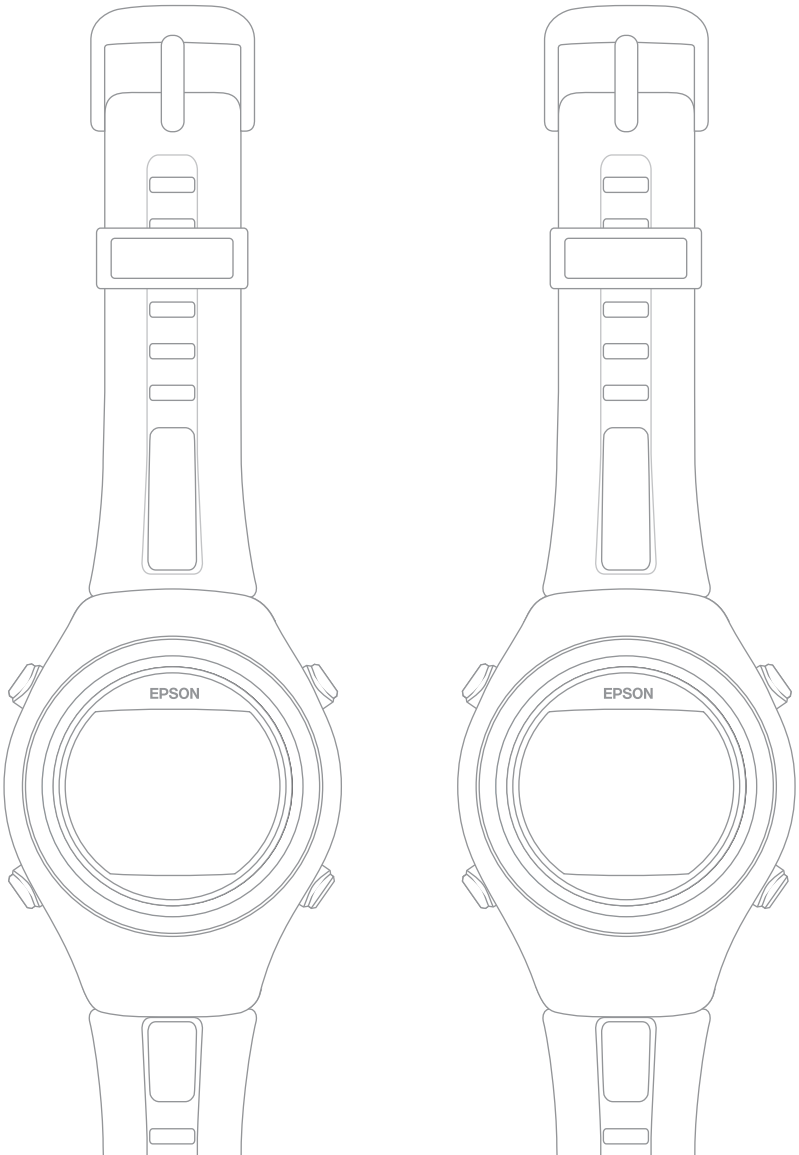
EPSON

GPS Sports Monitor

WristableGPS

SF-710 | SF-510 | SF-310

User's Guide



Introduction

Thank you very much for purchasing this GPS Sports Monitor "WristableGPS".

To use the device correctly, make sure you read the User's Guide along with the supplied Quick Guide.

Keep the supplied Quick Guide handy to help you resolve any problems.

The illustrations and screens shown in the Quick Guide/User's Guide are for the SF-710.

By using a built-in GPS sensor and stride sensor, this device can measure running distance, pace, elapsed time, altitude, and calories burnt. You can also upload recorded data to a dedicated Web site allowing you to look back over previous workouts. You can plan more effectively for a more enjoyable running experience.

Descriptions in the User's Guide

Important:	Indicates things you must or must not do. Ignoring these instructions or mishandling this device could cause malfunction or operational problems to the device.
Note:	Indicates additional explanations and related information.
Menu Name	Indicates menu items displayed on the screen of the device.
A/**B**/**C**/**D**	Indicates the device buttons.
☞	Indicates related pages. Click the link in blue text to display the related page.

Features

Chronograph function

Allows you to measure running data such as distance and time.

You can measure split and lap times, as well as using the GPS signal to measure distance and pace.

☞ "Measuring Time, Distance, and Speed (Chronograph Function)" on page 37

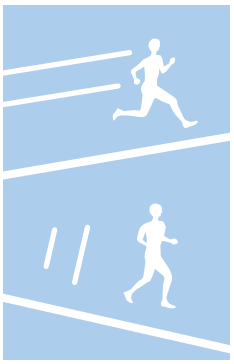
Split Time: Elapsed time from the start

Lap time: Time taken for each lap

You can use the history screen to check recorded measurement data.

☞ "Checking Measurement Data" on page 62

Interval function



Allows you to perform interval training.

Interval training:

Training method in which you repeat sets of light and hard exercise to increase your athletic ability. An exercise menu is created using combinations of hard (sprint) and light (rest) exercise. An alarm sounds when it is time to change between sprinting and resting.

☞ "Setting a Time and Distance for Hard and Light Workouts(Interval Function)" on page 42

Goal function (timed race)

Allows you to set a time as your goal and measure the time taken until that goal is reached.

You can exercise while checking the elapsed time. You can also calculate the estimated distance until the goal is reached.

☞ "Measure until the time or distance set in advance is reached (Goal function)" on page 50

You can use the history screen to check recorded measurement data.

☞ "Checking Measurement Data" on page 62

Goal function (distance race)

Allows you to set a distance as your goal and measure the time taken until that goal is reached.

You can exercise while checking the distance. You can also calculate the estimated time until the goal is reached.

☞ "Measure until the time or distance set in advance is reached (Goal function)" on page 50

You can use the history screen to check recorded measurement data.

☞ "Checking Measurement Data" on page 62

Mes. Settings

Allows you to change the measurement settings.

- ❏ Automatically records laps when a time or distance set in advance has been reached (AT Lap function)

  ☞ "Recording Laps Automatically (AT Lap Function)" on page 55
- ❏ Automatically stops measuring when you stop running, and resumes when you continue running (AT Pause function)

  ☞ "Automatically Start/Stop Measuring (AT Pause Function)" on page 57
- ❏ Sets and measures the target time for one kilometer (Target Pace function)

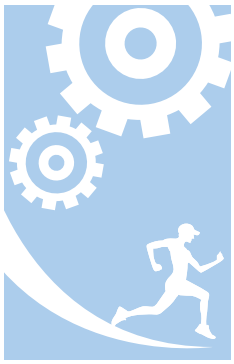
  ☞ "Setting a Pace and Measuring (Target Pace Function)" on page 59
- ❏ Monitors heart rate with the HR Monitor (Heart rate function)

  ☞ "Measuring Heart Rate" on page 70
- ❏ You can change the items and layout of the measurement screen display (Screen settings function)

  ☞ "Screen" on page 95
- ❏ Tap to display a set function (Tap function)

  ☞ "Tap" on page 21

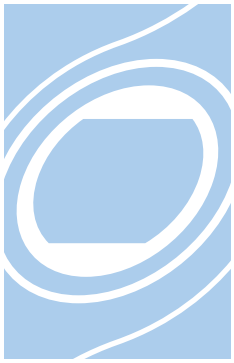
Settings



Allows you to change the settings for the device.

- ❏ Communicates with external devices (Communication function)
  ☞ "Comm. Settings" on page 92
- ❏ Inverts the screen's display (Invert function)
  ☞ "Sys. Settings" on page 93
- ❏ Adjusts the screen's contrast (Adjust contrast function)
  ☞ "Sys. Settings" on page 93
- ❏ Turns on the light automatically when the screen changes (Auto Light function)
  ☞ "Sys. Settings" on page 93
- ❏ Sets an alarm (Alarm function)
  ☞ "Sys. Settings" on page 93
- ❏ Turns off operation tones (Operation Tones function)
  ☞ "Sys. Settings" on page 93
- ❏ Resets configuration information in the device's memory (Initialize function)
  ☞ "Sys. Settings" on page 93

Other features



- ❏ Supports the Quasi-Zenith Satellite System (QZSS).
  ☞ "Supports the Quasi-Zenith Satellite System" on page 31
- ❏ You can measure pitch and stride using the built-in stride sensor (SF-710/SF-510 only).
  ☞ "Educating Your Stride Sensor" on page 32
- ❏ You can skip GPS positioning if it is taking too long.
  ☞ "Skipping GPS positioning" on page 29
- ❏ You can manage recorded data using the dedicated Web application "NeoRun".
  ☞ "Data Management Using the Web Application (NeoRun)" on page 74

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Maintenance

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Using this Device Safely

To use this device safely, make sure you read the user's guides before use (the supplied Quick Guide and this User's Guide).

If you do not follow the content of the user's guides, a malfunction or accident could occur.

❏ Keep the user's guides (supplied Quick Guide and this User's Guide) handy to help you resolve any problems.

❏ **This device is for use in Japan only.**

❏ This is not a medical device. Use for exercising only.

Symbols in this Manual

This User's Guide uses the following symbols to prevent injury to the user or to others, or damage to property when using this device, as well as preventing dangerous usage. Make sure you understand these symbols before reading the guide.

> ***Warning:***
> *Ignoring these instructions and mishandling this device could cause serious injury or death.*

> ***Caution:***
> *Ignoring these instructions and mishandling this device could cause injury or damage to property.*

	This symbol indicates operations (instructions and actions) you must perform.
	This symbol indicates forbidden actions.

Notes on Usage

About the Device and Accessories

⚠ Warning	
	Exercise according to your own physical condition. It is dangerous to exercise suddenly or excessively. If you feel nauseous or if your physical condition alters while exercising, stop exercising and contact a doctor.
	Do not keep your eyes on the device while exercising; otherwise you could fall or cause a traffic accident. Pay close attention to your surroundings while using the device.
	Do not use while scuba diving.
	This device is made using precision parts and electronic components. Do not use or store in the following locations; otherwise an electric shock, fire, problem, or malfunction could occur. ❏ Locations subject to large changes in temperature and humidity ❏ Near volatile substances ❏ Sooty or dusty places ❏ Near a fire ❏ Locations close to powerful magnetic devices (near speakers and so on)
	Do not disassemble or perform repairs yourself; otherwise an electric shock or an accident could occur.
	Do not leave this device in reach of children.

⚠ Caution	
	If you suffer from any allergies or rashes when wearing the device, stop using it immediately and contact a medical specialist such as a dermatologist.
	The device is water resistant at 5 barometric pressures. Although you can use the device for swimming and so on, do not perform button operations in water or when it is wet. This may effect the quality of the waterproofing.
	Do not directly apply high pressure water from a faucet. Water pressure from a faucet is high and could affect the quality of the waterproofing.
	Do not use in the bath or in a sauna. Steam and materials in soap or hot springs could affect the quality of the waterproofing or cause rust.

About the Cradle

⚠ Warning	
	Do not use a damaged cradle; otherwise a problem or fire could occur. If it is damaged, contact a repair center.
	Do not use them if you notice any abnormalities such as smoke, strange odors, or noises; otherwise a fire could occur. If any abnormalities occur, disconnect the cable from the cradle immediately, and contact a repair center.
	Do not use if any foreign substances or liquids such as water get inside the device; otherwise an electric shock or fire could occur. Disconnect the cable from the cradle immediately, and contact a repair center.
	Do not use the cable for the cradle if any foreign substances such as dust are stuck to the connector; otherwise a fire could occur.
	Do not use the cradle to charge any other devices. Only use the cradle provided to charge the device; otherwise a problem, electric shock, or fire could occur.

Optional HR Monitor

⚠ Warning	
	If the HR monitor battery is accidentally swallowed, contact your doctor immediately.
	Be careful not to injure yourself when replacing the HR monitor battery.
	When disposing of the HR monitor battery, follow your local laws and regulations.
	When replacing the HR monitor battery, only use the type of battery specified. Also, make sure the direction of the positive and negative terminals is correct.
	Do not place the battery or the HR monitor with a battery installed into a fire.

Notes on Storage

⚠ Caution	
	Do not place in a location subject to magnetic fields or electromagnetic waves, such as on top of a television. Otherwise, data may be corrupted or lost.
	Do not leave the device unattended in locations where it could come into contact with chemicals, or in locations where chemical substances are emitted. If gasoline, nail varnish, or any spray-on liquid such as cosmetics, as well as cleaning liquid, toilet detergent, adhesives, and so on, comes into contact with the device or the strap, they could cause discoloring or damage.

Notes on Electromagnetic Waves

This device is equipped with Bluetooth® Smart technology. When operating supported HR monitors or smartphones, this function wirelessly sends and receives heart rate measurement data to the device.

This device has been classified as a low electronic data communication system based on Radio Law. Therefore, this device does not require a radio station license. The following acts may be punishable by law.

- ❏ Disassembling or remodeling the device
- ❏ Removing the verification or certification number for the device

VCCI Class B Information Technology Device

This device is a class B information technology device. This device is designed for home use, but interference could occur when using in close proximity to radios or television antennas.

Using this Device Safely

Certification information

Japan

R007-AB0210
TD13-0316001

Frequency

This device uses the frequency bands 2.402 to 2.480 GHz. Other wireless devices may use the same frequency. Note the following points to avoid wireless interference with other wireless devices.

Precautions when performing wireless communication

This device operates on the 2.4 GHz band.

This device operates in the same frequency bandwidth as industrial, scientific, and medical devices such as microwave ovens and mobile object identification (RF-ID) systems (licensed premises radio stations, amateur, and unlicensed specified low-power radio stations (hereafter "other radio stations")) used in factory production lines.

1. Before using this device, make sure there are no "other radio stations" being used in the vicinity.

2. If this device causes RF interference between the device and "other radio stations", promptly move to a different location, stop using the device, and contact your local dealer to ask for advice on preventing interference (for example setting up partitions).

3. In addition, when harmful radio wave interference occurs between the device and "other radio stations", and refer to "Contacting us about this product" to contact our information center.
☞ “Contacting us About this Product” on page 119

⚠ Warning	
	If you notice any abnormalities on your skin and so on, stop using the device immediately and contact a specialist.
	In areas in which usage is restricted, such as on airplanes and in hospitals, follow the rules and regulations provided (such as in-flight announcements).
	Do not use the device if you have a surgically implanted medical device such as a cardiac pacemaker.
	Do not bring the device into an operating room, intensive care unit, and so on, and do not use the device near medical equipment. Radio waves from the device may interfere with electronic medical equipment causing the equipment to malfunction and cause an accident.

Preparing and Basic Operations

You need to make the following preparations before use.

☞ **“Checking the Items Provided” on page 14**
☞ **“Basic Operations” on page 15**
☞ **“Charging” on page 22**
☞ **“Initial Settings” on page 25**

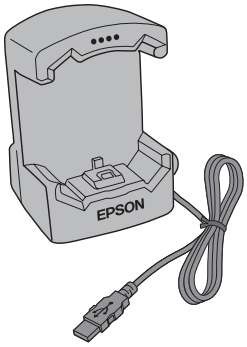
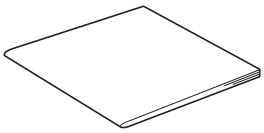
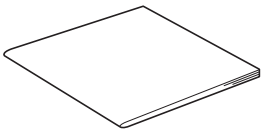
Once preparations are complete, check the method and important points when performing GPS satellite positioning.

☞ **“Specifying a GPS (GPS Positioning)” on page 28**
☞ **“Educating Your Stride Sensor” on page 32**
☞ **“Measurable items” on page 33**

Checking the Items Provided

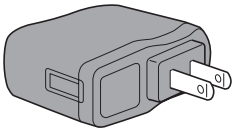
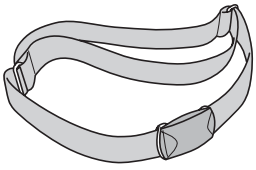
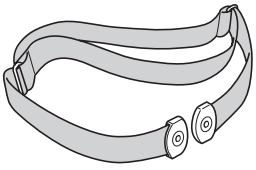
Make sure you check that all of the following items have been supplied with this product. If there is anything missing, contact your local dealer.

Main unit (One of the models that you purchased.)		
SF-710	SF-510	SF-310
		

Cradle	Quick Guide	Warranty
		

Options

You can purchase the following optional extras. Contact your local dealer for more information.

AC Adapter (Model No.: SFAC01)	HR Monitor (Model No.: SFHRM01)	HR Belt (Model No.: SSHRST01)
		

Basic Operations

Changing screens

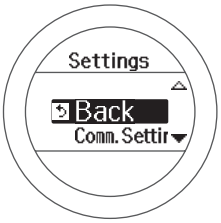
This device is comprised of a Time screen, Measurement screen, Settings screen (**Settings** menu and **Mes. Settings** menu), and History screen, and you can perform operations with the following buttons.

Operation buttons

: Short press

: Long press (two seconds or more)

Settings menu



"Setting screen (**Settings** menu/**Mes. Settings** menu)" on page 19

B

A

Time screen

"Time screen" on page 17

C

A/C

Measurement screen

"Measurement screen" on page 18

A

D

A

B

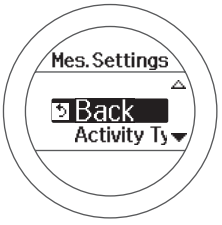
See the following pages for information on making settings for each screen.

"Making Settings" on page 86

History screen

"History screen" on page 20

Mes. Settings menu



"Setting screen (**Settings** menu/**Mes. Settings** menu)" on page 19

Note:

- ❏ *When you leave the device for a while, it enters sleep status and the time display turns off. This is not a malfunction as the display is restored the next time you move the device. You can also turn off the sleep function.*

  ☞ *"Sys. Settings" on page 93*

- ❏ *The time screen is displayed if no operations are made for a specified length of time. The time varies depending on the screen displayed.*

  Sys. Settings*/*User Settings/*History Screen: 3 mins.*

  Measurement Screen (while not measuring): 60 mins.

- ❏ *When three minutes have passed without any operations being performed on the* ***Mes. Settings*** *menu screen, the measurement screen is displayed.*

Function of each button

The function for each button changes depending on which screen is displayed.

Time screen

Operation buttons

Button Operation		Explanation
A	Short press	-
	Long press (two seconds or more)	Turns the power on or off.
B	Short press	Turns the light on or off. The light turns on for approximately 10 seconds.
	Long press (two seconds or more)	Displays the **Settings** menu. “Setting screen (**Settings** menu/**Mes. Settings** menu)” on page 19
C	Short press	Performs GPS positioning, and displays the measurement screen. “Measurement screen” on page 18
	Long press (two seconds or more)	Changes to indoor mode (GPS off) (SF-710/SF-510 only). “Indoor mode (SF-710/SF-510 only)” on page 30
D	Short press	Displays a record of the measurement history (history screen). “History screen” on page 20
	Long press (two seconds or more)	Performs Bluetooth® communication. Use this when uploading measurement data.

