



CATEYE

Air GPS II

Cateye Cycling™ Android version



CYCLOCOMPUTER
CC-GPS100 N



This instruction manual is subject to be changed without notice.

<https://www.cateye.com/instruction/?id=CC-GPS100N>



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Introduction

The Air GPS II is a cyclocomputer equipped with a built-in GPS.

The Air GPS II alone can perform various measurements by acquiring position information from the GPS.

The Air GPS II can measure cadence and heart rate as well as highly accurate speed by pairing with CATEYE or third party sensors compatible with Bluetooth 4.0.

Measurement data (trip data *1) can be viewed and managed on a smartphone (free smartphone app Cateye Cycling™) by importing the data from the Air GPS II.

(*1) Trip data contains data from measurement start to end.

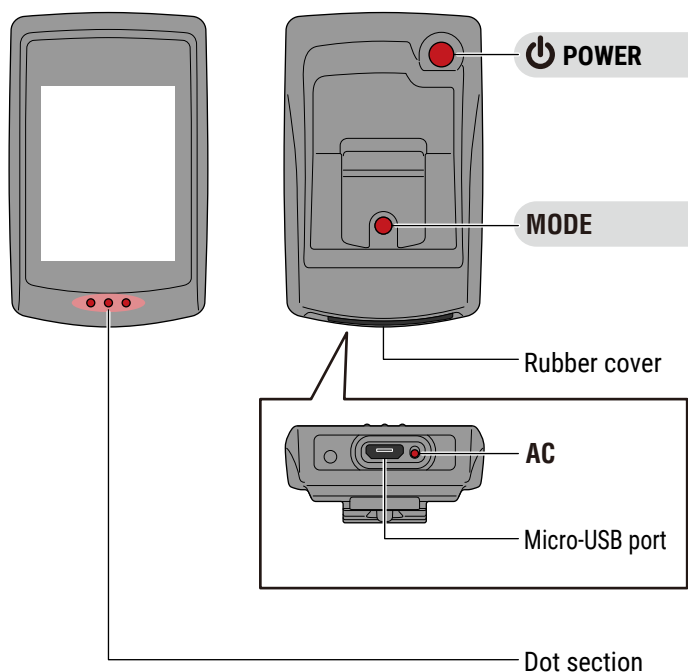
* For CATEYE sensors compatible with the Air GPS II, refer to the [sensor's online manual](#) (on our website).

* We do not guarantee all operations of third party sensors.

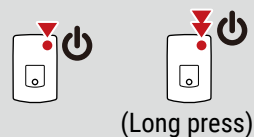
* For the screen display and measurement data of the Air GPS II, see "[Starting measurement](#)" (page 9).

Part names and package contents

- Air GPS II unit

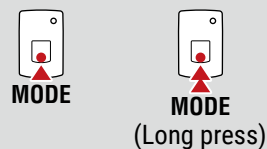


Button icons in this manual

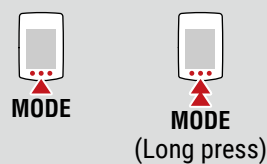
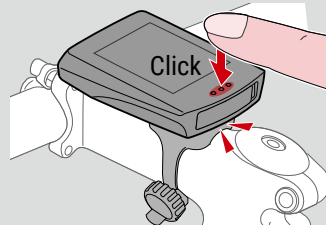


MODE button operation

When the computer is used alone



When installed on bracket



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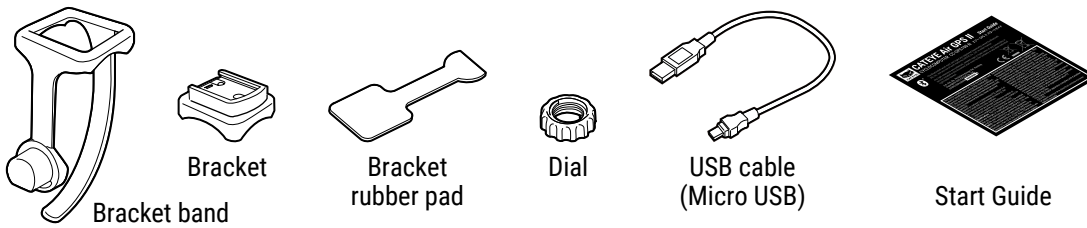
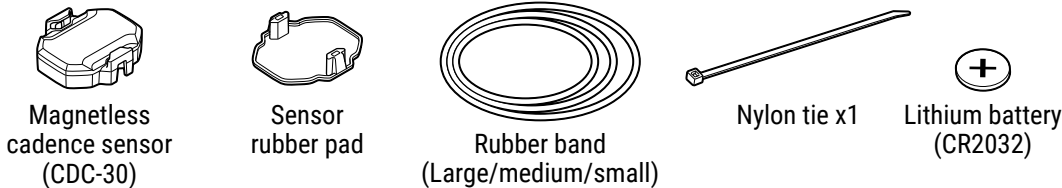
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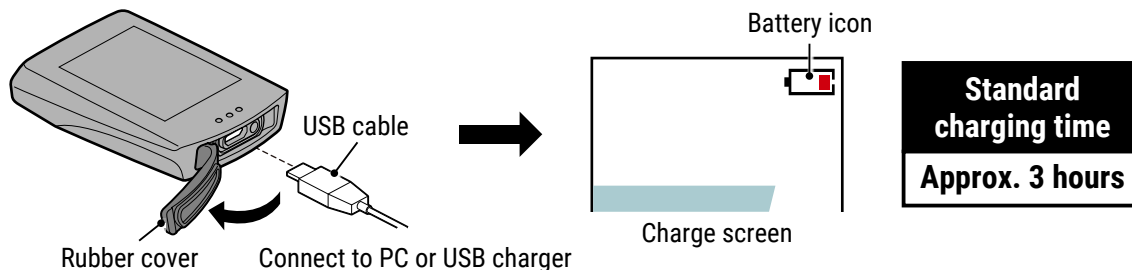
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• Accessories

**Air GPS II + magnetless cadence sensor (CDC-30) set includes these parts.****Charging the Air GPS II**

Connect the Air GPS II to a commercially available USB charger or PC using the USB cable.

When charging starts, the battery icon will be displayed.



⚠ Caution! Keep the rubber cover firmly in place to maintain waterproofness.

- * If charging starts during measurement, the measurement will be terminated and saved. Please charge the Air GPS II before or after measurement.
- * If the battery icon is not displayed, disconnect and reconnect the USB cable repeatedly until this icon is displayed.
- * The standard charging time is approximate and will vary according to environmental and user conditions.
- * When fully charged, the device can be used for about 16 hours.
- * Even with a full charge, allowing the unit to stand for a long period of time will consume the battery because of the standby current.

Charging via a PC

- When your PC is in the sleep state, the battery cannot be charged.
- Before disconnecting the USB cable, perform Safely Remove Hardware process for [GPS100 N] on a PC.
- * When the Air GPS II is connected to a Mac, the [GPS100 N] icon may still be displayed on the screen even after the removal procedure. Regardless of the displayed [GPS100 N] icon, the USB cable can be disconnected after the removal procedure.



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To set up the Air GPS II, the smartphone app Cateye Cycling™ is required.
After installing Cateye Cycling™, follow the procedure below to set up the Air GPS II.



* For the latest information on the smartphones that are compatible with Cateye Cycling™ operations, see "[Cateye Cycling™ Recommended Devices](#)".

* When using the application for the first time, allow the use of the GPS and Bluetooth® and select the unit (**km/h** or **mph**).

Air GPS II

1 Press and hold (POWER) to turn on the Air GPS II.

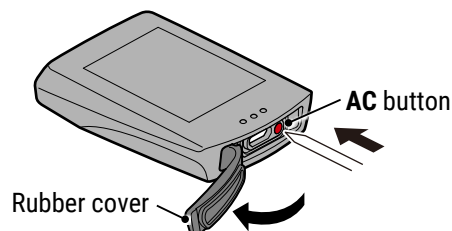
The Air GPS II enters standby mode (**READY** flashes).

* If the screen is blank or  (battery frame only) is displayed after a long press of  (POWER), charge the Air GPS II according to the procedure under "[Charging the Air GPS II](#)" (page 3).



