turning Off the Wrist-based Heart Rate Monitor, page 65).

#### Dive Alerts

Alert Message	Cause	Watch Action
None	You completed the decompression stop.	The decompression stop depth and time flash blue for five seconds.
None	Your partial pressure of oxygen (PO2) value is above the specified warning value.	Your PO2 value flashes yellow.
%1 OTU accumulated. End your dive now.	Your oxygen toxicity units are above the safe limit. During a dive, "%1" is replaced with the number of units accumulated.	The alert appears every two minutes, up to three times.
250 OTU accumulated.	Your oxygen toxicity units (OTU) are at 250 units, and you are nearing the safe limit of 300 units.	None

Alert Message	Cause	Watch Action
Approaching Deco Stop	You are within one stop interval (3 m or 9.8 ft.) of the decompression stop depth.	None
Approaching NDL	You have 10 minutes of no decompression limit (NDL) time remaining.	The alert appears again when you have 5 minutes of NDL time remaining.
Ascending too fast. Slow your ascent.	You are ascending faster than 9.1 m/min. (30 ft./min.) for more than 5 seconds.	None
Battery critically low. End your dive now.	Less than 10% battery power remains.	The alert appears when the watch is below 10% battery power and on the dive precheck screen for your next dive.
Battery is low.	Less than 20% battery power remains.	The alert appears when the watch is below 20% battery power and on the dive precheck screen for your next dive.
Continuing on %1. Switch at any time.	You selected Not Now when prompted to switch to a higher-oxygen gas, or you ignored the prompt.	The watch marks the gas as a backup and updates decompression guidance accordingly.
CNS toxicity at %1%. End your dive now.	Your CNS oxygen toxicity is too high. During a dive, "%1" is replaced with your current CNS percentage.	The alert appears every two minutes, up to three times.
CNS toxicity at 80%.	Your central nervous system (CNS) oxygen toxicity is at 80% of the safe limit.	The alert appears during a dive and on the dive pre-check screen for your next dive.
Decompression Cleared	You completed all decompression stops.	None
Descend below deco	You are more than 0.6 m (2 ft.) above the	The current depth and stop depth flash red.
ceiling.	decompression ceiling.	If you remain above the decompression ceiling for more than three minutes, the decompression lockout feature goes into effect.
Descend to complete safety stop.	You are more than 2 m (8 ft.) above the safety stop ceiling.	The current depth and stop depth flash yellow.
Diluent PO2 is low. Flushing may be dangerous.	The PO2 of the diluent gas is too low, and filling the rebreather breathing loop with the diluent gas may be dangerous.	None
Dive will end in %1 seconds.	The watch will automatically end and save the dive. During a dive, "%1" is replaced by the number of seconds.	None
Do not dive. Failed to read depth sensor.	The watch has invalid or missing depth sensor data before you start a dive activity.	Do not start a dive. Call Garmin® Product Support.
Failed to read depth sensor. End your dive now.	The watch has invalid or missing depth sensor data after you have started a dive activity.	Use a backup dive computer or dive plan and end your dive. Call Garmin Product Support.
NDL exceeded. Decompression now required.	You have exceeded your NDL time.	The watch begins providing decompression stop guidance.
No more gas switch alerts will be issued.	You selected Never when prompted to switch to a higher-oxygen gas.	The watch marks the gas as a backup and updates decompression guidance accordingly. It will no longer prompt you to switch to the gas.
PO2 is high. Ascend or	Your PO2 value is above the specified critical	Your PO2 value flashes red.
switch to lower O2 gas.	value.	The alert appears every 30 seconds, up to three times, until you ascend to a safe level or switch gases.
PO2 is low. Descend or switch to higher O2 gas.	Your PO2 value is below 0.18 bar.	If you are within the first two minutes of your dive, your PO2 value flashes yellow. Otherwise, your PO2 value flashes red. The alert appears every 30 seconds, up to
		three times, until you descend to a safe level or switch gases.

Alert Message	Cause	Watch Action
Safety Stop Cleared	You completed the safety stop.	None
Safety Stop Started	You ascended above 6 m (20 ft.) without other decompression guidance.	The safety stop countdown timer begins, if configured.
Safe to switch to %1. Switch now?	In a multi-gas dive, a gas with a higher oxygen content is now safe to breathe. During a dive, "%1" is replaced with the name of the gas.	You can switch gases now, or wait to switch gases later in the dive. A confirmation message for your choice appears.
Switched to high setpoint.	The watch automatically switched to your specified CCR high setpoint.	None
Switched to low setpoint.	The watch automatically switched to your specified CCR low setpoint.	None
This pool dive will not be saved to the dive log.	The watch is in pool dive mode.	The watch will not save the current dive to the dive log.
Watch rebooted. Evaluate dive conditions.	The watch rebooted during the dive.	The watch simulates the dive for the time it was rebooting. Since other alerts may not have been triggered, evaluate your current depth and dive conditions.

## **Dive Terminology**

**Central nervous system (CNS)**: A measure of central nervous system oxygen toxicity caused by exposure to increased partial pressure of oxygen (PO2) while diving.

**Closed-circuit rebreather (CCR)**: A diving mode used for dives performed with a rebreather that recirculates exhaled gas and removes carbon dioxide.

**Maximum operating depth (MOD)**: The greatest depth at which a breathing gas can be used before the partial pressure of oxygen (PO2) exceeds the safe limit.

No decompression limit (NDL): A dive that does not require decompression time while ascending to the surface.

Oxygen toxicity units (OTU): A measure of pulmonary oxygen toxicity caused by exposure to increased partial pressure of oxygen (PO2) while diving. One OTU is equivalent to breathing 100% oxygen at 1 ATM for 1 minute

**Partial pressure of oxygen (P02)**: The pressure of the oxygen in the breathing gas, based on depth and oxygen percentage.

Surface interval (SI): The amount of time that has elapsed since the completion of the last dive.

**Time to surface (TTS)**: The estimated amount of time it will take to ascend to the surface, including decompression stops.

# **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 29). When you finish your activities, you can save and share them with the Garmin Connect™ community.

You can also add Connect  $IQ^{\text{TM}}$  activities and apps to your watch using the Connect IQ app (Connect  $IQ^{\text{TM}}$  Features, page 54).

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 **START**.
- 2 Select an option:
  - Select an activity from your favorites.
  - Select , and select an activity from the extended activity list.
- 3 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).

4 Press **START** 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 10).
- Press LAP 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 111).

## **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.

## **Playing Audio Prompts During an Activity**

You can enable your Descent<sup>™</sup> watch to play motivational status announcements during a run or other activity. Audio prompts play on your connected Bluetooth<sup>®</sup> headphones, if available. Otherwise, audio prompts play on your phone paired through the Garmin Connect<sup>™</sup> app. During an audio prompt, the watch or phone mutes the primary audio to play the announcement.

NOTE: This feature is not available for all activities.

- 1 Hold MENU.
- 2 Select Audio Prompts.
- 3 Select an option:
  - To hear a prompt for each lap, select Lap Alert.
  - To customize prompts with your pace and speed information, select Pace/Speed Alert.
  - To customize prompts with your heart rate information, select Heart Rate Alert.
  - To customize prompts with power data, select **Power Alert**.
  - To hear prompts when you start and stop the activity timer, including the Auto Pause® feature, select **Timer Events**.
  - To hear workout alerts play as an audio prompt, select Workout Alerts.
  - To hear activity alerts play as an audio prompt, select **Activity Alerts** (Activity Alerts, page 101).
  - To hear a sound play right before an audio alert or prompt, select **Audio Tones**.
  - To change the language or the dialect of the voice prompts, select Dialect.

## **Using the Metronome**

The metronome feature plays tones at a steady rhythm to help you improve your performance by training at a faster, slower, or more consistent cadence.

This feature is not available for all activities.

- 1 From the watch face, press **START**.
- 2 Select an activity.
- 3 Hold MENU.
- 4 Select the activity settings.
- 5 Select Metronome > Status > On.
- 6 Select an option:
  - Select **Beats / Minute** to enter a value based on the cadence you want to maintain.
  - Select **Alert Frequency** to customize the frequency of the beats.
  - Select **Sounds** to customize the metronome tone and vibration.
- 7 If necessary, select **Preview** to listen to the metronome feature before you run.
- **8** Go for a run (Starting an Activity, page 27).

The metronome starts automatically.

- **9** During your run, press **UP** or **DOWN** to view the metronome screen.
- 10 If necessary, hold **MENU** to change the metronome settings.

## **Stopping an Activity**

- 1 Press STOP.
- 2 Select an option:
  - To resume your activity, select **Resume**.
  - To save the activity and view the details, select **Save**, press **START**, and select an option.

NOTE: After you save the activity, you can enter self-evaluation data (Evaluating an Activity, page 28).

- 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 > Route.

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, select Discard.

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

# **Evaluating an Activity**

Before you can evaluate an activity, you must enable the self-evaluation setting on your Descent™ watch (*Enabling Self Evaluation*, page 87).

NOTE: This feature is not available for all activities.

- 1 After you complete an activity, select **Save** (Stopping an Activity, page 28).
- 2 Select a number that corresponds with your perceived effort.

You can select >> to skip the self evaluation.

3 Select how you felt during the activity.

You can view evaluations in the Garmin Connect™ app.

# Adding or Removing a Favorite Activity

The list of your favorite activities appears when you press **START** from the watch face, and it provides quick access to the activities you use most frequently. 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**.

# **Creating a Custom Activity**

- 1 From the watch face, press START.
- 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 **Yes** 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 99).

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.

## 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 **START**.
- 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 **START** to start the activity timer.
- **6** After you complete your activity, press **STOP**, 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 2.4 km (1.5 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 27).
- 2 Run on the treadmill until your watch records at least 2.4 km (1.5 mi.).
- **3** After you finish the activity, press **STOP** 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 > Yes.
- 5 Check the treadmill display for the distance traveled, and enter the distance on your watch.

#### **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 **START**.
- 2 Select Strength.
- 3 Select a workout.
- 4 Press **DOWN** to view a list of workout steps (optional).

**TIP:** While viewing workout steps, you can press START and then press DOWN to view an animation of the selected exercise, if available.

- 5 When you have finished viewing the workout steps, press START, and select Do Workout.
- 6 Press START, and select Start Workout.
- 7 Start your first set.

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

**TIP:** The watch 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.

**8** Press **LAP** to finish the set and move to the next exercise, if available.

The watch displays the total reps for the set.

9 If necessary, press **UP** or **DOWN** to edit the number of reps.

**TIP:** You can also add the weight used for the set.

- 10 If necessary, press LAP when you are done resting to start your next set.
- 11 Repeat for each strength training set until your activity is complete.
- 12 After your last set, press START, and select Stop Workout.
- 13 Select Save.

## **Using an Indoor Trainer**

Before you can use a compatible indoor trainer, you must pair the trainer with your watch using ANT+® technology (*Pairing Your Wireless Sensors*, page 115).

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 **START**.
- 2 Select Bike Indoor.
- 3 Hold MENU
- 4 Select Smart Trainer Options.
- **5** Select an option:
  - Select **Free Ride** to go for a ride.
  - Select **Follow Workout** to follow a saved workout (*Workouts*, page 80).
  - Select **Follow Course** to follow a saved course (*Courses*, page 91).
  - 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 **START** to start the activity timer.

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

## **Outdoor Activities**

The Descent<sup>™</sup> device comes preloaded with outdoor activities, such as running and cycling. GPS is turned on for outdoor activities. You can add new activities based on default activities, such as walking or rowing. You can also add custom activities to your device (*Creating a Custom Activity*, page 29).

## **Viewing Tide Information**

#### **⚠ WARNING**

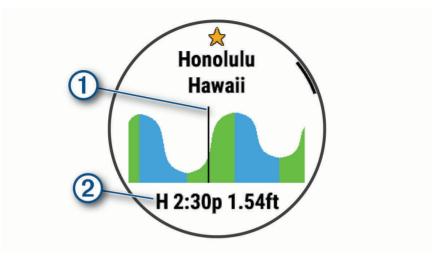
Tide information is for information purposes only. It is your responsibility to heed all posted water-related guidance, to remain aware of your surroundings, and to use safe judgment in, on, and around the water at all times. Failure to heed this warning could result in serious personal injury or death.

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 **START**.

- 2 Select Tides.
- 3 Select an option:
  - To use your current location when you are near a tide station, select Search > Current Location.
  - To select a location on the map, select **Search** > **Use Map**.
  - To enter the name of a city, select Search > City Search.
  - To select a saved location, select **Search** > **Saved Locations**.
  - To enter coordinates for a location, select **Search** > **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.
- **5** Press **START**, and select **Star Location** to save the tide station (optional).

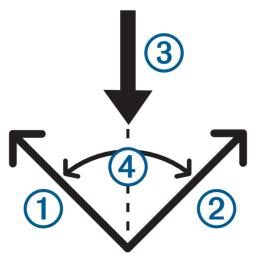
## Sailing

#### **Tack Assist**

## **△** CAUTION

The watch uses GPS-based course over ground to determine your course in the tack assist feature, and does not account for other factors that can affect your boat's direction, such as currents and tides. You are responsible for the safe and prudent operation of your vessel.

While cruising or racing into the wind, the tack assist feature can help you determine if your boat is being lifted or headed. When you calibrate tack assist, the watch captures your boat's port ① and starboard ② course over ground (COG) measurements, and uses the COG data to calculate the mean true wind direction ③ and the boat's tack angle ④.



The watch uses this data to determine whether your boat is being lifted or headed due to wind shifts.

By default, the tack assist feature is set to automatic. Each time you calibrate the port or starboard COG, the watch recalibrates the opposite side and true wind direction. You can change the tack assist settings to enter a fixed tack angle or true wind direction.

#### **Calibrating the Tack Assist**

- 1 From the watch face, select START.
- 2 Select Sail Race or Sail.
- 3 Select UP or DOWN to view the tack assist screen.

**NOTE:** You may need to add the tack assist screen to the data screens for the activity (*Customizing the Data Screens*, page 100).

- 4 Select START
- 5 Select an option:
  - To calibrate the starboard side, select START.
  - To calibrate the port side, select **DOWN**.

**TIP:** If the wind is coming from the starboard side of the vessel, you should calibrate starboard. If the wind is coming from the port side of the vessel, you should calibrate port.

6 Wait while the device calibrates the tack assist.

An arrow appears and indicates if your boat is being lifted or headed.

#### **Entering a True Wind Direction**

- 1 From the watch face, press **START**.
- 2 Select Sail Race or Sail.
- 3 Press **UP** or **DOWN** to view the tack assist screen.
- 4 Hold MENU.
- 5 Select True Wind Direction > Fixed.
- 6 Press UP or DOWN to set the value.

#### **Tips for Getting the Best Lift Estimate**

To get the best lift estimate when using the tack assist feature, you can try these tips. See and for more information.

- Enter a fixed tack angle, and calibrate the port side.
- Enter a fixed tack angle, and calibrate the starboard side.
- Use the Auto tack angle setting, and calibrate both the port and starboard side.

#### Sail Racing

You can use the device to help you cross the start line of a race exactly when the race begins. When you synchronize the regatta timer in the sail racing app with the official race countdown timer, you are alerted at one-minute intervals as the race start approaches. When you set the starting line, the device uses GPS data to indicate whether your boat will cross the start line before, after, or at the correct time to start the race.

#### Setting the Starting Line

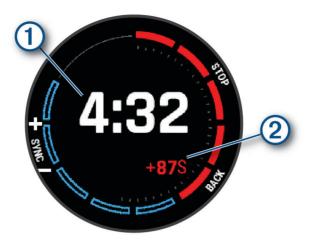
- 1 From the watch face, select START > Sail Race.
- 2 Wait while the device locates satellites.
- 3 Hold MENU.
- 4 Select Ping Start Line.
- 5 Select Mark Port to mark the port starting line mark as you sail past it.
- 6 Select Mark Starboard to mark the starboard starting line mark as you sail past it.

#### Starting a Race

Before you can view the time to burn, you must set the starting line.

- 1 From the watch face, press **START**.
- 2 Select Sail Race.
- 3 Wait while the watch locates satellites.

The screen displays the regatta timer 1 and time to burn 2.



- 4 If necessary, hold **MENU**, and select an option:
  - To set a fixed timer, select **Regatta Time** > **Fixed**, and enter a length of time.
  - To set a start time within the next 24 hours, select **Regatta Time > GPS**, and enter a time of day.
- 5 Press START.
- 6 Press **UP** and **DOWN** to synchronize the regatta timer with the official race countdown.

**NOTE:** When the burn time is negative, you will arrive at the start line after the race starts. When the burn time is positive, you will arrive at the start line before the race starts.

7 Press **START** to start the activity timer.

#### **Setting the Sailing Units**

- 1 From the watch face, select START > Sail Race.
- 2 Hold MENU.
- 3 Select the activity settings.
- 4 Select Nautical Units.
- 5 Select an option:
  - To use nautical units for speed and distance, select On.
  - To use the system units of measure for speed and distance, select Use Sys. Settings.

## 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 **START**.
- 3 Select Track Run.
- 4 Wait while the device locates satellites.
- 5 If you are running in lane 1, skip to step 11.
- 6 Hold 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 **START** to start the activity timer.
- 12 Run around the track.
  - After you run a couple of laps, your device records the track dimensions and calibrates your track distance.
- **13** After you complete your run, press **STOP** to stop the activity timer.
- 14 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.

## **Recording an Obstacle Racing Activity**

When you participate in an obstacle course race, you can use the Obstacle Racing activity to record your time on each obstacle and your time running between obstacles.

- 1 From the watch face, press **START**.
- 2 Select Obstacle Racing
- **3** Press **START** to start the activity timer.
- 4 Press LAP to manually mark the beginning and end of each obstacle.

**NOTE:** You can configure the Obstacle Tracking setting to save obstacle locations from your first loop of the course. On repeat loops of the course, the watch uses the saved locations to switch between obstacle and running intervals.

**5** After you complete your activity, press **STOP**, and select **Save**.

## **Recording an Ultra Run Activity**

- 1 From the watch face, press **START**.
- Select Ultra Run.
- 3 Press **START** to start the activity timer.
- 4 Start running.
- 5 Press LAP to record a lap and start the rest timer.

**NOTE:** You can configure the Lap Key setting to record a lap and start the rest timer, start the rest timer only, or record a lap only (*Activities and App Settings*, page 99).

- 6 When you are done resting, press LAP to resume running.
- 7 Press UP or DOWN to view additional data pages (optional).
- 8 After you complete your activity, press STOP, and select Save.

## 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 when you start moving down hill.

- 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 or Snowboarding Activity

The backcountry skiing or snowboarding activity lets you switch between climbing and descending tracking modes so you can accurately track your statistics. You can customize the Mode Tracking setting to automatically or manually switch tracking modes (*Activities and App Settings*, page 99).

- 1 From the watch face, press **START**.
- 2 Select Backcountry Ski or Backcountry Snowboard.
- 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 **START** to start the activity timer.
- 5 If necessary, press LAP to switch between climbing and descending tracking modes.
- 6 After you complete your activity, press STOP, and select Save.

## **Cross-Country Skiing Power Data**

**NOTE:** The HRM-Pro<sup>™</sup> series accessory must be paired to the Descent<sup>™</sup> watch using ANT+<sup>®</sup> technology.

You can use your compatible Descent watch paired with the HRM-Pro series accessory to provide real-time feedback about your cross-country skiing performance. The power output is measured in watts. Factors that affect power include your speed, elevation changes, wind, and snow conditions. You can use power output to measure and improve your skiing performance.

**NOTE:** Skiing power values are generally lower than cycling power values. This is normal and occurs because humans are less efficient at skiing than they are at cycling. It is common for ski power values to be 30 to 40 percent lower than cycling power values at the same training intensity.

## **Going Fishing**

- 1 From the watch face, press **START**.
- 2 Select Fish.
- 3 Press START > Start Fish.
- 4 Press START, 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 99).
- 5 After you complete your activity, press STOP, and select End Fish.