Measurement screen

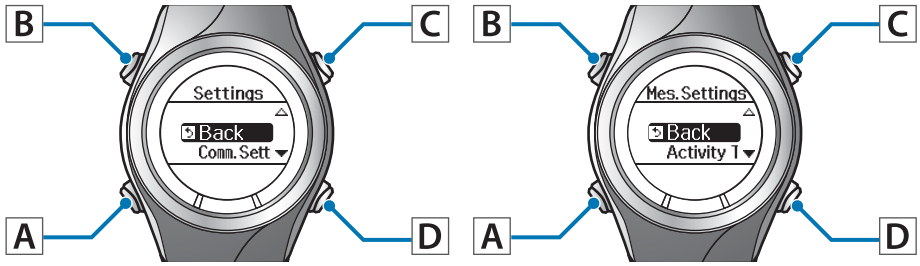
Operation buttons

Button Operation		Explanation
A	Short press	You can display up to four measurement screens and switch the screens using this button.
	Long press (two seconds or more)	Displays the time screen. Not available while measuring.
B	Short press	Turns the light on or off. The light turns on for approximately 10 seconds.
	Long press (two seconds or more)	Displays the **Mes. Settings** menu. Not available while measuring.
C	Short press	Starts, stops, or resumes measuring.
	Long press (two seconds or more)	Displays the time screen. Displays the time screen if you use reset* while measuring is stopped. Not available while measuring.
D	Short press	Records laps while measuring.
	Long press (two seconds or more)	Resets* while measuring is stopped. Not available while resetting measurements.

* When you reset the display, it returns to the status before measuring started allowing you to start the next measurement. Data that has been measured up to that point is stored in the device's memory.

Setting screen (Settings menu/Mes. Settings menu)

Operation buttons



Button Operation		Explanation
A	Short press	Confirm a selection.
	Long press (two seconds or more)	From the **Settings** menu, the time screen is displayed. From the **Mes. Settings** menu, the measurement screen is displayed.
B	Short press	Turns the light on or off. The light turns on for approximately 10 seconds.
	Long press (two seconds or more)	-
C	Short press	Selects the upper item. Increases the value.
	Long press (two seconds or more)	Selects the upper item. Speeds through the values.
D	Short press	Selects the lower item. Decreases the value.
	Long press (two seconds or more)	Selects the lower item. Speeds through the values.

History screen

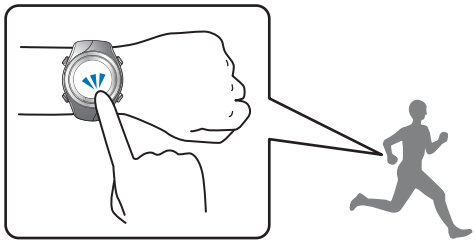
Operation buttons

Button Operation		Explanation
A	Short press	Confirm a selection.
	Long press (two seconds or more)	Displays the time screen.
B	Short press	Turns the light on or off. The light turns on for approximately 10 seconds.
	Long press (two seconds or more)	-
C	Short press	Selects the upper item.
	Long press (two seconds or more)	Selects the upper item.
D	Short press	Selects the lower item.
	Long press (two seconds or more)	Selects the lower item.

Tap

You can perform one of the following operations by tapping the screen once while measuring.

Tapping is only supported while measuring in SF-710/SF-510.



Function	Explanation
Lap	Records the lap. The same operation as pressing **D** while measuring.
Light	Turns on the light. The light turns on for approximately 10 seconds. The same operation as pressing **B**.
Screen Chg.	Changes between the four measurement screens. The same operation as pressing **A**.
OFF (default)	Turns off tap operations.

Note:

- ❏ *When you want to change functions operated by tapping, set **Tap** from the **Mes. Settings** menu.*

  ☞ *"Mes. Settings" on page 87*

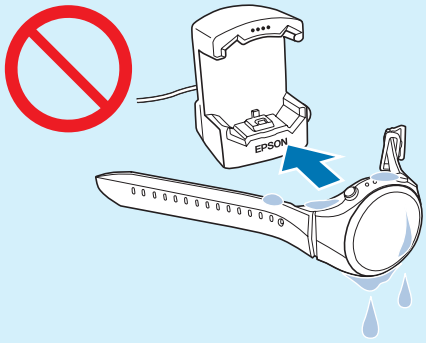
- ❏ *The operation may not be recognized if you tap the screen rapidly in succession. Leave a gap of approximately one second between taps.*
- ❏ *When bike mode is selected, the tap function may operate automatically depending on the condition of the road surface. If this occurs, we recommend setting **OFF**.*

Charging

Before Use

Important:

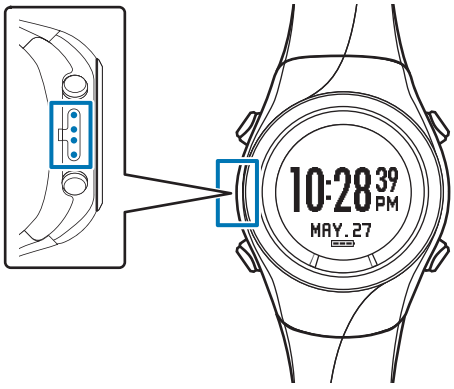
❏ *Do not place the device in the cradle if it is wet from water or sweat.*
Otherwise the contact points on the cradle and the device could corrode, malfunction, or cause a communication failure.



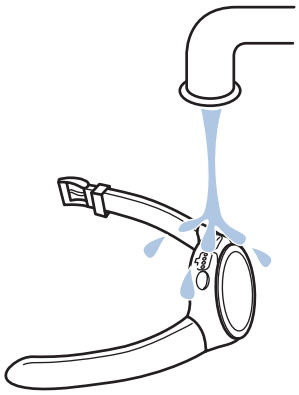
❏ *Do not perform button operations when it is wet; otherwise, a malfunction could occur.*

If the device is wet from water or sweat, use a little running water to wash the contact points, wipe away most of the water with a towel and so on, and then let it dry naturally before placing it in the cradle.

Contact points



Use low pressure water to wash the device.



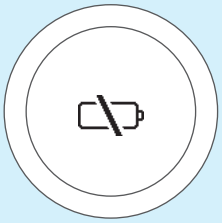
See the following for more details about daily maintenance.
“Performing Maintenance” on page 110

Charging

Important:

❏ ***Charge this device when using it for the first time.***

❏ *Charge in an environment where the surrounding temperature is 5 to 35°C. In any other environment the following charge error screen is displayed, and charging stops. When it returns to a suitable temperature, charging resumes.*

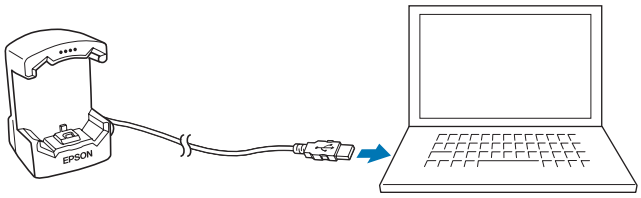


1 Connect the cradle using one of the following methods.

■ **Using a computer**

Connect the cradle's USB plug to the computer's USB port.

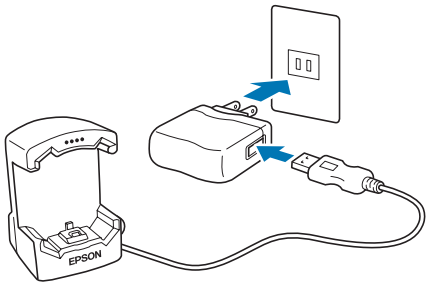
This is not guaranteed to work with all computers. Do not use a USB hub. Instead, connect the cradle directly to the computer.



■ **Using the AC adapter**

Connect the cradle's USB plug to the AC adapter's USB port.

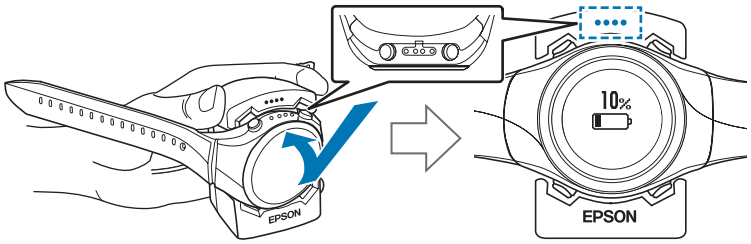
We recommend using the optional AC adapter (Model No.: SFAC01). If you do not use a supported AC adapter, you may not be able to charge or it may not operate correctly.



2 Place the device into the cradle.

Check that the contact points on the device are pointing up and match the contact marks on the cradle.

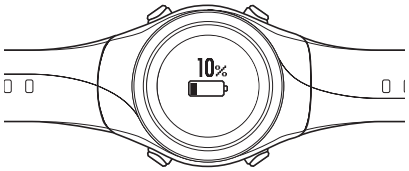
After placing the device into the bottom of the cradle, push carefully on the top of the device until it is fixed in place.



> ***Important:***
> *Make sure the device is placed in the correct direction; otherwise, the cradle could be damaged.*

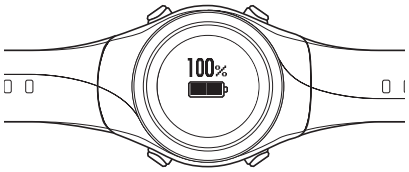
When the device is placed in the correct direction, the alarm sounds, the following screen is displayed, and charging starts.

Although the average time necessary for a full charge is **2.5 to 3.5 hours**, this varies depending on the situation.



3 Check that charging is complete.

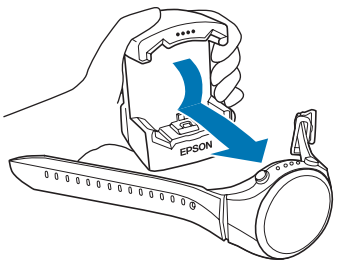
When the following charging icon is displayed, charging is complete.



> ***Note:***
> *When the battery icon displays 100%, an over-charge prevention function is activated. The device will not be damaged even if you continue to charge the battery.*

4 When charging is complete, remove the device from the cradle.

Hold the cradle and press the device down into the lower part of the cradle for a smooth release.



Initial Settings

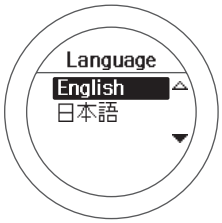
After charging the device for the first time and removing it from the cradle, follow the on-screen instructions to initialize the settings.

> ***Important:***
> *Set the time by receiving a GPS signal. Signals from the GPS cannot be received while indoors. Make sure this is performed outside.*

Operation buttons

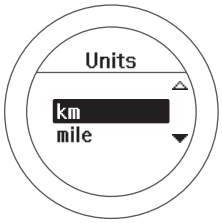
1 Set the language.

Use **C**/**D** to select, and then press **A**.



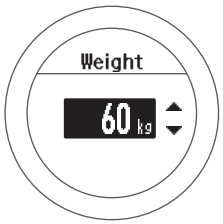
2 Set the **Units**.

Use **C**/**D** to select, and then press **A**.



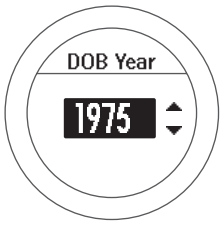
3 Set your **Height** and **Weight**.

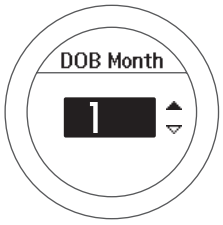
Use **C**/**D** to select, and then press **A**.



4 Set your **DOB**.

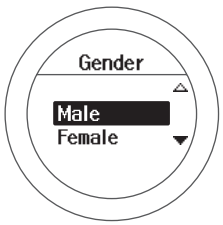
Use **C**/**D** to select, and then press **A**.





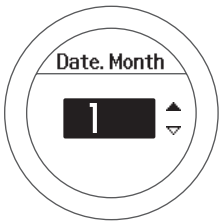
5 Set your **Gender**.

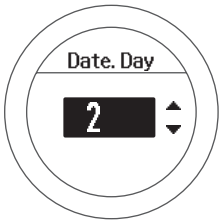
Use **C**/**D** to select, and then press **A**.



6 Set today's date.

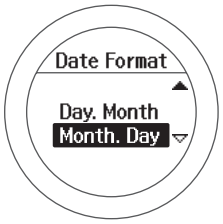
Use **C**/**D** to select, and then press **A**.





7 Set the **Date Format**.

Use **C**/**D** to select, and then press **A**.

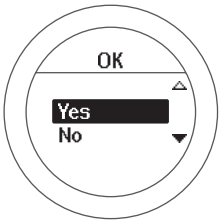


8 Go to a location outside with no obstructions overhead.

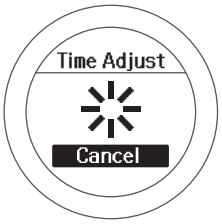
> ***Important:***
> *Take the following steps to receive a signal from the GPS and synchronize time automatically. Since the signal from the GPS cannot be received indoors, go outside to a location without any obstructions overhead.*

9 Complete the settings.

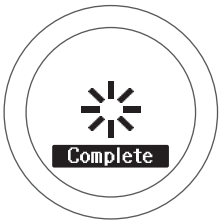
Use **C**/**D** to select **Yes**, and then press **A**.



A signal is received from the GPS and time is automatically synchronized.



When **Complete** is displayed, press **A**.



The time screen is displayed.

> ***Note:***
> - *When you leave the device for a while, it enters sleep status and the time display turns off. This is not a malfunction as the display is restored the next time you move the device.*
> - *If time synchronization fails, the signal from the GPS may not be being received properly. Perform **Time Adjust** from **Sys. Settings**.*
>
> "Sys. Settings" on page 93

About the Battery

You can check how much charge remains from the battery icon below the time display.

Battery icon					
Hours remaining*	GPS On HR Monitor Off	30 to 21 hours	21 to 12 hours	12 to 3 hours	3 to 0 hours
	GPS On HR Monitor On	26 to 18 hours	18 to 10 hours	10 to 2 hours	2 to 0 hours

* Standard hours during which you can use the Chronograph function while receiving a GPS signal. Usage hours vary depending on the conditions (HR Monitor On, frequency the light turns on, and so on).

Important:
Nothing is displayed when the battery is running out. If the device is left for a long time with a low battery, the performance of the rechargeable battery will deteriorate. Make sure you charge the device ***at least once every six months*** *even when it is not being used.*

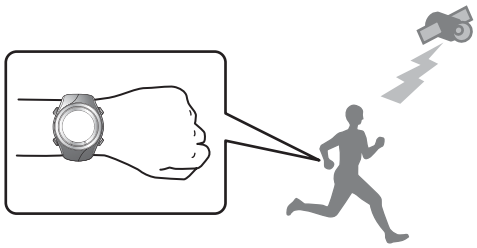
Note:
Even if the battery runs out, measurement data is stored in the main memory.

Specifying a GPS (GPS Positioning)

Measuring Function for the Device

This device receives a signal from the GPS, and measures distance and pace. To make sure measurements are performed accurately, try to use the device under the following conditions which allow for easy reception of GPS signals.

- ❏ Outside with no obstructions overhead
- ❏ Wear the device with the screen facing up



You cannot receive a signal from the GPS when indoors and in the following environments.

Locations where you cannot receive signals

		
Inside rooms or buildings, or underground	In tunnels	Under water

Locations that are difficult to receive signals

		
Locations with electronic interference, such as constructions sites and heavy traffic	Near high-voltage wires or television towers, overhead electric wires for trains, and roads with skyscrapers	On water

GPS Positioning

When you change to the measurement screen, the device receives a signal from various satellites, and identifies a GPS to use for measurement.

> ***Important:***
> *While identifying a GPS, make sure you are outside with no obstructions overhead, and try to keep the device as still as possible.*

Operation buttons

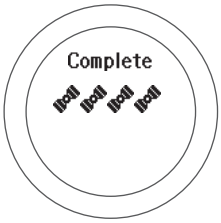
1 Go to a location outside with no obstructions overhead.

2 Perform GPS positioning.

Press **C**.

GPD positioning starts.

When GPS positioning is complete, the positioning complete screen flashes, and then the measurement screen is displayed.

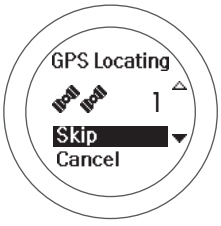


> ***Note:***
> *It usually takes less than two minutes to complete GPS positioning.*
>
> *If it takes more than two minutes or **Failed** is displayed, we recommend selecting **Cancel**, moving to a different location, and trying again.*
>
> 
>

When the measurement screen is displayed, you can start measuring.
"Measure" on page 36

Skipping GPS positioning

If you want to start measuring immediately, or if GPS positioning is taking too long, select **Skip** during GPS positioning and start measuring.



GPS positioning continues while measuring, and when positioning is complete the device starts recording positional information. The route before GPS positioning is complete is not recorded.

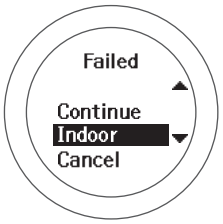
Indoor mode (SF-710/SF-510 only)

This function allows you to measure without performing GPS positioning. Use this when GPS positioning cannot be performed because you are indoors and so on.

The route and so on is not recorded in indoor mode. Also, measurement items are limited in indoor mode.
☞ "Measurable items" on page 33

Use either of the following methods to enter indoor mode.

- ❏ Hold down **C** on the time screen
- ❏ If GPS positioning fails, select **Indoor** on the screen displayed



Making Precise Measurements

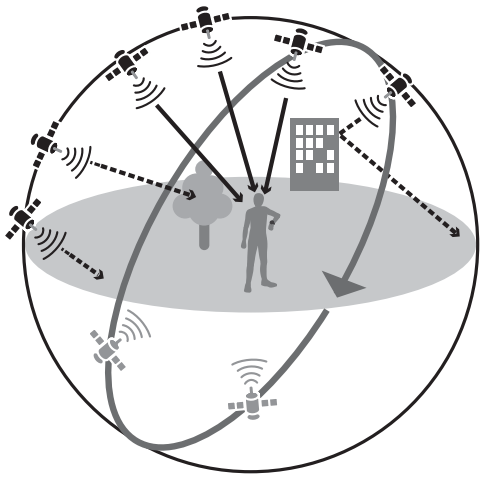
In the following situations, complete GPS positioning, display the measurement screen, and then wait outside for at least 15 minutes with no obstructions overhead. This allows you to make precise measurements.

- ❏ When you use the device for the first time after purchase
- ❏ When the device has not been used for several months

You do not need to make these preparations from the second time.