(Long press)

2 Open the rubber cover on the Air GPS II and press the **AC** button to format the Air GPS II.



⚠ Caution!:

- Formatting will restore the Air GPS II to factory default settings.
- Keep the rubber cover firmly in place to maintain waterproofness.

After the entire screen is lit, the Air GPS II returns to standby mode (**READY** flashes).

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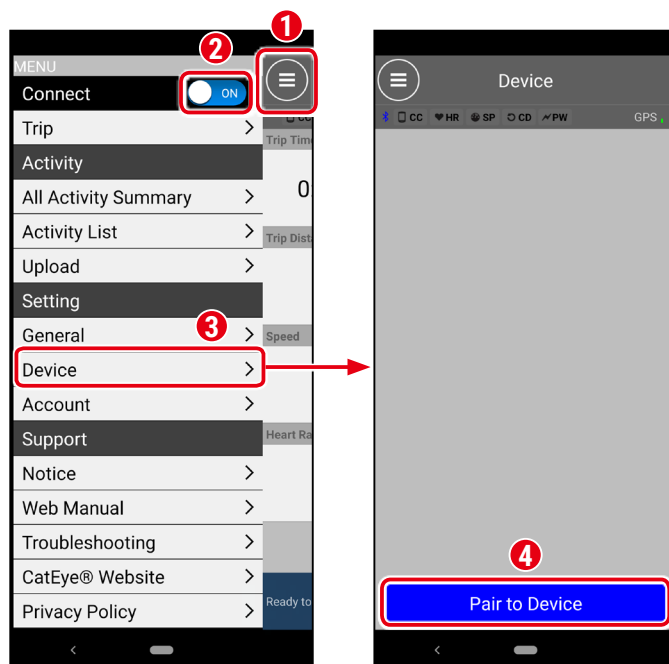
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Smartphone

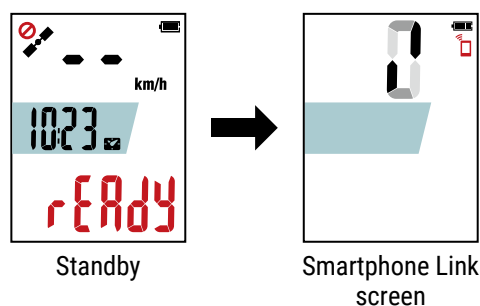
- 3** Launch Cateye Cycling™, tap  (MENU) and turn on [Connect], and then tap [Device] > [Pair to Device] to begin pairing.

* To pair with the Air GPS II, allow the use of Bluetooth®.



When Cateye Cycling™ detects Air GPS II, a message is displayed on the smartphone.

The display of the Air GPS II in standby mode changes to the smartphone link screen.



Tap [Pairing] to complete pairing.

When pairing is complete, the app is connected to the Air GPS II.

When a firmware update notification is displayed

A new firmware version is available for the Air GPS II. Update the firmware by tapping [Update].



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4 Turn [Connect] off on Cateye Cycling™.

This concludes the setup of the Air GPS II.

To use sensors, follow the procedure under [“Using sensors” \(page 21\)](#) to pair the sensors.



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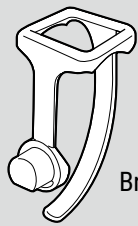
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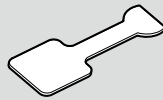
Mounting the bracket



Bracket band



Bracket



Bracket rubber pad

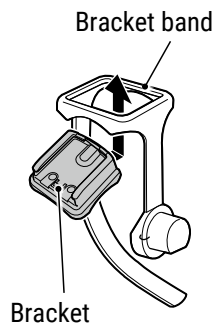
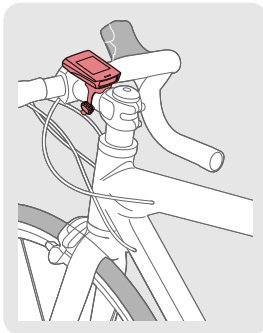


Dial

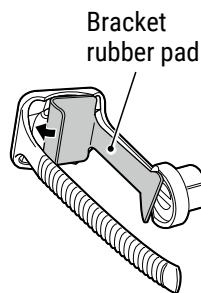
The bracket can be mounted on either the stem or the handlebar.

1 Mounting the bracket

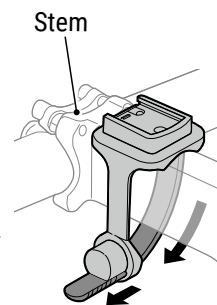
- When mounting on stem



Bracket

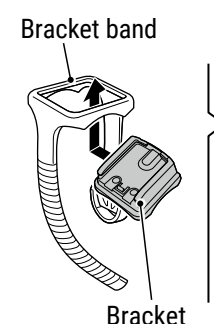
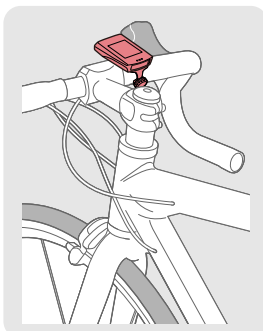


Bracket rubber pad



Stem

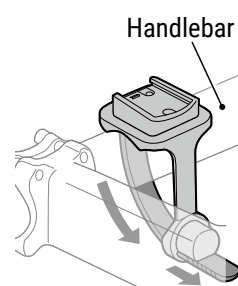
- When mounting on handlebar



Bracket



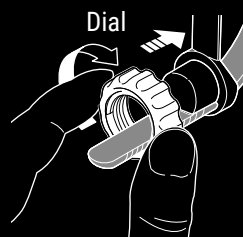
Bracket rubber pad



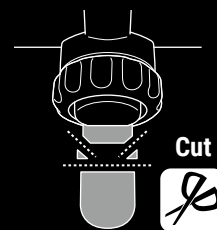
Handlebar

⚠ Caution!:

- Always tighten the bracket band dial by hand. Using a tool or other object to tighten the dial may crush the screw thread.
- Cut the bracket band so that cut end will not cause injury.



Dial



Cut



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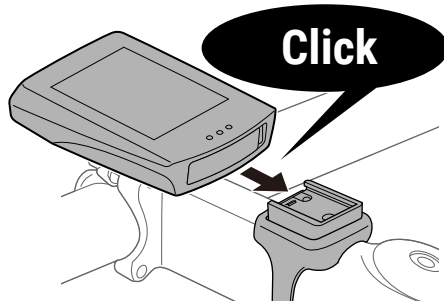
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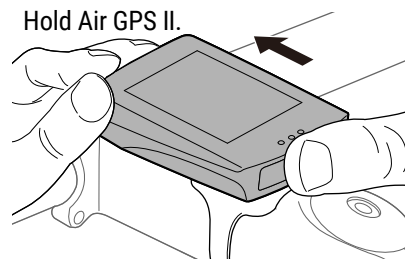
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2 Attach/detach Air GPS II



Insert Air GPS II into the bracket until it clicks to fix it in place.



Push out so that front lifts up.

Mounting the sensor

If the magnetless cadence sensor comes with the Air GPS II, follow the procedure under [“Magnetless cadence sensor: 3. How to install the unit on your bicycle”](#) in the sensor’s online manual (on our website) to mount the sensor.



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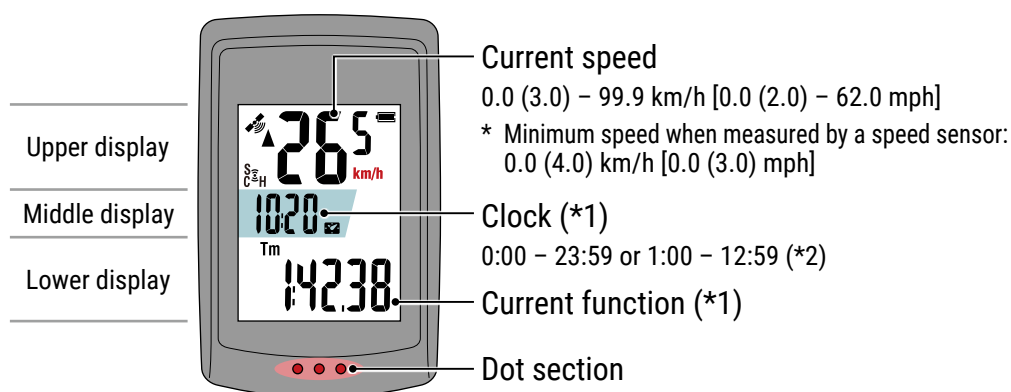
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Restrictions on measurement

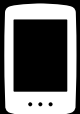
- The maximum moving time that can be measured for a single trip varies depending on how much battery power remains at measurement start. (When fully charged, the device can be used for about 16 hours.)
If the battery of the Air GPS II runs out during measurement, the measurement will be terminated and saved, and the power will be turned off.
- The maximum recording time for trip data is approx. 80 hours in total. (With a 1-second record interval) If this total is exceeded, the oldest trip data will be deleted to make room for new measurements.