## **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.

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

# 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 **START**.
- 2 Select Triathlon.
- 3 Press START to start the activity timer.
- **4** Press **LAP** 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 LAP to change sports.

**5** After you complete your activity, press **STOP**, and select **Save**.

## **Creating a Multisport Activity**

- 1 From the watch face, press **START**.
- 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 Yes to add the activity to your list of favorites.

## **Swimming**

**NOTE:** The watch has wrist-based heart rate enabled for swim activities. The watch is also compatible with the HRM-Pro<sup>™</sup> series, HRM-Swim<sup>™</sup>, and HRM-Tri<sup>™</sup> accessories. If both wrist-based heart rate and chest heart rate data are available, your watch uses the chest heart rate data.

## **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 watch 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.

**Critical swim speed (CSS)**: Your CSS is the theoretical speed that you can maintain continuously without exhaustion. You can use your CSS to guide your training pace and monitor your improvement.

## **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<sup>™</sup> account. You can also select stroke type as a custom data field (*Customizing the Data Screens*, page 100).

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 37)

## **Tips for Swimming Activities**

- Press LAP 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 **LAP** to record a rest during pool swimming (*Auto Rest and Manual Rest*, page 36).

The watch automatically records swim intervals and lengths for pool swimming.

- To help the watch 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 37).

## **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 99).

**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 LAP.

# 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 LAP to start the drill timer.
- 3 After you complete a drill interval, press LAP.

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 LAP.
  - To start a swim interval, press **UP** or **DOWN** to return to the swim training screens.

## **Turning Off Wrist-based Heart Rate While Swimming**

Wrist-based heart rate is turned on by default for swim activities. The device is also compatible with the HRM-Pro™ accessory and the HRM-Swim™ accessory. If both wrist-based heart rate and chest heart rate data are available, your device uses the chest heart rate data.

- 1 From the heart rate widget, hold MENU.
  - **NOTE:** You may need to add the widget to your widget loop (*Customizing the Widget Loop*, page 106).
- 2 Select Heart Rate Options > While Swimming > Off.

# **Golfing**

## **Playing Golf**

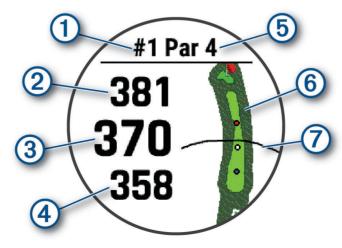
Before you play golf, you should charge the device (Charging the Watch, page 10).

- 1 From the watch face, press **START**.
- 2 Select Golf.
- 3 Go outside, and wait while the device locates satellites.
- 4 Select a course from the list of available courses.
- 5 If necessary, set your driver distance.
- 6 Select Yes to keep score.
- 7 Select a tee box.
- 8 After you complete your round, press **START**, and select **End Round**.

#### **Hole Information**

The device shows the current hole you are playing, and automatically transitions when you move to a new hole. **NOTE:** Because pin locations change, the device calculates the distance to the front, middle, and back of the

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



1	Current hole number	
2	Distance to the back of the green	
3	Distance to the middle of the green	
4	Distance to the front of the green	
5	Par for the hole	
6	Map of the green	
7	Driver distance from the tee box	

# **Big Numbers Mode**

You can change the size of the numbers on the hole information screen.

Hold MENU, select the activity settings, and select Big Numbers.



1	The distance to the back of the green	
2	The distance to the middle of the green or selected pin position	
3	The distance to the front of the green	
4	The current hole number	
5	The par for the current hole	

# **Measuring Distance with Button Targeting**

From the hole information screen, you can use the button targeting feature to measure the distance to a point on the map.

- 1 Press **UP** or **DOWN** to measure the distance to the target.

# **Changing Holes**

You can change holes manually from the hole view screen.

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

# **Changing the Green**

If you are playing a hole with more than one green, you can change the green.

- 1 While playing golf, press **START**.
- 2 Select Change Green.

3 Select a green.

## Moving the Flag

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

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

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.

## **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 START.
- 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

- 1 Take a shot and watch where your ball lands.
- 2 From the hole information screen, press START.
- 3 Select Measure Shot.
- 4 Press DOWN.
- 5 Select Add Shot > Yes.
- 6 Walk or drive to your ball.

### **Viewing Layup and Dogleg Distances**

You can view a list of layup and dogleg distances for par 4 and 5 holes. Custom targets also appear in this list.

- 1 From the hole information screen, press **START**.
- Select Layups.

Each layup and the distance until you reach each layup appear on the screen.

**NOTE:** Distances are removed from the list as you pass them.

#### **Saving Custom Targets**

While playing a round, you can save up to five custom targets for each hole. Saving a target is useful for recording objects or obstacles that are not shown on the map. You can view the distances to these targets from the layup and dogleg screen (*Viewing Layup and Dogleg Distances*, page 39).

1 Stand near the target you want to save.

**NOTE:** You cannot save a target that is far from the currently selected hole.

- 2 From the hole information screen, press **START**.
- 3 Select Custom Targets.
- 4 Select a target type.

## **Viewing Club Statistics**

Before you can view your club statistics, such as distance and accuracy information, you must either pair the device with Approach® CT10 golf club sensors (*Wireless Sensors*, page 114), or enable the Club Prompt setting (*Activities and App Settings*, page 99).

- 1 While playing golf, press **START**.
- 2 Select Club Stats.

3 Select a club.

## **Keeping Score**

- 1 From the hole information screen, press **START**.
- 2 Select Scorecard.

The scorecard appears when you are on the green.

- 3 Press **UP** or **DOWN** to scroll through the holes.
- 4 Press START to select a hole.
- 5 Press **UP** or **DOWN** to set the score.

Your total score is updated.

#### **Updating a Score**

- 1 From the hole information screen, press **START**.
- 2 Select Scorecard.
- 3 Press **UP** or **DOWN** to scroll through the holes.
- 4 Press START to select a hole.
- 5 Press UP or DOWN to change the score for that hole. Your total score is updated.

## **Setting the Scoring Method**

You can change the method the device uses to keep score.

- 1 From the hole information screen, hold MENU.
- 2 Select the activity settings.
- 3 Select Scoring Method.
- 4 Select a scoring method.

#### **About Stableford Scoring**

When you select the Stableford scoring method (Setting the Scoring Method, page 40), points are awarded based on the number of strokes taken relative to par. At the end of a round, the highest score wins. The device awards points as specified by the United States Golf Association.

The scorecard for a Stableford scored game shows points instead of strokes.

Points	Strokes Taken Relative to Par
0	2 or more over
1	1 over
2	Par
3	1 under
4	2 under
5	3 under

#### **Setting Your Handicap**

- 1 From the hole information screen, hold **MENU**.
- 2 Select the activity settings.
- 3 Select Handicap Scoring.
- 4 Select a handicap scoring option:
  - To enter the number of strokes to be subtracted from your total score, select Local Handicap.
  - To enter the player's handicap index and the course slope rating used to calculate your course handicap, select **Index/Slope**.
- 5 Set your handicap.

#### **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 40).

- 1 From the scorecard, select a hole.
- 2 Enter the total number of strokes taken, including putts, and press **START**.
- 3 Set the number of putts taken, and press START.

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.

## **TruSwing**

Your device is compatible with the TruSwing sensor. You can use the TruSwing app on your watch to view swing metrics recorded from your TruSwing sensor. See the owner's manual for your TruSwing sensor for more informationwww.garmin.com/manuals/truswing.

## **Using the Golf Odometer**

You can use the odometer to record the time, distance, and steps traveled. The odometer automatically starts and stops when you start or end a round.

- 1 From the hole information screen, press **START**.
- 2 Select Odometer.
- 3 If necessary, select **Reset** to reset the odometer to zero.

## Viewing PlaysLike Distance

The "plays like" distance feature accounts for elevation changes on the course by showing the adjusted distance to the green.

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

An icon appears next to each distance.

	Distance plays longer than expected due to a change in elevation.



Distance plays shorter than expected due to a change in elevation.

### Viewing the Direction to the Pin

The PinPointer feature is a compass that provides directional assistance when you are unable to see the green. This feature can help you line up a shot even if you are in the woods or in a deep sand trap.

**NOTE:** Do not use the PinPointer feature while in a golf cart. Interference from the golf cart can affect the accuracy of the compass.

- 1 From the hole information screen, press **START**.
- 2 Select PinPointer.

The arrow points to the pin location.

# **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 **START**.
- 2 Select Climb Indoor.
- 3 Select **Yes** 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 START.
- 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 LAP 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 LAP and begin your next route.
- 12 Repeat this process for each route until your activity is complete.
- 13 Press STOP.
- 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 **START**.
- 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 START to start the route timer.
- **6** Start your first route.
- 7 Press **LAP** 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 LAP to start your next route.
- 10 Repeat this process for each route until your activity is complete.
- 11 After your last route, press **STOP** 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 **START**.
- 2 Select Expedition.
- 3 Press **START** 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.

#### **Changing the Track Point Recording Interval**

During an expedition, GPS track points are recorded once an hour by default. You can change how often GPS track points are recorded. Recording track points less frequently maximizes battery life.

**NOTE:** To maximize battery life, GPS track points are not recorded after sunset. You can customize this option in the activity settings.

1 From the watch face, press **START**.

- 2 Select Expedition.
- 3 Hold MENU.
- 4 Select the activity settings.
- 5 Select Recording Interval.
- 6 Select an option.

# **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 **START**.
- 2 Select Add Point.

# **Viewing Track Points**

- 1 During an expedition, press **START**.
- 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**.

# **Applied Ballistics®**

#### **⚠ WARNING**

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

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

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

This feature provides the information you need to fire long-range projectiles, including elevation holdover, windage, and time of flight. It also includes custom drag models for your bullet type. Go to appliedballisticslic.com for more details about this feature. See the *Applied Ballistics® Glossary of Terms*, page 47 for descriptions of the terms and data fields.

**NOTE:** You may need to upgrade the ballistic solver in the Applied Ballistics Quantum<sup>™</sup> app to unlock all Applied Ballistics features (*Applied Ballistics Quantum* App, page 44).

# **Applied Ballistics Quantum™ App**

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

# **Applied Ballistics® Options**

From the watch face, press START, select Applied Ballistics, and press START.

**Quick Edit**: Allows you to quickly edit the range, direction of fire, and wind information (*Quickly Editing Shooting Conditions*, page 44).

Range Card: Allows you to view data for various ranges based on user input parameters. You can change fields (*Customizing the Range Card Fields*, page 45), edit the range increment (*Editing the Range Increment*, page 45), and set the base range (*Setting the Base Range*, page 45).

**Target Card**: Allows you to view range, elevation, and windage for ten targets based on user input parameters.

**Environment**: Allows you to customize atmospheric conditions for your current environment. You can enter custom values, use the pressure and latitude values from the internal sensor in the device, or use the temperature value from a connected tempe™ sensor (*Environment*, page 45).

**Target**: Allows you to customize long-range shooting conditions for your current target. You can change the selected target and customize conditions for up to ten targets (*Changing the Target*, page 45).

**Profile**: Allows you to customize gun properties (*Editing Gun Properties*, page 46), bullet properties (*Editing Bullet Properties*, page 46), and output units of measure for your current profile. You can change the selected profile (*Selecting a Different Profile*, page 46) and add additional profiles (*Adding a Profile*, page 46).

**Change Fields**: Allows you to customize the data fields on the profile data screen (*Customizing the Profile Data Screen*, page 46).

**Setup**: Allows you to select the units of measure and enable the windage and elevation solution options.

### **Quickly Editing Shooting Conditions**

You can edit the range, direction of fire, and wind information.

- 1 From the Applied Ballistics<sup>®</sup> app, press **START**.
- 2 Select Ouick Edit.
  - TIP: You can press DOWN or UP to edit each value, and press START to move to the next field.
- 3 Set the **RNG** value to the target distance.
- 4 Set the **DOF** value to your actual direction of fire (either manually or by using the compass).
- 5 Set the **W 1** value to the low wind speed.
- 6 Set the W 2 value to the high wind speed.

- 7 Set the **DIR** value to the direction the wind is coming from.
- 8 Press BACK to save your settings.

#### **Environment**

#### **Editing the Environment**

- 1 From the Applied Ballistics app, press START.
- 2 Select Environment.
- 3 Select an option to edit.

#### **Enabling Auto Update**

You can use the auto update feature to update the latitude and pressure values automatically. When connected to a tempe<sup>™</sup> sensor, the temperature value also updates. When connected to a weather meter, the wind speed, wind direction, and humidity values also update. The values update every five minutes.

- 1 From the Applied Ballistics<sup>®</sup> app, press **START**.
- 2 Select Environment > Auto Update > On.

## Range Card

#### **Customizing the Range Card Fields**

- 1 From the Applied Ballistics® app, press START.
- 2 Select Range Card.
  - **TIP:** You can press START to quickly view different data fields for the third column.
- 3 Hold START.
- 4 Select Change Fields.
- 5 Press START to scroll to a field.
- 6 Press **DOWN** or **UP** to change the field.
- 7 Press **BACK** to save your changes.

#### **Editing the Range Increment**

- 1 From the Applied Ballistics® app, press **START**.
- 2 Select Range Card.
- 3 Hold START.
- 4 Select Range Increment.
- 5 Enter a value.

#### **Setting the Base Range**

- 1 From the Applied Ballistics<sup>®</sup> app, press **START**.
- 2 Select Range Card.
- 3 Hold START.
- 4 Select Base Range.
- 5 Enter a value.

#### **Targets**

### **Editing the Target Card**

- 1 From the Applied Ballistics app, press **START**.
- 2 Select Target Card.
- 3 Select a target card.
- 4 Select an option to edit.

### **Changing the Target**

- 1 From the Applied Ballistics<sup>®</sup> app, press **START**.
- 2 Select Target.
- 3 Select a target.
- 4 Select Set as Current.

#### **Editing the Target**

- 1 From the Applied Ballistics app, press **START**.
- 2 Select Target.
- 3 Select a target.
- 4 Select an option to edit.

#### **Profile**

#### **Selecting a Different Profile**

- 1 From the Applied Ballistics app, press **START**.
- 2 Select Profile > Profile.
- 3 Select a profile.
- 4 Select Change Profile.

#### Adding a Profile

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

- 1 From the Applied Ballistics® app, press **START**.
- 2 Select Profile > Profile > + Profile.
- 3 Select an option:
  - To customize the bullet properties, select **Bullet Properties** (Editing Bullet Properties, page 46).
  - To customize the gun properties, select **Gun Properties** (Editing Gun Properties, page 46).
  - To change the units of measure for the output fields, select Output Units.

### **Deleting a Profile**

- 1 From the Applied Ballistics app, press **START**.
- 2 Select Profile > Profile.
- 3 Select a profile.
- 4 Select Delete Profile.

### **Customizing the Profile Data Screen**

- 1 During an Applied Ballistics activity, press **DOWN** to scroll to the profile data screen.
- 2 Press START.
- 3 Select Change Fields.
- 4 Press DOWN or UP to scroll to a field.
- 5 Press START to change the field.
- 6 Press **BACK** to save your changes.

#### **Editing Bullet Properties**

- 1 From the Applied Ballistics<sup>®</sup> app, press **START**.
- 2 Select Profile > Bullet Properties.
- 3 Select an option:
  - To automatically enter bullet properties from the Applied Ballistics bullet database, select Bullet
     Database, select your ballistic solver, and select the bullet caliber, manufacturer, bullet, and drag curve.
    - **NOTE:** You can select the caliber of your bullet to search a list of bullets within that caliber. Not all cartridge names match the actual bullet caliber. For example, a 300 Win Mag is a .308 caliber bullet.
  - To manually enter bullet properties if your bullet is not in the bullet database, press **DOWN** to scroll through the options, and select the values to edit.
    - NOTE: You can find this information on the bullet manufacturer's website.

#### **Editing Gun Properties**

- 1 From the Applied Ballistics app, press **START**.
- 2 Select Profile > Gun Properties.
- 3 Select an option to edit.

### **Calibrating the Muzzle Velocity**

Calibrating the muzzle velocity provides a more accurate solution in the supersonic range for your specific firearm.

- 1 From the Applied Ballistics app, press **START**.
- 2 Select Profile > Gun Properties > Calibrate Muzzle Velocity.
- 3 Select an option:
  - Select Range to edit the range.
  - Select True Drop to edit the drop distance.
- 4 Select ✓.

## **Calibrating the Drop Scale Factor**

Garmin® recommends you calibrate the muzzle velocity prior to the drop scale factor.

Calibrating the drop scale factor provides a more accurate solution at or beyond the transonic range for your specific firearm.

- 1 From the Applied Ballistics app, press START.
- 2 Select Profile > Gun Properties > Calibrate DSF.
- 3 Select an option:
  - Select Range to edit the range.
  - Select **True Drop** to edit the drop distance.
- 4 Select ✓.

### **Viewing the Drop Scale Factor Table**

The drop scale factor table is populated after you calibrate the drop scale factor. If necessary, you can reset the table values to zero.

- 1 From the Applied Ballistics® app, press START.
- 2 Select Profile > Gun Properties > View DSF Table.
- 3 If necessary, hold **MENU**, and select **Clear DSF Table**. The table values reset to zero.

#### **Editing the Muzzle Velocity and Temperature Table**

- 1 From the Applied Ballistics<sup>®</sup> app, press **START**.
- 2 Select Profile > Gun Properties > MV-Temp Table.
- 3 Hold MENU.
- 4 Select Edit.
- **5** Press **DOWN** or **UP** to scroll through the table.
- 6 Press START to edit a value.
- 7 Press **BACK** to save your changes.
- 8 Press BACK.
- 9 Select Muzzle Velocity > Enable MV-Temp to set the muzzle velocity using the temperature table.

#### Clearing the Muzzle Velocity and Temperature Table

- 1 From the Applied Ballistics<sup>®</sup> app, press **START**.
- 2 Select Profile > Gun Properties > MV-Temp Table.
- 3 Hold MENU.
- 4 Select Clear MV-Temp.

# **Applied Ballistics® Glossary of Terms**

### **Shooting Solution Fields**

**DOF**: The direction of fire, with north at 0 degrees and east at 90 degrees. Input field.

**TIP:** You can use the compass to set this value by pointing the top of the device toward the direction of fire. The current compass value appears in the DOF field. You can press START to use this value. You can manually enter a value by pressing DOWN or UP.

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

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

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

**W 1/2**: The wind speed 1, wind speed 2, and wind direction. For example, if the wind direction (DIR) is 9:00, the wind is blowing left to right as viewed by the shooter. Input field.

**NOTE**: The wind speed 2 field is optional. Using both wind speed 1 and wind speed 2 is not an effective way to account for different wind speeds at different distances between you and the target. Using these fields is a way to bracket (isolate) the wind values and calculate minimum and maximum windage values for the solution.

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

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

### **Additional Output Fields**

**Aero. Jump. Effect**: The amount of the elevation solution attributed to aerodynamic jump. Aerodynamic jump is the vertical deflection of the bullet due to a crosswind. Aerodynamic jump is calculated based on the wind speed 1 value. If there is no crosswind component or wind value, this value is zero.

Bullet Drop: The total drop the bullet experiences along its flight path, displayed in inches.

Cos. Incl. Ang.: The cosine of the inclination angle to the target.

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

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

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

**Max. Ord.**: The maximum ordinance. The maximum ordinance is the maximum height above the axis of the barrel that a bullet will reach along its flight path.

**Max. Ord. Range**: The range at which the bullet will reach its maximum ordinance.

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

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

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

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

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

**Velocity Mach**: The estimated velocity of the bullet when it impacts the target, displayed as a factor of mach speed.

#### **Environment Fields**

**Amb/Stn Pressure**: The ambient (station) pressure. Ambient pressure is not adjusted to represent sea level (barometric) pressure. Ambient pressure is required for the ballistics shooting solution. Input field.