Note:
The basic configuration of the GPS system is 24 satellites orbiting the Earth at an altitude of 20,000 km, with at least four satellites traveling in six different orbits. The GPS receiver acquires data from four satellites and calculates the latitude, longitude, altitude, and time. Measuring can start once positioning has been performed and this information has been received. Since you can receive more detailed GPS navigation data (satellite orbital information) after 15 minutes from this point, you can make more precise measurements.

However, errors may occur in distance measurements, even after waiting 15 minutes or more, due to atmospheric conditions and the usage environment.



Supports the Quasi-Zenith Satellite System

This device supports the Quasi-Zenith Satellite System (QZSS). The Quasi-Zenith Satellite System is a system of satellites that passes directly over Japan and sends positioning signals that are very similar to current GPS signals. This allows signals to be sent to wider areas of Japan that were previously trouble spots, such as mountainous regions, or areas with a high density of skyscrapers such as the center of Tokyo.

Educating Your Stride Sensor

About the Stride Sensor

This device contains a stride sensor that uses a stride algorithm to learn your pace from your actual speed and your body's vibration frequency. This allows the device to calculate distance and laps with high precision, as well as measure your pitch and stride even in locations that cannot receive signals from GPS satellites such as in a tunnel, and so on (SF-710/SF-510 only).

Educating the Stride Sensor

When using the device for the first time, run under the following conditions so that the stride sensor can learn your stride.

Location/Time

Run or walk in the following locations that allow GPS positioning.

- ❏ When outside with no obstructions overhead: Approximately 10 mins.
- ❏ When surrounded by tall buildings: approximately 30 mins.

Measure

Measure using the chronograph function.

☞ "Measuring Time, Distance, and Speed (Chronograph Function)" on page 37

Note:

- ❏ *You do not need to make these preparations from the second time. However, note that information on your stride is initialized if the device is initialized. If this occurs, you need to educate the stride sensor again.*
- ❏ *When you mainly use the device for walking, from the **Mes. Settings** menu, set **Activity Type** to **Walk**.*

  ☞ *"Mes. Settings" on page 87*
- ❏ *The device's stride sensor is used for running and walking. This does not support bike mode. In bike mode, "-" is displayed for the stride and pitch on the measurement display.*
- ❏ *Large measurement errors may occur if your stride differs significantly from this learning session.*

Measurable items

Items that can be measured by each measurement function for chronograph, interval, and goal change according to the settings for the GPS signal (GPS on/off) and the HR monitor.

When GPS is off for indoor mode (SF-710/SF510 only), the route is not recorded.

◯ : Measuring possible

- : Cannot measure

* : Cannot measure during indoor mode ☞ "Indoor mode (SF-710/SF-510 only)" on page 30

		SF-710	SF-510	SF-310
Measurement item (display name)	Distance (Dist.)	◯	◯	◯
	Lap Distance (LapDist.)	◯	◯	◯
	Pace (Pace)	◯	◯	◯
	Average Pace (Av.Pace)	◯	◯	◯
	Lap Pace (LapSpd)	◯	◯	◯
	Speed (Speed)	◯	◯	◯
	Average Speed (Av.Spd)	◯	◯	◯
	Lap Speed (LapSpeed)	◯	◯	◯
	Split Time (Split)	◯	◯	◯
	Lap Time (Lap)	◯	◯	◯
	Time (Time)	◯	◯	◯
	Calories Burnt (Calories)	◯	◯	◯
	Altitude (Alt.)*	◯	◯	◯
	Guide Time (Guide)	◯	◯	◯
	Guide Distance (GuideDist.)	◯	◯	◯

		SF-710	SF-510	SF-310
Measurement items (display name)	Stride (Stride)	○	○	-
	Average Stride (Av.Stride)	○	○	-
	Lap Stride (LapStride)	○	○	-
	Pitch (Pitch)	○	○	-
	Average Pitch (Av.Pitch)	○	○	-
	Lap Pitch (LapPitch)	○	○	-
	HR (HR)	See the following table for items that can be measured by the HR monitor settings		
	Average HR (Av.HR)			
	Maximum HR (Max.HR)			
	Lap HR (LapHR)			
	Steps (Steps)	○	○	-
	Lap Steps (LapStp)	○	○	-
	HR Zone Time (SpentHR)	See the following table for items that can be measured by the HR monitor settings		
	Time to HR Zone (TimeHR)			
	Total Ascent (Tot.Asc.)*	○	-	-
	Total Descent (Tot.Des.)*	○	-	-
	Grade (Grade)*	○	-	-
	Latitude/Longitude (LAT/LONG)*	○	○	-
	Estimated Time (Est.)	○	○	○
	Estimated Distance (Est.Dist.)	○	○	○

See the following table for items that can be measured by the HR monitor settings

		SF-710		SF-510		SF-310	
HR monitor status		On	Off	On	Off	On	Off
Measurement items (display name)	HR (HR)	○	-	○	-	○	-
	Lap HR (LapHR)	○	-	○	-	○	-
	Average HR (Av.HR)	○	-	○	-	○	-
	Maximum HR (Max.HR)	○	-	○	-	-	-
	HR Zone Time (Spent.HR)	○	-	○	-	-	-
	Time to HR Zone (Time.HR)	○	-	○	-	-	-

The HR monitor can be purchased as an optional item.

Measure

Using the positional information and time for the GPS signal, the time, distance, and speed are measured automatically.

Also, training is supported for a variety of functions, such as the interval function.

☞ **“Measuring Time, Distance, and Speed (Chronograph Function)” on page 37**

☞ **“Setting a Time and Distance for Hard and Light Workouts(Interval Function)” on page 42**

☞ **“Measure until the time or distance set in advance is reached (Goal function)” on page 50**

☞ **“Recording Laps Automatically (AT Lap Function)” on page 55**

☞ **“Automatically Start/Stop Measuring (AT Pause Function)” on page 57**

☞ **“Setting a Pace and Measuring (Target Pace Function)” on page 59**

Measuring Time, Distance, and Speed (Chronograph Function)

What is the chronograph function?

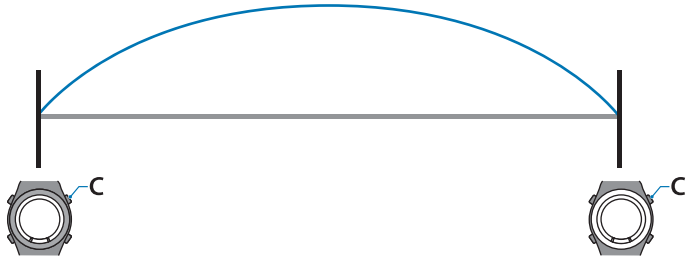
This function allows you to measure split times and lap times simultaneously. Also, since this device is equipped with a GPS function, you can automatically measure distance, speed, and route using the positional information and time from the GPS signal.

This is useful for a variety of activities such as running or walking, and can be used for competition or standard exercise.

> ***Note:***
> *Set the Activity Type (Run, Walk, or Bike) before you start measuring.*
>
> ☞ *"Mes. Settings" on page 87*

Split Time

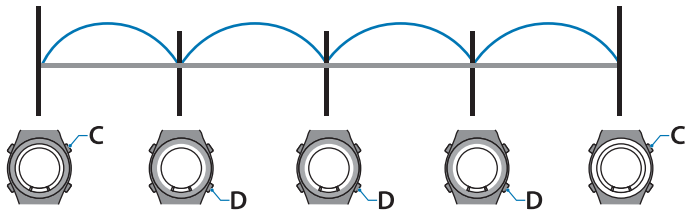
Measures the elapsed time from the start.



Press **C** to start measuring, and press **C** again to stop measuring.

Lap Time

Records the elapsed time for each lap.



To record a lap, press **D** while measuring.

Also, when using the AT Lap function, laps are recorded automatically when a time or distance set in advance has been reached.

☞ "Recording Laps Automatically (AT Lap Function)" on page 55

Measuring

Important:

- *When performing GPS positioning, make sure the screen is facing up and you are outside with no obstructions overhead.*

  ☞ *"Specifying a GPS (GPS Positioning)" on page 28*

- *It usually takes less than two minutes to complete GPS positioning.*

  *If it takes more than two minutes or **Failed** is displayed, we recommend selecting **Cancel**, moving to a different location, and trying again.*

Operation buttons

1 Display the measurement screen.

Press **C** on the time screen.

GPS positioning starts, and the measurement screen is displayed once positioning is complete.

Note:

- *You can skip GPS positioning if you want to start measuring immediately or if it is taking too long.*

  ☞ *"Skipping GPS positioning" on page 29*

- *Use indoor mode when GPS positioning cannot be performed because you are inside and so on.*

  ☞ *"Indoor mode (SF-710/SF-510 only)" on page 30*

- *Screens are explained using the default screens. You can invert the screen's display.*

  ☞ *"Sys. Settings" on page 93*

2 Start measuring.

Press **C**.

3 Record the lap.

Press **D** while measuring.

The Lap Hold Screen* is displayed for 10 seconds, and then the measurement screen is displayed.

☞ "Lap Hold Screen" on page 41

* The screen display differs depending on the settings.

☞ "Screen Pattern Table" on page 96

4 Stop measuring.

Press **C** while measuring.

Press **C** to start measuring again.

5 Reset the measurement results.

Hold down **D** while measuring is stopped.

When you reset the display, it returns to the status before measuring started allowing you to start the next measurement.

Data measured up to that point is stored in the device's memory, and you can check it by pressing **D** on the time screen.

☞ "Checking Measurement Data" on page 62

Note:
To stop measuring and return to the time screen

- ❏ *After resetting the measurement results in step 5, hold down **A**.*
- ❏ *While the screen in step 4 is displayed while measurement is stopped, hold down **C**. The measurement results are reset and the time screen is displayed.*
- ❏ *If no operations are made for 60 minutes on a screen other than the measuring screen, the time screen is displayed.*

Screen Display

Measurement screen

There are four measurement screens available. Press **A** to change the screen.

> ***Note:***
> *You can change the screen pattern and the measurement items displayed for each screen.*
>
> *"Screen" on page 95*

Screen		Screen Pattern (Default)	Measurement Item (Default)
Screen1		3 Lines	Distance (Dist.) Split Time (Split) Average Pace (Av.Pace)
Screen2		2 Lines	Lap Pace (LapPace) Lap Distance (LapDist.)
Screen3		3 Lines	Distance (Dist.) Lap Time (Lap) Lap Distance (LapDist.)
Screen4		2 Lines	Altitude (Alt.) Time (Time)

Lap Hold Screen

The Lap Hold Screen is displayed for 10 seconds when a lap is recorded.

> ***Note:***
> *You can change the screen pattern and the measurement items displayed.*
>
> ☞ *"Screen" on page 95*

Screen		Screen Pattern (Default)	Measurement Item (Default)
Lap Hold Screen		2 Lines	Lap Distance (LapDist.) Lap Time (Lap)

Setting a Time and Distance for Hard and Light Workouts (Interval Function)

What is the Interval Function?

This function allows you to perform sets of hard (sprint) and light (rest) exercise.

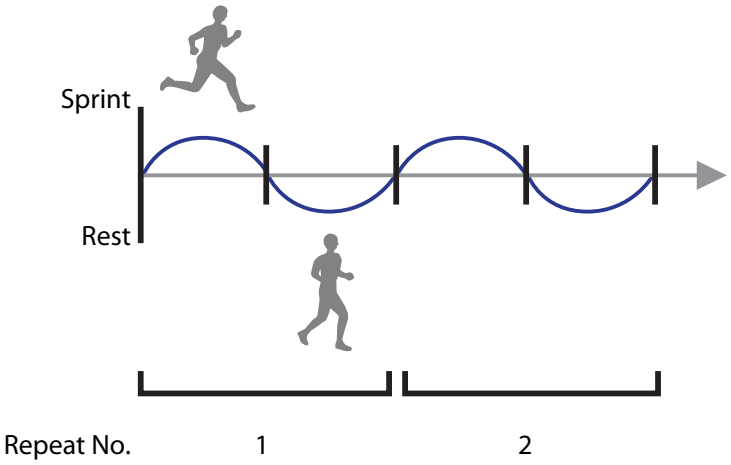
You can set the time and distance, and create an exercise menu.

An alarm notifies you to change between sprint and rest times.

Sprint: Hard exercise

Rest: Light exercise

Repeat No.: Number of times to repeat one set of sprinting and resting



Setting Interval Conditions and Measuring

Important:

- ❏ *When performing GPS positioning, make sure the screen is facing up and you are outside with no obstructions overhead.*

  "Specifying a GPS (GPS Positioning)" on page 28

- ❏ *It usually takes less than two minutes to complete GPS positioning.*

  *If it takes more than two minutes or **Failed** is displayed, we recommend selecting **Cancel**, moving to a different location, and trying again.*

Operation buttons

Setting interval conditions

1 Display the measurement screen.

Press **C** on the time screen.

GPS positioning starts, and the measurement screen is displayed once positioning is complete.

Note:

- ❏ *You can skip GPS positioning if you want to start measuring immediately or if it is taking too long.*

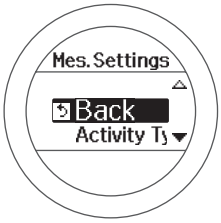
  "Skipping GPS positioning" on page 29

- ❏ *Use indoor mode when GPS positioning cannot be performed because you are inside and so on.*

  "Indoor mode (SF-710/SF-510 only)" on page 30

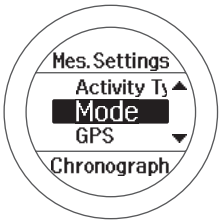
2 Displays the **Mes. Settings** menu.

Hold down **B** on the measurement screen.



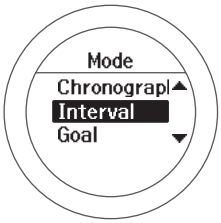
3 Select **Mode**.

Use **C**/**D** to select, and then press **A**.



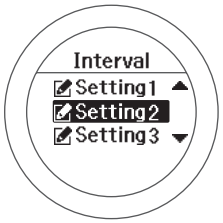
4 Select **Interval**.

Use **C**/**D** to select, and then press **A**.



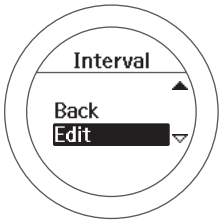
5 Select settings 1, 2, or 3.

Use **C**/**D** to select, and then press **A**.



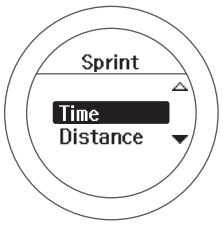
6 Select **Edit**.

Use **C**/**D** to select, and then press **A**.



7 Select whether to set distance or time as the length of the sprint (hard exercise).

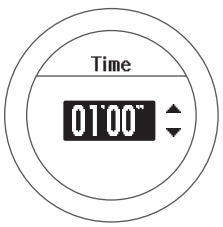
Use **C**/**D** to select, and then press **A**.



8 Set the time or distance.

Use **C**/**D** to set, and then press **A**.

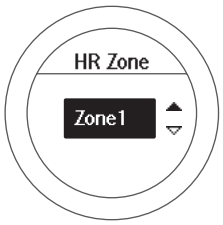
Hold down **C**/**D** to speed through the numbers.



9 Set the heart rate zone you want to maintain while sprinting.

Use **C**/**D** to select, and then press **A**.

An alarm sounds if you are outside the set heart rate zone.



> ***Note:***
> *You can check or change the value set for the heart rate in each heart rate zone in* ***User Settings****.*
>
> *"User Settings" on page 92*

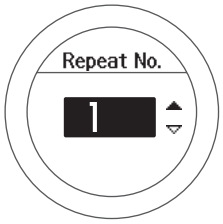
10 Set the rest (light exercise).

Follow steps 7 to 9.

11 Set the Repeat No. (number of times to repeat one set of sprinting and resting).

Use **C**/**D** to set, and then press **A**.

Hold down **C**/**D** to speed through the numbers.



12 Check the set content.

After checking, press **A**.

13 Select **OK**.

Use **C**/**D** to select, and then press **A**.

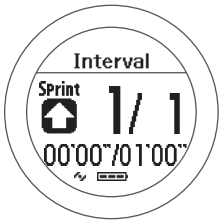
The interval measurement screen is displayed.

Measuring

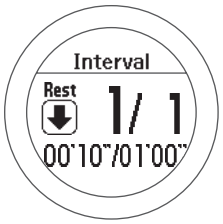
1 Start measuring.

Press **C**.

Sprint measuring starts.



When the sprint time (or sprint distance) has passed, an alarm sounds and rest measuring starts automatically.



When the repeat number is set to two or more, the sprint and rest set is repeated.

Note:

- ❏ *If you press **D** while measuring, you can change from sprint to rest, and then back to sprint again.*
- ❏ *To stop while exercising, press **C**. Press **C** to resume measuring.*

2 Finish measuring.

Measuring finishes automatically after repeating the specified sprint and rest sets.

When you finish, the time, distance, and calories burnt are displayed.

3 Reset the measurement results.

Hold down **D** while measuring is stopped.

When you reset the display, it returns to the status before measuring started allowing you to start the next measurement.

Data measured up to that point is stored in the device's memory, and you can check it by pressing **D** on the time screen.

☞ "Checking Measurement Data" on page 62

Note:
To stop measuring and return to the time screen

- ❏ *After resetting the measurement results in step 3, hold down **A**.*
- ❏ *While the screen in step 2 is displayed while measurement is stopped, hold down **C**. The measurement results are reset and the time screen is displayed.*
- ❏ *If no operations are made for 60 minutes on a screen other than the measuring screen, the time screen is displayed.*

Loading Interval Conditions that have Already been Set

Important:

- ❏ *When performing GPS positioning, make sure the screen is facing up and you are outside with no obstructions overhead.*

  ☞ *"Specifying a GPS (GPS Positioning)" on page 28*

- ❏ *It usually takes less than two minutes to complete GPS positioning.*

  *If it takes more than two minutes or **Failed** is displayed, we recommend selecting **Cancel**, moving to a different location, and trying again.*

Operation buttons

Loading interval conditions

1 Display the measurement screen.

Press **C** on the time screen.

GPS positioning starts, and the measurement screen is displayed once positioning is complete.

Note:

- ❏ *You can skip GPS positioning if you want to start measuring immediately or if it is taking too long.*

  ☞ *"Skipping GPS positioning" on page 29*

- ❏ *Use indoor mode when GPS positioning cannot be performed because you are indoors and so on.*

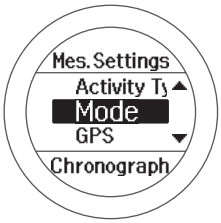
  ☞ *"Indoor mode (SF-710/SF-510 only)" on page 30*

2 Displays the **Mes. Settings** menu.

Hold down **B** on the measurement screen.