- (*1) The middle and lower displays can be customized via smartphone (Cateye Cycling™).
For details, see [“Setting the Air GPS II” \(page 18\)](#).
- (*2) 24 or 12-Hour time will be automatically set in accordance with the time setting of the paired smartphone.

Icon	Description
 (GPS signal received)	GPS sensitivity
 (GPS signal unreceived)	Indicates the GPS signal status.
	Battery Indicates the remaining Air GPS II battery in 4 different increments. * When  (battery frame only) is constantly shown on the screen, the remaining battery power is low. Follow the procedure under “Charging the Air GPS II” (page 3) to charge the Air GPS II.
	Smartphone Link Flashes when a smartphone (Cateye Cycling™) is connected.

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Icon	Description
	Sensor signal icon Turns on when a paired sensor signal is received. • S : Speed sensor • C : Cadence sensor • S C (both lit) : Speed/cadence sensor • H : Heart rate sensor
	Pace arrows Indicates whether the current speed is faster (▲) or slower (▼) than the average speed.
km/h m/h	Units Displays the currently selected measurement unit. • Constant : Measurement stopped • Flashing : Measurement in progress (counting the moving time)
Tm	Moving Time
	Heart rate Displayed when a heart rate sensor is paired.
	Cadence Displayed when a cadence sensor is paired. * Indicates the number of pedal rotations per minute.
Dst	Trip Distance
Dst2	Trip Distance 2 This is the secondary trip distance measured separately from the above trip distance. The distance can be measured across multiple trips. * For reset operation of Trip Distance 2, see “Setting the Air GPS II” (page 18) .
°C / °F	Temperature (temperature of Air GPS II unit) * The unit of Temperature will be automatically set in accordance with the unit of speed km/h or m/h selected.
AV	Average value Displays the average heart rate and average cadence measured by paired sensors in addition to the average speed.
MX	Maximum value Displays the maximum heart rate and maximum cadence measured by paired sensors in addition to the maximum speed.
Odo	Total Distance
	Clock



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Measurement flowchart

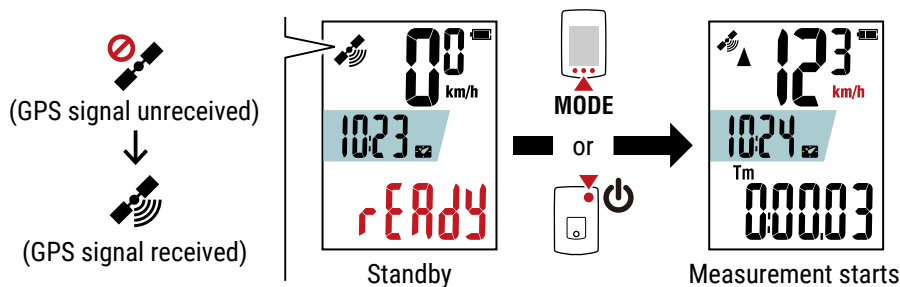
* The Air GPS II cannot be connected to a smartphone during measurement.

1 Press and hold (POWER) to turn on the Air GPS II.

* If the screen is blank or  (battery frame only) is displayed after a long press of  (POWER), charge the Air GPS II according to the procedure under ["Charging the Air GPS II" \(page 3\)](#).



2 When (GPS signal received) is displayed, press **MODE** or (POWER) to start measurement.

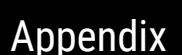
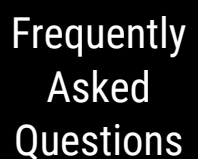


⚠ Caution!:

When pressing the **MODE** button with the Air GPS II installed on the bracket, press the area around the dot section on the front side of the Air GPS II. Pressing other areas strongly may result in malfunction or damage.

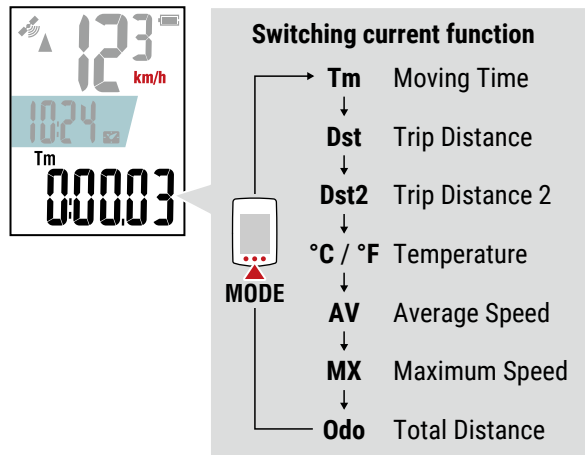
During measurement, measurement of the moving time starts and stops automatically in sync with the movement of the bicycle.

- * It takes time to receive the GPS signal. (Wait approximately 1 to 2 minutes in an outdoor location with few obstacles.)
- * Measurement can start even with no GPS signal or speed signal from the sensor when the button is pressed. However, counting of the current speed and moving time do not start until speed information is acquired.
- * The measurement unit flashes during measurement.
- * The icons and texts for any connected sensors will appear constant.
- * If a sensor capable of measuring speed is connected (**\$** is displayed), measuring data is possible even while  (GPS signal unreceived) is flashing. In this case, the location information will start to be recorded at the position where the GPS signal is received.



- **Switching current function displayed at the bottom of the screen**

Pressing **MODE** switches the current function displayed at the bottom of the screen.



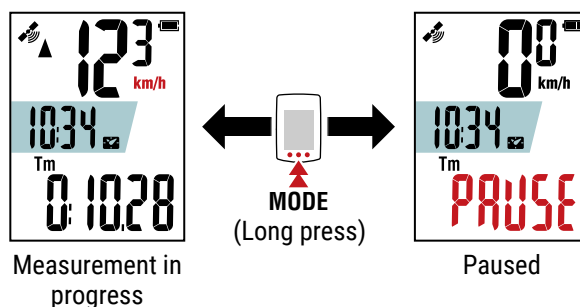
* The lower display can be switched by pressing **MODE** even while measurement is paused.

For details, see [“Switching the lower display” \(page 13\)](#).

- **Pausing/resuming measurement**

Measurement can be paused by pressing and holding **MODE** during measurement (**PAUSE** flashes).

To resume measurement, press and hold **MODE** again.



* Ride data will not be recorded while measurement is paused.

* The Air GPS II can be connected to a smartphone while measurement is paused.

3

To finish a measurement, press and hold **POWER**.

The Air GPS II is turned off after saving measurement results.

* Measurements for trip distances of less than 100 m (0.1 mile) are not saved.

* Measurement can be finished during measurement or while measurement is paused.



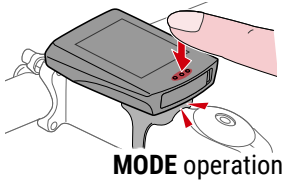
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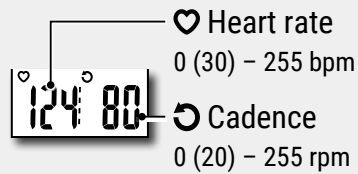
Switching the lower display

Pressing **MODE** switches the current function displayed at the bottom of the screen.

Press the dot section when mounted on the bracket



Current values



If heart rate and/or cadence sensors are paired, the corresponding value is displayed here.

Tm
12345

Tm Moving Time
0:00'00" - 19:59'59"



If the middle display has been set to display an item other than the clock, the clock is displayed here.