**TIP:** You can manually enter this value, or you can select the Use Current Pressure option to use the pressure value from the internal sensor in the device.

**Humidity**: The percentage of moisture in the air. Input field.

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

TIP: You can select the Use Current Position option to use the GPS coordinates from your device.

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

**Temperature**: The temperature at your current location. Input field.

**TIP:** You can manually enter the temperature reading from a connected tempe<sup>™</sup> sensor or other temperature source. This field does not automatically update when connected to a tempe sensor.

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

Wind Speed 1: The wind speed used in the shooting solution. Input field.

Wind Speed 2: An optional, additional wind speed used in the shooting solution. Input field.

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

#### **Target Fields**

Direction of Fire: The direction of fire, with north at 0 degrees and east at 90 degrees. Input field.

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

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

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

**Speed**: The speed of a moving target, displayed in miles per hour (mph) or kilometers per hour (km/h). A negative value indicates a target moving left. A positive value indicates a target moving right. Input field.

#### **Profile Fields, Bullet Properties**

Ballistic Coefficient: The manufacturer's ballistic coefficient for your bullet. Input field.

**TIP:** When you use one of the Applied Ballistics custom drag curves, the ballistic coefficient will display a value of 1.000.

**Bullet Diameter**: The bullet diameter measured in inches. Input field.

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

Bullet Length: The length of the bullet measured in inches. Input field.

Bullet Weight: The bullet weight measured in grains. Input field.

Drag Curve: The Applied Ballistics custom drag curve, or the G1 or G7 standard projectile models. Input field.

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

## Profile Fields, Gun Properties

**Muzzle Velocity**: The speed of the bullet as it leaves the muzzle. Input field.

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

**Output Units**: The output units of measure. A milliradian (mil) is 3.438 inches at 100 yards. A minute of angle (MOA) is 1.047 inches at 100 yards.

Sight Height: The distance from the center axis of the rifle barrel to the center axis of the scope. Input field.

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

- **SSF Elevation**: A linear multiplier that accounts for vertical scaling. Not all rifle scopes track perfectly, so the ballistics solution requires a correction to scale according to a particular rifle scope. For example, if a turret is moved 10 mil but the impact is 9 mil, the sight scale is 0.9. Input field.
- **SSF Windage**: A linear multiplier that accounts for horizontal scaling. Not all rifle scopes track perfectly, so the ballistics solution requires a correction to scale according to a particular rifle scope. For example, if a turret is moved 10 mil but the impact is 9 mil, the sight scale is 0.9. Input field.
- **Twist Rate**: The distance it takes for the rifling of your barrel to make one full rotation. Rifle twist is often provided by the gun or barrel manufacturer. Input field.
- **Zero Height**: An optional modification to impact elevation at zero range. This is often used when adding a suppressor or using a subsonic load. For example, if you add a suppressor and your bullet impacts the target 1 inch higher than expected, your Zero Height is 1 inch. You must set this to zero when you remove the suppressor. Input field.
- **Zero Offset**: An optional modification to impact windage at zero range. This is often used when adding a suppressor or using a subsonic load. For example, if you add a suppressor and your bullet impacts the target 1 inch to the left of the expected impact, your Zero Offset is -1 inch. You must set this to zero when you remove the suppressor. Input field.

**Zero Range**: The range at which the rifle was zeroed. Input field.

### Profile Fields, Gun Properties, Calibrate Muzzle Velocity

**Range**: The distance from the muzzle to the target. Input field.

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

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

# Profile Fields, Gun Properties, Calibrate Drop Scale Factor

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

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

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

# **Connected Features**

Connected features are available for your Descent<sup>™</sup> watch when you connect it to a compatible phone using Bluetooth<sup>®</sup> technology and install the Garmin Connect<sup>™</sup> app on the connected phone. Go to www.garmin.com/apps for more information. Some features are also available when you connect your watch to a Wi-Fi<sup>®</sup> network.

Phone notifications: Displays phone notifications and messages on your Descent watch.

**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 Garmin Connect tracking page.

**GroupTrack**: Allows you to keep track of your connections using LiveTrack directly on screen and in real time.

**Activity uploads to Garmin Connect**: Automatically sends your activity to your Garmin Connect account as soon as you finish recording the activity.

Connect IQ™: Allows you to extend your watch features with new watch faces, widgets, apps, and data fields.

Software Updates: Allows you to update your watch software.

Weather: Allows you to view current weather conditions and weather forecasts.

Bluetooth sensors: Allows you to connect Bluetooth compatible sensors, such as a heart rate monitor.

**Find my phone**: Locates your lost phone that is paired with your Descent watch and currently within Bluetooth range.

**Find my device**: Locates your lost Descent watch that is paired with your phone and currently within Bluetooth range.

# **Enabling Bluetooth® Notifications**

Before you can enable notifications, you must pair the Descent<sup>™</sup> device with a compatible mobile device (*Pairing Your Smartphone*, page 9).

- 1 Hold **MENU**.
- 2 Select Phone > Smart Notifications > Status > On.
- 3 Select During Activity.
- 4 Select a notification preference.
- **5** Select a sound preference.
- 6 Select Not During Activity.
- 7 Select a notification preference.
- **8** Select a sound preference.
- 9 Select Privacy.
- 10 Select a privacy preference.
- 11 Select Timeout.
- 12 Select the amount of time the alert for a new notification appears on the screen.
- 13 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 widget.
- 2 Press START.
- 3 Select a notification.
- 4 Press START 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 Descent™ watch displays the name or phone number of the caller.

- To accept the call, select \u22bc.
  - **NOTE:** To talk to the caller, you must use your connected phone.
- To decline the call, select
- 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<sup>™</sup> phone using Bluetooth<sup>®</sup> technology.

# Replying to a Text Message

**NOTE:** This feature is available only for smartphones with Android™.

When you receive a text message notification on your Descent<sup>m</sup> device, you can send a quick reply by selecting from a list of messages. You can customize messages in the Garmin Connect<sup>m</sup> 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 widget.
- 2 Press START, and select a text message notification.
- 3 Press START.
- 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 Descent™ watch.

Select an option:

- If you are using an iPhone<sup>®</sup>, go to the iOS<sup>®</sup> notifications settings to select the items to show on the watch.
- If you are using an Android<sup>™</sup> phone, from the Garmin Connect<sup>™</sup> 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 106).

- 1 Hold **LIGHT** to view the controls menu.
- 2 Select **\csigma** to turn off the Bluetooth phone connection on your Descent<sup>™</sup> watch.

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

# **Turning On and Off Smartphone Connection Alerts**

You can set the Descent<sup>™</sup> device to alert you when your paired smartphone connects and disconnects using Bluetooth technology.

**NOTE:** Smartphone connection alerts are turned off by default.

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

# **Locating a Lost Mobile Device**

You can use this feature to help locate a lost mobile device that is paired using Bluetooth technology and currently within range.

NOTE: You can add options to the controls menu (Customizing the Controls Menu, page 106).

- 1 Hold LIGHT to view the controls menu.
- 2 Select 🐫

The Descent<sup>™</sup> device begins searching for your paired mobile device. An audible alert sounds on your mobile device, and the Bluetooth signal strength appears on the Descent device screen. The Bluetooth signal strength increases as you move closer to your mobile device.

3 Press BACK to stop searching.

# Wi-Fi® Connectivity Features

Activity uploads to your Garmin Connect<sup>™</sup> account: Automatically sends your activity to your Garmin Connect account as soon as you finish recording the activity.

**Audio content**: Allows you to sync audio content from third-party providers.

**Software updates**: You can download and install the latest software.

**Workouts and training plans**: You can browse for and select workouts and training plans on the Garmin Connect site. The next time your watch has a Wi-Fi connection, the files are sent to your watch.

# Connecting to a Wi-Fi® Network

You must connect your device to the Garmin Connect<sup>™</sup> app on your smartphone or to the Garmin Express<sup>™</sup> application on your computer before you can connect to a Wi-Fi network.

- 1 Hold MENU.
- 2 Select Wi-Fi > My Networks > Add Network. The device displays a list of nearby Wi-Fi networks.
- 3 Select a network.
- 4 If necessary, enter the password for the network.

The device connects to the network, and the network is added to the list of saved networks. The device reconnects to this network automatically when it is within range.

# **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 share links to your activities.

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 Smartphone*, page 9), 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 Smartphone Apps**

After you pair your device with your smartphone (*Pairing Your Smartphone*, page 9), you can use the Garmin Dive™ and Garmin Connect apps to update your device software.

Sync your device with one of the apps (Manually Syncing Data with Garmin Connect™, page 54).

When new software is available, the app automatically sends the update to your device.

#### Manually Syncing Data with Garmin Connect™

NOTE: You can add options to the controls menu (Customizing the Controls Menu, page 106).

- 1 Hold **LIGHT** to view the controls menu.
- 2 Select 🗘.

### **Using Garmin Connect™ on Your Computer**

The Garmin Express<sup>™</sup> 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 add music to your watch (*Downloading Personal Audio Content*, page 62). You can also install software updates and manage your Connect IQ<sup>™</sup> 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 54).

- 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, data fields, widgets, and music providers.

**NOTE:** For your safety, Connect IQ features are not available while diving. This ensures that all dive capabilities function as designed.

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

**Device Apps**: Add interactive features to your watch, such as 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.

Widgets: Provide information at a glance, including sensor data and notifications.

Music: Add music providers to your watch.

#### **Downloading Connect IQ™ Features**

Before you can download features from the Connect IQ app, you must pair your Descent™ watch with your phone (Pairing Your Smartphone, page 9).

- 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 Dive<sup>™</sup> App**

The Garmin Dive app allows you to upload your dive logs from your compatible Garmin® device. You can add more detailed information about your dives, including environmental conditions, photos, notes, and dive buddies. You can use the map to browse for new dive locations, and view the location details and photos shared by other users.

The Garmin Dive app syncs your data with your Garmin Connect<sup>™</sup> account. You can download the Garmin Dive app from the app store on your phone (garmin.com/diveapp).

# **Garmin Explore**™

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

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

## **Garmin Golf™ App**

The Garmin Golf app allows you to upload scorecards from your Descent<sup>™</sup> device to view detailed statistics and shot analyses. Golfers can compete with each other at different courses using the Garmin Golf app. More than 43,000 courses have leaderboards that anyone can join. You can set up a tournament event and invite players to compete. With a Garmin Golf membership, you can view green contour data on your phone and Descent device.

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

# **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<sup>™</sup> app does not contact emergency services on your behalf.

#### **NOTICE**

To use the safety and tracking features, the Descent<sup>™</sup> watch must be connected to the Garmin Connect app using Bluetooth<sup>®</sup> 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 Descent 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<sup>™</sup> phone.

**GroupTrack**: Allows you to keep track of your connections using LiveTrack directly on screen and in real time.

# **Adding Emergency Contacts**

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

- 1 From the Garmin Connect<sup>™</sup> app, select = or •••.
- 2 Select Safety & Tracking > Safety Features > Emergency Contacts > Add Emergency Contacts.
- 3 Follow the on-screen instructions.

Your emergency contacts receive a notification when you add them as an emergency contact, and can accept or decline your request. If a contact declines, you must choose another emergency contact.

# **Adding Contacts**

You can add up to 50 contacts to the Garmin Connect<sup>™</sup> app. Contact emails can be used with the LiveTrack feature. Three of these contacts can be used as emergency contacts (Adding Emergency Contacts, page 56).

- 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 Descent<sup>™</sup> device (*Manually Syncing Data with Garmin Connect* , page 54).

# **Turning Incident Detection On and Off**

#### **↑** CAUTION

Incident detection is a supplemental feature available only for certain outdoor activities. Incident detection 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**

Before you can enable incident detection on your watch, you must set up emergency contacts in the Garmin Connect app (*Adding Emergency Contacts*, page 56). Your paired phone must be equipped with a data plan and be in an area of network coverage where data is available. 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 & Tracking > Incident Detection.
- 3 Select a GPS activity.

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

When an incident is detected by your Descent™ watch and your phone is connected, the Garmin Connect app can send an automated text message and email with your name and GPS location (if available) to your emergency contacts. A message appears on your device and paired phone indicating your contacts will be informed after 15 seconds have elapsed. If assistance is not needed, you can cancel the automated emergency message.

# **Requesting Assistance**

#### **↑** CAUTION

Assistance is a supplemental feature and should not be relied upon as a primary method to obtain emergency assistance. The Garmin Connect<sup>™</sup> app does not contact emergency services on your behalf.

#### **NOTICE**

Before you can request assistance, you must set up emergency contacts in the Garmin Connect app (*Adding Emergency Contacts*, page 56). Your paired phone must be equipped with a data plan and be in an area of network coverage where data is available. Your emergency contacts must be able to receive emails or text messages (standard text messaging rates may apply).

- 1 Hold LIGHT.
- 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.

# Starting a GroupTrack Session

#### **NOTICE**

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 start a GroupTrack session, you must pair the watch with a compatible phone (*Pairing Your Smartphone*, page 9).

These instructions are for starting a GroupTrack session with a Descent<sup>™</sup> watch. If your connections have other compatible devices, you can see them on the map. The other devices may not be able to display GroupTrack riders on the map.

- 1 On the Descent watch, hold **MENU**, and select **Safety & Tracking > GroupTrack > Show on Map** to enable viewing connections on the map screen.
- 2 In the Garmin Connect<sup>™</sup> app, from the settings menu, select **Safety & Tracking > LiveTrack > : > Settings > GroupTrack**.
- 3 Select All Connections or Invite Only and select your connections.
- 4 Select Start LiveTrack.
- **5** On the watch, start an outdoor activity.
- 6 Scroll to the map to view your connections.

**TIP:** From the map, you can hold **MENU** and select **Nearby Connections** to view distance, direction, and pace or speed information for other connections in the GroupTrack session.

#### Tips for GroupTrack Sessions

The GroupTrack feature allows you to keep track of other connections in your group using LiveTrack directly on the screen. All members of the group must be your connections in your Garmin Connect<sup>™</sup> account.

- Start your activity outside using GPS.
- Pair your Descent<sup>™</sup> device with your smartphone using Bluetooth<sup>®</sup> technology.
- In the Garmin Connect app, from the settings menu, select **Connections** to update the list of connections for your GroupTrack session.
- Make sure all of your connections pair to their smartphones and start a LiveTrack session in the Garmin Connect app.
- Make sure all your connections are in range (40 km or 25 mi.).
- During a GroupTrack session, scroll to the map to view your connections (Adding a Map to an Activity, page 101).

# **GroupTrack Settings**

Hold MENU, and select Safety & Tracking > GroupTrack.

Show on Map: Enables you to view connections on the map screen during a GroupTrack session. Activity Types: Allows you to select which activity types appear on the map screen during a GroupTrack session.

# 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.

# **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<sup>™</sup> 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 LIGHT.
- 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<sup>™</sup> 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.

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

- 1 From the Garmin Connect<sup>™</sup> 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 Descent™ watch.
  - To delete the card, select \( \bar{\pi} \).

# **Changing Your Garmin Pay**<sup>™</sup> **Passcode**

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

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



# Music

You can download audio content to your device, so you can listen when your smartphone is not nearby. The Garmin Connect™ app and Garmin Express™ application allow you to download audio content from a third-party provider or your computer.

You can use the music controls to control music playback on your smartphone or to play music stored on your device. To listen to audio content stored on your device, you must connect headphones with Bluetooth® technology.

# **Connecting to a Third-Party Provider**

Before you can download music or other audio files to your compatible watch from a supported third-party provider, you must connect to the provider using the Garmin Connect™ app.

- 1 From the Garmin Connect app, select **a** or •••.
- 2 Select Garmin Devices, and select your watch.
- 3 Select Music > Music Providers.
- 4 Select an option:
  - To connect to an installed provider, select a provider, and follow the on-screen instructions.
  - To connect to a new provider, select Get Music Apps, locate a provider, and follow the on-screen instructions.

## **Downloading Audio Content from a Third-Party Provider**

Before you can download audio content from a third-party provider, you must connect to a Wi-Fi® network (*Connecting to a Wi-Fi® Network*, page 53).

- 1 Hold **DOWN** from any screen to open the music controls.
- 2 Hold MENU.
- 3 Select Music Providers.
- 4 Select a connected provider.
- 5 Select a playlist or other item to download to the watch.
- 6 If necessary, press **BACK** until you are prompted to sync with the service.

**NOTE:** Downloading audio content can drain the battery. You may be required to connect the watch to an external power source if the battery is low.

# **Downloading Audio Content from Spotify®**

Before you can download audio content from Spotify, you must connect to a Wi-Fi<sup>®</sup> network (*Connecting to a Wi-Fi*<sup>®</sup> *Network*, page 53).

- 1 Hold **DOWN** from any screen to open the music controls.
- 2 Hold MENU.
- 3 Select Music Providers > Spotify.
- 4 Select Add music & podcasts.
- 5 Select a playlist or other item to download to the device.

**NOTE:** Downloading audio content can drain the battery. You may need to connect the device to an external power source if the remaining battery life is insufficient.

The selected playlists and other items are downloaded to the device.

## **Changing the Music Provider**

- 1 Hold **DOWN** from any screen to open the music controls.
- 2 Hold MENU.
- 3 Select Music Providers.
- 4 Select a connected provider.

# **Disconnecting from a Third-Party Provider**

- 1 From the Garmin Connect<sup>™</sup> app, select or •••.
- 2 Select Garmin Devices, and select your watch.
- 3 Select Music.

**4** Select an installed third-party provider, and follow the on-screen instructions to disconnect the third-party provider from your watch.

# **Downloading Personal Audio Content**

Before you can send your personal music to your watch, you must install the Garmin Express™ application on your computer (garmin.com/express).

You can load your personal audio files, such as .mp3 and .m4a files, to a Descent™ watch from your computer. For more information, go to garmin.com/musicfiles.

- 1 Connect the watch to your computer using the included USB cable.
- 2 On your computer, open the Garmin Express application, select your watch, and select Music.
  - **TIP:** For Windows® computers, you can select and browse to the folder with your audio files. For Apple® computers, the Garmin Express application uses your iTunes® library.
- 3 In the My Music or iTunes Library list, select an audio file category, such as songs or playlists.
- 4 Select the checkboxes for the audio files, and select **Send to Device**.
- 5 If necessary, in the Descent list, select a category, select the checkboxes, and select **Remove From Device** to remove audio files.

# **Listening to Music**

- 1 Hold **DOWN** from any screen to open the music controls.
- 2 If necessary, connect your Bluetooth® headphones (Connecting Bluetooth® Headphones, page 62).
- 3 Hold MENU.
- 4 Select Music Providers, and select an option:
  - To listen to music downloaded to the watch from your computer, select My Music (Downloading Personal Audio Content, page 62).
  - To control music playback on your phone, select Control Phone.
  - To listen to music from a third-party provider, select the name of the provider, and select a playlist.
- 5 Select ▶.

# **Music Playback Controls**

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

:	Select to view more music playback controls.		
F	Select to browse the audio files and playlists for the selected source.		
<b>4</b> )	Select to adjust the volume.		
	Select to play and pause the current audio file.		
<b>▶</b>	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.			
C	Select to change the repeat mode.		
<b>&gt;</b>	Select to change the shuffle mode.		

# **Connecting Bluetooth® Headphones**

To listen to music loaded onto your Descent™ watch, you must connect Bluetooth headphones.

- 1 Bring the headphones within 2 m (6.6 ft.) of your watch.
- 2 Enable pairing mode on the headphones.
- 3 Hold MENU.
- 4 Select Music > Headphones > Add New.
- **5** Select your headphones to complete the pairing process.

# **Changing the Audio Mode**

You can change the music playback mode from stereo to mono.

- 1 Hold MENU.
- 2 Select Music > Audio.
- 3 Select an option.

# **Heart Rate Features**

The Descent™ device has a wrist-based heart rate monitor and is also compatible with chest heart rate monitors (sold separately). You can view heart rate data on the heart rate widget. If both wrist-based heart rate and chest heart rate data are available when you start an activity, your device uses the chest heart rate data.