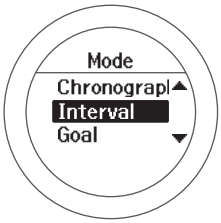
3 Select **Mode**.

Use **C**/**D** to select, and then press **A**.



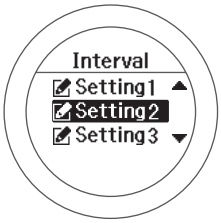
4 Select **Interval**.

Use **C**/**D** to select, and then press **A**.



5 Select settings 1, 2, or 3.

Use **C**/**D** to select the registered setting, and then press **A**.



6 Check the set content.

Press **A**.

7 Select **OK**.

Use **C**/**D** to select, and then press **A**.

The interval measurement screen is displayed.

Measuring

See the following page for information on measuring.

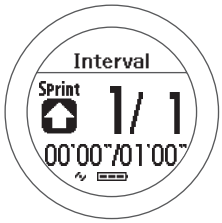
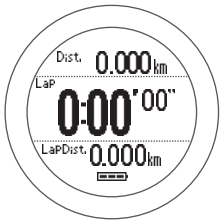
"Measuring" on page 46

Screen Display

There are five measurement screens available. Press **A** to change the screen.

Note:
You can change the screen pattern and the measurement items displayed for screens one to four.

☞ *"Screen" on page 95*

Screen		Screen Pattern (Default)	Measurement Item (Default)
Fixed interval screen		Interval	Time or distance for Sprint/ Rest
Screen1		3 Lines	Distance (Dist.) Split Time (Split) Average Pace (Av.Pace)
Screen2		2 Lines	Lap Pace (LapPace) Lap Distance (LapDist.)
Screen3		3 Lines	Distance (Dist.) Lap Time (Lap) Lap Distance (LapDist.)
Screen4		2 Lines	Altitude (Alt.) Time (Time)

Measure until the time or distance set in advance is reached (Goal function)

What is the goal function?

This function allows you to measure until the time or distance set in advance is reached.

Time race

Allows you to set a time as your goal and measure the time taken until that goal is reached. You can exercise while checking the elapsed time. You can also calculate the estimated distance until the goal is reached.

Distance race

Allows you to set a distance as your goal and measure the time taken until that goal is reached. You can exercise while checking the distance. You can also calculate the estimated time.

Measuring by Setting the Time or Distance

Important:

- ❏ *When performing GPS positioning, make sure the screen is facing up and you are outside with no obstructions overhead.*

  ☞ *"Specifying a GPS (GPS Positioning)" on page 28*

- ❏ *It usually takes less than two minutes to complete GPS positioning.*

  *If it takes more than two minutes or **Failed** is displayed, we recommend selecting **Cancel**, moving to a different location, and trying again.*

Operation buttons

Set the time or distance.

1 Display the measurement screen.

Press **C** on the time screen.

GPS positioning starts, and the measurement screen is displayed once positioning is complete.

Note:

- ❏ *You can skip GPS positioning if you want to start measuring immediately or if it is taking too long.*

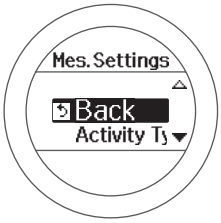
  ☞ *"Skipping GPS positioning" on page 29*

- ❏ *Use indoor mode when GPS positioning cannot be performed because you are indoors and so on.*

  ☞ *"Indoor mode (SF-710/SF-510 only)" on page 30*

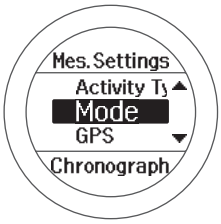
2 Displays the **Mes. Settings** menu.

Hold down **B** on the measurement screen.



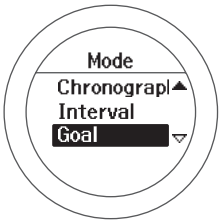
3 Select **Mode**.

Use **C**/**D** to select, and then press **A**.



4 Select **Goal**.

Use **C**/**D** to select, and then press **A**.



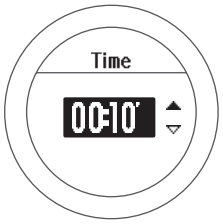
5 Select whether to set time or distance.

Use **C**/**D** to select, and then press **A**.

6 Set the time or distance.

Use **C**/**D** to set, and then press **A**.

Hold down **C**/**D** to speed through the numbers.



7 Select **OK**.

Use **C**/**D** to select, and then press **A**.

The goal measurement screen is displayed.

Measuring

1 Start measuring.

Press **C**.

2 When the set time or distance is reached, the "Finish" screen is displayed.

The time, distance, and calories burnt are displayed.

> ***Note:***
> *An alarm notifies you when you reach 50% and 90% of the set time or distance.*

3 Stop measuring.

Press **C** while measuring.

4 Reset the measurement results.

Hold down **D** while measuring is stopped.

When you reset the display, it returns to the status before measuring started allowing you to start the next measurement.

Data measured up to that point is stored in the device's memory, and you can check it by pressing **D** on the time screen.

☞ "Checking Measurement Data" on page 62

Note:
To stop measuring and return to the time screen

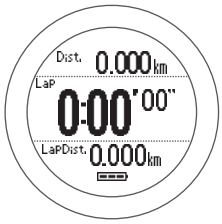
- ❏ *After resetting the measurement results in step 4, hold down **A**.*
- ❏ *While the screen in step 3 is displayed while measurement is stopped, hold down **C**. The measurement results are reset and the time screen is displayed.*
- ❏ *If no operations are made for 60 minutes on a screen other than the measuring screen, the time screen is displayed.*

Screen Display

There are five measurement screens available. Press **A** to change the screen.

Note:
You can change the screen pattern and the measurement items displayed for screens one to four.

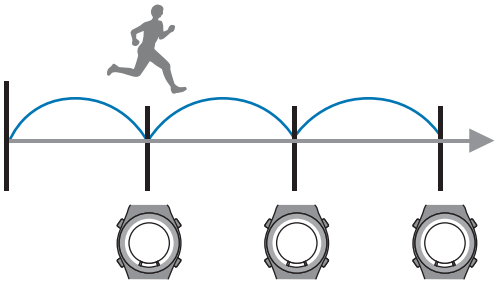
☞ *"Screen" on page 95*

Screen		Screen Pattern (Default)	Measurement Item (Default)
Fixed goal screen		Goal	Time or distance for Goal
Screen1		3 Lines	Distance (Dist.) Split Time (Split) Average Pace (Av.Pace)
Screen2		2 Lines	Lap Pace (LapPace) Lap Distance (LapDist.)
Screen3		3 Lines	Distance (Dist.) Lap Time (Lap) Lap Distance (LapDist.)
Screen4		2 Lines	Altitude (Alt.) Time (Time)

Recording Laps Automatically (AT Lap Function)

When a time or distance set in advance is reached, laps are recorded automatically.

Set the lap time or distance. You can set five times or distances. However, only one setting can be used while measuring.



Important:

- ❏ *When performing GPS positioning, make sure the screen is facing up and you are outside with no obstructions overhead.*

  ☞ *"Specifying a GPS (GPS Positioning)" on page 28*

- ❏ *It usually takes less than two minutes to complete GPS positioning.*

  *If it takes more than two minutes or **Failed** is displayed, we recommend selecting **Cancel**, moving to a different location, and trying again.*

Operation buttons

1 Display the measurement screen.

Press **C** on the time screen.

GPS positioning starts, and the measurement screen is displayed once positioning is complete.

Note:

- ❏ *You can skip GPS positioning if you want to start measuring immediately or if it is taking too long.*

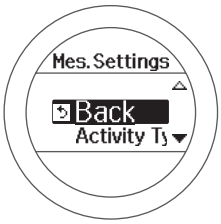
  ☞ *"Skipping GPS positioning" on page 29*

- ❏ *Use indoor mode when GPS positioning cannot be performed because you are indoors and so on.*

  ☞ *"Indoor mode (SF-710/SF-510 only)" on page 30*

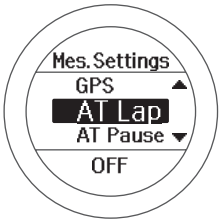
2 Displays the **Mes. Settings** menu.

Hold down **B** on the measurement screen.



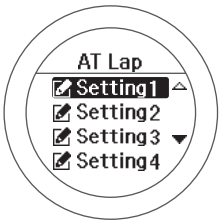
3 Select **AT Lap**.

Use **C**/**D** to select, and then press **A**.



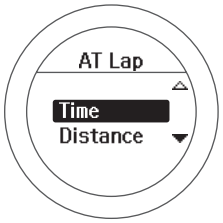
4 Select one of the settings from 1 to 5.

Use **C**/**D** to select, and then press **A**.



5 Select whether to set distance or time as the length of the lap.

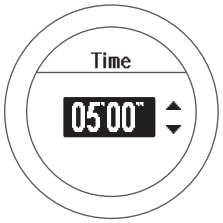
Use **C**/**D** to select, and then press **A**.



6 Set the time or distance.

Use **C**/**D** to set, and then press **A**.

Hold down **C**/**D** to speed through the numbers.



7 Complete the settings.

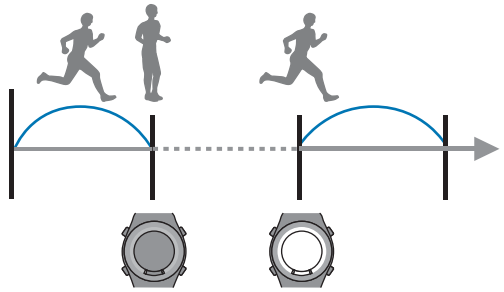
Hold down **A**.

The measurement screen is displayed.

> ***Note:***
> *To turn off this function, select* ***OFF*** *in step 4.*

Automatically Start/Stop Measuring (AT Pause Function)

Measuring stops automatically when you stop running, and resumes when you continue running.



Important:

- ❏ *When performing GPS positioning, make sure the screen is facing up and you are outside with no obstructions overhead.*

  "Specifying a GPS (GPS Positioning)" on page 28

- ❏ *It usually takes less than two minutes to complete GPS positioning.*

  *If it takes more than two minutes or **Failed** is displayed, we recommend selecting **Cancel**, moving to a different location, and trying again.*

Operation buttons

1 Display the measurement screen.

Press **C** on the time screen.

GPS positioning starts, and the measurement screen is displayed once positioning is complete.

Note:

- ❏ *You can skip GPS positioning if you want to start measuring immediately or if it is taking too long.*

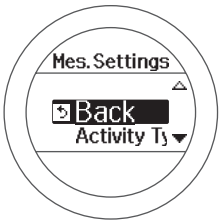
  "Skipping GPS positioning" on page 29

- ❏ *Use indoor mode when GPS positioning cannot be performed because you are indoors and so on.*

  "Indoor mode (SF-710/SF-510 only)" on page 30

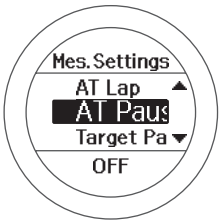
2 Displays the **Mes. Settings** menu.

Hold down **B** on the measurement screen.



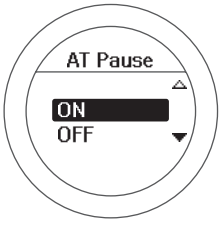
3 Select **AT Pause**.

Use **C**/**D** to select, and then press **A**.



4 Select **ON**.

Use **C**/**D** to select, and then press **A**.



5 Complete the settings.

Hold down **A**.

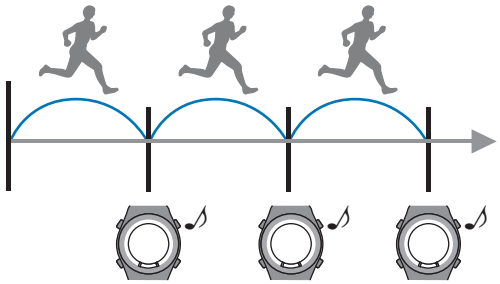
The measurement screen is displayed.

Note:
To turn off this function, select ***OFF*** *in step 4.*

Setting a Pace and Measuring (Target Pace Function)

You can use this function to sound an alarm if you fall behind the pace set as the target pace during measuring.

Set your target time for one kilometer (target pace) and the range at which the alarm sounds when you fall behind that target pace.



Important:

- ❏ *When performing GPS positioning, make sure the screen is facing up and you are outside with no obstructions overhead.*

  "Specifying a GPS (GPS Positioning)" on page 28

- ❏ *It usually takes less than two minutes to complete GPS positioning.*

  *If it takes more than two minutes or **Failed** is displayed, we recommend selecting **Cancel**, moving to a different location, and trying again.*

Operation buttons

1 Display the measurement screen.

Press **C** on the time screen.

GPS positioning starts, and the measurement screen is displayed once positioning is complete.

Note:

- ❏ *You can skip GPS positioning if you want to start measuring immediately or if it is taking too long.*

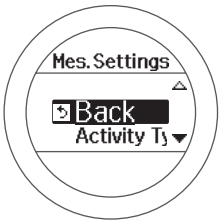
  "Skipping GPS positioning" on page 29

- ❏ *Use indoor mode when GPS positioning cannot be performed because you are indoors and so on.*

  "Indoor mode (SF-710/SF-510 only)" on page 30

2 Displays the **Mes. Settings** menu.

Hold down **B** on the measurement screen.



3 Select **Target Pace**.

Use **C**/**D** to select, and then press **A**.

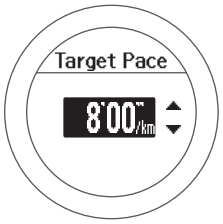
4 Select settings 1, 2, or 3.

Use **C**/**D** to select, and then press **A**.

5 Set the target time for one kilometer.

Use **C**/**D** to set, and then press **A**.

Hold down **C**/**D** to speed through the numbers.

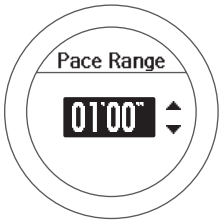


6 Set the range for maintaining your target pace.

Use **C**/**D** to set, and then press **A**.

Hold down **C**/**D** to speed through the numbers.

An alarm sounds if you are outside the set pace range.



7 This completes the settings.

Hold down **A**.

The measurement screen is displayed.

Note:
If you want to turn off the alarm that notifies you when you are falling behind the set pace range, select ***OFF*** *in step 6.****OFF*** *is the bottom line for the* ***Pace Range*** *(under 0'05").*

Checking Measurement Data (History Function)

You can check measured data on the history screen.

☞ "Checking Measurement Data" on page 62

☞ "Measurement Data that can be Checked in History" on page 62

Checking Measurement Data

You can check measured data on the history screen.

Operation buttons

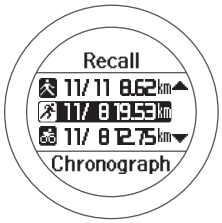
1 Display the history list screen.

Press **D** on the time screen.

2 Select the data you want to check.

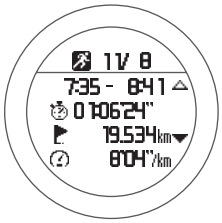
The history list screen displays item icons, the date measured, and the distance.

Use **C**/**D** to select, and then press **A**.



3 Check the measurement data.

Use **C**/**D** to scroll the screen.



4 After checking, display the history list screen.

Press **A**.

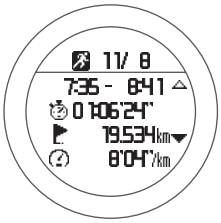
5 Finish checking the history.

Hold down **A**.

Displays the time screen.

Measurement Data that can be Checked in History

The following measurement data can be checked.



Icon	
	Run mode (measuring while running)
	Walking mode (measuring while walking)
	Bike mode (measuring while riding a bike)

Measurement Item	
-	Date measured
-	Start Time/End Time
	Split time
	Distance
	Average pace
	Calories Burnt
	Lap number

Measurement Item	
-	Lap pace

To clear the history, you need to initialize the device. When initializing, all setting information for **User Settings**, **Sys. Settings**, and **Mes. Settings** is also initialized along with the history information.

☞ "Sys. Settings" on page 93

Measuring Heart Rate (HR Monitor)

You can measure your heart rate by using the optional HR monitor.

☞ "Preparing to Measure Heart Rate" on page 65

☞ "Measuring Heart Rate" on page 70

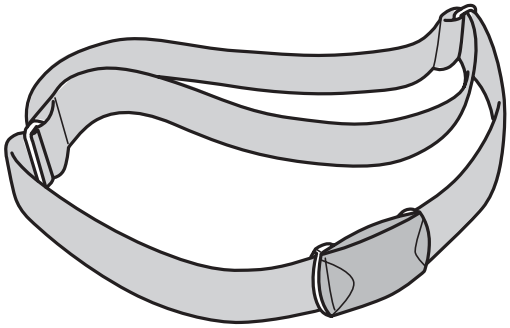
☞ "Replacing the Battery for the HR Monitor" on page 72

Preparing to Measure Heart Rate

Preparing the HR Monitor

The HR monitor can be purchased as an optional item. Contact your local dealer to purchase an HR monitor.

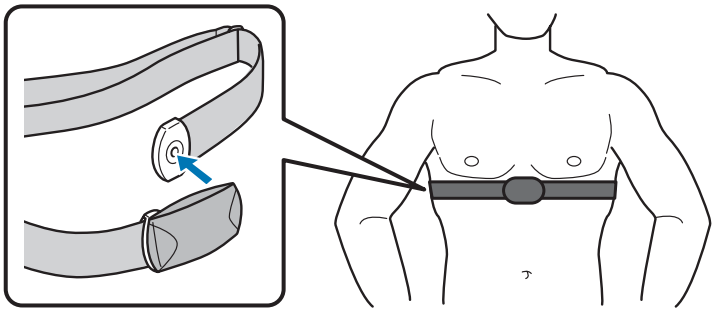
HR Monitor (Model No.: SFHRM01)



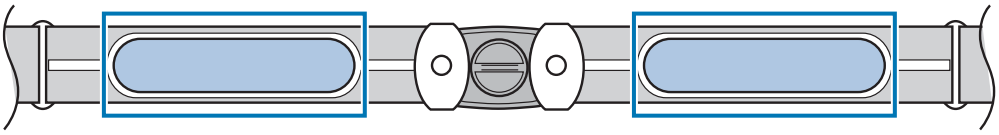
The HR monitor communicates with the device using Bluetooth® Smart technology.

Wearing the HR Monitor

Wear the HR belt so that the electrode section of the HR belt is pressed against your chest. Make sure it is attached correctly to avoid missing out on any data.



Note:
You can perform stable measurements when the electrode sections of the HR belt are a little wet.



Registering the HR Monitor to the Device

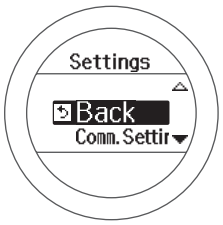
When using the HR monitor for the first time, wear the HR monitor when you register it to the device.