Odo
12345

Odo Total Distance
0 - 999999 km [miles]

Dst
2563

Dst Trip Distance
0.00 - 999.99 km [miles]

Dst2
167138

Dst2 Trip Distance 2
0.00 - 9999.99 /
10000.0 - 99999.9 km [miles]

26 °C

Temperature
-10°C - 40°C [14°F - 104°F]

MX
162 km/h
1023
409

MX Maximum value
Maximum Speed
0.0 (4.0) - 99.9 km/h
[0.0 (3.0) - 62.0 mph]

or

AV
162 km/h
1023
226

AV Average value
Average Speed
0.0 - 99.9 km/h
[0.0 - 62.0 mph]

or

409
162 km/h
1023
160 102

Maximum Speed
Maximum Heart rate
0 (30) - 255 bpm
Maximum Cadence
0 (20) - 255 rpm

226
162 km/h
1023
120 79

Average Speed
Average Heart rate
0 - 255 bpm
Average Cadence
0 - 255 rpm

If a heart rate or cadence sensor is paired, a corresponding average (maximum) value is displayed on the lower display and the average (maximum) speed is displayed on the upper display.

* If the speed, cadence, or heart rate value flashes, the remaining battery power of the measuring sensor is low.



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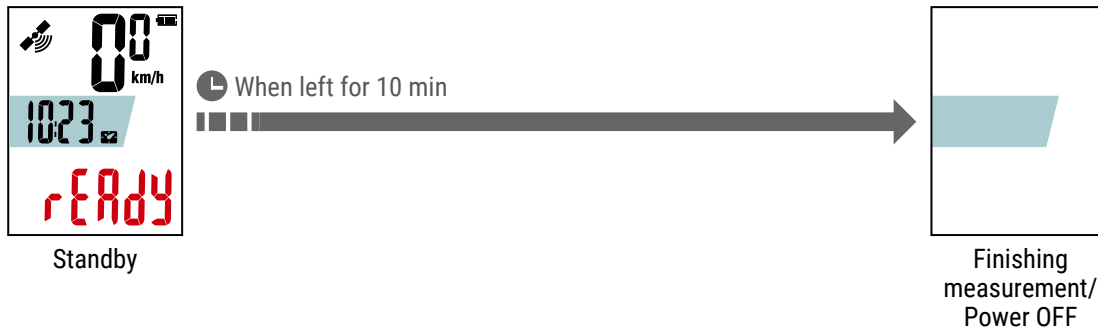
Power-saving mode

The Air GPS II enters power-saving mode if no speed is measured and no button is pressed for 10 minutes.

The power-saving mode functions according to the display previously displayed.

- **Standby (before start of measurement)**

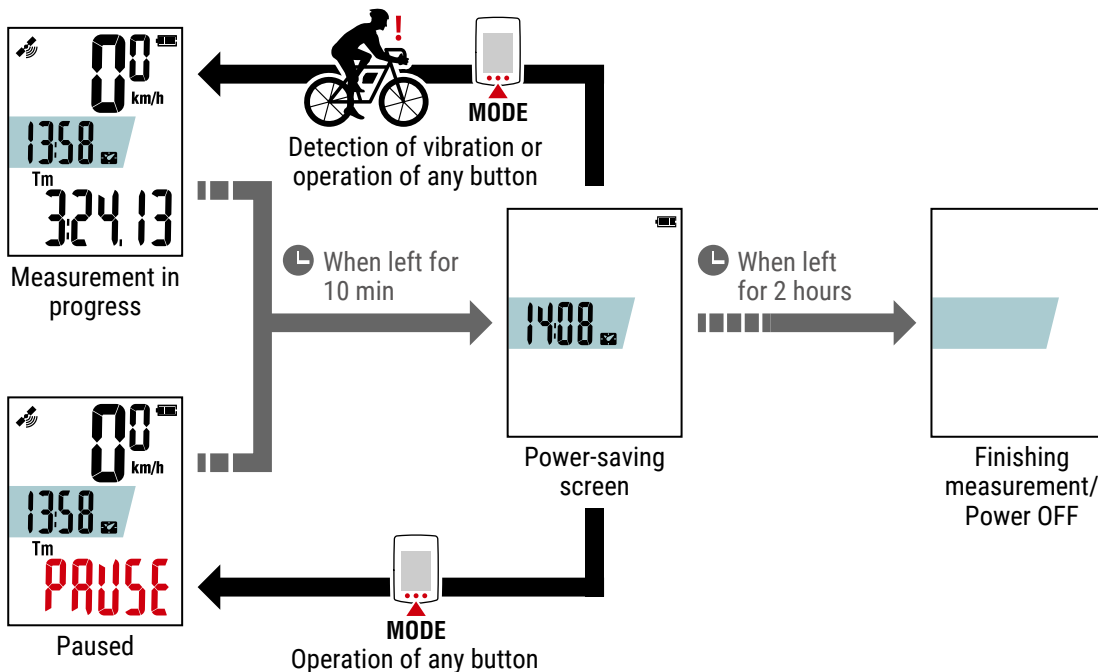
When the Air GPS II enters power-saving mode, it is automatically turned off.



* It will automatically power off in ten minutes if **MODE** or **POWER** is not pressed to start measurement.

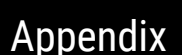
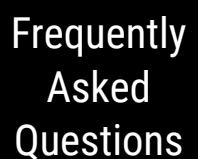
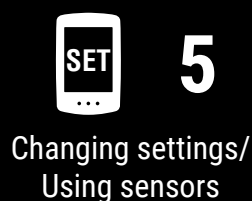
- **During measurement or when measurement is paused**

When the Air GPS II enters power-saving mode, it displays the power-saving screen. If this state continues for 2 hours, the Air GPS II is automatically turned off after finishing measurement and saving measurement results.



* GPS signals are not received in power-saving mode. The Air GPS II returns to the previous screen and resumes GPS search when any button is pressed.

* If the Air GPS II enters power-saving mode during measurement, it returns to the measurement screen with just detection of vibration and resumes GPS search.



Viewing measurement data

Importing measurement results to a smartphone

Trip data including trip routes can be viewed by importing from the Air GPS II to Cateye Cycling™.

* The Air GPS II cannot be connected to a smartphone during measurement.

Air GPS II

- 1 Press and hold  (POWER) to turn on the Air GPS II.



Smartphone

- 2 Launch Cateye Cycling™. Tap  (MENU) and then turn [Connect] on.

When the Air GPS II is connected to the smartphone, 0 rotates and the smartphone icon () flashes on the smartphone link screen.

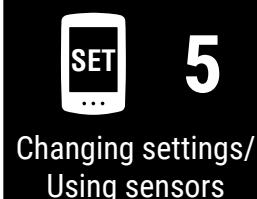
- 3 Tap [Device] > [Air GPS II] > .
Check trip data to import and tap  again.

Data import from the Air GPS II to Cateye Cycling™ starts.
When the import is complete, the activity list is displayed.

- * Do not turn [Connect] off during import.
- * Import continues even if Cateye Cycling™ is moved to the background.
- * It may take some time to load some trip data.
- * To delete trip data, check the data and tap  (Delete).
It is recommended to delete exported trip data from the Air GPS II to free up memory space.

- 4 After import is complete, turn [Connect] off.