### **Wrist-based Heart Rate**

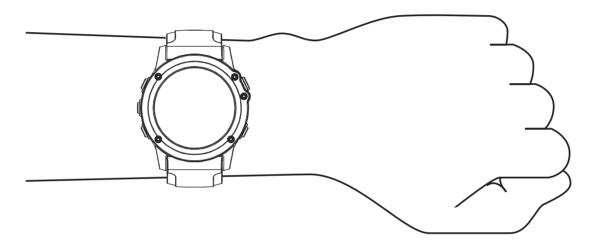
# Wearing the Watch

## **↑** 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:** While diving, the watch should stay in contact with your skin, and it should not bump into other wrist-worn devices.

**NOTE:** The optical sensor is located on the back of the watch.

- See Tips for Erratic Heart Rate Data, page 64 for more information about wrist-based heart rate.
- See Tips for Erratic Pulse Oximeter Data, page 76 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 vicon 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.

#### **Viewing the Heart Rate Widget**

- 1 From the watch face, press UP or DOWN to view the heart rate widget.NOTE: You may need to add the widget to your widget loop (*Customizing the Widget Loop*, page 106).
- 2 Press **START** to view your current heart rate in beats per minute (bpm) and a graph of your heart rate for the last 4 hours.

3 Press **DOWN** to view your average resting heart rate values for the last 7 days.

## **Broadcasting Heart Rate Data**

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

**NOTE:** Broadcasting heart rate data decreases battery life.

- 1 From the heart rate widget, hold MENU.
- 2 Select Heart Rate Options > Broadcast Heart Rate.
- 3 Press START

The watch starts broadcasting your heart rate data, and ♥ appears.

4 Pair your watch with your compatible device.

**NOTE:** The pairing instructions differ for each Garmin® compatible device. See your owner's manual.

**TIP:** To stop broadcasting your heart rate data, press STOP from the broadcast heart rate screen.

# **Broadcasting Heart Rate Data During an Activity**

You can set up your Descent™ watch to broadcast your heart rate data automatically when you begin an activity. For example, you can broadcast your heart rate data to an Edge® bike computer while cycling.

**NOTE:** Broadcasting heart rate data decreases battery life.

Broadcasting heart rate data is not available for dive activities.

- 1 From the heart rate widget, hold MENU.
- 2 Select Heart Rate Options > Broadcast During Activity.
- 3 Begin an activity (Starting an Activity, page 27).

The Descent watch starts broadcasting your heart rate data in the background.

**NOTE:** There is no indication that the device is broadcasting your heart rate data during an activity.

4 Pair your watch with your compatible device.

**NOTE:** The pairing instructions differ for each Garmin® compatible device. See your owner's manual.

TIP: To stop broadcasting your heart rate data, stop the activity (Stopping an Activity, page 28).

# **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 when your heart rate drops below the selected threshold during your chosen sleep window configured in the Garmin Connect™ app. 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 From the heart rate widget, hold **MENU**.
- 2 Select Heart Rate Options > 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 device vibrates.

### **Turning Off the Wrist-based Heart Rate Monitor**

The default value for the Wrist Heart Rate setting is Auto. The watch automatically uses the wrist-based heart rate monitor unless you pair a compatible heart rate monitor with ANT+® or Bluetooth® technology to the watch.

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

- 1 From the heart rate widget, hold MENU.
- 2 Select Heart Rate Options > Status > Off.

#### **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<sup>™</sup>. 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 66).

**Predicted race times**: The 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 68).

**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 70).

**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 71).

**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 70).

## **Turning Off Performance Notifications**

Some performance notifications appear upon completion of your activity. Some performance notifications appear during an activity or when you achieve a new performance measurement, such as a new VO2 max. estimate. You can turn off the performance condition feature to avoid some of these notifications.

- Hold MENU.
- 2 Select Physiological Metrics > Perf. Condition.

# **Detecting Performance Measurements Automatically**

The Auto Detection feature is turned on by default. The device can automatically detect your maximum heart rate and lactate threshold during an activity. When paired with a compatible power meter, the device can automatically detect your functional threshold power (FTP) during an activity.

- Hold MENU.
- 2 Select Physiological Metrics > Auto Detection.
- 3 Select an option.

## **Unified Training Status**

When you use more than one Garmin® device with your Garmin Connect™ account, you can choose which device is the primary data source for everyday use and for training purposes.

From the Garmin Connect app, select ••• > Settings.

**Primary Training Device**: Sets the priority data source for training metrics like your training status and load focus.

**Primary Wearable**: Sets the priority data source for daily health metrics like steps and sleep. This should be the watch you wear most often.

TIP: For the most accurate results, Garmin recommends that you sync often with your Garmin Connect account.

#### **Syncing Activities and Performance Measurements**

You can sync activities and performance measurements from other Garmin® devices to your Descent™ 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® bike computer, and view your activity details and overall training load on your Descent watch.

Sync your Descent watch and other Garmin devices to your Garmin Connect account.

**TIP:** You can set a primary training device and primary wearable in the Garmin Connect app (*Unified Training Status*, page 66).

Recent activities and performance measurements from your other Garmin devices appear on your Descent watch.

### **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 athletic performance and should increase as your level of fitness improves. The Descent™ device requires wrist-based heart rate or a

compatible chest heart rate monitor to display your VO2 max. estimate. The device 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 device, your VO2 max. estimate appears as a number, description, and position on the color gauge. On your Garmin Connect™ account, you can view additional details about your VO2 max. estimate, such as where it ranks for your age and sex.



Purple	Superior
Blue	Excellent
Green	Good
Orange	Fair
Red	Poor

VO2 max. data is provided by Firstbeat Analytics<sup>™</sup>. VO2 max. analysis is provided with permission from The Cooper Institute<sup>®</sup>. For more information, see the appendix (*VO2 Max. Standard Ratings*, page 132), 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 115).

For the most accurate estimate, complete the user profile setup (Setting Up Your User Profile, page 77), and set your maximum heart rate (Setting Your Heart Rate Zones, page 77). 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 (Turning Off VO2 Max. Recording, page 68).

- 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 115). 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 77) and set your maximum heart rate (*Setting Your Heart Rate Zones*, page 77). 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.

#### **Turning Off VO2 Max. Recording**

You can turn VO2 max. recording off for trail run or ultra run activities (About VO2 Max. Estimates, page 66).

- 1 Hold MENU.
- 2 Select Activities & Apps.
- 3 Select an activity.
- 4 Select the activity settings.
- 5 Select Record VO2 Max. > Off.

## **Viewing Your Fitness Age**

Your fitness age gives you an idea of how your fitness compares with a person of the same sex. 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 an Index<sup>™</sup> 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.

For the most accurate fitness age, complete the user profile setup (Setting Up Your User Profile, page 77).

- 1 From the Garmin Connect<sup>™</sup> app, select **=** or •••.
- 2 Select Health Stats > Fitness Age.

# **Viewing Your Predicted Race Times**

For the most accurate estimate, complete the user profile setup (Setting Up Your User Profile, page 77), and set your maximum heart rate (Setting Your Heart Rate Zones, page 77).

Your watch uses the VO2 max. estimate (*About VO2 Max. Estimates*, page 66) 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 specify your primary training device in the Garmin Connect™ app, which allows your watch to sync activities, history, and data from other devices (*Syncing Activities and Performance Measurements*, page 66).

- 1 From the watch face, press **UP** or **DOWN** to view the performance widget.
- 2 Press START to view widget details.
- 3 Press **UP** or **DOWN** to view your predicted race times.

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

# **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 73). Each feedback phrase, for example, "Highly Impacting VO2 Max." has a corresponding description in your Garmin Connect<sup>™</sup> 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 seconds) 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 Training Effect and Anaerobic Training Effect 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.

Training Effect	Aerobic Benefit	Anaerobic Benefit
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 Analytics™. For more information, go to firstbeat.com.

# **Heart Rate Variability Status**

Your watch analyzes your wrist heart rate readings while you are sleeping to determine your heart rate variability (HRV). Training, physical activity, sleep, nutrition, and healthy habits all impact your heart rate variability. HRV values can vary widely based on gender, age, and fitness level. A balanced HRV status may indicate positive signs of health such as good training and recovery balance, greater cardiovascular fitness, and resilience to stress. An unbalanced or poor status may be a sign of fatigue, greater recovery needs, or increased stress. For best results, you should wear the watch while sleeping. The watch requires three weeks of consistent sleep data to display your heart rate variability status.



Color Zone	Status	Description
Green	Balanced	Your seven-day average HRV is within your baseline range.
Orange	Unbalanced	Your seven-day average HRV is above or below your baseline range.
Red	Low	Your seven-day average HRV is well below your baseline range.
No color	Poor No status	Your HRV values are averaging well below the normal range for your age.  No status means that there is insufficient data to generate a seven-day average.

You can sync your watch with your Garmin Connect™ account to view your current heart rate variability status, trends, and educational feedback.

#### **Heart Rate Variability and Stress Level**

Stress level is the result of a three-minute test performed while standing still, where the Descent<sup>™</sup> device analyzes heart rate variability to determine your overall stress. Training, sleep, nutrition, and general life stress all impact how a runner performs. The stress level range is from 1 to 100, where 1 is a very low stress state and 100 is a very high stress state. Knowing your stress level can help you decide if your body is ready for a tough training run or yoga.

#### Viewing Your Heart Rate Variability and Stress Level

This feature requires a Garmin® chest heart rate monitor. Before you can view your heart rate variability (HRV) stress level, you must put on a heart rate monitor and pair it with your device (*Pairing Your Wireless Sensors*, page 115).

**TIP:** Garmin recommends that you measure your stress level at approximately the same time and under the same conditions every day.

- 1 If necessary, press START, and select Add > HRV Stress to add the stress app to the apps list.
- 2 Select **Yes** to add the app to your list of favorites.

- 3 From the watch face, press START, select HRV Stress, and press START.
- 4 Stand still, and rest for 3 minutes.

#### **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 66).

### **Viewing Your Performance Condition**

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

- 1 Add Performance Condition to a data screen (Customizing the Data Screens, page 100).
- 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.

#### **Lactate Threshold**

Lactate threshold is the exercise intensity at which lactate (lactic acid) starts to accumulate in the bloodstream. In running, this intensity level is estimated in terms of pace, heart rate, or power. 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 10 km 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 77). 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<sup>®</sup> 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 115).

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 START.
- 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.

# **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 device (*Pairing Your Wireless Sensors*, page 115), and you must get your VO2 max. estimate (*Getting Your VO2 Max. Estimate for Cycling*, page 67).

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

- 1 Select **UP** or **DOWN** to view the performance widget.
- 2 Select START to scroll through the performance measurements.

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

Purple	Superior
Blue	Excellent
Green	Good
Orange	Fair
Red	Untrained

For more information, see the appendix (FTP Ratings, page 132).

**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 115), and you must get your VO2 max. estimate (*Getting Your VO2 Max. Estimate for Cycling*, page 67).

**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 START.
- 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.

# **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 VO2 max., acute load, and HRV status 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 66). 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 73).
- **Acute load**: Acute load is a weighted sum of your recent exercise load scores including exercise duration and intensity. (*Acute Load*, page 73).
- **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 73).

**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 73).

### **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 VO2 max., acute load, and HRV status over an extended time period. You can use your training status to help plan future training and continue improving your fitness level.

- **No Status**: The watch needs you to record multiple activities over two weeks, with VO2 max. results from running or cycling, to determine your training status.
- **Detraining**: You have a break in your training routine or you are training much less than usual for a week or more. Detraining means that you are unable to maintain your fitness level. You can try increasing your training load to see improvement.
- **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.
- **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.
- **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.
- **Peaking**: 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.
- **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.
- **Unproductive**: Your training load is at a good level, but your fitness is decreasing. Try focusing on rest, nutrition, and stress management.
- **Strained**: There is imbalance between your recovery and training load. It is a normal result after a hard training or major event. Your body may be struggling to recover, so you should pay attention to your overall health.

#### **Tips for Getting Your Training Status**

The training status feature depends on updated assessments of your fitness level, including at least one VO2 max. measurement per week (*About VO2 Max. Estimates*, page 66). 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 (*Turning Off VO2 Max. Recording*, page 68).

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

- At least one time 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 watch for one or two weeks, your training status should be available.
- Record all of your fitness activities on your primary training device, allowing your watch to learn about your performance (Syncing Activities and Performance Measurements, page 66).

#### **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 Descent™ watch provides acclimation notifications and corrections to your VO2 max. estimate and training status when the temperature is above 22°C (72°F) and when the altitude is above 800 m (2625 ft.). You can keep track of your heat and altitude acclimation in the training status widget.

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

#### **Acute Load**

Acute load is a weighted sum of your excess post-exercise oxygen consumption (EPOC) for the last several days. The gauge indicates whether your current load is low, optimal, high, or very high. The optimal range is 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.

## **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.

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.

### **Viewing Your Recovery Time**

For the most accurate estimate, complete the user profile setup (Setting Up Your User Profile, page 77), and set your maximum heart rate (Setting Your Heart Rate Zones, page 77).

- 1 Go for a run.
- 2 After your run, select Save.

The recovery time appears. The maximum time is 4 days.

**NOTE:** From the watch face, you can select UP or DOWN to view the training status widget, and select START to scroll through the metrics to view your recovery time.

#### **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.

## **Body Battery**™

Your device 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 device with your Garmin Connect<sup>™</sup> account to view your most up-to-date Body Battery level, long-term trends, and additional details (*Tips for Improved Body Battery* Data, page 74).

## Viewing the Body Battery™ Widget

The Body Battery widget displays your current Body Battery level and a graph of your Body Battery level for the last several hours.

- 1 Press **UP** or **DOWN** to view the Body Battery widget.
  - NOTE: You may need to add the widget to your widget loop (Customizing the Widget Loop, page 106).
- 2 Press START to view a graph of your body battery level since midnight.
- 3 Press DOWN to view a combined graph of your Body Battery and stress levels.
  Blue bars indicate periods of rest. Orange bars indicate periods of stress. Gray bars indicate times when you were too active to determine your stress level.

## 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.

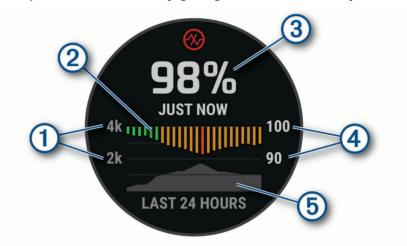
## **Pulse Oximeter**

Your watch has a wrist-based pulse oximeter to gauge the peripheral saturation of oxygen in your blood (SpO2). As your altitude increases, the level of oxygen in your blood can decrease. Knowing your oxygen saturation can help you determine how your body is acclimating to high altitudes for alpine sport and expedition.

You can manually begin a pulse oximeter reading by viewing the pulse oximeter widget (*Getting Pulse Oximeter Readings*, page 75). You can also turn on all-day readings (*Turning On All-Day Pulse Oximeter Readings*, page 75). When you view the pulse oximeter widget while you are not moving, your watch analyzes your oxygen saturation and your elevation. The elevation profile helps indicate how your pulse oximeter readings are changing, relative to your to elevation.

On the watch, your pulse oximeter reading appears as an oxygen saturation percentage and color on the graph. On your Garmin Connect™ account, you can view additional details about your pulse oximeter readings, including trends over multiple days.

For more information about pulse oximeter accuracy, go to garmin.com/ataccuracy.



The elevation scale.
 A graph of your average oxygen saturation readings for the last 24 hours.
 Your most recent oxygen saturation reading.
 The oxygen saturation percentage scale.
 A graph of your elevation readings for the last 24 hours.

# **Getting Pulse Oximeter Readings**

You can manually begin a pulse oximeter reading by viewing the pulse oximeter widget. The widget displays your most recent blood oxygen saturation percentage, a graph of your hourly average readings for the last 24 hours, and a graph of your elevation for the last 24 hours.

**NOTE:** The first time you view the pulse oximeter widget, the device must acquire satellite signals to determine your elevation. You should go outside, and wait while the device locates satellites.

- 1 While you are sitting or inactive, press **UP** or **DOWN** to view the pulse oximeter widget.
- 2 Press **START** to view widget details and begin a 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 device at heart level while the device reads your blood oxygen saturation.

4 Press **DOWN** to view a graph of your pulse oximeter readings for the last seven days.

## **Turning On All-Day Pulse Oximeter Readings**

- 1 From the pulse oximeter widget, hold **MENU**.
- 2 Select Options > Pulse Ox Mode > All Day.

The device automatically analyzes your oxygen saturation throughout the day, when you are not moving.

NOTE: Turning on all-day mode decreases battery life.

## **Turning Off Automatic Pulse Oximeter Readings**

- 1 From the pulse oximeter widget, hold **MENU**.
- 2 Select Options > Pulse Ox Mode > Off.

The device turns off automatic pulse oximeter readings. The device begins a pulse oximeter reading when you view the pulse oximeter widget.

## **Turning On Pulse Oximeter Sleep Tracking**

You can set your device to continuously measure your blood oxygen saturation while you sleep.

NOTE: Unusual sleep positions can cause abnormally low sleep-time SpO2 readings.

- 1 From the pulse oximeter widget, hold **MENU**.
- 2 Select Options > Pulse Ox Mode > During Sleep.

## **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.

# **Training**

## **Setting Up Your User Profile**

You can update your sex, date of birth, height, wrist, heart rate zone, power zone, and Critical Swim Speed (CSS) settings (*Recording a Critical Swim Speed Test*, page 82). The watch uses this information to calculate accurate training data.

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

### **Gender Settings**

When you first set up the watch, you must choose a sex. Most fitness and training algorithms are binary. For the most accurate results, Garmin® recommends selecting your sex assigned at birth. After the initial setup, you can customize the profile settings in your Garmin Connect™ account.

Profile & Privacy: Enables you to customize the data on your public profile.

**User Settings**: Sets your sex. If you select Not Specified, the algorithms that require a binary input will use the sex you specified when you first set up the watch.

### **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 78) 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.

#### **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.

#### **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 & Power Zones > Heart Rate.
- 3 Select 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 (Detecting Performance Measurements Automatically, page 66).

4 Select LTHR, and enter your lactate threshold heart rate.

You can perform a guided test to estimate your lactate threshold (*Lactate Threshold*, page 70). You can use the Auto Detection feature to automatically record your lactate threshold during an activity (*Detecting Performance Measurements Automatically*, page 66).

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 77).
- 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 watch or using your Garmin Connect™ account.

- 1 Hold MENU.
- 2 Select User Profile > Heart Rate & Power Zones > Power.
- 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 **FTP**, and enter your value.

You can use the Auto Detection feature to automatically record your threshold power during an activity (Detecting Performance Measurements Automatically, page 66).

- **7** Select a zone, and enter a value for each zone.
- 8 If necessary, select **Minimum**, and enter a minimum power value.

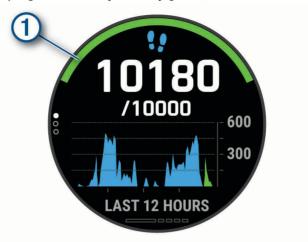
# **Activity Tracking**

The activity tracking feature records your daily step count, distance traveled, intensity minutes, floors climbed, calories burned, and sleep statistics for each recorded day. Your calories burned includes your base metabolism plus activity calories.

The number of steps taken during the day appears on the steps widget. The step count is updated periodically. For more information about activity tracking and fitness metric accuracy, go to garmin.com/ataccuracy.

#### **Auto Goal**

Your watch creates a daily step goal automatically, based on your previous activity levels. As you move during the day, the watch shows your progress toward your daily goal ①.



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 red 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 111).

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

## **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 (*Using Do Not Disturb Mode*, page 79).

#### **Using Automated Sleep Tracking**

- 1 Wear your watch while sleeping.
- 2 Upload your sleep tracking data to the Garmin Connect<sup>™</sup> site (*Manually Syncing Data with Garmin Connect*<sup>™</sup>, page 54).