Operation buttons

> ***Important:***
> *Check that there are no other HR monitors in the surrounding area before registering.*

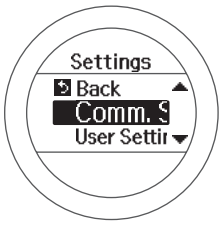
1 Displays the **Settings** menu.

Hold down **B** on the time screen.



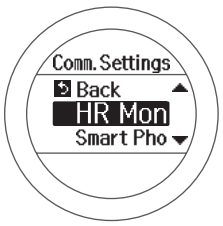
2 Select **Comm. Settings**.

Use **C**/**D** to select, and then press **A**.



3 Select **HR Monitor**.

Use **C**/**D** to select, and then press **A**.



4 Select **Register**.

Use **C**/**D** to select, and then press **A**.

The device starts searching for the HR monitor and displays the search results.

5 Select the registered HR monitor.

Use **C**/**D** to select, and then press **A**.

6 Complete the communication settings.

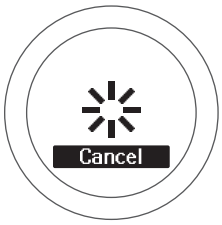
Press **A**.

7 Complete the settings.

Hold down **A**.

Displays the time screen.

Note:
If the following screen is displayed and communication cannot be established, reset the HR monitor.



☞ *"Replacing the Battery for the HR Monitor" on page 72*

Enabling the HR Monitor

When using the HR monitor, set **HR** to **ON** from the **Mes. Settings** menu.

Important:

- ❏ *When performing GPS positioning, make sure the screen is facing up and you are outside with no obstructions overhead.*

  ☞ *"Specifying a GPS (GPS Positioning)" on page 28*

- ❏ *It usually takes less than two minutes to complete GPS positioning.*

  *If it takes more than two minutes or **Failed** is displayed, we recommend selecting **Cancel**, moving to a different location, and trying again.*

Operation buttons

1 Display the measurement screen.

Press **C** on the time screen.

GPS positioning starts, and the measurement screen is displayed once positioning is complete.

Note:

- ❏ *You can skip GPS positioning if you want to start measuring immediately or if it is taking too long.*

  ☞ *"Skipping GPS positioning" on page 29*

- ❏ *Use indoor mode when GPS positioning cannot be performed because you are indoors and so on.*

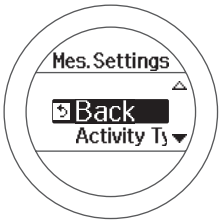
  ☞ *"Indoor mode (SF-710/SF-510 only)" on page 30*

- ❏ *Screens are explained using the default screens. You can invert the screen's monochrome display.*

  ☞ *"Sys. Settings" on page 93*

2 Displays the **Mes. Settings** menu.

Hold down **B** on the measurement screen.



3 Select **HR**.

Use **C**/**D** to select, and then press **A**.

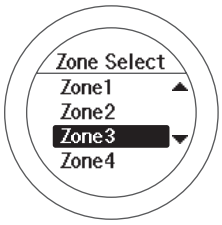
4 Select **ON**.

Use **C**/**D** to select, and then press **A**.

5 Set the heart rate zone you want to maintain while exercising.

Use **C**/**D** to select, and then press **A**.

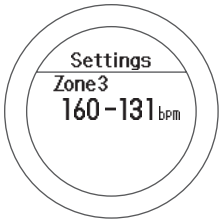
An alarm sounds if you are outside the set heart rate zone.



> ***Note:***
> *You can check or change the value set for the heart rate in each heart rate zone in* ***User Settings****.*
>
> *"User Settings" on page 92*

6 Check the set content.

Press **A**.



7 Complete the settings.

Hold down **A**.

The measurement screen is displayed.

> ***Note:***
> - *When* ***HR*** *is set to* ***ON****, the battery life for the device is reduced. When you are not using the HR monitor, set* ***HR*** *to* ***OFF****.*
> - *If you want to turn off the alarm that notifies you when you are outside the set heart rate zone, select* ***OFF*** *in step 5.*

Measuring Heart Rate

When **HR** is set to **ON** from the **Mes. Settings** menu, you can use the HR monitor to measure heart rate in the chronograph, interval, and goal functions. See the following pages for information on each function.

“Measuring Time, Distance, and Speed (Chronograph Function)” on page 37

“Setting a Time and Distance for Hard and Light Workouts(Interval Function)” on page 42

“Measure until the time or distance set in advance is reached (Goal function)” on page 50

Checking the Communication Status with the HR Monitor

You can check the communication status of the HR monitor from the icon on the measurement screen.

If ♥ is flashing, check that you are wearing the HR monitor correctly.

Measurement screen: Chronograph

♥ On: Communicating with the HR monitor.

♥ Flashing: Cannot communicate with the HR monitor.

Displaying the Measured Heart Rate Screen

The heart rate measurement item is not displayed by default. Change the screen settings to display the heart rate item.

“Screen” on page 95

List of measurement items displayed (items related to heart rate)

Display item	Display name		Explanation
	1 Line	2 Lines/3 Lines	
HR	HR	HR	Current heart rate
Average HR	Avg.HR	Av.HR	Average heart rate from the start of measurements
Maximum HR*	Max.HR	Max.HR	Maximum heart rate from the start of measurements
Lap HR	LapHR	LapHR	Average heart rate for each lap

Measuring Heart Rate (HR Monitor)

Display item	Display name		Explanation
	1 Line	2 Lines/3 Lines	
HR Zone Time*	Spent.HR	Spent.HR	Time within heart rate zone for each lap
Time to HR Zone*	Time.HR	Time.HR	Time until entering heart rate zone for each lap

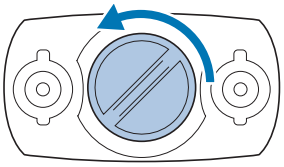
* Only displayed for the SF-710/SF-510.

Replacing the Battery for the HR Monitor

If you cannot measure your heart rate, the HR monitor battery may have run out. Replace the battery.

The HR monitor uses a lithium battery (CR2032).

1 Use something flat, such as a coin, to remove the battery cover.

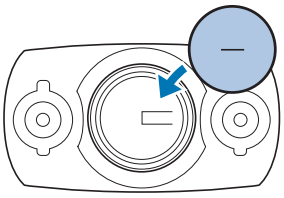


> ***Note:***
> *You can avoid damaging the cover by wrapping the coin in a thin handkerchief and so on.*

2 Remove the battery, and reset the HR monitor.

First, remove the battery.

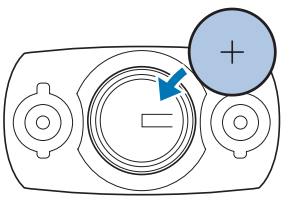
Turn the battery over so that the negative side is facing up and put it back in, and then wait for at least three seconds.



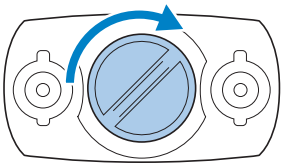
> ***Note:***
> *Resetting the HR monitor:*
>
> *Any remaining charge in the HR sensor circuitry is dispersed by removing the battery, reinserting it with the negative side facing up, and waiting for at least three seconds.*
>
> *If the HR monitor temporarily freezes, you can reset it by using this method.*

3 Insert a new battery.

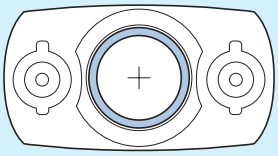
Make sure the + side is facing up.



4 Replace the battery cover.



Important:
If the internal seal (the blue part in the following diagram) has come out, put it back in its original position, and then close the cover. If the seal gets caught or broken when closing the cover, sweat or water could enter into the device causing a malfunction.



Data Management Using the Web Application (NeoRun)

This device allows you to manage measured data using a dedicated Web application (NeoRun).

The Web application (NeoRun) allows you to manage, review, and use your running route, distance, speed, heart rate, calories burnt, and so on.

> ***Note:***
> *You need to make an account the first time you use NeoRun.*
>
> ☞ *"Creating an Account (When Using for the First Time)" on page 78*
>
> *If you already have an account with NeoRun, you can continue using it with this device.*

☞ **"What is the Web Application (NeoRun)?" on page 75**

☞ **"Installing the NR Uploader" on page 77**

☞ **"Creating an Account (When Using for the First Time)" on page 78**

☞ **"Checking Uploaded Measurement Data" on page 82**

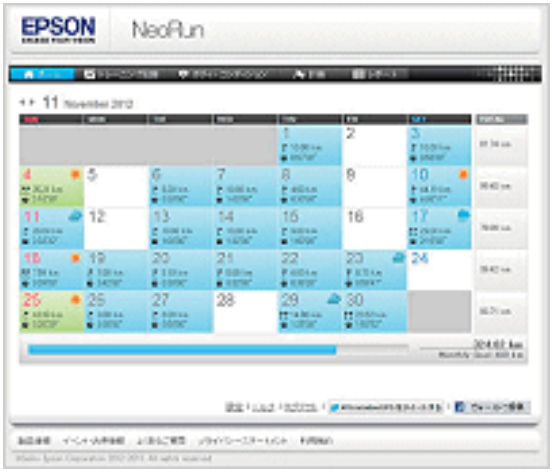
What is the Web Application (NeoRun)?

The Web application (NeoRun) sends measurement data through your computer allowing you to manage your running route, distance, speed, heart rate, calories burnt, and so on.

You can also use this for data analysis as the sent data can be displayed in various formats, such as a map display for the route, a graph showing speed/distance, and a total display (for months/entire periods).

By exporting in GPX format, you can also use the measurement data on other applications.

Home screen



Manage records in calendar format. Allows you to easily review past runs.

Training record screen

Displays the pace/speed, altitude, heart rate, and so on as a graph. Allows you to analyze training from different angles.

Data Management Using the Web Application (NeoRun)

Body condition screen

Displays changes in weight, body fat, calories burnt through exercise as a graph. Allows you to record, manage, and check your physical condition.

Training map screen

By using the built-in GPS function, you can review running routes you have left on the map, as well as look back on courses in competitions or when you were on a trip.

Installing the NR Uploader

You need NR Uploader to upload measurement data to the Web application (NeoRun).

Follow the steps below to install NR Uploader.

> ***Important:***
> *Use NR Uploader Ver. 2.0 or later. You can use Ver. 2.0 with the SS series.*

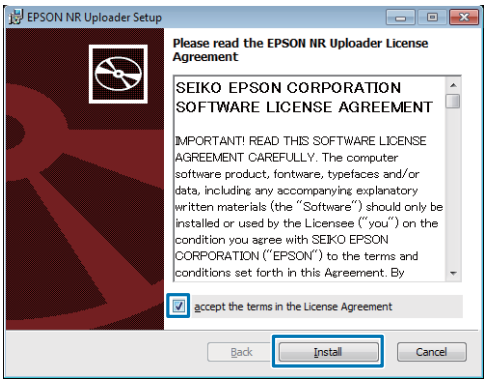
1 Access the following Web site and download NR Uploader.

http://www.epson.jp/download/

2 Run the downloaded file.

The Setup screen is displayed.

3 Select **I accept the terms in the License Agreement**, and then click **Install**.

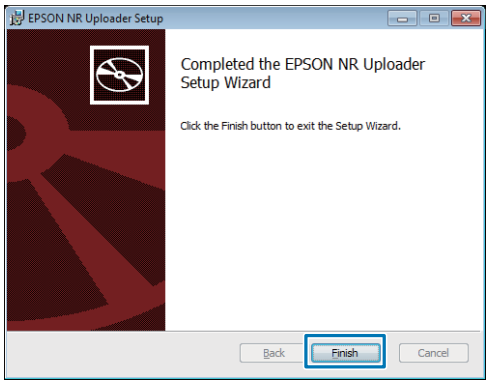


Installation starts.

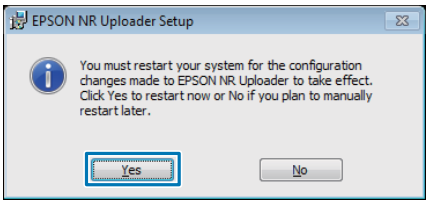
Follow the on-screen instructions until the installation complete screen is displayed.

> *A security message may be displayed, but you can continue with the installation.*

4 When the completion screen is displayed, click **Finish**.



5 When a screen is displayed asking you to reboot your computer, click **Yes** to reboot.

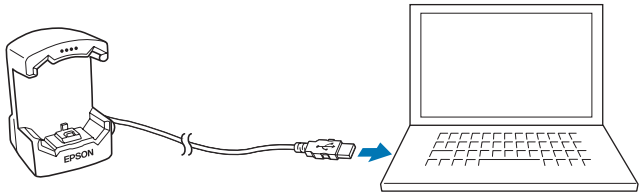


Installation is complete.

Creating an Account (When Using for the First Time)

You need to create an account with the Web application (NeoRun) when using it for the first time.

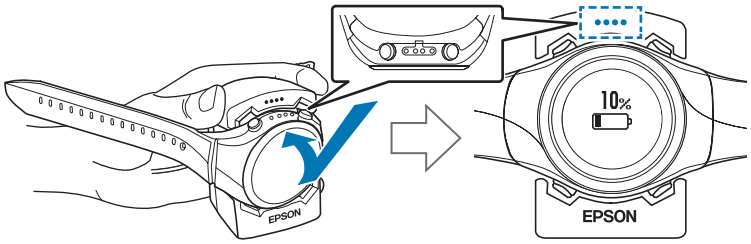
1 Connect the cradle to the computer on which NR Uploader is installed with a USB cable.



2 Place the device into the cradle.

Check that the contact points on the device are pointing up and match the contact marks on the cradle.

After placing the device into the bottom of the cradle, push carefully on the top of the device until it is fixed in place.

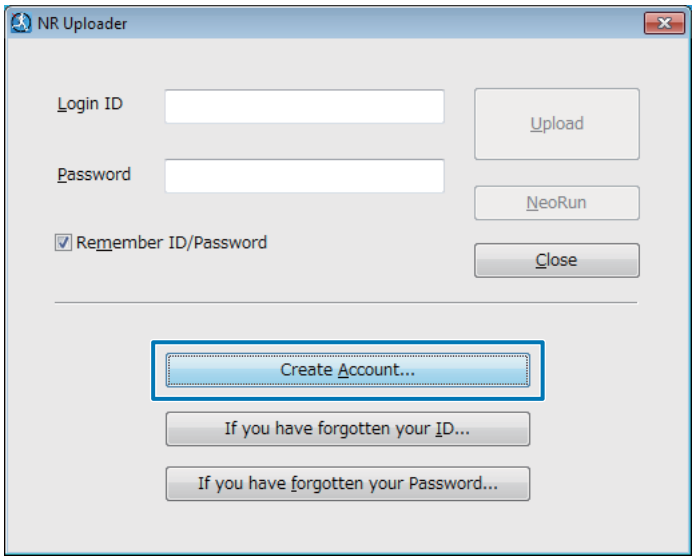


Important:
Make sure the device is placed in the correct direction; otherwise, the cradle could be damaged.

NR Uploader starts.

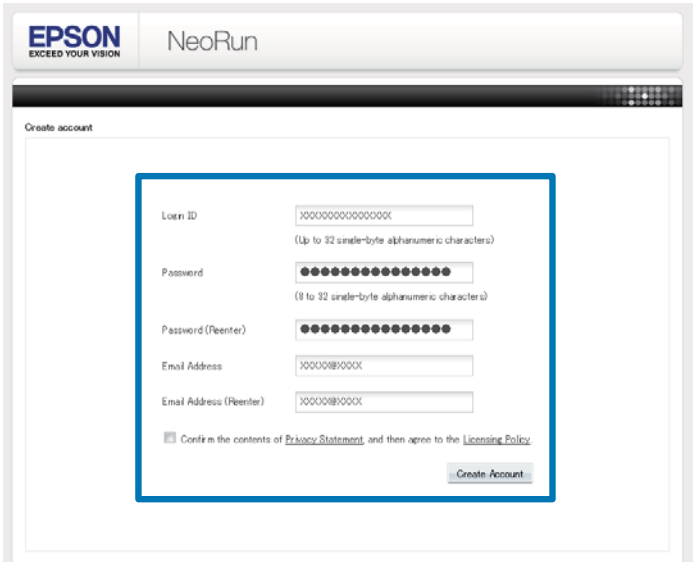
Note:
If NR Uploader does not start, disconnect the cable from the cradle, wait a few seconds, and then reconnect. Do not remove the device from the cradle.

3 Click **Create Account**.



4 Create an account.

Enter information for the **Login ID**, **Password**, and **Email Address**, and then click **Create Account**.



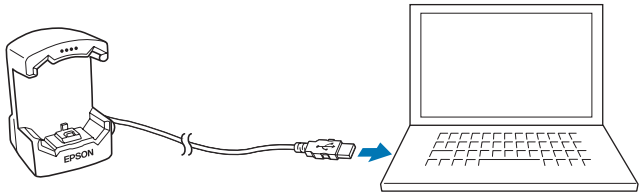
To upload measurement data, go to step 3 in the following section.

☞ “Uploading Measurement Data” on page 80

Uploading Measurement Data

You can upload measurement data to the Web application (NeoRun).

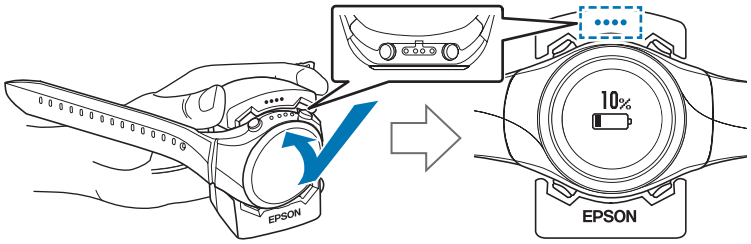
1 Connect the cradle to the computer on which NR Uploader is installed with a USB cable.



2 Place the device into the cradle.

Check that the contact points on the device are pointing up and match the contact marks on the cradle.

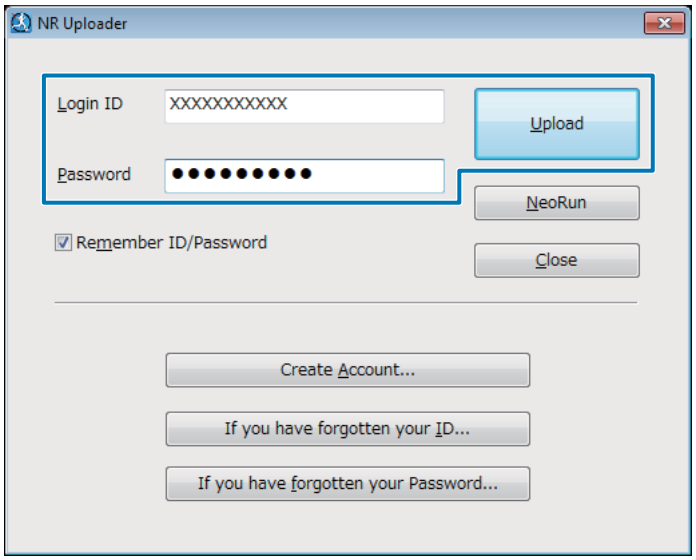
After placing the device into the bottom of the cradle, push carefully on the top of the device until it is fixed in place.