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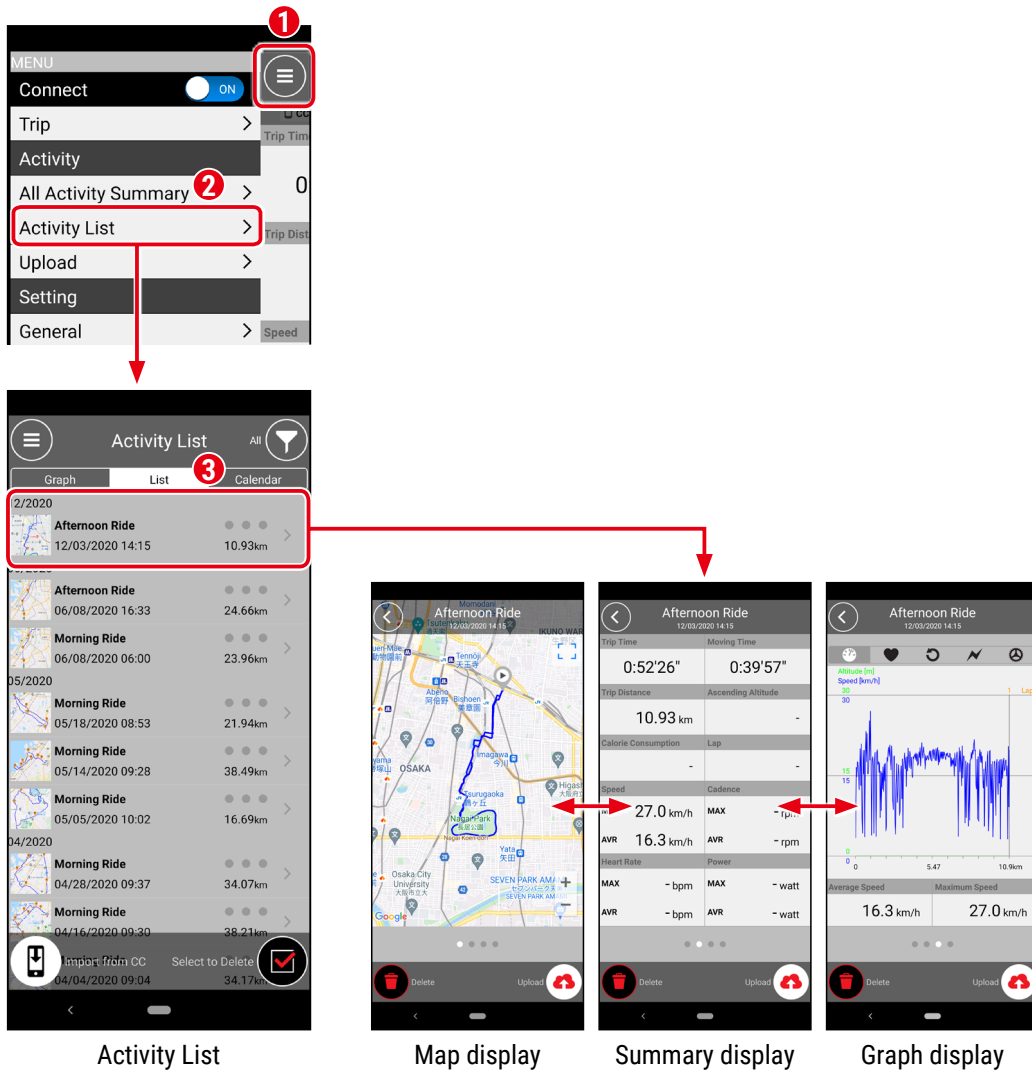
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Viewing imported measurement results

Imported trip data can be viewed on the activity screen.

Launch Cateye Cycling™ and tap [Activity List] in  (MENU).

Tap an activity to display numerical data. Activities can be displayed in map or graph format by swiping to the left or right.



* It is possible to upload trip data to a service site such as STRAVA™. To upload, you need to have an account of the service site and it needs to be set up on Cateye Cycling. For setting up the account, see [“Setting Cateye Cycling™” \(page 29\)](#).



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Use trip data (FIT files) on a PC

When the Air GPS II is connected to a PC using the supplied USB cable, the Air GPS II appears on the PC as a removable disk, making it possible to check trip data saved on the Air GPS II.

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Connect the Air GPS II to the PC using the supplied USB cable.

Saved trip data (FIT files) can be found by clicking [GPS100 N] > [ACTIVITY].

Details of trips, including trip routes, can be viewed by uploading trip data (FIT files) to service sites.

Deleting unnecessary FIT files is also allowed.

* Before disconnecting the USB cable, perform Safely Remove Hardware process for [GPS100 N] on a PC.

⚠ Caution!:

- Keep the rubber cover firmly in place to maintain waterproofness.
- When the Air GPS II is connected to a Mac, the [GPS100 N] icon may still be displayed on the screen even after the removal procedure. Regardless of the displayed [GPS100 N] icon, the USB cable can be disconnected after the removal procedure.

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Changing settings of the Air GPS II and sensors

Setting the Air GPS II

Setting changes need to be performed through Cateye Cycling™.

Changes made in the settings are applied to the Air GPS II when it is connected to the smartphone (Cateye Cycling™). However, the following options can be performed only while the Air GPS II is connected to the smartphone (Cateye Cycling™).

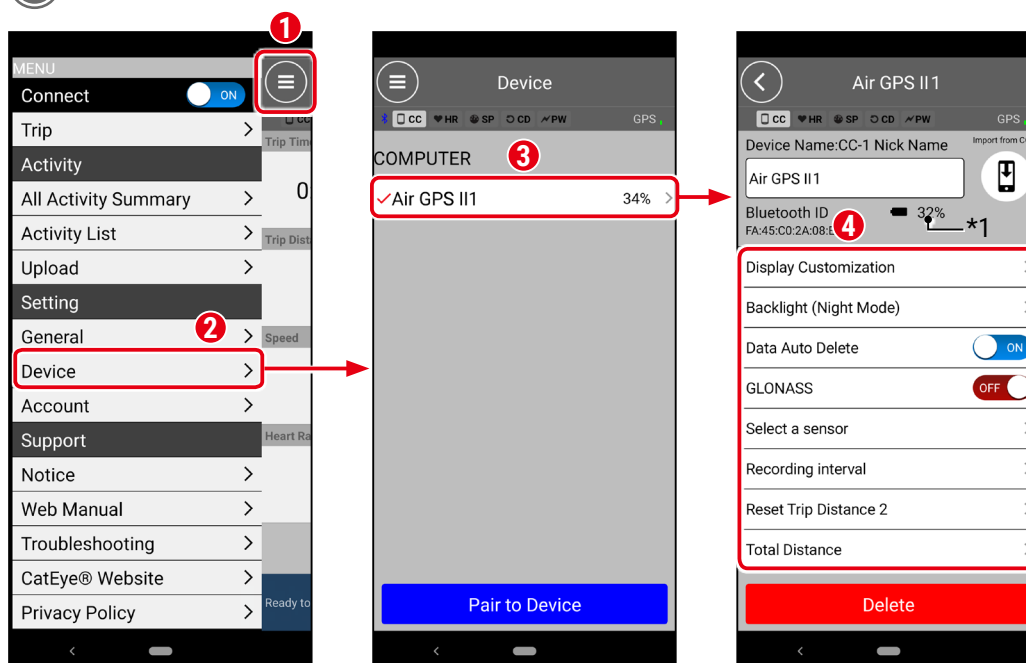
- Reset Trip Distance 2
- Edit the total distance
- Firmware update

* The Air GPS II cannot be connected to a smartphone during measurement. To connect the Air GPS II to the smartphone, put the Air GPS II in the standby mode (**READY** flashes) or pause the measurement (**PAUSE** flashes).

Smartphone

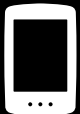
1 Launch Cateye Cycling™ and follow the steps below.

(MENU) > [Device] > [Air GPS II]



*1: The remaining battery power information of the Air GPS II displayed in Cateye Cycling™ is only for reference.

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Item	Description
Display Customization	Change what to display on the middle and lower displays of the measurement screen.
Backlight (Night Mode)	Configure when to start and end backlight illumination. When Night Mode is enabled, the backlight will be on for the time period selected. * When automatic display illumination is turned on, the time is automatically adjusted according to the sunset and sunrise times. * If automatic display illumination is turned off and the same time is entered in ON time and OFF time, the backlight will always be ON.
Data Auto Delete	When enabled, this function automatically deletes exported trip data from the Air GPS II.
GLONASS	Select whether to use the GLONASS positioning system in addition to GPS for acquiring position information. Using GLONASS will provide more accurate position information, but battery consumption will increase.
Select a sensor	Select a sensor to use when multiple sensors of the same type are paired with Cateye Cycling™. * When no sensor is paired, [Select a sensor] is not displayed. One sensor each for speed, cadence, and heart rate can be used with the Air GPS II. * Speed/cadence sensors are classified as speed sensors.
Recording Interval	Select the log interval for recording on the Air GPS II.
Reset Trip Distance 2	Reset the value of Trip Distance 2 to zero. * Selectable while a smartphone is connected to the Air GPS II.
Total Distance	Enter the total distance. * If a new value is entered, the total distance will be changed. * Selectable while a smartphone is connected to the Air GPS II. * In the case of the mileage setting, the entered value and the value displayed on the Air GPS II may differ slightly.
Firmware	Check the current firmware version and update the firmware to the latest version available. * Selectable while a smartphone is connected to the Air GPS II. * If firmware update is started during measurement, measurement will be terminated and saved. * Please do not press any button on the Air GPS II while updating the firmware.