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

You can view sleep information from the previous night on your Descent™ watch (Widgets, page 105).

#### **Using Do Not Disturb Mode**

You can use do not disturb mode to turn off the backlight, tone alerts, and vibration alerts. For example, you can use this mode while sleeping or watching a movie.

**NOTE:** You can set your normal sleep hours in the user settings on your Garmin Connect<sup>™</sup> account. You can enable the During Sleep option in the system settings to automatically enter do not disturb mode during your normal sleep hours (*System Settings*, page 111).

NOTE: You can add options to the controls menu (Customizing the Controls Menu, page 106).

- 1 Hold LIGHT.
- 2 Select .

### **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 Descent<sup>™</sup> 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.

#### Move IO

When your movements match familiar exercise patterns, the Move IQ feature automatically detects the event and displays it in your timeline. The 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.

### **Activity Tracking Settings**

Hold MENU, and select Activity Tracking.

Status: Turns off the activity tracking features.

**Move Alert**: Displays a message and the move bar on the digital watch face and steps screen. The device also beeps or vibrates if audible tones are turned on (*System Settings*, page 111).

**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 Move IQ events.

**Pulse Ox Mode**: Sets your device to record pulse oximeter readings while you are inactive during the day or continuously while you sleep.

## **Turning Off Activity Tracking**

When you turn off activity tracking, your steps, floors climbed, intensity minutes, sleep tracking, and Move IQ events are not recorded.

- 1 Hold MENU.
- 2 Select Activity Tracking > Status > Off.

#### 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 $^{\text{\tiny{M}}}$ , 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 53).

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

#### Creating a Custom Workout on Garmin Connect™

Before you can create a workout on the Garmin Connect app, you must have a Garmin Connect account (Garmin Connect™, page 53).

1 From the Garmin Connect app, select or •••.

- 2 Select Training & Planning > Workouts > Create a Workout.
- 3 Select an activity.
- 4 Create your custom workout.
- 5 Select Save.
- 6 Enter a name for your workout, and select Save.

The new workout appears in your list of workouts.

You can send this workout to your device (Sending a Custom Workout to Your Watch, page 81).

#### Sending a Custom Workout to Your Watch

You can send a custom workout you created with the Garmin Connect<sup>™</sup> app to your watch (*Creating a Custom Workout on Garmin Connect*<sup>™</sup>, page 80).

- 1 From the Garmin Connect app, select = or •••.
- 2 Select Training & Planning > Workouts.
- **3** Select a workout from the list.
- 4 Select ♣7.
- 5 Select your compatible watch.
- 6 Follow the on-screen instructions.

### Starting a Workout

Your device can guide you through multiple steps in a workout.

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

Only workouts that are compatible with the selected activity appear in the list.

**6** Select **View** to view a list of workout steps (optional).

**TIP:** While viewing workout steps, you can press START to view an animation of the selected exercise, if available.

- 7 Select Do Workout.
- 8 Press **START** 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. For strength, yoga, cardio, or Pilates activities, an instructional animation appears.

## **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 71).

- 1 From the watch face, press **START**.
- Select Run or Bike.

The daily suggested workout appears.

- 3 Select START, 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.

## **Turning Daily Suggested Workout Prompts On and Off**

Daily suggested workouts are recommended based on your previous activities saved to your Garmin Connect™ account.

- 1 From the watch face, select **START**.
- 2 Select Run or Bike.

- 3 Hold MENU.
- 4 Select Training > Workouts > Today's Suggestion.
- 5 Select **START** to disable or enable prompts.

## Following a Pool Swim Workout

Your watch can guide you through multiple steps in a swim workout. Creating and sending a pool swim workout is similar to *Workouts*, page 80 and *Following a Workout From Garmin Connect* $^{\text{TM}}$ , page 80.

- 1 From the watch face, press **START**.
- 2 Select Pool Swim.
- 3 Hold MENU.
- 4 Select Training.
- 5 Select an option:
  - Select Workouts to do workouts downloaded from Garmin Connect™.
  - Select Critical Swim Speed to record a Critical Swim Speed (CSS) test or enter a CSS value manually (Recording a Critical Swim Speed Test, page 82).
  - Select Training Calendar to do or view your scheduled workouts.
- 6 Follow the on-screen instructions.

### **Recording a Critical Swim Speed Test**

Your Critical Swim Speed (CSS) value is the result of a time-trial-based test expressed as a pace per 100 meters. Your CSS is the theoretical speed you can maintain continuously without exhaustion. You can use your CSS to guide your training pace and monitor your improvement.

- 1 From the watch face, press **START**.
- 2 Select Pool Swim.
- 3 Hold MENU.
- 4 Select Training > Critical Swim Speed > Do Critical Swim Speed Test.
- **5** Press **DOWN** to preview the workout steps.
- 6 Press START.
- 7 Follow the on-screen instructions.

### **Editing Your Critical Swim Speed Result**

You can manually edit or enter a new time for your CSS value.

- 1 From the watch face, press **START**.
- 2 Select Pool Swim.
- 3 Hold MENU.
- 4 Select Training > Critical Swim Speed > Critical Swim Speed.
- 5 Enter the minutes.
- 6 Enter the seconds.

### **About the Training Calendar**

The training calendar on your device is an extension of the training calendar or schedule you set up in Garmin Connect™. 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 widget. When you select a day in the calendar, you can view or do the workout. The scheduled workout stays on your device 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 from Garmin Connect, you must have a Garmin Connect account (*Garmin Connect*<sup>™</sup>, page 53), and you must pair the Descent device with a compatible smartphone.

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

#### **Adaptive Training Plans**

Your Garmin Connect account has an adaptive training plan and Garmin® coach to fit your training goals. For example, you can answer a few questions and find a plan to help you complete a 5 km race. The plan adjusts to your current level of fitness, coaching and schedule preferences, and race date. When you start a plan, the Garmin Coach widget is added to the widget loop on your Descent™ device.

## **Starting Today's Workout**

After you send a Garmin® Coach training plan to your device, the Garmin Coach widget appears in your widget loop.

- 1 From the watch face, select UP or DOWN to view the Garmin Coach widget.
  If a workout for this activity is scheduled for today, the device shows the workout name and prompts you to start it.
- 2 Select START.
- 3 Select View to view the workout steps (optional).
- 4 Select Do Workout.
- 5 Follow the on-screen instructions.

### **Interval Workouts**

You can create interval workouts based on distance or time. The device saves your custom interval workout until you create another interval workout. You can use open intervals for track workouts and when you are running a known distance.

## **Creating an Interval Workout**

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

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

## **Stopping an Interval Workout**

- At any time, select LAP to stop the current interval or rest period and transition to the next interval or rest period.
- After all intervals and rest periods are complete, select LAP to end the interval workout and transition to a timer that can be used for cool down.

• At any time, select **STOP** to stop the activity timer. You can resume the timer or end the interval workout.

## 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<sup>™</sup> 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 53).

- 1 Select an option:
  - Open the Garmin Connect app, and select or •••.
  - Go to connect.garmin.com.
- 2 Select Training & Planning > 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 **START**.
- 2 Select an outdoor running activity.
- 3 Hold MENU.
- 4 Select Training > PacePro Plans.
- 5 Select a plan.

TIP: You can press **DOWN** and select **View Splits** to preview the splits.

- 6 Press START to start the plan.
- 7 If necessary, select **Yes** to enable course navigation.
- 8 Press START 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		

### Stopping a PacePro Plan

- 1 Hold MENU.
- 2 Select Stop PacePro > Yes.

The device stops the PacePro plan. The activity timer continues running.

## Creating a PacePro Plan on Your Watch

Before you can create a PacePro plan on your watch, you must create a course (*Creating and Following a Course on Your Device*, page 91).

- From the watch face, select START.
- 2 Select an outdoor running activity.
- 3 Hold MENU.
- 4 Select Navigation > Courses.
- **5** Select a course.
- 6 Select PacePro > Create New.
- 7 Select an option:
  - Select Goal Pace, and enter your target pace.
  - Select Goal Time, and enter your target time.

The device displays your custom pace band.

TIP: You can press **DOWN** and select **View Splits** to preview the splits.

- 8 Select **START** to start the plan.
- 9 If necessary, select **Yes** to enable course navigation.
- 10 Select START to start the activity timer.

## **Segments**

You can send running or cycling segments from your Garmin Connect™ account to your device. After a segment is saved to your device, you can race a segment, trying to match or exceed your personal record or other participants who have raced the segment.

**NOTE:** When you download a course from your Garmin Connect account, you can download all of the available segments in the course.

## Strava<sup>™</sup> Segments

You can download Strava segments to your Descent<sup>™</sup> device. Follow Strava segments to compare your performance with your past rides, friends, and pros who have ridden the same segment.

To sign up for a Strava membership, go to the segments menu in your Garmin Connect<sup>™</sup> account. For more information, go to www.strava.com.

The information in this manual applies to both Garmin Connect segments and Strava segments.

## **Viewing Segment Details**

- 1 From the watch face, press **START**.
- 2 Select an activity.
- 3 Hold MENU.
- 4 Select Training > Segments.
- 5 Select a segment.
- 6 Select an option:
  - Select Race Time to view the time and average speed or pace for the segment leader.
  - Select **Map** to view the segment on the map.
  - Select **Elevation Plot** to view an elevation plot of the segment.

### Racing a Segment

Segments are virtual race courses. You can race a segment, and compare your performance to past activities, others' performance, connections in your Garmin Connect™ account, or other members of the running or cycling communities. You can upload your activity data to your Garmin Connect account to view your segment position.

**NOTE:** If your Garmin Connect account and Strava<sup>™</sup> account are linked, your activity is automatically sent to your Strava account so you can review the segment position.

1 From the watch face, press **START**.

- 2 Select an activity.
- 3 Go for a run or ride.

When you approach a segment, a message appears, and you can race the segment.

4 Start racing the segment.

A message appears when the segment is complete.

## **Setting a Segment to Adjust Automatically**

You can set your device to automatically adjust the target race time of a segment based on your performance during the segment.

**NOTE:** This setting is enabled for all segments by default.

- 1 From the watch face, press START.
- 2 Select an activity.
- 3 Hold MENU.
- 4 Select Training > Segments > Auto Effort.

## **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 27).
- 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 device gives you real-time feedback about how close you are to achieving your training target.

- 1 From the watch face, press **START**.
- 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 **START** to start the activity timer.

## **Cancelling a Training Target**

- 1 During an activity, hold **MENU**.
- 2 Select Cancel Target > Yes.

# 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 **START**.

- 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 **START** to start the activity timer.
- 8 After you complete your activity, press STOP, and select Save.

## **Pausing 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.

Select an option:

- From the training status widget, hold MENU, and select Options > Pause Training Status.

TIP: You should sync your device with your Garmin Connect account.

## **Resuming Your Paused Training Status**

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 66).

Select an option:

- From the training status widget, hold **MENU**, and select **Options** > **Resume Training Status**.
- From your Garmin Connect<sup>™</sup> settings, select Performance Stats > Training Status > : > Resume Training Status.

TIP: You should sync your device with your Garmin Connect account.

# **Enabling Self Evaluation**

When you save an activity, you can evaluate your perceived effort and how you felt during the activity. Your self evaluation information can be viewed in your Garmin Dive™ account.

- 1 Hold MENU.
- 2 Select Activities & Apps.
- 3 Select an activity.
- 4 Select the activity settings.
- 5 Select Self Evaluation.
- 6 Select an option:
  - To complete self evaluation only after workouts, select Workouts Only.
  - To complete self evaluation after every activity, select Always.

## Clocks

## **Setting an Alarm**

You can set multiple alarms.

- 1 From the watch face, hold MENU.
- 2 Select Clocks > ALARMS > Add Alarm.
- 3 Enter the alarm time.

### **Editing an Alarm**

- 1 From the watch face, hold MENU.
- 2 Select Clocks > ALARMS > Edit.
- 3 Select an alarm.
- 4 Select an option:
  - To turn the alarm on or off, select Status.
  - To change the alarm time, select **Time**.
  - To set the alarm to repeat regularly, select Repeat, and select when the alarm should repeat.
  - To select the type of alarm notification, select Sounds.
  - To turn the backlight on or off with the alarm, select Backlight.
  - To select a description for the alarm, select **Label**.
  - To delete the alarm, select Delete.

## **Starting the Countdown Timer**

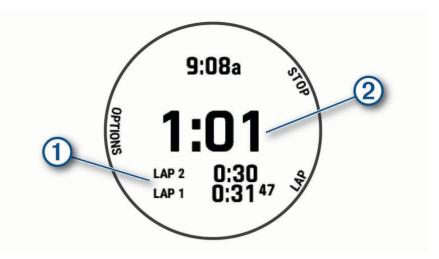
- 1 From the watch face, hold MENU.
- 2 Select Clocks > TIMERS.
- 3 Select an option:
  - To set and save a countdown timer for the first time, enter the time, press **MENU**, and select **Save Timer**.
  - To set and save additional countdown timers, select Add Timer, and enter the time.
  - To set a countdown timer without saving it, select Quick Timer, and enter the time.
- 4 If necessary, press MENU, and select an option:
  - Select **Time** to change the time.
  - Select **Restart** > **On** to automatically restart the timer after it expires.
  - Select **Sounds**, and select a type of notification.
- **5** Press **START** to start the timer.

## **Deleting a Timer**

- 1 From the watch face, hold MENU.
- 2 Select Clocks > TIMERS > Edit.
- 3 Select a timer.
- 4 Select Delete.

# **Using the Stopwatch**

- 1 From the watch face, hold MENU.
- 2 Select Clocks > STOPWATCH.
- 3 Press **START** to start the timer.
- 4 Press LAP to restart the lap timer 1.



The total stopwatch time 2 continues running.

- **5** Press **STOP** to stop both timers.
- 6 Select an option:
  - To reset both timers, press **DOWN**.
  - To save the stopwatch time as an activity, press MENU, and select Save Activity.
  - To reset the timers and exit the stopwatch, press **MENU**, and select **Done**.
  - To review the lap timers, press **MENU**, and select **Review**.
    - **NOTE:** The **Review** option only appears if there have been multiple laps.
  - To return to the watch face without resetting the timers, press **MENU**, and select **Go to Watchface**.
  - To enable or disable lap recording, press MENU, and select Lap Key.

## **Adding Alternate Time Zones**

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

**NOTE:** You may need to add the alternate time zones widget to the widget loop (*Customizing the Widget Loop*, page 106).

- 1 From the watch face, hold MENU.
- 2 Select Clocks > ALT. TIME ZONES > Add Alt. Time Zone.
- 3 Select a time zone.
- 4 If necessary, rename the zone.

### **Editing an Alternate Time Zone**

- 1 From the watch face, hold MENU.
- 2 Select Clocks > ALT. TIME ZONES > Edit.
- 3 Select a time zone.
- 4 Select an option:
  - To enter a custom name for the time zone, select **Rename Zone**.
  - To change the time zone, select Change Zone.
  - To change the location of the time zone in the widget, select **Reorder Zone**.
  - To delete the time zone, select **Delete Zone**.

# **Navigation**

## **Saving Your Location**

You can save your current location to navigate back to it later.

NOTE: You can add options to the controls menu (Customizing the Controls Menu, page 106).

- 1 Hold LIGHT.
- 2 Select Q.
- 3 Follow the on-screen instructions.

### **Editing Your Saved Locations**

You can delete a saved location or edit its name, elevation, and position information.

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

## **Setting a Reference Point**

You can set a reference point to provide the heading and distance to a location or bearing.

- 1 Select an option:
  - Hold LIGHT.

TIP: You can set a reference point while you are recording an activity.

- From the watch face, press **START**.
- 2 Select Reference Point.
- 3 Wait while the watch locates satellites.
- 4 Press START, and select Add Point.
- 5 Select a location or bearing to use as a reference point for navigation.

The compass arrow and distance to your destination appear.

6 Point the top of the watch toward your heading.

When you deviate from the heading, the compass displays the direction from the heading and degree of deviation.

7 If necessary, press START, and select Change Point to set a different reference point.

# **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 **START**.
- 2 Select Project Wpt..
- 3 Press UP or DOWN to set the heading.
- 4 Press START.
- 5 Press **DOWN** to select a unit of measure.
- 6 Press **UP** to enter the distance.
- 7 Press START to save.

The projected waypoint is saved with a default name.

## Navigating to a Destination

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

- 1 From the watch face, press **START**.
- 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 **START** to begin navigation.

## **Navigating to a Point of Interest**

If the map data installed on your watch includes points of interest, you can navigate to them.

- 1 From the watch face, press **START**.
- 2 Select an activity.
- 3 Hold MENU.
- 4 Select Navigation > Points of Interest, and select a category.

A list of points of interest near your current location appears.

- 5 If necessary, select an option:
  - To search near a different location, select Search Near, and select a location.
  - To search for a point of interest by name, select **Spell Search**, and enter a name.
  - To search for nearby points of interest, select Around Me (Navigating with the Around Me Feature, page 95).
- **6** Select a point of interest from the search results.
- 7 Select Go.

Navigation information appears.

8 Press **START** to begin navigation.

#### **Points of Interest**

#### NOTICE

You are responsible for understanding and complying with any applicable rules, laws, or regulations associated with points of interest.

A point of interest is a place that you may find useful or interesting. Points of interest are organized by category and can include popular travel destinations such as gas stations, restaurants, hotels, and entertainment venues.

### Courses

#### **WARNING**

This feature allows users to download courses created by other users. Garmin® makes no representations about the safety, accuracy, reliability, completeness, or timeliness of courses created by third parties. Any use or reliance on courses created by third parties is at your own risk.

You can send a course from your Garmin Connect<sup>™</sup> 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 **START**.
- 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 START to begin navigation.

## **Creating a Round-Trip Course**

The device can create a round-trip course based on a specified distance and direction of navigation.

- 1 From the watch face, press **START**.
- 2 Select Run or Bike.
- 3 Hold MENU.
- 4 Select Navigation > Round-Trip Course.
- **5** Enter the total distance for the course.
- 6 Select a direction heading.

The device creates up to three courses. You can press **DOWN** to view the courses.

- 7 Press **START** to select a course.
- 8 Select an option:
  - To begin navigation, select Go.
  - To view the course on the map and pan or zoom the map, select Map.
  - To view a list of turns in the course, select **Turn By Turn**.
  - To view an elevation plot of the course, select **Elevation Plot**.
  - To save the course, select Save.
  - To view a list of ascents in the course, select View Climbs.

## 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 53).

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

You can send this course to your device (Sending a Course to Your Device, page 92).

#### 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 92).

- 1 From the Garmin Connect app, select = or •••.
- 2 Select Training & Planning > 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 **START**.
- 2 Select an activity.
- 3 Hold MENU.
- 4 Select Navigation > Courses.
- 5 Press START 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 view a list of ascents in the course, select View Climbs.
- To delete the course, select **Delete**.

## **Using ClimbPro**

The ClimbPro feature helps you manage your effort for the upcoming climbs on a course. You can view climb details, including gradient, distance, and elevation gain, before or in real time while following a course. Cycling climb categories, based on length and gradient, are indicated by color.

- 1 Hold MENU.
- 2 Select Activities & Apps.
- 3 Select an activity.
- 4 Select the activity settings.
- 5 Select ClimbPro > Status > When Navigating.
- 6 Select an option:
  - Select **Data Field** to customize the data field that appears on the ClimbPro screen.
  - Select Alert to set alerts at the start of a climb or at a certain distance from the climb.
  - Select **Descents** to turn descents on or off for running activities.
  - Select Climb Detection to choose the types of climbs detected during cycling activities.
- 7 Review the climbs and course details for the course (Viewing or Editing Course Details, page 92).
- 8 Start following a saved course (Navigating to a Destination, page 90).

## 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 112).

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

Navigation information appears.

# 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 **START**.
- 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 START. Navigation information appears.
- 6 Press **START** to begin navigation.