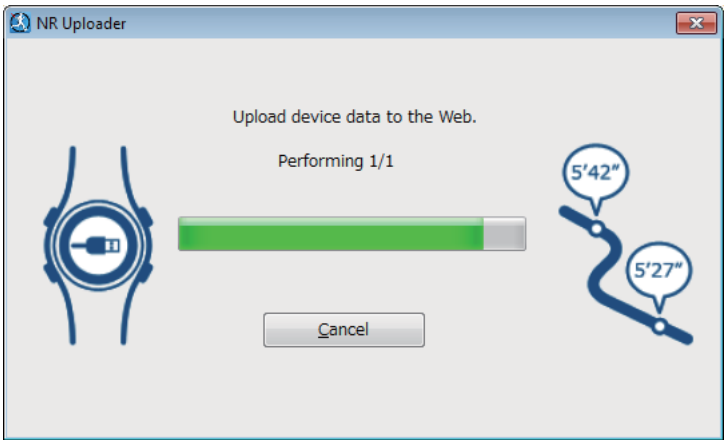
Important:
Make sure the device is placed in the correct direction; otherwise, the cradle could be damaged.

NR Uploader starts.

3 Enter your **Login ID** and **Password** on the NR Uploader screen, and then click **Upload**.



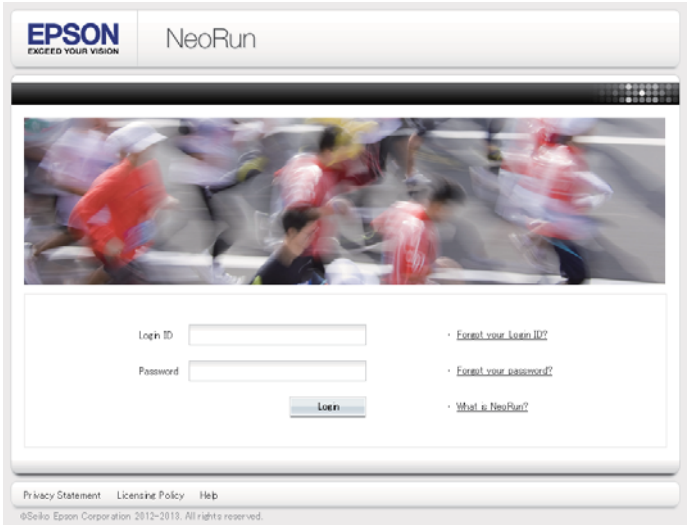
Data is uploaded to the Web application (NeoRun).



When the upload is complete, the Web application (NeoRun) starts and the Home screen is displayed.

Checking Uploaded Measurement Data

Access the Web application (NeoRun) to check uploaded measurement data.

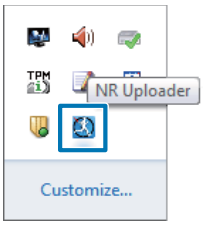


1 Start NeoRun.

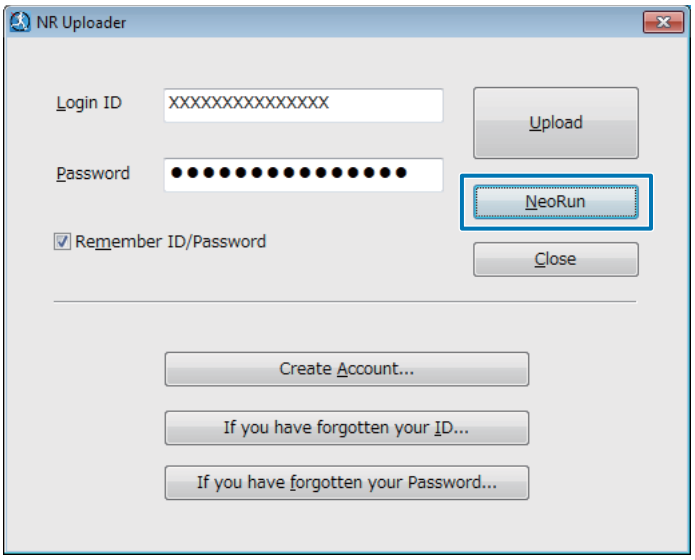
Use one of the following methods to start NeoRun.

■ **Access the following Web site.**
https://go-wellness.epson.com/neo-run/

■ **Start from the NR Uploader icon on your computer.**
Right-click the NR Uploader icon from the Windows desktop taskbar, and then select **NeoRun**.



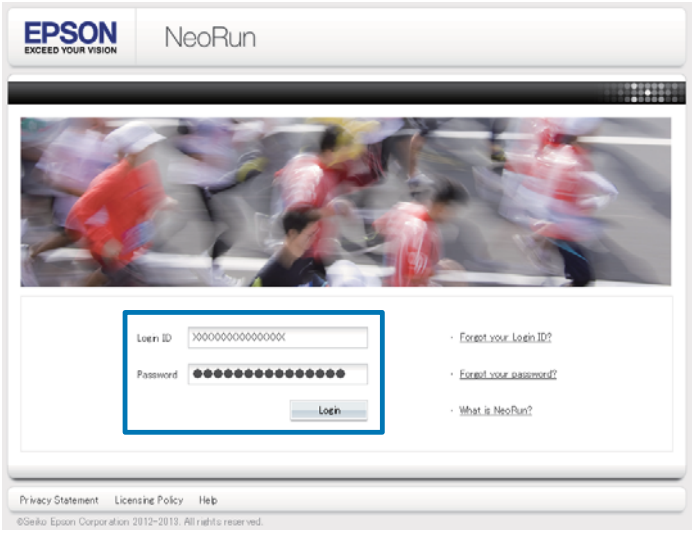
■ **Click NeoRun on the NR Uploader screen.**
The NR Uploader screen is displayed when you place the device in the cradle connected to the computer.



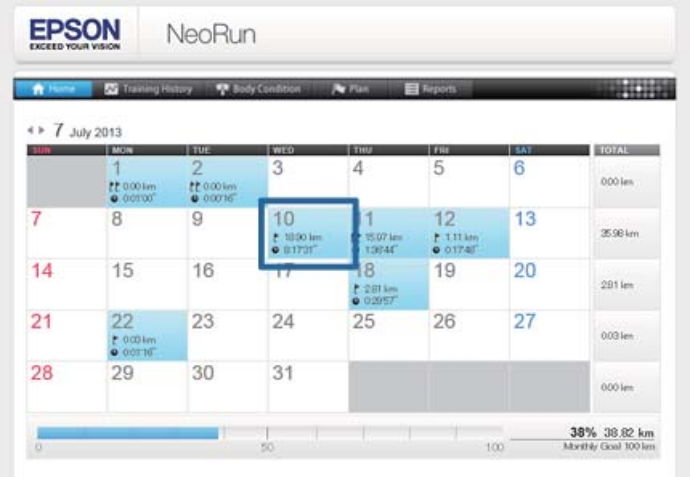
The Web application (NeoRun) starts and the Home screen is displayed. Go to step 3.

> ***Note:***
> *The **NeoRun** button is not available in the following circumstances.*
> ❏ *When the login ID and password have not been saved or entered.*
> ❏ *When the device has been removed from the cradle.*

2 Enter the **Login ID** and **Password**, and then click **Login**.



3 Click the data you want to check from the uploaded data.



Note:
For information on using the Web application (NeoRun), see the NeoRun Help.

Settings

You can change a variety of settings for measurement or device. Make settings to suit your purpose.

“Making Settings” on page 86

“Mes. Settings” on page 87

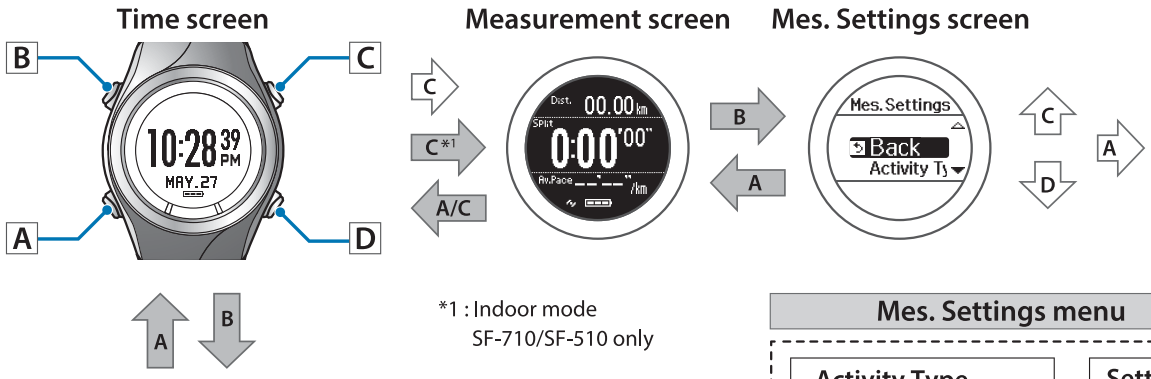
“Settings” on page 91

“Screen” on page 95

Making Settings

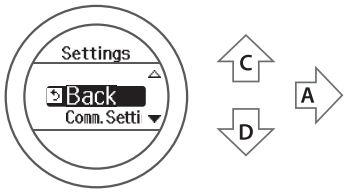
: Short press

: Long press (two seconds or more)



*1 : Indoor mode
SF-710/SF-510 only

Settings screen



Settings menu

Comm. Settings	HR Monitor Smart Phone	Settings
User Settings	Height Weight DOB Gender HR Zone	Settings
Sys. Settings	Language Units Clock DST Time Adjust Time Zone Date Format Invert Disp. Contrast Auto Sleep AT Light Alarm Operation Tones Initialize Software Version	Settings

Hold down **A** to display the time screen.

Mes. Settings menu

Activity Type Mode GPS AT Lap AT Pause Target Pace HR*2 Tap*3 Screen	Settings

*2 : Displayed after registering the HR monitor.

*3 : SF-710/SF-510 only

Hold down **A** to display the measurement screen.

Mes. Settings

Allows you to change the measurement settings.

Changing the Mes. Settings

Important:

- ❏ *When performing GPS positioning, make sure the screen is facing up and you are outside with no obstructions overhead.*

  "Specifying a GPS (GPS Positioning)" on page 28

- ❏ *It usually takes less than two minutes to complete GPS positioning.*

  *If it takes more than two minutes or **Failed** is displayed, we recommend selecting **Cancel**, moving to a different location, and trying again.*

Operation buttons

1 Display the measurement screen.

Use one of the following methods to display.

- ❏ When performing GPS positioning:

  Press **C** on the time screen.

- ❏ When skipping GPS positioning:

  Press **C** on the time screen, and then select **Skip** on the GPS positioning screen.

  "Skipping GPS positioning" on page 29

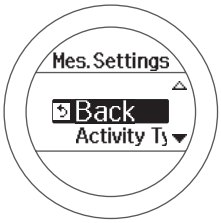
- ❏ When not performing GPS positioning (Indoor mode: SF-710/SF-510 only):

  Hold down **C** on the time screen.

"Indoor mode (SF-710/SF-510 only)" on page 30

2 Display the **Mes. Settings** menu.

Hold down **B** on the measurement screen.



3 Select a setting item.

Use **C**/**D** to select, and then press **A**.

4 Select a setting value.

Use **C**/**D** to select, and then press **A**.

Depending on the setting item, you may need to make further settings. Follow the on-screen instructions.

Note:
*When setting a number, hold down **C**/**D** to speed through the numbers.*

5 Complete the settings.

Hold down **A**.

The measurement screen is displayed.

Note:
*On the screen displayed after resetting measurements, if you hold down **A**, the time screen is displayed.*

Mes. Settings Table

Setting items	Value	Explanation
Activity Type	Run (default)	Set when running or jogging.
	Walk	Set when walking (exercising at a slow pace).
	Bike	Set when performing exercises that do not require you to swing your arms, such as riding a bike. We recommend setting Bike mode when in vehicles such as cars or trains.
Mode	Chronograph (default)	Set the mode to suit the measurements you want to make. Chronograph mode allows you to measure split times and lap times (section measurement) simultaneously. ☞ "Measuring Time, Distance, and Speed (Chronograph Function)" on page 37 Interval mode allows you to switch the sets of hard (sprint) or light (rest) exercises, and repeat using the specific distance or time set in advance. ☞ "Setting a Time and Distance for Hard and Light Workouts(Interval Function)" on page 42 Goal mode measures until the time or distance set in advance is reached. ☞ "Measure until the time or distance set in advance is reached (Goal function)" on page 50
	Interval	
	Goal	
GPS	-	Displays the number of GPS satellites being accessed.
AT Lap	Setting1	When a time or distance set in advance is reached, this function records laps automatically. Set the lap time or distance. You can set five times or distances. ☞ "Recording Laps Automatically (AT Lap Function)" on page 55
	Setting2	
	Setting3	
	Setting4	
	Setting5	
	OFF (default)	
AT Pause	ON	This function automatically stops measuring when you stop running, and resumes when you continue running. ☞ "Automatically Start/Stop Measuring (AT Pause Function)" on page 57
	OFF (default)	
Target Pace	Setting1	Set the target time and pace range for one kilometer. An alarm sounds if you are outside the set pace range. You can set three target paces. ☞ "Setting a Pace and Measuring (Target Pace Function)" on page 59
	Setting2	
	Setting3	
	OFF (default)	

Settings

Setting items	Value	Explanation
HR*1	ON	You can measure your heart rate by wearing the HR monitor (optional). "Measuring Heart Rate" on page 70
	OFF (default)	
Tap*2 (Only for the measurement screen)	Lap	You can perform one of the operations set here by tapping the screen once while measuring. When **Bike** is selected as the **Activity Type**, the tap function may operate automatically depending on the condition of the road surface. If this occurs, we recommend setting **OFF**. "Tap" on page 21
	Light	
	Screen Chg.	
	OFF (default)	
Screen	Screen1	You can display up to four measurement screens You can change the screen pattern and the measurement items displayed for each screen. You can also change the **Lap Hold Screen**, but this is not displayed for the interval function. "Screen" on page 95
	Screen2	
	Screen3	
	Screen4	
	Lap Hold Screen	

*1 Displayed after registering the HR monitor.

*2 Only displayed for the SF-710/SF-510.

Settings

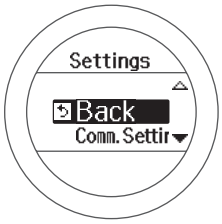
Allows you to change the settings for the device.

Changing the Settings

Operation buttons

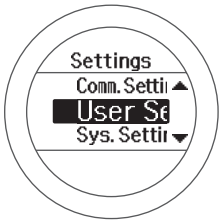
1 Displays the **Settings** menu.

Hold down **B** on the time screen.



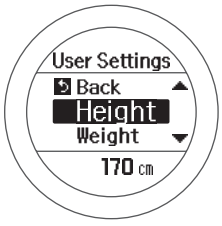
2 Select a setting item.

Use **C**/**D** to select, and then press **A**.



3 Select a setting item.

Use **C**/**D** to select, and then press **A**.



4 Select a setting value.

Use **C**/**D** to select, and then press **A**.

Depending on the setting item, you may need to make further settings. Follow the on-screen instructions.

> ***Note:***
> *When setting a number, hold down **C**/**D** to speed through the numbers.*

5 This completes the settings.

Hold down **A**.

Displays the time screen.

Settings Table

Comm. Settings

Set to connect the HR monitor or smartphone to this device and communicate.

Setting items	Value	Explanation
HR Monitor	Status	Register the HR monitor to this device. ☞ "Registering the HR Monitor to the Device" on page 66
	Register	
Smart Phone	Communicate	Register a smartphone to this device. See the "Smartphone User's Guide" for more details.
	Forget Device	

User Settings

Set the user information.

The Height, Weight, DOB, and Gender information is used to calculate the calories burnt.

The value in parenthesis () is the default setting.

Setting items	Value	Explanation
Height	(170 cm)	Set the height.
Weight	(60 kg)	Set the weight.
DOB Year	(1975)	Set your date of birth.
DOB Month	(1)	
DOB Day	(1)	
Gender	Male (default)	Set your gender.
	Female	
HR Zone	Zone1 (100 to 30 bpm)	Set the maximum and minimum heart rate. You can set five zones to suit the exercise intensity.
	Zone2 (130 to 101 bpm)	
	Zone3 (160 to 131 bpm)	
	Zone4 (190 to 161 bpm)	
	Zone5 (240 to 191 bpm)	

Sys. Settings

Make settings for the device's system.

The value in parenthesis () is the default setting.

Setting items	Value	Explanation
Language	English (default)	Set the display language.
	日本語	
Units	km (default)	Set the display units for distance.
	mile	
Clock	12 Hour (default)	Set the format for the display time.
	24 Hour	
DST	ON	Set summer time.
	OFF (default)	
Time Adjust	-	The device receives a signal from the GPS and automatically sets the time. Signals from the GPS cannot be received while indoors. Make sure the screen is facing up and you are outside with no obstructions overhead. If GPS positioning has not completed after two minutes, we recommend selecting **Cancel**, moving to a different location, and trying again.
Time Zone	Auto (default)	Sets the time zone for your location. When **Auto** is selected, perform **Time Adjust** to set the time zone automatically. When **Manual** is selected, you can set the time zone within a range of -12:00 to +14:00.
	Manual	
Date Format	Day. Month	Set the display format for the date.
	Month. Day (default)	
Invert Disp.	ON	Set the display format for the screen. When **ON** is selected, white text is displayed over a black background. When **OFF** is selected, black text is displayed over a white background.
	OFF (default)	
Contrast	(4)	Set the contrast for the screen.

Settings

Setting items	Value	Explanation
Auto Sleep	ON (default)	When you leave the device for a while, this function automatically puts the device into sleep status. Entering sleep status reduces the amount of power consumption.
	OFF	
AT Light	ON	When the screen changes, this function automatically turns on the light. When a specified time has passed, the light automatically turns off.
	OFF (default)	
Alarm	Tones (default)	Set the alarm type and time (1 to 10 minutes).
	Vib.*	
	Tones & Vib.*	
	OFF	
Operation Tones	ON (default)	Turn on or off the operation tones.
	OFF	
Initialize	-	Initializes all setting information (**Comm. Settings**, **User Settings**, **Sys. Settings** and **Mes. Settings**) and stride sensor information in the device's memory. Measurement history data is also deleted.
Software Version	-	Displays the firmware version information.