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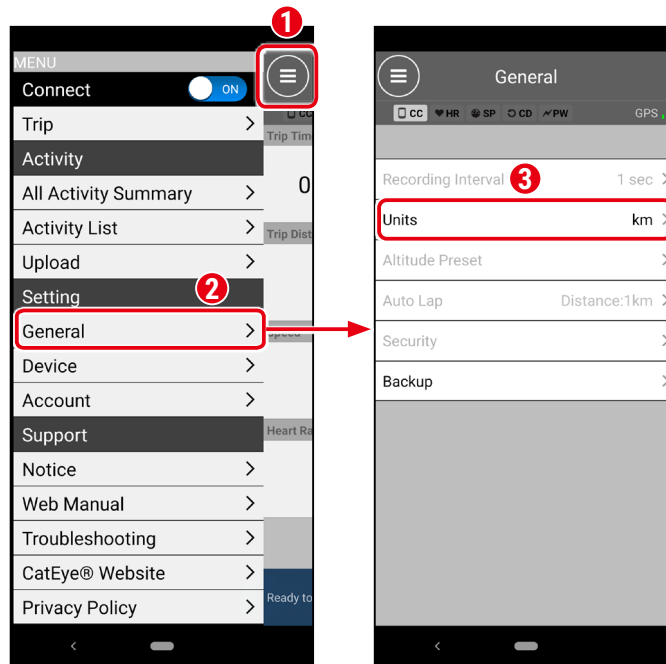
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 (MENU) > [General]



Item	Description
Units	Select the measurement unit.

* For setting CatEye Cycling™, see [“Setting CatEye Cycling™” \(page 29\)](#).

2 Complete setting.

Changes made in the settings without connecting to the Air GPS II will be applied when the smartphone is connected to the Air GPS II.

The Air GPS II returns to the measurement screen when [Connect] is turned off.

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Using sensors

Pairing sensors using Cateye Cycling™

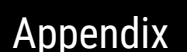
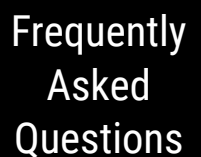
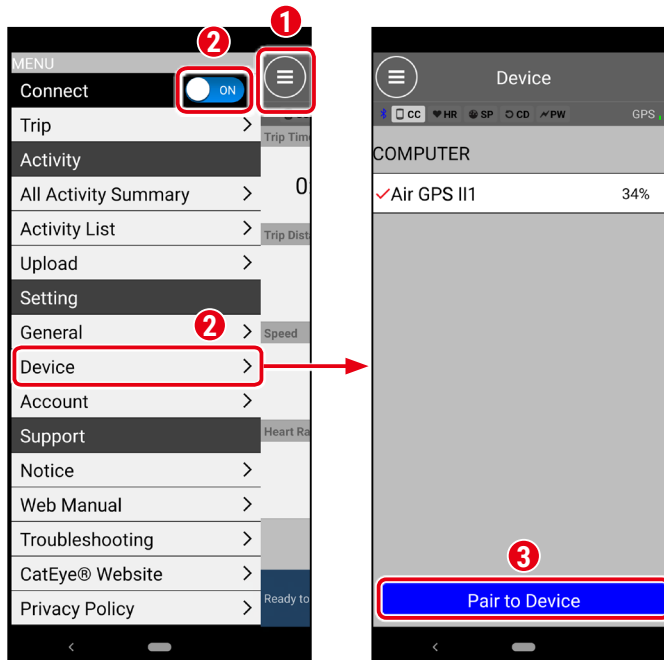
Pairing of the sensors and setting of tire circumference can be performed through a smartphone (Cateye Cycling™). After the sensors are paired, information will be transferred to the Air GPS II when Cateye Cycling™ is connected to the Air GPS II.

⚠ Caution!:

- Avoid pairing sensors at a race venue or in similar locations where there are a lot of other users. Doing so may result in pairing with another device.
- One sensor each for speed, cadence, and heart rate can be used with the Air GPS II. If multiple sensors of the same type are paired with Cateye Cycling™, select one sensor to be used with the Air GPS II. For details, see ["Setting the Air GPS II" \(page 18\)](#).

Smartphone

- 1 Launch Cateye Cycling™, tap  (MENU) and ensure that [Connect] is turned on, and then tap [Device] > [Pair to Device].



2 Send a sensor signal and perform pairing.

CATEYE sensor	How to send a sensor signal
Speed/cadence sensor (ISC-12)	Move the magnet through the sensor zone several times. (The clearance must be within 3 mm.)
Magnetless speed sensor (SPD-30) or magnetless cadence sensor (CDC-30)	Shake the sensor, or rotate the wheel or crank arm on which the sensor is installed.
Heart rate sensor (HR-12)	Rub both electrode pads of the heart rate sensor with your thumbs or attach them to your body.
Optical heart rate sensor (OHR-31)	Press the heart rate sensor button.

* For third party sensors, refer to their respective instruction manuals.

When Cateye Cycling™ detects a sensor signal, a message is displayed.
Tap [Pairing] to complete pairing.

* If the displayed sensor is not the one desired, tap [Skip], and then tap [Pair to Device] again. Repeat that until the desired device name is displayed.

* If you want to pair another sensor, repeat the procedure again.

3 Set the tire circumference for a sensor capable of speed measurement.

* For cadence and heart rate sensors, skip this step.

Tap [Sensor name] > [Tire Circumference] displayed under [Device], and then tap and hold the tire circumference value to select, according to the tire size written on the side of the tire.

* For tire circumference values, see [“Tire circumference table” \(page 28\)](#).

Air GPS II

4 Press and hold (POWER) to turn on the Air GPS II.

The Air GPS II connects to the smartphone (Cateye Cycling™).

Paired sensor information will be transferred to the Air GPS II and the sensors will be ready to use.



(Long press)

Smartphone

5 After setup is completed, turn [Connect] off on Cateye Cycling.



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How to pair sensors directly with the Air GPS II unit

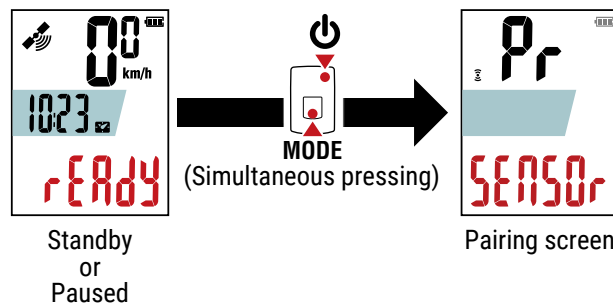
Pairing a sensor can also be performed without a smartphone (Cateye Cycling™), using just the Air GPS II.

⚠ Caution!:

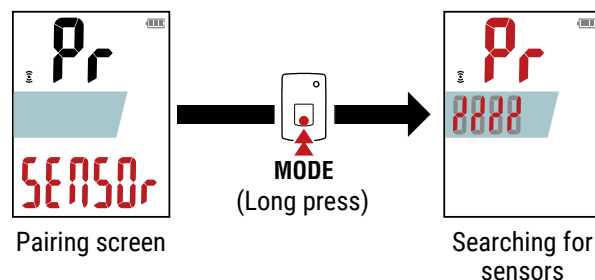
- Ensure that [Connect] on Cateye Cycling™ is off before starting pairing.
- Avoid pairing sensors at a race venue or in similar locations where there are a lot of other users. Doing so may cause the Air GPS II to be paired with another sensor.
- Pairing with another sensor of the same type will overwrite the paired sensor information.

* For changing the tire circumference value using just the Air GPS II unit, see [“How to change the tire circumference on the Air GPS II unit” \(page 26\)](#).

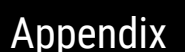
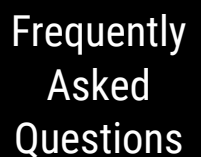
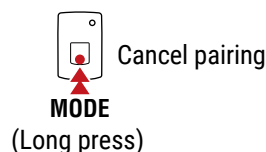
- 1 Turn on the Air GPS II and press  (POWER) and **MODE** simultaneously to switch to the pairing screen.



- 2 Pressing and holding **MODE** starts sensor search.