# **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 STOP.
- 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.
  - If you do not have a supported map or are using direct routing, select Route to navigate back to the starting point of your activity in a straight line.
  - If you are not using direct routing, select **Route** to navigate back to the starting point of your activity using turn-by-turn directions.



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

## **Viewing Route Directions**

You can view a list of turn-by-turn directions for your route.

- 1 While navigating a route, hold **MENU**.
- 2 Select Turn By Turn.
  - A list of turn-by-turn directions appears.
- 3 Press **DOWN** to view additional directions.

## 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 **START**.
- 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**.
  - If you do not have a supported map or are using direct routing, select **Route** to navigate back to the starting point of your activity in a straight line.
  - If you are not using direct routing, select **Route** to navigate back to the starting point of your activity using turn-by-turn directions.

Turn-by-turn directions help you navigate to the starting point of your last saved activity if you have a supported map or are using direct routing. A line appears on the map from your current location to the starting point of the last saved activity if you are not using direct routing.

**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.

## **Stopping Navigation**

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

#### Man

Your device comes preloaded with maps and can display several types of Garmin® map data, including topographical contours, nearby points of interest, ski resort maps, and golf courses.

To purchase additional map data and view compatibility information, go to garmin.com/maps.

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

### Viewing the Map

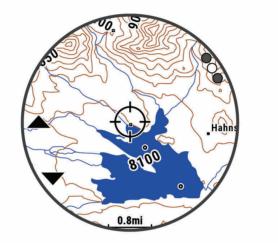
- 1 Start an outdoor activity.
- 2 Press **UP** or **DOWN** to scroll to the map screen.
- 3 Hold MENU, and select an option:
  - To pan or zoom the map, select Pan/Zoom.
    - **TIP:** You can press **START** to toggle between panning up and down, panning left and right, or zooming. You can hold **START** to select the point indicated by the crosshairs.
  - To see nearby points of interest and waypoints, select **Around Me**.

## Saving or Navigating to a Location on the Map

You can select any location on the map. You can save the location or start navigating to it.

- 1 From the map, hold MENU.
- 2 Select Pan/Zoom.

Controls and crosshairs appear on the map.



- 3 Pan and zoom the map to center the location in the crosshairs.
- 4 Hold START to select the point indicated by the crosshairs.
- 5 If necessary, select a nearby point of interest.
- 6 Select an option:
  - To start navigating to the location, select Go.
  - To save the location, select Save Location.
  - To view information about the location, select Review.

#### Navigating with the Around Me Feature

You can use the around me feature to navigate to nearby points of interest and waypoints.

**NOTE:** The map data installed on your watch must include points of interest to navigate to them.

- 1 From the map, hold **MENU**.
- 2 Select Around Me.

Icons indicating points of interest and waypoints appear on the map.

- 3 Press **UP** or **DOWN** to highlight a section of the map.
- 4 Press START.

A list of points of interest and waypoints in the highlighted map section appear.

- 5 Select a location.
- 6 Select an option:
  - To start navigating to the location, select Go.
  - To view the location on the map, select **Map**.
  - To save the location, select **Save Location**.

• To view information about the location, select Review.

## **Changing the Map Theme**

You can change the map theme to display map data optimized for your activity type. For example, high contrast map themes provide better visibility in challenging environments, and activity-specific map themes display the most important map data at-a-glance.

- 1 Start an outdoor activity.
- 2 Hold MENU.
- 3 Select the activity settings.
- 4 Select Map > Map Theme.
- 5 Select an option.

## **Compass**

The device 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 107). To open the compass settings quickly, you can press START from the compass widget.

### **Setting the Compass Heading**

- 1 From the compass widget, press **START**.
- 2 Select Lock Heading.
- 3 Point the top of the watch toward your heading, and press START.
  When you deviate from the heading, the compass displays the direction from the heading and degree of deviation.

### **Altimeter and Barometer**

The device contains an internal altimeter and barometer. The device 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 108). You can press START from the altimeter or barometer widgets to open the altimeter or barometer settings guickly.

# **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 device.

The device has a history widget for quick access to your activity data (Widgets, page 105).

- 1 From the watch face, hold MENU.
- 2 Select History > Activities.
- 3 Select an activity.
- 4 Press START.
- 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 68).
  - 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 watch displays any new personal records you achieved during that activity. Personal records include your fastest time over several typical race distances, highest strength activity weight for major movements, and longest run, ride, or swim.

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 > Yes.

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 > Yes.
  - To delete all records for the sport, select Clear All Records > Yes.

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.

# **Customizing Your Device**

## **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 (*3D Speed and Distance*, page 103).

Accent Color: Sets the accent color of each activity to help identify which activity is active.

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.

**Auto Lap**: Sets the options for the Auto Lap® feature (Auto Lap®, page 102).

**Auto Pause**: Sets the watch to stop recording data when you stop moving or when you drop below a specified speed (*Enabling Auto Pause*\*, page 103).

**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 36).

Auto Run: Enables the watch to detect ski runs automatically using the built-in accelerometer.

**Auto Scroll**: Enables you to move through all of the activity data screens automatically while the timer is running (*Using Auto Scroll*, page 104).

Auto Set: Enables the watch to start and stop exercise sets automatically during a strength training activity.

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.

ClimbPro: Displays ascent planning and monitoring screens while navigating.

**Club Prompt**: Displays a prompt that enables you to enter which club you used after each detected shot while playing golf.

**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 100).

**Driver Distance**: Sets the average distance the ball travels on your drive while playing golf.

Edit Routes: Allows you to edit the route difficulty level and status during a rock climbing activity.

Edit Weight: Allows you to add the weight used for an exercise set during a strength training or cardio activity.

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

**GPS**: Sets the mode for the GPS antenna (Changing the GPS Setting, page 104).

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

**Handicap Scoring**: Enables handicap scoring while playing golf. The Local Handicap option allows you to enter the number of strokes to be subtracted from your total score. The Index/Slope option allows you to enter your handicap and the course slope rating so the watch can calculate your course handicap. When you enable either handicap scoring option, you can adjust your handicap value.

Lane Number: Sets your lane number for track running.

**Lap Key**: Enables you to record a lap or a rest during the activity.

Lock Keys: Locks the keys during multisport activities to prevent accidental key presses.

Map: Sets the display preferences for the map data screen for the activity (Activity Map Settings, page 102).

**Metronome**: Plays tones at a steady rhythm to help you improve your performance by training at a faster, slower, or more consistent cadence (*Using the Metronome*, page 28).

**Mode Tracking**: Enables or disables automatic ascent or descent mode tracking for backcountry skiing and snowboarding.

**Obstacle Tracking**: Enables the watch to save obstacle locations from your first loop of the course. On repeat loops of the course, the watch uses the saved locations to switch between obstacle and running intervals (*Recording an Obstacle Racing Activity*, page 34).

**PlaysLike**: Enables the "plays like" distance feature while playing golf, which accounts for elevation changes on the course by showing the adjusted distance to the green (*Viewing PlaysLike Distance*, page 41).

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 options for the activity (*Power Save Timeout Settings*, page 104).

**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 (*Changing the Track Point Recording Interval*, page 42).

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 and ultra 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.

Routing: Sets the preferences for calculating routes for the activity (Routing Settings, page 102).

**Scoring**: Enables or disables scorekeeping automatically when you start a round of golf. The Always Ask option prompts you when you begin a round.

Scoring Method: Sets the scoring method to stroke play or Stableford scoring while playing golf.

**Self Evaluation**: Sets how often you evaluate your perceived effort for the activity (*Enabling Self Evaluation*, page 87).

Segment Alerts: Enables prompts that alert you to approaching segments.

Stat Tracking: Enables statistics tracking while playing golf.

Stroke Detect.: Enables stroke detection for pool swimming.

**Swimrun Auto Sport Change**: Allows you to automatically transition between the swim portion and the run portion of a swimrun multisport activity.

**Tournament Mode**: Disables features that are not allowed during sanctioned tournaments.

**Transitions**: Enables transitions for multisport activities.

Vibration Alerts: Enables alerts that notify you to inhale or exhale during a breathwork activity.

**Workout Videos**: Enables instructive workout animations for a strength, cardio, yoga, or Pilates activity. Animations are available for pre-installed workouts and workouts downloaded from Garmin Connect.

#### **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 Data Fields, and select a field to change the data that appears in the field.
    - **TIP:** For a list of all the available data fields, go to *Data Fields*, page 125. Not all data fields are available for all activity types.
  - Select Left Gauge or Right Gauge to add graphical dive gauges.
  - Select **Reorder** to change the location of the data screen in the loop.
  - Select **Remove** to remove the data screen from the loop.

NOTE: Not all options are available for dive activities.

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.

## **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 one time. 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	Event, 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 77 and Heart Rate Zone Calculations, page 78.
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).

### **Activity Map Settings**

You can customize the appearance of the map data screen for each activity.

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

**Configure Maps**: Shows or hides data from installed map products.

**Map Theme**: Sets the map to display data optimized for your activity type. The System option uses the preferences from the system map settings (*Map Themes*, page 109).

**Use Sys. Settings**: Enables the device to use the preferences from the system map settings (*Map Settings*, page 109).

**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.

Lock on Road: Locks the position icon, which represents your position on the map, onto the nearest road.

Track Log: Shows or hides the track log, or the path you have traveled, as a colored line on the map.

Track Color: Changes the track log color.

**Detail**: Sets the amount of detail shown on the map. Showing more detail may cause the map to redraw more slowly.

Marine: Sets the map to display data in marine mode (Marine Map Settings, page 109).

**Draw Segments**: Shows or hides segments, as a colored line on the map.

Draw Contours: Shows or hides contour lines on the map.

### **Routing Settings**

You can change the routing settings to customize the way the watch calculates routes for each activity.

**NOTE:** Not all settings are available for all activity types.

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

Activity: Sets an activity for routing. The watch calculates routes optimized for the type of activity you are doing.

Popularity Routing: Calculates routes based on the most popular runs and rides from Garmin Connect™.

**Courses**: Sets how you navigate courses using the watch. Use the Follow Course option to navigate a course exactly as it appears, without recalculating. Use the Use Map option to navigate a course using routable maps, and recalculate the route if you stray from the course.

Calculation Method: Sets the calculation method to minimize the time, distance, or ascent in routes.

**Avoidances**: Sets the road or transportation types to avoid in routes.

**Type**: Sets the behavior of the pointer that appears during direct routing.

#### Auto Lap®

#### **Marking Laps by Distance**

You can use Auto Lap to mark a lap at a specific distance automatically. This feature is helpful for comparing your performance over different parts of an activity (for example, every 1 mile or 5 kilometers).

- 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 Lap.
- 6 Select an option:
  - Select Auto Lap to turn Auto Lap on or off.
  - Select Auto Distance to adjust the distance between laps.

Each time you complete a lap, a message appears that displays the time for that lap. The device also beeps or vibrates if audible tones are turned on (*System Settings*, page 111).

#### **Customizing the Lap Alert Message**

You can customize one or two data fields that appear in the lap alert message.

- 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 Lap > Lap Alert.
- 6 Select a data field to change it.
- 7 Select Preview (optional).

### **Enabling Auto Pause®**

You can use the Auto Pause feature to pause the timer automatically when you stop moving. This feature is helpful if your activity includes stop lights or other places where you must stop.

**NOTE:** History is not recorded while the activity timer is stopped or paused.

- 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 Pause.
- 6 Select an option:
  - To pause the timer automatically when you stop moving, select When Stopped.
  - To pause the timer automatically when your pace or speed drops below a specified level, select **Custom**.

### **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.

### 3D Speed and Distance

You can set 3D speed and distance to calculate your speed or distance using both your elevation change and your horizontal movement over ground. You can use it during activities such as skiing, climbing, navigating, hiking, running, or biking.

### **Turning On and Off the Lap Key**

You can turn on the Lap Key setting to record a lap or a rest during an activity using LAP. You can turn off the Lap Key setting to avoid recording laps due to accidental key presses during an activity.

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

- 3 Select an activity.
- 4 Select the activity settings.
- 5 Select Lap Key.

The lap key status changes to On or Off based on the current setting.

## **Using Auto Scroll**

You can use the auto scroll feature to cycle through all of the activity data screens automatically while the timer is running.

- 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 Scroll.
- 6 Select a display speed.

### 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 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.

#### **GPS and Other Satellite Systems**

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

Your device can use these Global Navigation Satellite Systems (GNSS).

**GPS**: A satellite constellation built by the United States.

GLONASS: A satellite constellation built by Russia.

**GALILEO**: A satellite constellation built by the European Space Agency.

### **Power Save Timeout Settings**

The timeout settings affect how long your device stays in training mode, for example, when you are waiting for a race to start. Hold **MENU**, select **Activities & Apps**, select an activity, and select the activity settings. Select **Power Save Timeout** to adjust the timeout settings for the activity.

Normal: Sets the device to enter low-power watch mode after 5 minutes of inactivity.

**Extended**: Sets the device to enter low-power watch mode after 25 minutes of inactivity. The extended mode can result in shorter battery life between charges.

## 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.

## **Widgets**

Your device comes preloaded with widgets that provide at-a-glance information. Some widgets require a Bluetooth® connection to a compatible smartphone.

Some widgets are not visible by default. You can add them to the widget loop manually (*Customizing the Widget Loop*, page 106).

ABC: Displays combined altimeter, barometer, and compass information.

Alternate time zones: Displays the current time of day in additional time zones.

**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.

**Body Battery**<sup>™</sup>: With all day wear, displays your current Body Battery level and a graph of your level for the last several hours.

**Calendar**: Displays upcoming meetings from your smartphone calendar.

Calories: Displays your calorie information for the current day.

Device Usage: Displays the current software version and device usage statistics.

**Dive log**: Displays a brief summary of your last recorded dive.

**Dog tracking**: Displays your dog's location information when you have a compatible dog tracking device paired with your Descent™ device.

**Floors climbed**: Tracks your floors climbed and progress toward your goal.

**Garmin**<sup>®</sup> **coach**: Displays scheduled workouts when you select a Garmin coach training plan in your Garmin Connect<sup>™</sup> account.

**Golf**: Displays golf scores and statistics for your last round.

**Health stats**: Displays a dynamic summary of your current health statistics. The measurements include heart rate, Body Battery level, stress, and more.

**Heart rate**: Displays your current heart rate in beats per minute (bpm) and a graph of your average resting heart rate (RHR).

History: Displays your activity history and a graph of your recorded activities.

**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.

Last activity: Displays a brief summary of your last recorded activity, such as your last run, last ride, or last swim.

Last sport: Displays a brief summary of your last recorded sport.

Last Run: Displays a brief summary of your last recorded run.

Music controls: Provides music player controls for your smartphone or on-device music.

**My day**: Displays a dynamic summary of your activity today. The metrics include timed activities, intensity minutes, floors climbed, steps, calories burned, and more.

**Notifications**: Alerts you to incoming calls, texts, social network updates, and more, based on your smartphone notification settings.

**Performance**: Displays performance measurements that help you track and understand your training activities and race performances.

**Pulse oximeter**: Allows you to take a manual pulse oximeter reading.

**RCT camera controls**: Allows you to manually take a photo, record a video clip, and customize settings (*Using the Varia*™ *Camera Controls*, page 117).

**Respiration**: Your current respiration rate in breaths per minute and seven-day average. You can do a breathing activity to help you relax.

Sensor information: Displays information from an internal sensor or a connected wireless sensor.

Sleep: Displays total sleep time, a sleep score, and sleep stage information for the previous night.

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.

Sunrise and sunset: Displays sunrise, sunset, and civil twilight times.

**Surface interval**: Displays your surface interval time, tissue load, and central nervous system (CNS) oxygen toxicity percentage after a dive.

**Training status**: Displays your current training status and training load, which shows you how your training affects your fitness level and performance.

VIRB® controls: Provides camera controls when you have a VIRB device paired with your Descent device.

Weather: Displays the current temperature and weather forecast.

**Xero**device: Displays laser location information when you have a compatible Xero device paired with your Descent device.

### **Customizing the Widget Loop**

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

- 1 Hold MENU.
- 2 Select Widgets.
- 3 Select Widget Glances to turn widget glances on or off.

NOTE: Widget glances display summary data for multiple widgets on a single screen.

- 4 Select Edit.
- 5 Select a widget.
- 6 Select an option:
  - Press UP or DOWN to change the location of the widget in the widget loop.
  - Select w to remove the widget from the widget loop.
- 7 Select Add.
- 8 Select a widget.

The widget is added to the widget loop.

## **Using the Stress Level Widget**

The stress level widget displays your current stress level and a graph of your stress level for the last several hours. It can also guide you through a breathing activity to help you relax.

- 1 While you are sitting or inactive, press **UP** or **DOWN** from the watch face to view the stress level widget. Your current stress level appears.
  - **TIP:** If you are too active for the watch to determine your stress level, a message appears instead of a stress level number. You can check your stress level again after several minutes of inactivity.
- 2 Press **START** to view a graph of your stress level for the last four hours.
  - Blue bars indicate periods of rest. Yellow bars indicate periods of stress. Gray bars indicate times when you were too active to determine your stress level.
- 3 Press **DOWN** to view additional details about your stress level and a graph of your average stress level for the last seven days.
- 4 To start a breathing activity, press **START**, and follow the on-screen instructions.

## **Customizing the My Day Widget**

You can customize the list of metrics displayed on the My Day widget.

- 1 From the watch face, press **UP** or **DOWN** to view the **My Day** widget.
- 2 Hold MENU.
- 3 Select My Day Options.
- 4 Select the toggle switches to show or hide each metric.

# **Customizing the Controls Menu**

You can add, remove, and change the order of the shortcut menu options in the controls menu (*Viewing the Controls Menu*, page 8).

1 Hold MENU.

- Select 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.

## **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  $IQ^{\text{m}}$  store.

## **Customizing the Watch Face**

Before you can activate a Connect  $IQ^{\mathbb{T}}$  watch face, you must install a watch face from the Connect  $IQ^{\mathbb{T}}$  store (Connect  $IQ^{\mathbb{T}}$  Features, page 54).

You can customize the watch face information and appearance, or activate an installed Connect IQ watch face.

- 1 From the watch face, hold MENU.
- 2 Select Watch Face.
- 3 Press UP or DOWN to preview the watch face options.
- 4 Select Add New to scroll through additional pre-loaded watch faces.
- 5 Select START > Apply to activate a pre-loaded watch face or an installed Connect IQ watch face.
- 6 If using a pre-loaded watch face, select START > Customize.
- 7 Select an option:
  - To change the style of the numbers for the analog watch face, select Dial.
  - To change the sport for the gauges on the performance watch face, select **Select Sport**.
  - To change the style of the hands for the analog watch face, select **Hands**.
  - To change the style of the numbers for the digital watch face, select Layout.
  - To change the style of the seconds for the digital watch face, select **Seconds**.
  - To change the data that appears on the watch face, select **Data**.
  - To add or change an accent color for the watch face, select Accent Color.
  - To change the background color, select Bkgd. Color.
  - To save the changes, select Done.

## **Sensors Settings**

#### **Compass Settings**

Hold MENU, and select Sensors & Accessories > Compass.

Calibrate: Allows you to manually calibrate the compass sensor (Calibrating the Compass Manually, page 107).

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 108).

**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 (000°) as the heading reference, select **Grid**.
  - To set the magnetic variation value manually, select User, enter the magnetic variance, and select Done.

### **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.
  - 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 widget.

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

**Pressure**: Sets how the device 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.
  - To calibrate automatically from your GPS starting point, select Use GPS.

#### Xero® Laser Location Settings

Before you can customize laser location settings, you must pair a compatible Xero device (*Pairing Your Wireless Sensors*, page 115).

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 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 (*Activity Map Settings*, page 102).

Hold MENU, and select Map.

Map Theme: Sets the map to display data optimized for your activity type (Map Themes, page 109).