* Only displayed for the SF-710.

Screen

You can display up to four measurement screens. You can change the screen pattern (by displaying one line to three lines of data) and the measurement items displayed for each screen.

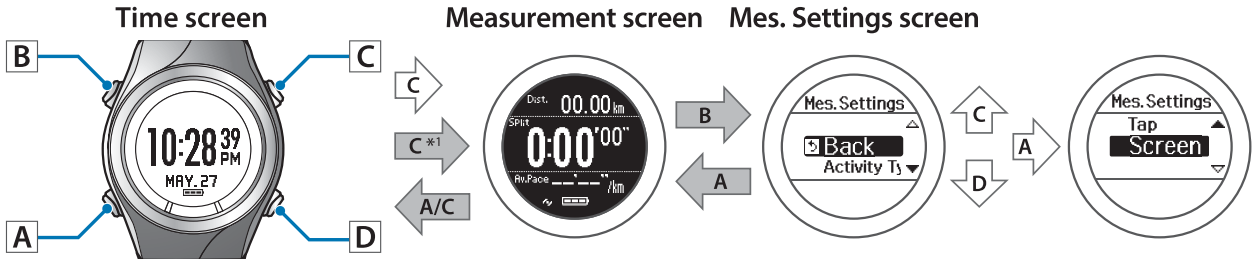
You can also change the display for the lap hold screen.

> ***Note:***
> *See the following pages for the default screen settings.*
>
> ☞ *"Screen Display" on page 40*

Screen Settings

: Short press

: Long press (two seconds or more)



*1 : Indoor mode
SF-710/SF-510 only

Screen menu

Screen	Screen Patt.	Item
Screen1 Screen2 Screen3 Screen4	1 Line 2 Lines 3 Lines	Distance, Lap Distance, Pace, Average Pace, Lap Pace, Speed, Average Speed, Lap Speed, Split Time, Lap Time, Time, Calories Burnt, Altitude, Guide Time, Guide Distance, Stride*2, Average Stride*2, Lap Stride*2, Pitch*2, Average Pitch*2, Lap Pitch*2, HR, Average HR, Maximum HR*2, Lap HR, Steps*2, Lap Steps*2, HR Zone Time*2, Time to HR Zone*2, Total Ascent*3, Total Descent*3, Grade*3, Latitude/Longitude*2, Estimated Time, Estimated Distance
	Pace&Graph HR&Graph Lap Target Pace OFF	
Lap Hold Screen	1 Line 2 Lines	Split Time Lap Distance Lap Time Lap Pace Lap HR

*2 : SF-710/SF-510 only
*3 : SF-710 only

Hold down **A** to display the measurement screen.

Screen Pattern Table

Measurement screen

Screen Pattern	Screen	Explanation
1 Line		Displays one measurement item on the screen.
2 Lines		Displays two measurement items on the screen by dividing the screen into two sections.
3 Lines		Displays three measurement items on the screen by dividing the screen into three sections.
Pace&Graph		When a pace alarm is set, this shows whether or not you have achieved the pace. When the pace alarm is off, only the current pace is displayed.
HR&Graph		When the HR alarm is set, this shows whether or not you are within the limits of the set heart rate zone. When the HR alarm is off, only the current heart rate is displayed.
Lap		Displays information on the lap acquired from the lap function.

Screen Pattern	Screen	Explanation
Target Pace		Displays the current pace at the top and the target pace at the bottom.
OFF	-	The measurement screen is not displayed.

Lap Hold Screen

Screen Pattern	Screen	Explanation
1 Line		Displays one measurement item on the screen.
2 Lines		Displays two measurement items on the screen by dividing the screen into two sections.

Measurement Display Items Table

Measurement screen

Display item	Display name		Explanation
	1 Line	2 Lines/3 Lines	
Distance	Distance	Dist.	Total distance from the start of measurements
Lap Distance	LapDistance	LapDist.	Distance for each lap
Pace	Pace	Pace	Current pace (time taken for one kilometer)
Average Pace	Avg.Pace	Av.Pace	Average pace from the start of measurements
Lap Pace	LapPace	LapPace	Average pace for each lap
Speed	Speed	Speed	Current speed
Average Speed	Avg.Speed	Av.Spd	Average speed from the start of measurements
Lap Speed	LapSpeed	LapSpd	Average speed for each lap
Split Time	SplitTime	Split	Total time from the start of measurements
Lap Time	LapTime	Lap	Time for each lap
Time	Time	Time	Current time
Calories Burnt	Calories	Calories	Current calories burnt through exercise
Altitude*1	Altitude	Alt.	Current altitude
Guide Time*2	GuideTime	Guide	Progress time towards target pace (reaching target or falling behind)
Guide Distance*2	GuideDist.	GuideDist.	Progress distance towards target pace (reaching target or falling behind)
Stride*3	Stride	Stride	Current Stride
Average Stride*3	Avg.Stride	Av.Stride	Average stride from the start of measurements
Lap Stride*3	LapStride	LapStride	Average stride for each lap
Pitch*3	Pitch	Pitch	Current Pitch (number of strides in one minute)

Display item	Display name		Explanation
	1 Line	2 Lines/3 Lines	
Average Pitch*3	Avg.Pitch	Av.Pitch	Average pitch from the start of measurements
Lap Pitch*3	LapPitch	LapPitch	Average pitch for each lap
HR	HR	HR	Current heart rate
Average HR	Avg.HR	Av.HR	Average heart rate from the start of measurements
Maximum HR*3	Max.HR	Max.HR	Maximum heart rate from the start of measurements
Lap HR	LapHR	LapHR	Average heart rate for each lap
Steps*3	Steps	Steps	Number of steps from the start of measurements
Lap Steps*3	LapSteps	LapStp	Number of steps for each lap
HR Zone Time*3*4	Spent.HR	Spent.HR	Time within heart rate zone for each lap
Time to HR Zone*3*5	Time.HR	Time.HR	Time until entering heart rate zone for each lap
Total Ascent*1*6	TotalAscent	Tot.Asc.	Total ascent from the start of measurements
Total Descent*1*6	TotalDescent	Tot.Des.	Total descent from the start of measurements
Grade*1*6	Grade	Grade	Current Grade
Latitude/Longitude*3	LAT/LONG	LAT/LONG	Current Latitude/Longitude
Estimated Time*7	Est.Time	Est.	Estimated time of arrival at the target distance set in the goal function
Estimated Distance*7	Est.Dist.	Est.Dist.	Estimated distance reached at the target time set in the goal function

*1 **Altitude**, **Total Ascent**, **Total Descent**, and **Grade** are calculated using the GPS signal. There functions may contain larger errors when compared to the accuracy of position and distance depending on the GPS environment.

*2 Set the **Target Pace** in the **Mes. Settings** menu.
☞ "Setting a Pace and Measuring (Target Pace Function)" on page 59

*3 Only displayed for the SF-710/SF-510.

*4 Make the following settings in the **Mes. Settings** menu.

- ❏ When **Mode** is set to **Chronograph**/**Goal**
  HR > HR Monitor: ON > Zone Select: Zone1 to Zone5
- ❏ When **Mode** is set to **Interval**
  Mode: Interval > HR Zone: Zone1 to Zone5
  HR > HR Monitor: ON

*5 Make the following settings in the **Mes. Settings** menu.
Mode: Interval > HR Zone: Zone1 to Zone5
HR > HR Monitor: ON

*6 Only displayed for the SF-710.

*7 Use when **Mode** is set to **Goal** from the **Mes. Settings** menu.

Lap Hold Screen

Display item	Display name		Explanation
	1 Line	2 Lines/3 Lines	
Split Time	Split	Split	Total time from the start of measurements
Lap Distance	LapDist.	LapDist.	Distance for each lap
Lap Time	Lap	Lap	Time for each lap
Lap Pace	LapPace	LapPace	Average pace for each lap
Lap HR	LapHR	LapHR	Average heart rate for each lap

Changing the Measurement Screen

The setting method varies depending on the screen pattern. See the explanations for each screen pattern.

☞ "Setting **1 Line/2 Lines/3 Lines**" on page 101

☞ "Setting **Pace&Graph/HR&Graph**" on page 102

☞ "Setting **Lap/Target Pace/OFF**" on page 104

Important:

- ❏ *When performing GPS positioning, make sure the screen is facing up and you are outside with no obstructions overhead.*

  ☞ *"Specifying a GPS (GPS Positioning)" on page 28*

- ❏ *It usually takes less than two minutes to complete GPS positioning.*

  *If it takes more than two minutes or **Failed** is displayed, we recommend selecting **Cancel**, moving to a different location, and trying again.*

Setting 1 Line/2 Lines/3 Lines

Here we will explain how to display **Calories Burnt** in **Screen4** using **1 Line**.

Operation buttons

1 Display the measurement screen.

Use one of the following methods to display.

- ❏ When performing GPS positioning:

  Press **C** on the time screen.

- ❏ When skipping GPS positioning:

  Press **C** on the time screen, and then select **Skip** on the GPS positioning screen.

  ☞ "Skipping GPS positioning" on page 29

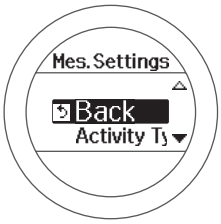
- ❏ When not performing GPS positioning (Indoor mode: SF-710/SF-510 only):

  Hold down **C** on the time screen.

  ☞ "Indoor mode (SF-710/SF-510 only)" on page 30

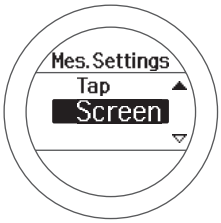
2 Display the **Mes. Settings** menu.

Hold down **B** on the measurement screen.



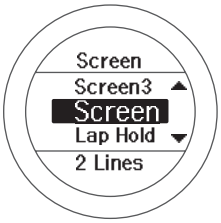
3 Select **Screen**.

Use **C**/**D** to select, and then press **A**.



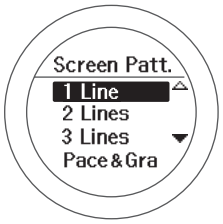
4 Select **Screen4**.

Use **C**/**D** to select, and then press **A**.



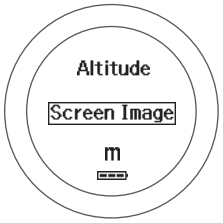
5 Select **1 Line**.

Use **C**/**D** to select, and then press **A**.



Screen Image is displayed. **Altitude** is displayed by default.

After checking, press **A** and go to the following step.



6 Select **Line 1**.

Use **C**/**D** to select, and then press **A**.

7 Select **Calories Burnt**.

Use **C**/**D** to select, and then press **A**.

Screen Image is displayed.

After checking, press **A** and go to the following step.

> ***Note:***
> *When you want to set **2 Lines** or **3 Lines**, repeat steps 6 and 7.*

8 Complete the settings.

Hold down **A**.

The measurement screen is displayed.

Press **A** on the measurement screen to change the screen, and then check if **Screen4** has been changed.

> ***Note:***
> *Hold down **A** on the measurement screen to display the time screen.*

Setting Pace&Graph/HR&Graph

Here we will explain how to display **Pace&Graph** in **Screen4**.

Operation buttons

1 Display the measurement screen.

Use one of the following methods to display.

❏ When performing GPS positioning:

Press **C** on the time screen.

❏ When skipping GPS positioning:

Press **C** on the time screen, and then select **Skip** on the GPS positioning screen.

☞ "Skipping GPS positioning" on page 29

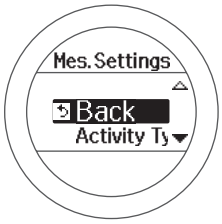
❏ When not performing GPS positioning (Indoor mode: SF-710/SF-510 only):

Hold down **C** on the time screen.

☞ "Indoor mode (SF-710/SF-510 only)" on page 30

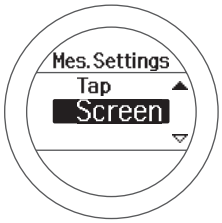
2 Display the **Mes. Settings** menu.

Hold down **B** on the measurement screen.



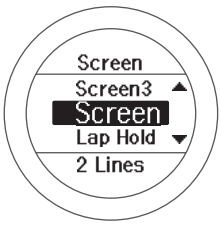
3 Select **Screen**.

Use **C**/**D** to select, and then press **A**.



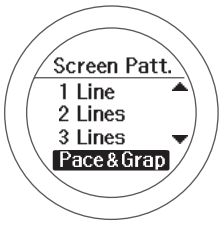
4 Select **Screen4**.

Use **C**/**D** to select, and then press **A**.



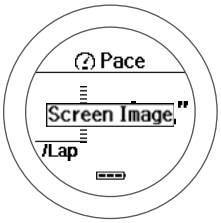
5 Select **Pace&Graph**.

Use **C**/**D** to select, and then press **A**.



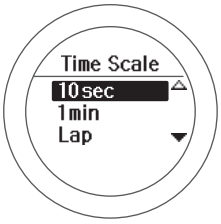
Screen Image is displayed.

After checking, press **A** and go to the following step.



6 Select the interval at which to display the screen.

Use **C**/**D** to select, and then press **A**.



7 Complete the settings.

Hold down **A**.

The measurement screen is displayed.

Press **A** on the measurement screen to change the screen, and then check if **Screen4** has been changed.

Note:
*Hold down **A** on the measurement screen to display the time screen.*

Setting Lap/Target Pace/OFF

Here we will explain how to set **Lap** in **Screen4**.

1 Display the measurement screen.

Use one of the following methods to display.

- When performing GPS positioning:

  Press **C** on the time screen.

- When skipping GPS positioning:

  Press **C** on the time screen, and then select **Skip** on the GPS positioning screen.

  "Skipping GPS positioning" on page 29

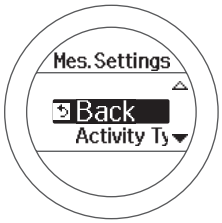
- When not performing GPS positioning (Indoor mode: SF-710/SF-510 only):

  Hold down **C** on the time screen.

  "Indoor mode (SF-710/SF-510 only)" on page 30

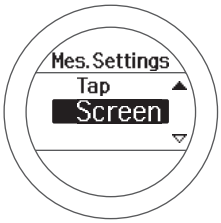
2 Display the **Mes. Settings** menu.

Hold down **B** on the measurement screen.



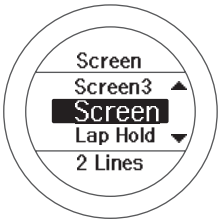
3 Select **Screen**.

Use **C**/**D** to select, and then press **A**.



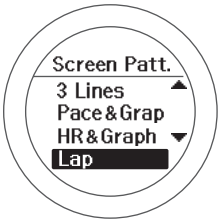
4 Select **Screen4**.

Use **C**/**D** to select, and then press **A**.



5 Select **Lap**.

Use **C**/**D** to select, and then press **A**.



Screen Image is displayed.

After checking, press **A** and go to the following step.

6 Complete the settings.

Hold down **A**.

The measurement screen is displayed.

Press **A** on the measurement screen to change the screen, and then check if **Screen4** has been changed.

Note:
Hold down ***A*** *on the measurement screen to display the time screen.*

Changing the Lap

Here we will explain how to display **Lap Pace** in **1 Line**.

Operation buttons

1 Display the measurement screen.

Use one of the following methods to display.

- When performing GPS positioning:

  Press **C** on the time screen.

- When skipping GPS positioning:

  Press **C** on the time screen, and then select **Skip** on the GPS positioning screen.

  “Skipping GPS positioning” on page 29

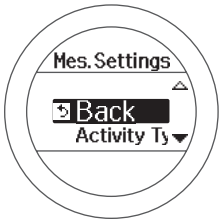
- When not performing GPS positioning (Indoor mode: SF-710/SF-510 only):

  Hold down **C** on the time screen.

  “Indoor mode (SF-710/SF-510 only)” on page 30

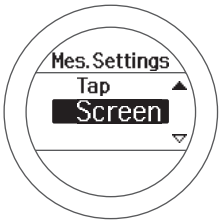
2 Display the **Mes. Settings** menu.

Hold down **B** on the measurement screen.



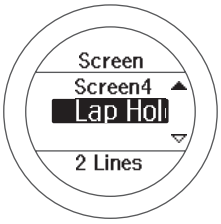
3 Select **Screen**.

Use **C**/**D** to select, and then press **A**.



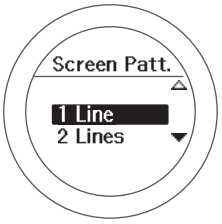
4 Select **Lap Hold Screen**.

Use **C**/**D** to select, and then press **A**.



5 Select **1 Line**.

Use **C**/**D** to select, and then press **A**.

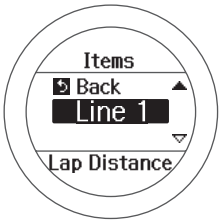


Screen Image is displayed. **Lap Distance** is displayed by default.

After checking, press **A** and go to the following step.

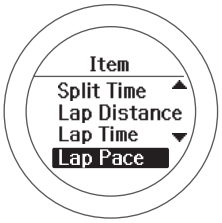
6 Select **Line 1**.

Use **C**/**D** to select, and then press **A**.



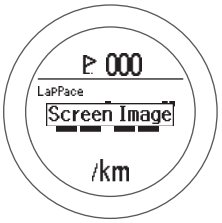
7 Select **Lap Pace**.

Use **C**/**D** to select, and then press **A**.



Screen Image is displayed.

After checking, press **A** and go to the following step.



> ***Note:***
> *When you have set this to **2 Lines**, repeat steps 6 and 7.*

8 Complete the settings.

Hold down **A**.

The measurement screen is displayed.

> ***Note:***
> *Hold down **A** on the measurement screen to display the time screen.*

Setting Examples

Here we will provide two usage examples.

> ***Note:***
> *See the following page for information on making changes.*
>
> *"Changing the Measurement Screen" on page 101*

Default settings

Screen		Screen Pattern	Measurement item
Screen1		3 Lines	Distance (Dist.) Split Time (Split) Average Pace (Av.Pace)

Recommended settings for a marathon

Display **Distance** and **Split Time** enlarged on one screen.

Screen		Screen Pattern	Measurement item
Screen1		2 Lines	Distance (Dist.) Split Time (Split)

Recommended settings for walking

Display **Calories Burnt**, **Distance**, and **Time** on one screen.

Screen		Screen Pattern	Measurement item
Screen1		3 Lines	Calories Burnt (Calories) Distance (Dist.) Time (Time)

Maintenance

This section explains how to maintain this device, replace the battery, and update the firmware.