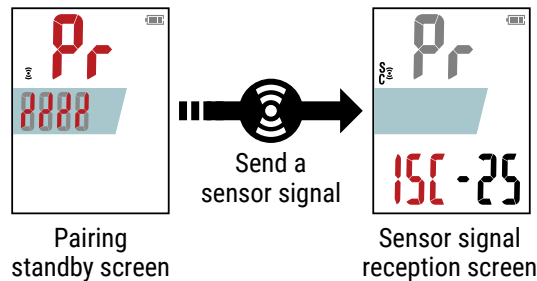


* To stop sensor search, press and hold **MODE** again.
The screen returns to the pairing screen.

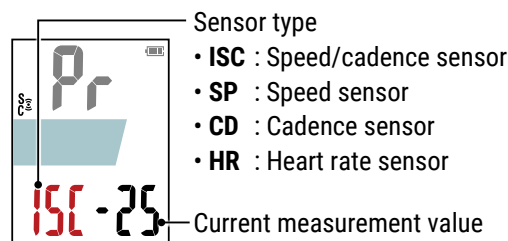


3 Send a signal from the sensor that you want to pair.

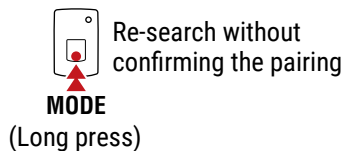
* For sending a signal from CATEYE sensors, refer to the [sensor's online manual](#) (on our website). For third party sensors, refer to their respective instruction manuals.



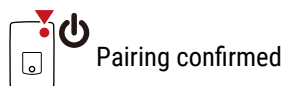
When the Air GPS II receives a signal from a sensor, it displays the sensor type and current measurement values.



* If the displayed sensor is not the one desired, press and hold **MODE**.
The Air GPS II starts sensor search again without confirming the pairing.

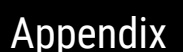
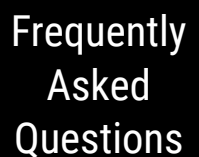


4 When the desired sensor is displayed, press (POWER) to confirm the pairing.

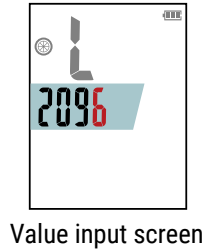


After confirming the pairing, follow the procedure below according to the paired sensor.

Sensor type	Screen to proceed
ISC or SP	Proceed to the tire circumference input screen (step 5).
CD or HR	Proceed to the pairing screen. * To pair another sensor, repeat the procedure from step 2. * To finish sensor pairing, proceed to step 6.



- 5 Enter the tire circumference (the length of the outer circumference of the tire) in mm for the tire on which the sensor is installed.



Value input screen



Increase value



Move digit
(Long press)



Confirm

- * For tire circumference values, see [“Tire circumference table” \(page 28\)](#).
- * Setting range : 0100 – 3999 mm
- * Initial value : 2096 mm (700 × 23C)
- * To pair another sensor, repeat the procedure from step 2.
Press **MODE** to return to the pairing screen.

- 6 Press the  (POWER) button to return to the measurement screen.



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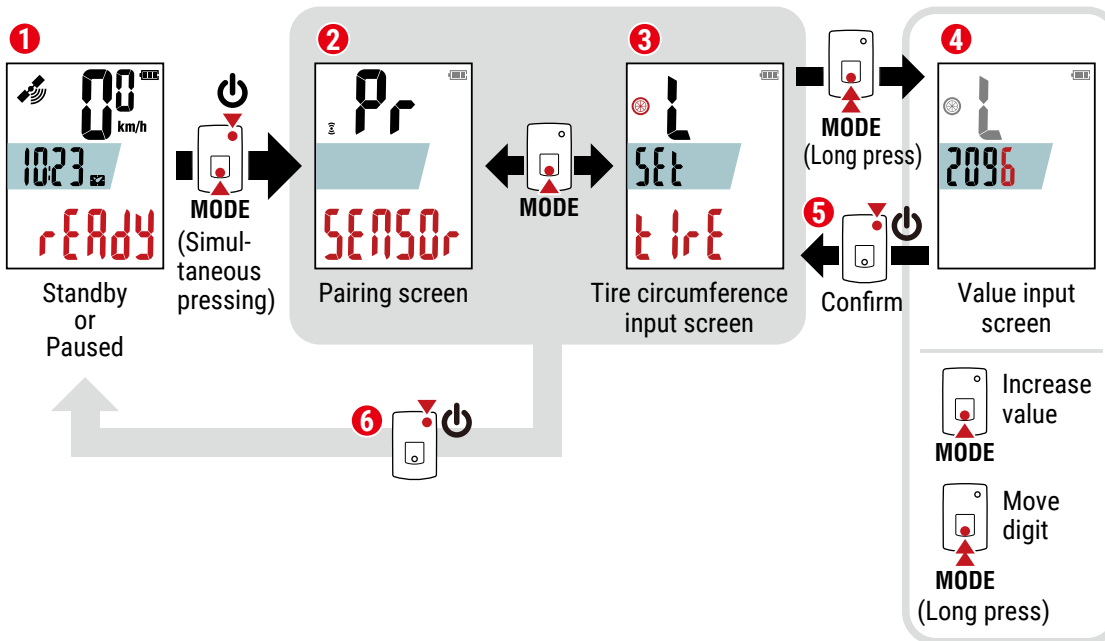
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How to change the tire circumference on the Air GPS II unit

This procedure changes the tire circumference of a sensor capable of measuring speed that has been paired with the Air GPS II unit.

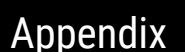
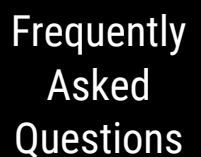
- 1 Turn on the Air GPS II and follow the procedure below to change the tire circumference on the value input screen 4.



* For tire circumference values, see [“Tire circumference table” \(page 28\)](#).

* Setting range : 0100 – 3999 mm

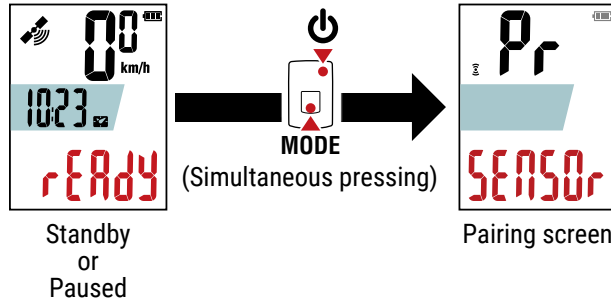
- 2 Press the (POWER) button to return 6 to the measurement screen.



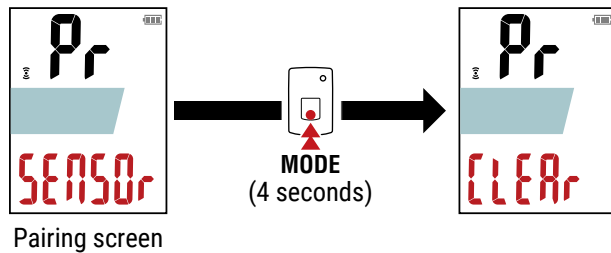
How to delete the sensors paired with the Air GPS II unit

This procedure deletes the information of all sensors paired with the Air GPS II unit.

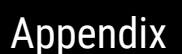
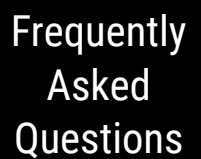
- 1 Turn on the Air GPS II and press  (POWER) and **MODE** simultaneously to switch to the pairing screen.



- 2 To delete all sensor information, press and hold **MODE** for 4 seconds on the pairing screen.



- 3 Press the  (POWER) button to return to the measurement screen.



Tire circumference table

Tire circumference can be determined by either of the following two methods.

- **Use the tire circumference reference table.**

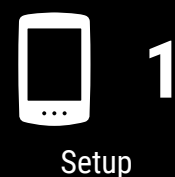
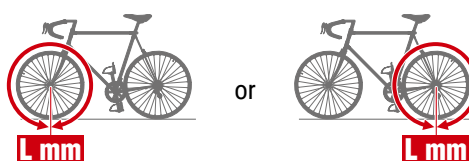
* The tire size or ETRTO code is indicated on the side of the tire.