**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.

**Lock on Road**: Locks the position icon, which represents your position on the map, onto the nearest road.

**Track Log**: Shows or hides the track log, or the path you have traveled, as a colored line on the map.

**Track Color**: Changes the track log color.

**Detail**: Sets the amount of detail shown on the map. Showing more detail may cause the map to redraw more slowly.

Marine: Sets the map to display data in marine mode (Marine Map Settings, page 109).

**Draw Segments**: Shows or hides segments, as a colored line on the map.

Draw Contours: Shows or hides contour lines on the map.

#### **Map Themes**

You can change the map theme to display data optimized for your activity type.

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

None: Uses the preferences from the system map settings, with no additional theme applied.

Marine: Sets the map to display data in marine mode.

**High Contrast**: Sets the map to display data with higher contrast, for better visibility in challenging environments.

Dark: Sets the map to display data with a dark background, for better visibility at night.

Popularity: Highlights the most popular roads or trails on the map.

**Resort Ski**: Sets the map to display the most relevant ski data at a glance.

Restore Theme: Allows you to restore map themes that have been deleted from the device.

#### **Marine Map Settings**

You can customize how the map appears in marine mode.

Hold MENU, and select Map > Marine.

**Spot Soundings**: Enables depth measurements on the chart.

**Light Sectors**: Shows and configures the appearance of light sectors on the chart.

**Symbol Set**: Sets the chart symbols in marine mode. The NOAA option displays the National Oceanic and Atmospheric Administration chart symbols. The International option displays the International Association of Lighthouse Authorities chart symbols.

#### **Showing and Hiding Map Data**

If you have multiple maps installed on your device, you can choose the map data to show on the map.

- 1 From the watch face, press **START**.
- 2 Select Map.
- 3 Hold MENU.
- 4 Select the map settings.
- 5 Select Map > Configure Maps.
- 6 Select a map to activate the toggle switch, which shows or hides the map data.

### **Navigation Settings**

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

#### **Customizing Map Features**

1 Hold MENU.

- 2 Select Navigation > Data Screens.
- 3 Select an option:
  - Select Map to turn on or off the map.
  - Select Guide to turn on or off the guide screen that displays the compass bearing or course to follow while navigating.
  - Select Elevation Plot to turn on or off the elevation plot.
  - Select a screen to add, remove, or customize.

### **Setting Up a Heading Bug**

You can set up a heading indicator to display on your data pages while navigating. The indicator points to your target heading.

- 1 Hold MENU
- 2 Select Navigation > Heading Bug.

### **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.
  - To enable turn-by-turn navigation prompts, select Turn Prompts.
- 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 110).

**Power Modes**: Allows you to customize system settings, activity settings, and GPS settings to extend battery life during an activity (*Customizing Power Modes*, page 111).

Battery Percentage: Displays remaining battery life as a percentage.

Battery Estimates: Displays remaining battery life as an estimated number of days or hours.

### **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 (Viewing the Controls Menu, page 8).

- 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 **Music** to disable listening to music from your watch.
  - Select **Phone** to disconnect your paired phone.
  - Select Wi-Fi to disconnect from a Wi-Fi® network.
  - Select Activity Tracking to turn off all-day activity tracking, including steps, floors climbed, intensity
    minutes, sleep tracking, and Move IQ events.
  - Select Wrist Heart Rate to turn off the wrist heart rate monitor.
  - 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.

### **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 New 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 > Yes.

### **System Settings**

Hold MENU, and select System.

Language: Sets the language displayed on the device.

**Time**: Adjusts the time settings (*Time Settings*, page 111).

Backlight: Adjusts the backlight settings (Changing the Backlight Settings, page 112).

**Sounds**: Sets the device sounds, such as key tones, alerts, and vibrations.

**Do Not Disturb**: Turns on or off 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 device keys (Customizing the Hot Keys, page 112).

**Auto Lock**: Allows you to lock the keys automatically to prevent accidental key presses. Use the During Activity option to lock the keys during a timed activity. Use the Not During Activity option to lock the keys when you are not recording a timed activity.

Units: Sets the units of measure used on the device (Changing the Units of Measure, page 112).

**Format**: Sets general format preferences, such as the pace and speed shown during activities, the start of the week, and geographical position format and datum options.

**Data Recording**: Sets how the device 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 device to use MTP (media transfer protocol) or Garmin® mode when connected to a computer.

Reset: Allows you to reset user data and settings (Resetting All Default Settings, page 122).

**Software Update**: Allows you to install software updates downloaded using Garmin Express<sup>™</sup>. Use the Auto Update option to enable your device to download the latest software update when a Wi-Fi<sup>®</sup> connection is available.

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 watch. 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 Time Alerts*, page 112).

**Time Sync**: Allows you to manually sync the time when you change time zones, and to update for daylight saving time (*Syncing the Time*, page 112).

### **Setting Time Alerts**

- 1 Hold MENU.
- 2 Select System > Time > 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 every hour, select **Hourly > On**.

#### Syncing the Time

Each time you turn on the device and acquire satellites or open the Garmin Connect<sup>™</sup> app on your paired phone, the device automatically detects your time zones and the current time of day. You can also manually sync the time when you change time zones, and to update for daylight saving time.

- 1 Hold MENU.
- 2 Select System > Time > Time Sync.
- **3** Wait while the device connects to your paired phone or locates satellites (Acquiring Satellite Signals, page 122).

TIP: You can press DOWN to switch the source.

### **Changing the Backlight Settings**

- 1 Hold MENU.
- 2 Select System > Backlight.
- 3 Select an option:
  - Select In-Dive.
  - Select During Activity.
  - Select Not During Activity.
  - Select During Sleep.
- 4 Select an option:
  - Select **Mode** to turn on the backlight at depth or throughout your dive.
  - Select Kevs to turn on the backlight for key presses.
  - Select Alerts to turn on the backlight for alerts.
  - Select **Gesture** to turn on the backlight by raising and turning your arm to look at your wrist.
  - Select **Timeout** to set the length of time before the backlight turns off.
  - Select **Brightness** to set the brightness level of the backlight.

#### **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, weight, height, and temperature.

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

## **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**.

## **Wireless Sensors**

Your watch can be paired and used with wireless sensors using ANT+° or Bluetooth° technology (*Pairing Your Wireless Sensors*, page 115). After the devices are paired, you can customize the optional data fields (*Customizing the Data Screens*, page 100). 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
Applied Ballis-	You can use Applied Ballistics® devices, such as rangefinders or wind sensors, and view additional
tics	ballistics information on your watch.
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.
eBike	You can use your watch with your eBike and view bike data, such as battery and shifting information, during your rides.
Extended Display	You can use the Extended Display mode to display data screens from your Descent™ watch on a compatible Edge® bike computer during a ride or triathlon.
External Heart Rate	You can use an external sensor, such as the HRM-Pro™ series or HRM-Fit™ heart rate monitor, to view heart rate data during your activities. Some heart rate monitors can also store data or provide advanced running data ( <i>Running Dynamics</i> , page 115).
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.
Headphones	You can use Bluetooth headphones to listen to music loaded onto your Descent watch (Connecting Bluetooth® Headphones, page 62).
inReach	The inReach® remote function allows you to control your inReach satellite communicator using your Descent watch ( <i>Using the inReach® Remote</i> , page 117).
Lights	You can use Varia™ smart bike lights to improve situational awareness.
Muscle 02	You can use a muscle oxygen sensor to view hemoglobin and muscle oxygen saturation data while you train.
Power	You can use the Rally™ or Vector™ power meter bike pedals 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 78), or use range alerts to be notified when you reach a specified power zone (Setting an Alert, page 101).
Radar	You can use a Varia rearview bike radar to improve situational awareness and send alerts about approaching vehicles. With a Varia radar camera tail light, you can also take photos and record video during a ride ( <i>Using the Varia</i> ** Camera Controls, page 117).
RD Pod	You can use a Running Dynamics Pod to record running dynamics data and view it on your watch ( <i>Running Dynamics</i> , page 115).
Shifting	You can use electronic shifters to display shifting information during a ride. The Descent watch displays current adjustment values when the sensor is in adjustment mode.
Shimano Di2	You can use Shimano® Di2™ electronic shifters to display shifting information during a ride. The Descent watch displays current adjustment values when the sensor is in adjustment mode.
Smart Trainer	You can use your watch with an indoor bike smart trainer to simulate resistance while following a course, ride, or workout ( <i>Using an Indoor Trainer</i> , page 30).
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 ( <i>Wheel Size and Circumference</i> , page 132).
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.
Vectronix	You can use Vectronix® rangefinders, and view additional ballistics information on your watch.
VIRB	The VIRB® remote function allows you to control your VIRB action camera using your watch (VIRB® Remote, page 118).
XERO Laser Locations	You can view and share laser location information from a Xero® device (Xero® Laser Location Settings, page 108).

### **Pairing Your Wireless Sensors**

Before you can pair, you must put on the heart rate monitor or install the sensor.

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 Bring the watch within 3 m (10 ft.) of the sensor.
  - NOTE: Stay 10 m (33 ft.) away from other wireless sensors while pairing.
- 2 Hold MENU.
- 3 Select Sensors & Accessories > Add New.
- 4 Select an option:
  - Select Search All Sensors.
  - 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 100).

### **HRM-Pro**<sup>™</sup> Running Pace and Distance

The HRM-Pro series accessory calculates your running pace and distance based on your user profile and the motion measured by the sensor on every stride. The heart rate monitor provides running pace and distance when GPS is not available, such as during treadmill running. You can view your running pace and distance on your compatible Descent<sup>™</sup> watch when connected using ANT+\* technology. You can also view it on compatible third-party training apps when connected using Bluetooth\* technology.

The pace and distance accuracy improves with calibration.

**Automatic calibration**: The default setting for your watch is **Auto Calibrate**. The HRM-Pro series accessory calibrates each time you run outside with it connected to your compatible Descent watch.

**NOTE:** Automatic calibration does not work for indoor, trail, or ultra run activity profiles (*Tips for Recording Running Pace and Distance*, page 115).

**Manual calibration**: You can select **Calibrate & Save** after a treadmill run with your connected HRM-Pro series accessory (*Calibrating the Treadmill Distance*, page 29).

### **Tips for Recording Running Pace and Distance**

- Update your Descent<sup>™</sup> watch software (*Product Updates*, page 10).
- Complete several outdoor runs with GPS and your connected HRM-Pro™ series accessory. It's important that
  your outdoor range of paces matches your range of paces on the treadmill.
- If your run includes sand or deep snow, go to the sensor settings, and turn off Auto Calibrate.
- If you previously connected a compatible foot pod using ANT+® technology, set the foot pod status to **Off**, or remove it from the list of connected sensors.
- Complete a treadmill run with manual calibration (Calibrating the Treadmill Distance, page 29).
- If automatic and manual calibrations don't seem accurate, go to the sensor settings, and select HRM Pace & Distance > Reset Calibration Data.

**NOTE**: You can try turning off **Auto Calibrate**, and then manually calibrate again (*Calibrating the Treadmill Distance*, page 29).

## **Running Dynamics**

You can use your compatible Descent<sup>™</sup> device paired with the HRM-Pro<sup>™</sup> 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. For more information, go to garmin.com/performance-data/running.

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 115).

- 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 27).
- 8 Select **UP** or **DOWN** to open a running dynamics screen to view your metrics.

### **Color Gauges and Running Dynamics Data**

The running dynamics screens display a color gauge for the primary metric. You can display cadence, vertical oscillation, ground contact time, ground contact time balance, or vertical ratio as the primary metric. The color gauge shows you how your running dynamics data compare to those of other runners. The color zones are based on percentiles.

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**

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
<b>Percent of Other Runners</b>	5%	25%	40%	25%	5%
<b>Ground Contact Time Balance</b>	>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**

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™ series, 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%

### **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.

## **Using the Varia**<sup>™</sup> Camera Controls

#### **NOTICE**

Some jurisdictions may prohibit or regulate the recording of video, audio, or photographs, or may require that all parties have knowledge of the recording and provide consent. It is your responsibility to know and follow all laws, regulations, and any other restrictions in jurisdictions where you plan to use this device.

Before you can use the Varia camera controls, you must pair the accessory with your watch (*Pairing Your Wireless Sensors*, page 115).

- 1 Add the RCT Camera widget to your watch (Widgets, page 105).
- 2 From the RCT Camera widget, select an option:
  - Select to view the camera settings.
  - Select o to take a photo.
  - Select ➤ to save a clip.

#### inReach® Remote

The inReach remote function allows you to control your inReach device using your Descent<sup>™</sup> 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 widget to the widget loop (*Customizing the Widget Loop*, page 106).

- 1 Turn on the inReach device.
- 2 On your Descent™ watch, press **UP** or **DOWN** from the watch face to view the inReach widget.
- 3 Press START to search for your inReach device.
- 4 Press **START** to pair your inReach device.

- 5 Press START, 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 Descent<sup>™</sup> watch (*Pairing Your Wireless Sensors*, page 115). The VIRB widget is automatically added to the widget loop.
- 3 Press UP or DOWN from the watch face to view the VIRB widget.
- 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 Descent screen.
  - To take a photo while recording video, press **DOWN**.
  - To stop recording video, press STOP.
  - 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 Descent<sup>™</sup> watch (Pairing Your Wireless Sensors, page 115).
  - When the camera is paired, a VIRB data screen is automatically added to activities.
  - **NOTE:** The VIRB data screen is not available for dive 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 Descent screen.
  - To take a photo while recording video, press DOWN.
  - To manually stop recording video, press STOP.
  - 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.

## **Device Information**

## **Descent<sup>™</sup> Specifications**

<del>_</del>	
Battery type	Rechargeable, built-in lithium-ion battery
Descent Mk2s battery life	Up to 7 days in smartwatch mode
Descent Mk2 battery life	Up to 16 days in smartwatch mode
Water rating	10 ATM <sup>1</sup>
	Dive (EN 13319) <sup>2</sup>
Decompression model	Bühlmann ZHL-16C
Depth sensor	Accurate from 0 m to 100 m (0 ft. to 328 ft.) complying with EN 13319 Resolution (m): 0.1 m until 99.9 m, 1 m at 100 m Resolution (ft.): 1 ft.
Inspection interval	Inspect parts before each use for damage. Replace parts as needed. <sup>3</sup>
Operating and storage temperature range	From -20° to 50°C (from -4° to 122°F)
Underwater operating temperature range	From 0° to 40°C (from 32° to 104°F)
Charging temperature range	From 0° to 45°C (from 32° to 113°F)
Wireless frequency	Descent Mk2: 2.4 GHz @ 11.7 dBm maximum, Descent Mk2s: 2.4 GHz @ 10.8 dBm maximum

### **Battery Information**

The actual battery life depends on the features enabled on your device, such as activity tracking, wrist-based heart rate, smartphone notifications, GPS, internal sensors, and connected sensors.

Mode	Descent™ Mk2s Battery Life	Descent Mk2 Battery Life
Smartwatch mode with activity tracking and 24/7 wrist-based heart rate monitoring	Up to 7 days	Up to 16 days
GPS+GLONASS mode	Up to 18 hr.	Up to 48 hr.
GPS mode with streaming music	Up to 6 hr.	Up to 15 hr.
Max. battery GPS mode	Up to 32 hr.	Up to 96 hr.
Expedition GPS mode	Up to 15 days	Up to 35 days
Battery saver watch mode	Up to 21 days	Up to 50 days
Dive mode	Up to 30 hr.	Up to 80 hr.

### **Device Maintenance**

#### **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.

Do not wash the device under high pressure, because jets of water or air may cause damage to the depth sensor or barometer.

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.

<sup>&</sup>lt;sup>1</sup> The device withstands pressure equivalent to a depth of 100 m. For more information, go to www.garmin.com/waterrating.

<sup>&</sup>lt;sup>2</sup> Designed to comply with CSN EN 13319.

<sup>&</sup>lt;sup>3</sup> Aside from normal wear and tear, performance is not affected by aging.

Discontinue use if the device is damaged or if it is stored at a temperature outside the specified storage temperature range.

#### 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.

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

- 1 Rinse with water, or use a damp lint-free cloth.
- 2 Allow the watch to dry completely.

### Changing the QuickFit® Bands

1 Slide the latch on the QuickFit band, and remove the band from the watch.



- 2 Align the new band with the watch.
- **3** Press the band into place.

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

4 Repeat steps 1 through 3 to change the other band.

#### **Extra Long Diving Band**

Your device comes with an extra long band you can wear over a thick exposure suit.

#### **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:** Mac® operating systems provide limited support for MTP file transfer mode. You must open the Garmin drive on a Windows® operating system. You should use the Garmin Express™ application to remove music files from your device.

## **Troubleshooting**

### 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 START.
- 3 Press START.
- 4 Select your language.

### Is my phone compatible with my watch?

The Descent<sup>™</sup> 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 Dive<sup>™</sup> app to the latest version.
- Remove your watch from the Garmin Dive 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 Dive 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 Dive 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 Sensors.
  - Select your sensor type.

You can customize the optional data fields (Customizing the Data Screens, page 100).

## My headphones will not connect to the watch

If your Bluetooth® headphones were previously connected to your phone, they may connect to your phone automatically instead of connecting to your watch. You can try these tips.

- Turn off Bluetooth technology on your phone.
  - Refer to the owner's manual for your phone for more information.
- Stay 10 m (33 ft.) away from your phone while connecting your headphones to your watch.
- Pair your headphones with your watch (Connecting Bluetooth® Headphones, page 62).

## My music cuts out or my headphones won't stay connected

When using a Descent<sup>™</sup> watch connected to Bluetooth<sup>®</sup> headphones, the signal is strongest when there is a direct line of sight between the watch and the antenna on the headphones.

- If the signal passes through your body, you may experience signal loss or your headphones may become
  disconnected.
- If you wear your Descent watch on your left wrist, you should make sure the headphone's Bluetooth antenna is on your left ear.
- Since headphones vary by model, you can try wearing the watch on your other wrist.

 If you are using metal or leather watch bands, you can switch to silicone watch bands to improve signal strength.

### **Restarting Your Watch**

- 1 Hold LIGHT until the watch turns off.
- 2 Hold LIGHT to turn on the watch.

### **Resetting All Default Settings**

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

You can reset all of the watch settings to the factory default values.

- 1 From the watch face, hold MENU.
- 2 Select System > Reset.
- 3 Select an option:
  - To reset all of the watch settings to the factory default values and save all user-entered information and activity history, select Reset Default Settings.
  - To delete all activities from the history, select **Delete All Activities**.
  - To reset all distance and time totals, select **Reset Totals**.
  - 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. If you have music stored on your watch, this option deletes your stored music.

### **Diving**

### **Resetting Your Tissue Load**

You can reset your current tissue load saved on the device. You should reset your tissue load only if you do not plan to use the device again in the future. This can be useful for dive shops that provide devices for rent.

- 1 Hold MENU
- 2 Select System > Reset > Reset Tissues.

### **Resetting the Surface Pressure**

The device automatically determines the surface pressure using the barometric altimeter. Large pressure changes, such as during a flight, can cause the watch to automatically start a dive activity. If the watch starts a dive activity incorrectly, you can reset the surface pressure by connecting the watch to a computer. If you do not have access to a computer, you can reset the surface pressure manually.

- 1 Hold LIGHT until the watch turns off.
- 2 Hold LIGHT to turn on the watch.
- 3 When the product logo appears, hold **MENU** until you are prompted to reset the surface pressure.

## **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 watch should be oriented with 6 o'clock pointing toward the sky.

2 Wait while the device locates satellites.

It may take 30 to 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 Dive™ app using your Bluetooth® enabled phone.
  - Connect your watch to your Garmin account using a Wi-Fi® wireless network.

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.

### **Maximizing the Battery Life**

You can do several things to extend the life of the battery.