☞ "Performing Maintenance" on page 110
☞ "Replacing the Battery" on page 111
☞ "Updating the Firmware" on page 112

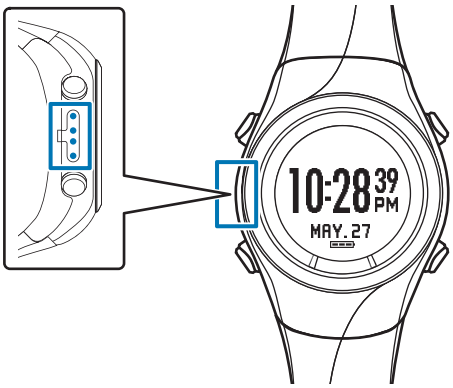
Performing Maintenance

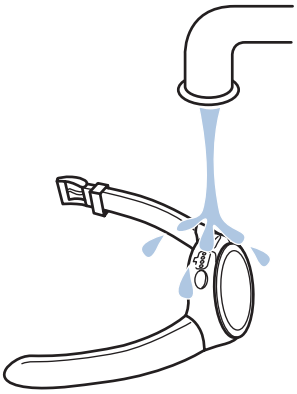
Performing After Care

Important:

- ❏ *If the device is placed in the cradle when it is covered in water, sweat, or dirt, the contact points could corrode, malfunction, or cause a communication failure.*
- ❏ *Do not perform button operations when it is wet; otherwise, a malfunction could occur.*

After using the device, wash the contact points lightly with tap water, wipe away most of the water with a towel and so on, and then let it dry naturally. Water, sweat, or dirt could cause the device to malfunction.





If charging or communicating becomes unstable, clean the contact points on the device and the cradle with a damp cotton swab.

Do not clean using organic solvents such as benzine, thinner, alcohol, or detergent. This could cause the product to degrade.

About the strap

If the strap gets soiled, wash it with water and wipe thoroughly with a dry cloth. This strap is made from polyurethane and after years of use the color may fade or it may lose its elasticity.

HR Monitor Maintenance

- ❏ After exercising, take off the HR monitor and HR belt, dip them in water and wash.
- ❏ Also make sure that you wash the button sections and wipe off all moisture.
- ❏ Although you can wash the HR belt in a washing machine, make sure you place the belt in a net, and do not use a drier.
- ❏ Do not iron, dry clean, or use a chlorine-based detergent on the HR belt.
- ❏ Wash the HR monitor carefully with water. Do not use a washing machine or a drier.
- ❏ Dry the HR monitor and HR belt completely and store them separately.

Replacing the Battery

About the Device's Built-in Rechargeable Battery

You cannot replace the built-in rechargeable battery yourself.

If the battery does not retain its charge for as long as it used to due to prolonged use, the battery may be running out. In this situation, contact your local dealer or our repair center to replace the battery for a fee.

The average service life for the battery is five years, although this may change depending on the operating conditions.

About the HR Monitor Battery

Be careful not to injure yourself when replacing the HR monitor battery (CR2032).

"Replacing the Battery for the HR Monitor" on page 72

The average service life for the battery when using the HR monitor for one hour every day is one and a half years.

Updating the Firmware

You may be able to resolve problems that occur by updating the firmware.

We recommend downloading and using the latest version.

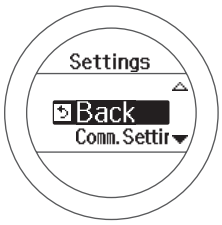
> ***Important:***
> *When updating the firmware, the history may be deleted and settings may be initialized. For more details on updating, see the following Epson Web site.*
> *http://www.epson.jp/download/*
> *Before updating the firmware, we recommend uploading your measurement data to NeoRun.*
>
> *"Creating an Account (When Using for the First Time)" on page 78*

Checking the Firmware Version

Operation buttons

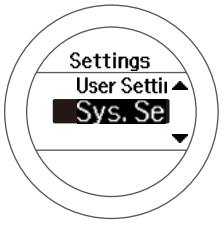
1 Display the Settings menu.

Hold down **B** on the time screen.



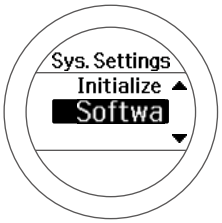
2 Select **Sys. Settings**.

Use **C**/**D** to select, and then press **A**.



3 Select **Software Version**.

Use **C**/**D** to select, and then press **A**.



4 Check the version.

5 Complete the settings.

Hold down **A**.

The time screen is displayed.

Updating the Firmware

Download "WristableGPS" from the following Epson Web site and update the firmware.

http://www.epson.jp/download/

> ***Note:***
> *See the download page on the Epson Web site for details on how to update the firmware.*

Troubleshooting

This section explains how to solve problems that occur during use.

Caution:

- ❏ After using the device, use a little clean water to wash the contact points, wipe away most of the water with a towel and so on, and then let it dry naturally. If the device is placed in the cradle when it is dirty, it could corrode, malfunction, or cause a communication failure.
- ❏ If charging or communicating becomes unstable, clean the contact points on the device and the cradle with a damp cotton swab, and so on.
- ❏ If device operations become unstable or if functions do not operate correctly, perform a system reset (hold down all four buttons at the same time).
- ❏ If the HR monitor operations become unstable or if it does not function correctly, remove the HR monitor battery, place it in the battery compartment so that the negative side is facing up. Wait for three seconds (reset), and then put it back in the correct direction.

Problem Solving

Check each item.

Problem		Solution
Basic actions	The screen is not displayed.	You cannot start using the device immediately after purchase until the device is charged. Also, nothing is displayed if the battery runs out. Charge the device. ☞ "Charging" on page 22
	The device does not react even after performing an operation.	Is the battery running low? Charge the battery. ☞ "About the Battery" on page 27 If the device does not operate after charging, try resetting the system. ☞ "Resetting the System" on page 118
	The screen turns off or turns blue during use	Perform a system reset. ☞ "Resetting the System" on page 118
	The clock turns off.	When you leave the device for a while, it enters sleep status and the time display turns off. This is not a malfunction as the display is restored the next time you move the device. If the display is not restored, the battery is running low. Charge the device. ☞ "Charging" on page 22 Also, if **Auto Sleep** is set to off, the clock does not turn off. ☞ "Sys. Settings" on page 93
	The time is not set correctly.	Set "Time Adjust" from Sys. Settings. ☞ "Sys. Settings" on page 93 If the hour is different, check the time zone and daylight-saving time. ☞ "Sys. Settings" on page 93
	Measurement stops while exercising.	When exercising slowly, such as when walking, we recommend turning off the AT Pause function. ☞ "Automatically Start/Stop Measuring (AT Pause Function)" on page 57

Troubleshooting

Problem		Solution
Chronograph actions	The device cannot receive a GPS signal.	Go to a location outside with no obstructions overhead. Signals from the GPS cannot be received while indoors. Also, if there are any obstacles partially blocking the sky, such as tall buildings and mountain sides, reception may be interrupted causing a lack of precision in distance measurements.
	Signals from the GPS are hard to receive or are interrupted.	Even when a signal is being received, it may be interrupted depending on the running environment. Wear on the outside of your arm. Also, make sure the strap is tightened.
Charging	The device does not charge even when it is placed in the cradle. Charging stops frequently.	Check the connection for the cradle. Clean the contact points on the device and the cradle. ☞ "Performing After Care" on page 110 A malfunction may have occurred if you cannot charge the device even after checking the points above. Stop charging the device immediately, and contact our information center.
	The charge error screen is displayed.	Charge in an environment where the surrounding temperature is 5 to 35°C.
	The device and the cradle become hot while charging.	There may be a malfunction. Stop using the device immediately, and contact our information center.
Waterproofing function	Can I use the device when swimming?	This device is water resistant at 5 barometric pressures and can be used when swimming. Do not perform button operations in the water. GPS signals cannot be received when in water. Also, do not swim while wearing the optional HR monitor as it is not waterproof.
	Inside the glass becomes cloudy.	Condensation may occur in the device due to differences in temperature between the device and the open air. Temporary condensation does not have any effect on the device. You can continue to use the device in this condition. If the condensation remains for a long time, water may have entered the device. Contact our information center.
Accessories	Acquiring optional products.	The AC adapter, HR monitor, and HR belt are available as optional extras. Contact your local dealer for more information. Also, if you need an extra cradle, contact your local dealer or our information center.

Problem		Solution
HR Monitor	The HR monitor is not working correctly.	Check the following items. ❏ Are you wearing the HR belt correctly? ☞ "Wearing the HR Monitor" on page 65 ❏ Has it been registered to the device? ☞ "Registering the HR Monitor to the Device" on page 66 ❏ Is the HR monitor set to **ON**. ☞ "Enabling the HR Monitor" on page 68 ❏ If you cannot register to the device, replace the battery after resetting the HR monitor. To reset the HR monitor, place the battery in the battery compartment so that the negative side is facing up, and leave it for three seconds. ❏ Is the battery running out? Replace the battery if it is running out. ☞ "Replacing the Battery for the HR Monitor" on page 72 ❏ Perform a system reset for the device. ☞ "Resetting the System" on page 118
Communication	The device is not recognized correctly when it is connected to a computer.	Check the connection for the computer and the cradle. Clean the contact points on the device and the cradle. ☞ "Performing After Care" on page 110 Perform a system reset. ☞ "Resetting the System" on page 118
Web application	When communicating with a computer, an error screen is displayed and communication stops.	Do not move the device and the cradle during communication. Avoid communicating data under environments where static electricity can be easily generated. If the same error occurs, reconnect the cradle to start communication again.

If you cannot solve the problem even after trying the points above, contact our information center.

Resetting the System

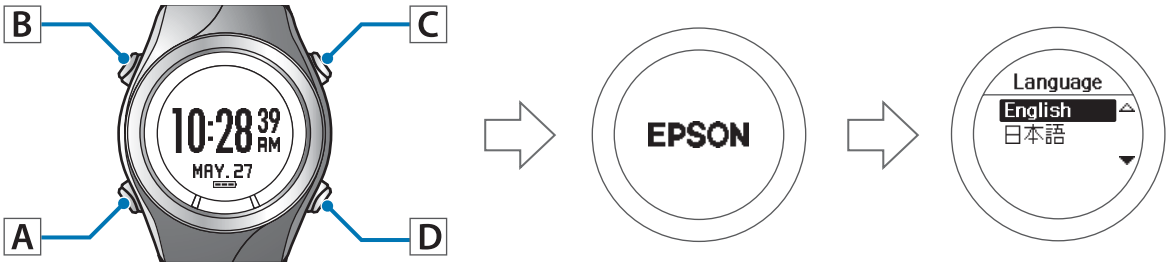
If operations are unstable, try resetting the system.

Hold down all of the buttons (A/B/C/D).

The screen is reset and the device restarts.

Initialize the device after restarting.

“Initial Settings” on page 25



Important:
Measurement data is not recorded if a system reset is performed while measuring.

Note:

- ❏ *Setting data and measurement data remain as they were before the reset was performed.*
- ❏ *The following shows the differences between a system reset and initializing. The time needs to be set again for both operations.*

  *System reset: The **User Settings**, **Sys. Settings**, **Mes. Settings**, history, stride, HR monitor, and smartphone registration information all remain as they were before the reset was performed.*

  *Initialize: The **User Settings**, **Sys. Settings**, **Mes. Settings**, history, stride, HR monitor, and smartphone registration information are all initialized.*

Contacting us About this Product

●Information center: Call if you have questions or need to consult about the device.
Support from the Information Center is only available in Japanese. Also, the manual that is provided with the product is only available in Japanese.

Tel: **050-3155-8280**

* If the above telephone number is unavailable, try 042-585-8590.
* Please note that the address or contact information may change without prior notice.
* Check the Epson Web site for more detailed information. http://www.epson.jp/support/

●Sending or bringing for repair:
Bring the product to your local dealer, or send it to the following repair center.

Matsumoto repair center

Address: Epson Service Center, Kanbayashi 1563, Matsumoto City, 390-1243

Tel: **050-3155-7110**

* If the above telephone number is unavailable, try the following numbers.
  Matsumoto repair center: 0263-86-7660
* Please note that the address or contact information may change without prior notice.
* Check the Epson Web site for more detailed information on repairs. http://www.epson.jp/support/

●Inquiries about door-to-door repair service
Door-to-door service is a specialized repair service whereby a designated contractor will come to the address you specify and pick up your product for repair. Once repairs are complete, we will send the product back to you. Please note that this is not a free service. The product will be packed by the contractor.

Tel: **050-3155-7150**

* If the above telephone number is unavailable, try 0263-86-9995.
* Please note that the address or contact information may change without prior notice.
* Check the Epson Web site for more detailed information on the door-to-door service. http://www.epson.jp/support/

Showroom * See the following Web site for more details. http://www.epson.jp/showroom/
Epson Square Shinjuku: Shinjuku-ku, Nishi-Shinjuku 6-24-1, Tokyo, 160-8324 Nishi Shinjuku Mitsui Bldg. 1F

Optional items and consumables
You can buy these items from your local Epson retailer or from Epson Direct:
Web site http://www.epson.jp/shop/ or free-phone 0120-545-101 (As of May, 2012)

WGPS 2013.11

After Service

- ❏ For repair and maintenance of this product, contact your local dealer or our repair center.
- ❏ If the battery does not retain its charge for as long as it used to due to prolonged use, the battery may be running out. In this situation, contact your local dealer or our repair center to replace the battery for a fee.
- ❏ The strap for the device, the battery for the HR monitor, the HR belt, and the USB cable are not covered by the guarantee. If you need to purchase any of these items, contact your local dealer or our information center.
- ❏ Spare parts for repairing this product will be available for six years after the device has stopped being manufactured.
- ❏ In the event of product failure, we do not guarantee that data recorded on the device can be recovered.
- ❏ A sticker displaying the serial number for this product is attached to the guarantee. If there is no sticker, the guarantee is void.

Appendix

Understanding the Icons

Icon	Name
	Run mode (measuring while running)
	Walking mode (measuring while walking)
	Bike mode (measuring while riding a bike)
	The signal is being received from the GPS (GPS On)
	GPS positioning
	Communicating with the HR monitor
	Average pace
	Lap
	Distance
	Calories Burnt
	Split time
	Data that can be edited on the device
	Current setting

Product Specifications

Device Specifications

Specifications		SF-710	SF-510	SF-310
Size (thickness)		13.6 mm	11.8 mm	12.8 mm
Weight		59g	49g	50g
Waterproofing performance		5 atm		
Operating time	GPS On	30 hours		
	Time displayed (when Auto Sleep is On)	20 days*1		
Operating temperature		-5 to 50°C		
Possible memory time (total distance time)		Approx. 70 hours		
Maximum number of laps (one split)		400		
Heart rate measurement (using the HR monitor)		○*2	○*2	○*2
Pitch/stride measurement		○	○	-
Indoor mode		○	○	-
Display range	Distance/Lap Distance/Estimated Distance	0.000 to 999.99 km/0.000 to 999.99 mi		
	Pace/Lap pace/Average pace	0'00'' to 30'00''/km/0'00'' to 45'00''/mi		
	Speed/Lap Speed/Average Speed	0.0 to 999.9 km/h/0.0 to 999.9 mi/h		
	Split/Lap time	00'00'' to 99:59'59''		
	Pitch/Lap Pitch/Average Pitch	0 to 255 spm		-
	Stride/Lap Stride/Average Stride	0 to 255 cm/0 to 100 inch		-
	Steps/Lap Steps	0 to 999999		-
	Calories Burnt	0 to 9999 kcal		
	Grade	-99 to 99%	-	-
	Altitude	-500 to 9999 m/-1500 to 29999 ft		

Specifications		SF-710	SF-510	SF-310
Display range	Total Ascent	0 to 99999 m/ 0 to 99999 ft	-	-
	Total Descent	0 to 99999 m/ 0 to 99999 ft	-	-
	HR/Lap HR/Average HR/Maximum HR*3	1 to 255 bpm		
	Guide Time Range	0:00'00" to ±9:59'59"		
	Guide Distance Range	00.00 to ±99.99 km/00.00 to ±99.99 ml		

*1 10 hours/day in sleep mode.

*2 The HR monitor can be purchased as an optional item.

*3 Maximum HR only available for the SF-710/F-510.

Cradle specifications

Specifications	SF-710	SF-510	SF-310
Operating temperature range	5 to 35°C		

Option Specifications

You can purchase the following optional extras. Contact your local dealer for more information.

AC adapter specifications

Specifications	Model No.: SFAC01
Input	AC 100V 50/60 Hz
Output	DC 5V/1.0A

HR monitor specifications

Specifications	Model No.: SFHRM01
Waterproofing performance	Water resistant for daily use

Glossary

Term	Definition
AT Lap	This automatically records laps when you have run for a fixed amount of time or a fixed distance.
AT Light	This automatically turns on the light during lap measuring, alarm notification, and during the interval function.
AT Pause	Automatically stops measuring when you stop exercising, and resumes when you continue.
Calculating calories burnt	Total calories burnt from the start of the exercise.
Chronograph	This function allows you to measure split times and lap times (section measurement) simultaneously.
Distance	Distance from the measurement start point to the current time.
GPS function	A system that receives signals in a GPS receiver from satellites orbiting the earth and calculates your current position. This function allows you to accurately understand positional and time information.
Guide distance	This calculates if you are reaching or falling behind the target pace distance.
Guide time	This calculates if you are reaching or falling behind the target pace time.
Heart rate (HR) monitor	The HR monitor measures your heart rate while exercising.
HR Zone Time	The time you have remained within the heart rate zone.
Interval	A training mode that allows you to perform sets of hard (sprint) and light (rest) exercise over a specified time or distance, and repeat the set.
Lap pace	Your pace for the current lap.
Lap Pitch	Your average pitch per lap.
Lap Speed	Your average speed per lap.
Lap Stride	Your average stride per lap.
Lap time	Your time for the lap.
NeoRun	WristableGPS dedicated Web application. This allows you to manage your course, analyze your pace, check calories burnt, and check your condition.
Pace	Your current pace acquired from GPS information.
Pitch	The number of steps taken in one minute while measuring.
Split time	The time from starting measurements to stopping measurements.

Appendix

Term	Definition
Stride	The stride calculated from your running data.
Stride sensor	This uses the GPS function to accumulate data on your stride and acceleration allowing the device to estimate the distance traveled even when you enter locations that cannot receive GPS signals, such as in a tunnel.
Time to HR Zone	The time until you arrive at the heart rate zone.
Total Ascent	The total value of the height ascended from the measurement start point.
Total Descent	The total value of the height descended from the measurement start point.
Water resistant at 5 barometric pressures	The device is water resistant at up to 5 barometric pressures.

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EPSON

GPS Sports Monitor

WristableGPS

SF-710 | SF-510 | SF-310

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