- Change the power mode during an activity (Changing the Power Mode, page 27).
- Turn on the battery saver feature from the controls menu (Viewing the Controls Menu, page 8).
- Reduce the backlight timeout (Changing the Backlight Settings, page 112).
- · Reduce the backlight brightness.
- Use UltraTrac GPS mode for your activity (Changing the GPS Setting, page 104).
- Turn off Bluetooth® technology when you are not using connected features (Connected Features, page 51).
- When pausing your activity for a longer period of time, use the resume later option (Stopping an Activity, page 28).
- Turn off activity tracking (Turning Off Activity Tracking, page 80).
- 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 107).
- Limit the smartphone notifications the device displays (Managing Notifications, page 52).
- Stop broadcasting heart rate data to paired Garmin® devices (*Broadcasting Heart Rate Data*, page 65).
- Turn off wrist-based heart rate monitoring (Turning Off the Wrist-based Heart Rate Monitor, page 65).
  - **NOTE:** Wrist-based heart rate monitoring is used to calculate vigorous intensity minutes and calories burned.
- Turn on manual pulse oximeter readings (Turning Off Automatic Pulse Oximeter Readings, page 76).

### **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 watch and my Garmin Connect™ account don't match

The step count on your Garmin Connect account updates when you sync your watch.

- 1 Select an option:
  - Sync your step count with the Garmin Express<sup>™</sup> application (Using Garmin Connect<sup>™</sup> on Your Computer, page 54).
  - Sync your step count with the Garmin Connect app (Manually Syncing Data with Garmin Connect™, page 54).
- 2 Wait while your data syncs.

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.

### **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.

## **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.

% Functional Threshold Power: The current power output as a percentage of functional threshold power.

% Heart Rate Reserve: The percentage of heart rate reserve (maximum heart rate minus resting heart rate).

**10s Balance**: The 10-second moving average of the left/right power balance.

10s Power: The 10-second moving average of power output.

**24-Hour Maximum**: The maximum temperature recorded in the last 24 hours from a compatible temperature sensor.

**24-Hour Minimum**: The minimum temperature recorded in the last 24 hours from a compatible temperature sensor

**30s Balance**: The 30-second moving average of the left/right power balance.

30s Power: The 30-second moving average of power output.

3s Balance: The three-second moving average of the left/right power balance.

**3s Power**: The 3-second moving average of power output.

**500m Pace**: The current rowing pace per 500 meters.

Aerobic Training Effect: The impact of the current activity on your aerobic fitness level.

Ambient Pressure: The uncalibrated environmental pressure.

Anaerobic Training Effect: The impact of the current activity on your anaerobic fitness level.

Ascent Rate: The current rate of ascent toward the surface.

**Average** % **Heart Rate Reserve**: The average percentage of heart rate reserve (maximum heart rate minus resting heart rate) for the current activity.

Average 500m Pace: The average rowing pace per 500 meters for the current activity.

Average Ascent: The average vertical distance of ascent since the last reset.

**Average Balance**: The average left/right power balance for the current activity.

**Average Cadence**: Cycling. The average cadence for the current activity.

**Average Cadence**: Running. The average cadence for the current activity.

Average Descent: The average vertical distance of descent since the last reset.

Average Distance Per Stroke: Swimming. The average distance traveled per stroke during the current activity.

Average Distance Per Stroke: Paddle sports. The average distance traveled per stroke during the current activity.

Average GCT Balance: The average ground contact time balance for the current session.

Average Ground Contact Time: The average amount of ground contact time for the current activity.

**Average Heart Rate**: The average heart rate for the current activity.

Average Heart Rate %Max.: The average percentage of maximum heart rate for the current activity.

Average Lap Time: The average lap time for the current activity.

Average Left Power Phase: The average power phase angle for the left leg for the current activity.

**Average Moving Speed**: The average speed when moving for the current activity.

Average Nautical Speed: The average speed in knots for the current activity.

**Average Overall Speed**: The average speed for the current activity, including both moving and stopped speeds.

Average Pace: The average pace for the current activity.

**Average Power**: The average power output for the current activity.

**Average Right Power Phase**: The average power phase angle for the right leg for the current activity.

**Average Speed**: The average speed for the current activity.

**Average Stride Length**: The average stride length for the current session.

Average Stroke Rate: Paddle sports. The average number of strokes per minute (spm) during the current activity.

Average Strokes Per Length: The average number of strokes per pool length during the current activity.

**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 36). In open water swimming, 25 meters is used to calculate your swolf score.

Average Vertical Oscillation: The average amount of vertical oscillation for the current activity.

Average Vertical Ratio: The average ratio of vertical oscillation to stride length for the current session.

Avg. Left Peak Power Phase: The average power phase peak angle for the left leg 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.

Avg. Platform Center Offset: The average platform center offset for the current activity.

Avg. Right Peak Power Phase: The average power phase peak angle for the right leg for the current activity.

**Avg. SOG**: The average speed of travel for the current activity, regardless of the course steered and temporary variations in heading.

**Avg Temperature**: The average temperature during the activity.

Balance: The current left/right power balance.

Barometric Pressure: The current calibrated environmental pressure.

Battery Hours: The number of hours remaining before the battery power is depleted.

Battery Percentage: The percentage of the battery power remaining.

**Bearing**: The direction from your current location to a destination. You must be navigating for this data to appear.

**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).

Cadence Gauge: Running. A color gauge showing your current cadence range.

Calories: The amount of total calories burned.

**CNS**: Your current central nervous system oxygen toxicity percentage.

**COG**: The actual direction of travel, regardless of the course steered and temporary variations in heading.

Compass Gauge: The direction you are moving based on the compass.

**Compass Heading**: The direction you are moving based on the compass.

**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.

**Current Gas PO2**: The partial pressure of oxygen (PO2) of the diluent gas during a closed-circuit rebreather (CCR) dive.

**Destination Location**: The position of your final destination.

**Destination Waypoint**: The last point on the route to the destination. You must be navigating for this data to appear.

**Di2 Battery**: The remaining battery power of a Di2 sensor.

**Distance**: The distance traveled for the current track or activity.

**Distance Per Stroke**: Paddle sports. The distance traveled per stroke.

**Distance 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.

**Distance to Start Line**: The remaining distance to the race starting line. You must be navigating for this data to appear.

**Dive Number**: The number of dives you have completed.

eBike Battery: The remaining battery power of an ebike.

eBike Range: The estimated remaining distance the ebike can provide assistance.

**Elapsed Time**: The total time recorded. For example, if you start the 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.

**Elevation**: The altitude of your current location above or below sea level.

**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.

**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.

**Flow**: The measurement of how consistently you maintain speed and smoothness through turns in the current activity.

**Front**: The front bike gear from a gear position sensor.

GCT Balance: The left/right balance of ground contact time while running.

GCT Balance Gauge: A color gauge showing the left/right balance of ground contact time while running.

**Gear Battery**: The battery status of a gear position sensor.

**Gear Combo**: The current gear combination from a gear position sensor.

Gear Ratio: The number of teeth on the front and rear bike gears, as detected by a gear position sensor.

**Gears**: The front and rear bike gears from a gear position sensor.

Glide Ratio: The ratio of horizontal distance traveled to the change in vertical distance.

**Glide Ratio to Destination**: The glide ratio required to descend from your current position to the destination elevation. You must be navigating for this data to appear.

GPS: The strength of the GPS satellite signal.

GPS Elevation: The altitude of your current location using GPS.

GPS Heading: The direction you are moving based on 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%.

**Grit**: The measurement of difficulty for the current activity based on elevation, gradient, and rapid changes in direction.

**Ground Contact Time**: 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.

**Ground Contact Time Gauge**: A color gauge showing the amount of time in each step that you spend on the ground while running, measured in milliseconds.

**Heading**: The direction you are moving.

**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.

**Heart Rate** %Max.: The percentage of maximum heart rate.

**Heart Rate Gauge**: A color gauge showing your current heart rate zone.

**Heart Rate 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).

**Intensity Factor**: The Intensity Factor<sup>™</sup> for the current activity.

**Interval Average** %HRR: The average percentage of heart rate reserve (maximum heart rate minus resting heart rate) for the current swim interval.

Interval Average %Max.: The average percentage of maximum heart rate for the current swim interval.

Interval Average Heart Rate: The average heart rate for the current swim interval.

Interval Distance: The distance traveled for the current interval.

Interval Lengths: The number of pool lengths completed during the current interval.

**Interval Maximum** %HRR: The maximum percentage of heart rate reserve (maximum heart rate minus resting heart rate) for the current swim interval.

Interval Maximum %Max.: The maximum percentage of maximum heart rate for the current swim interval.

Interval Maximum Heart Rate: The maximum heart rate for the current swim interval.

**Interval Pace**: The average pace for the current interval.

Interval Stroke Rate: The average number of strokes per minute (spm) during the current interval.

Interval Strokes Per Length: The average number of strokes per pool length during the current interval.

**Interval Stroke Type**: The current stroke type for the interval.

**Interval Swolf**: The average swolf score for the current interval.

**Interval Time**: The stopwatch time for the current interval.

**Lap** % **Heart Rate Reserve**: The average percentage of heart rate reserve (maximum heart rate minus resting heart rate) for the current lap.

Lap 500m Pace: The average rowing pace per 500 meters for the current lap.

Lap Ascent: The vertical distance of ascent for the current lap.

**Lap Balance**: The average left/right power balance for the current lap.

**Lap Cadence**: Cycling. The average cadence for the current lap.

Lap Cadence: Running. The average cadence for the current lap.

**Lap Descent**: The vertical distance of descent for the current lap.

**Lap Distance**: The distance traveled for the current lap.

Lap Distance Per Stroke: Swimming. The average distance traveled per stroke during the current lap.

Lap Distance Per Stroke: Paddle sports. The average distance traveled per stroke during the current lap.

Lap Flow: The overall flow score for the current lap.

**Lap GCT Balance**: The average ground contact time balance for the current lap.

**Lap Grit**: The overall grit score for the current lap.

Lap Ground Contact Time: The average amount of ground contact time for the current lap.

Lap Heart Rate: The average heart rate for the current lap.

Lap Heart Rate %Max.: The average percentage of maximum heart rate for the current lap.

Lap Left Peak Power Phase: The average power phase peak angle for the left leg for the current lap.

Lap Left Power Phase: The average power phase angle for the left leg for the current lap.

Lap Normalized Power: The average Normalized Power for the current lap.

**Lap Pace**: The average pace for the current lap.

Lap Platform Center Offset: The average platform center offset for the current lap.

**Lap Power**: The average power output for the current lap.

Lap Right Peak Power Phase: The average power phase peak angle for the right leg for the current lap.

Lap Right Power Phase: The average power phase angle for the right leg for the current lap.

Laps: The number of laps completed 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.

**Lap Stride Length**: The average stride length for the current lap.

Lap Stroke Rate: Swimming. The average number of strokes per minute (spm) during the current lap.

Lap Stroke 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.

Lap Swolf: The swolf score for the current lap.

**Lap Time**: The stopwatch time for the current lap.

Lap Vertical Oscillation: The average amount of vertical oscillation for the current lap.

**Lap Vertical Ratio**: The average ratio of vertical oscillation to stride length for the current lap.

Last Dive Ascent Time: The amount of time you spent ascending to the surface during the last dive.

**Last Dive Avg. Asc. Rate**: The average rate of ascent during the last dive.

Last Dive Avg. Desc. Rate: The average rate of descent during the last dive.

Last Dive Avg Heart Rate: Your average heart rate during the last dive.

**Last Dive Avg Temperature**: The average temperature during the last dive.

Last Dive Beginning Heart Rate: Your heart rate at the beginning of the last dive.

**Last Dive Depth**: The maximum depth achieved during the last dive.

Last Dive Descent Time: The amount of time you spent descending to the maximum depth during the last dive.

**Last Dive Ending Heart Rate**: Your heart rate at the end of the last dive.

Last Dive Hang Time: The amount of time you spent neither ascending nor descending during the last dive.

Last Dive Max Asc. Rate: The maximum rate of ascent during the last dive.

Last Dive Max Desc. Rate: The maximum rate of descent during the last dive.

Last Dive Max Heart Rate: Your maximum heart rate during the last dive.

**Last Dive Max Temperature**: The maximum temperature during the last dive.

Last Dive Min Heart Rate: Your minimum heart rate during the last dive.

**Last Dive Min Temperature**: The minimum temperature during the last dive.

Last Dive Time: The amount of time you spent below the surface during the last dive.

**Last Lap %HRR**: The average percentage of heart rate reserve (maximum heart rate minus resting heart rate) for the last completed lap.

Last Lap 500m Pace: The average rowing pace per 500 meters for the last lap.

Last Lap Ascent: The vertical distance of ascent for the last completed lap.

Last Lap Cadence: Cycling. The average cadence for the last completed lap.

Last Lap Cadence: Running. The average cadence for the last completed lap.

Last Lap Descent: The vertical distance of descent for the last completed lap.

**Last Lap Distance**: The distance traveled for the last completed lap.

**Last Lap Distance Per Stroke**: Swimming. The average distance traveled per stroke during the last completed lap.

**Last Lap Distance Per Stroke**: Paddle sports. The average distance traveled per stroke during the last completed lap.

Last Lap Heart Rate: The average heart rate for the last completed lap.

Last Lap Heart Rate %Max.: The average percentage of maximum heart rate for the last completed lap.

Last Lap Max. Power: The top power output for the last completed lap.

Last Lap Normalized Power: The average Normalized Power for the last completed lap.

Last Lap Pace: The average pace for the last completed lap.

Last Lap Power: The average power output for the last completed 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 Lap Stroke Rate**: Swimming. The average number of strokes per minute (spm) during the last completed lap.

**Last Lap Stroke Rate**: Paddle sports. The average number of strokes per minute (spm) during the last completed lap.

Last Lap Strokes: Swimming. The total number of strokes for the last completed lap.

Last Lap Strokes: Paddle sports. The total number of strokes for the last completed lap.

Last Lap Swolf: The swolf score for the last completed lap.

**Last Lap Time**: The stopwatch time for the last completed lap.

**Last Length Pace**: The average pace for your last completed pool length.

Last Length Stroke Rate: The average number strokes per minute (spm) during the last completed pool length.

**Last Length Strokes**: The total number of strokes for the last completed pool length.

**Last Length Stroke Type**: The stroke type used during the last completed pool length.

Last Length Swolf: The swolf score for the last completed pool length.

Lat/Lon: The current position in latitude and longitude regardless of the selected position format setting.

**Left Peak Power Phase**: 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 Power Phase**: The current power phase angle for the left leg. Power phase is the pedal stroke region where positive power is produced.

**Lengths**: The number of pool lengths completed during 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.

**Location**: The current position using the selected position format setting.

**Max. Nautical SOG**: The maximum speed of travel in knots for the current activity, regardless of the course steered and temporary variations in heading.

Maximum Ascent: The maximum rate of ascent in feet per minute or meters per minute since the last reset.

Maximum Depth: The maximum depth descended during a dive.

Maximum Descent: The maximum rate of descent in meters per minute or feet per minute since the last reset.

Maximum Elevation: The highest elevation reached since the last reset.

**Maximum Lap Power**: The top power output for the current lap.

Maximum Nautical Speed: The maximum speed in knots for the current activity.

**Maximum Power**: The top power output for the current activity.

**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 Temperature**: The maximum temperature during the activity.

**Minimum Elevation**: The lowest elevation reached since the last reset.

Min Temperature: The minimum temperature during the activity.

**Moving Time**: The total time moving for the current activity.

Multisport Time: The total time for all sports in a multisport activity, including transitions.

Muscle O2 Saturation %: The estimated muscle oxygen saturation percentage for the current activity.

N2/He Load: Your current nitrogen and helium tissue load level.

Nautical Distance: The distance traveled in nautical meters or nautical feet.

**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.

**Next Split Distance**: Running. The total distance of the next split. **Next Split Target Pace**: Running. The target pace for the next split.

**Next Waypoint**: The next point on the route. You must be navigating for this data to appear.

Normalized Power: The Normalized Power<sup>™</sup> for the current activity.

**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.

**OTU**: Your current oxygen toxicity units.

Overall Ahead/Behind: Running. The overall time ahead or behind of the target pace.

Pace: The current pace.

PacePro Gauge: Running. Your current split pace and your target split pace.

**Pedal Smoothness**: The measurement of how evenly a rider is applying force to the pedals throughout each pedal stroke.

**Performance Condition**: The performance condition score is a real-time assessment of your ability to perform.

**Platform Center Offset**: 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**: Skiing. The current power output in watts. Your device must be connected to a compatible heart rate monitor.

Power Gauge: A color gauge showing your current power zone.

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.

Race Timer: The time elapsed in the current sail race.

**Rear**: The rear bike gear from a gear position sensor.

Repeat On: The timer for the last interval plus the current rest (pool swimming).

Reps: During a strength training activity, the number of repetitions in a workout set.

Respiration Rate: Your respiration rate in breaths per minute (brpm).

**Rest Timer**: The timer for the current rest (pool swimming).

**Right Peak Power Phase**: 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 Power Phase**: The current power phase angle for the right leg. Power phase is the pedal stroke region where positive power is produced.

Set Timer: During a strength training activity, the amount of time spent in the current workout set.

**Speed**: The current rate of travel.

**Speed Over Ground**: The actual speed of travel, regardless of the course steered and temporary variations in heading.

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. **Steps**: The number of steps taken during the current activity. **Stopped Time**: The total time stopped for the current activity.

Stress: Your current stress level.

Stride Length: The length of your stride from one footfall to the next, measured in meters.

**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.

Sunrise: The time of sunrise based on your GPS position.

**Sunset**: The time of sunset based on your GPS position.

**Surface Distance**: The surface distance between the dive entry and exit points during the dive activity.

Surface Gradient Factor: The expected gradient factor if the diver were to instantaneously surface.

**Surface Time**: The amount of time elapsed since surfacing from a dive.

**Swim Time**: The swimming time for the current activity, not including rest time.

**Temperature**: The environmental temperature during the activity. 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.

Time in Zone: The time elapsed in each heart rate or power zone.

**Time of Day**: The time of day based on your current location and time settings (format, time zone, daylight saving time).

Time of Day (Seconds): The time of day including seconds.

**Timer**: The current time of the countdown timer.

Time Seated: The time spent seated while pedaling for the current activity.

**Time Seated Lap**: The time spent seated while pedaling for the current lap.

**Time Standing**: The time spent standing while pedaling for the current activity.

**Time Standing Lap**: The time spent standing while pedaling for the current lap.

**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.

**Time to Surface**: The amount of time required to safely ascend to the surface.

**Torque Efficiency**: The measurement of how efficiently a rider is pedaling.

**Total Ascent**: The total elevation distance ascended since the last reset.

**Total Ascent/Descent Gauge**: The total elevation distances ascended and descended during the activity or since the last reset.

Total Descent: The total elevation distance descended since the last reset.

Total Dive Time: The total amount of time spent below the surface during the dive activity.

**Total Hemoglobin**: The estimated total hemoglobin concentration in the muscle.

Training Effect Gauge: The impact of the current activity on your aerobic and anaerobic fitness levels.

**Training Stress Score**: The Training Stress Score<sup>™</sup> for the current activity.

**Velocity Made Good**: The speed at which you are closing on a destination along a route. You must be navigating for this data to appear.

**Vertical Dist. to Dest.**: The elevation distance between your current position and the final destination. You must be navigating for this data to appear.

**Vertical Oscillation**: The amount of bounce while you are running. The vertical motion of your torso, measured in centimeters for each step.

Vertical Oscillation Gauge: A color gauge showing the amount of bounce while you are running.

Vertical Ratio: The ratio of vertical oscillation to stride length.

Vertical Ratio Gauge: A color gauge showing the ratio of vertical oscillation to stride length.

Vertical Speed: The rate of ascent or descent over time.

**Vertical Speed to Target**: The rate of ascent or descent to a predetermined altitude. You must be navigating for this data to appear.

Work: The accumulated work performed (power output) in kilojoules.

### **VO2 Max. Standard Ratings**

These tables include standardized classifications for VO2 max. estimates by age and sex.

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 sex.

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
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

Tire Size	Wheel Circumference (mm)
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.

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