ETRTO	Tire size	L (mm)
47-203	12x1.75	935
54-203	12x1.95	940
40-254	14x1.50	1020
47-254	14x1.75	1055
40-305	16x1.50	1185
47-305	16x1.75	1195
54-305	16x2.00	1245
28-349	16x1-1/8	1290
37-349	16x1-3/8	1300
32-369	17x1-1/4 (369)	1340
40-355	18x1.50	1340
47-355	18x1.75	1350
32-406	20x1.25	1450
35-406	20x1.35	1460
40-406	20x1.50	1490
47-406	20x1.75	1515
50-406	20x1.95	1565
28-451	20x1-1/8	1545
37-451	20x1-3/8	1615
37-501	22x1-3/8	1770
40-501	22x1-1/2	1785
47-507	24x1.75	1890
50-507	24x2.00	1925
54-507	24x2.125	1965
25-520	24x1(520)	1753
	24x3/4 Tubular	1785
28-540	24x1-1/8	1795
32-540	24x1-1/4	1905
25-559	26x1(559)	1913
32-559	26x1.25	1950
37-559	26x1.40	2005
40-559	26x1.50	2010
47-559	26x1.75	2023
50-559	26x1.95	2050
54-559	26x2.10	2068
57-559	26x2.125	2070
58-559	26x2.35	2083

ETRTO	Tire size	L (mm)
75-559	26x3.00	2170
28-590	26x1-1/8	1970
37-590	26x1-3/8	2068
37-584	26x1-1/2	2100
	650C Tubular 26x7/8	1920
20-571	650x20C	1938
23-571	650x23C	1944
25-571	650x25C 26x1(571)	1952
40-590	650x38A	2125
40-584	650x38B	2105
25-630	27x1(630)	2145
28-630	27x1-1/8	2155
32-630	27x1-1/4	2161
37-630	27x1-3/8	2169
40-584	27.5x1.50	2079
50-584	27.5x1.95	2090
54-584	27.5x2.1	2148
57-584	27.5x2.25	2182
18-622	700x18C	2070
19-622	700x19C	2080
20-622	700x20C	2086
23-622	700x23C	2096
25-622	700x25C	2105
28-622	700x28C	2136
30-622	700x30C	2146
32-622	700x32C	2155
	700C Tubular	2130
35-622	700x35C	2168
38-622	700x38C	2180
40-622	700x40C	2200
42-622	700x42C	2224
44-622	700x44C	2235
45-622	700x45C	2242
47-622	700x47C	2268
54-622	29x2.1	2288
56-622	29x2.2	2298
60-622	29x2.3	2326

- **Measure the actual tire circumference (L).**

After ensuring that the tire pressure is appropriate, sit on your bike, roll it forward so that the tire makes one full revolution (use the valve or other marking as a reference), and measure the distance traveled on the road.



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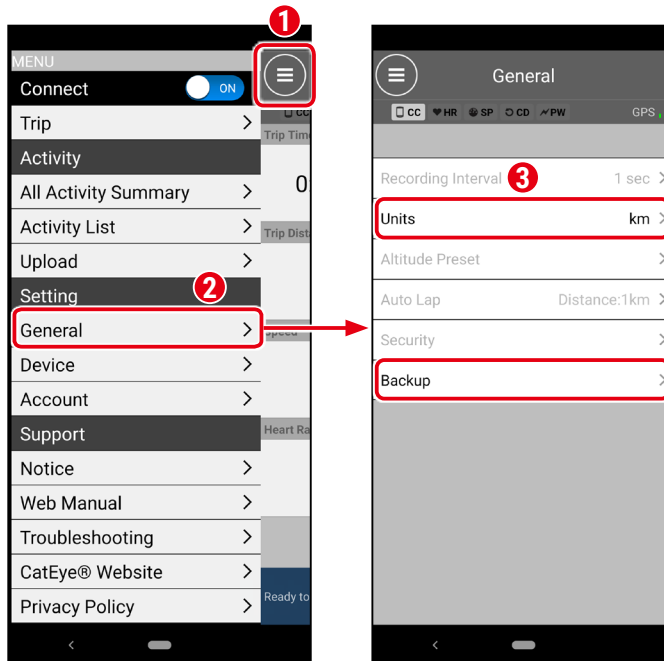
Appendix

Setting Cateye Cycling™

Smartphone

Launch Cateye Cycling™ and follow the steps below.

 (MENU) > [General]



Item	Description
Units	Select the measurement unit.
Backup	Creates a backup of the activity list. Creating a backup allows you to import your activity list when reinstalling Cateye Cycling™ or when changing smartphone models. * Backing up your activities regularly is recommended to prevent data loss. For details, see “Creating a backup” (page 39).



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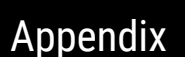
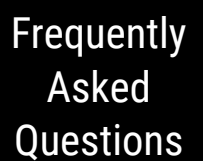
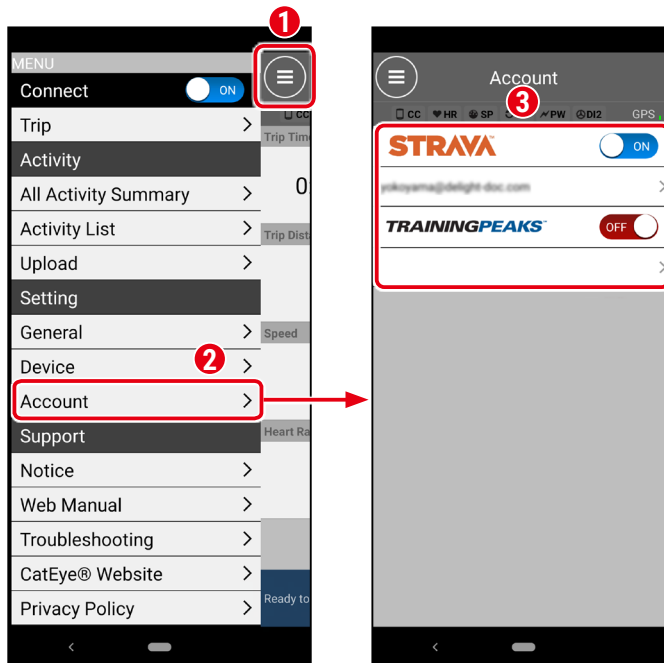
(MENU) > [Account]

To upload imported trip data to service sites, account for each site needs to be set up.

Create your account on each site in advance.

Uploading sites

- STRAVA™
* When setting up the account, do not use [Log in using Google]. Instead, log in directly by entering your email address.
- TRAINING PEAKS™



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- [“Charging problem” \(page 31\)](#)
- [“Measurement problem” \(page 31\)](#)
- [“Display problem” \(page 33\)](#)
- [“Sensor problem” \(page 34\)](#)
- [“Trip data problem” \(page 36\)](#)
- [“Smartphone \(Cateye Cycling™\) connection problem” \(page 37\)](#)
- [“Firmware update problem” \(page 39\)](#)
- [“Creating a backup of activities and restoring data” \(page 39\)](#)

Charging problem

The battery won't charge

- Is the battery icon displayed on the screen?
Disconnect and reconnect the USB cable repeatedly until this icon is displayed.

Measurement problem

No GPS signal is received (📶 flashes)

- Was the power just turned on?
It may take time after turning on the Air GPS II for a GPS signal to be acquired. (Approximately 1 to 2 minutes in an outdoor location with few obstacles.)
It may also take longer if a trip starts before the GPS signal is received, if the unit has not been used for a long time, or if the unit is located far away from the last location in which it was used.
- Is the location or weather appropriate for acquiring a GPS signal?
A GPS signal may not be available in the following locations and situations, resulting in measurement being interrupted or prevent proper measurements from being acquired.
 - In a tunnel, underground, in a building, between high-rise buildings, under elevated roads, in an arcade, etc.
 - Bad weather (snow, rain, etc.)
 - Near high-voltage power lines or cellular relay stations
 - When moving before a GPS signal is acquired
 - When using after a prolonged period of disuse or at a location far away from the last location the device was used
- Is the Air GPS II mounted almost horizontally?
If the Air GPS II is mounted on handlebars, adjust the angle of the bracket to mount the Air GPS II horizontally.

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Measurement won't start

- Is **[READY]** flashing on the measurement screen?

Press **MODE** or  (POWER) to start measurement.

- Is **[PAUSE]** flashing on the measurement screen?

Press and hold **MODE** to resume measurement.

- Is the Air GPS II connected to the smartphone (Cateye Cycling™)?

The Air GPS II will not show the measurement screen when it is connected to the smartphone (Cateye Cycling™).

Turn [Connect] off in Cateye Cycling™.



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The current speed becomes zero or measurement data values are strange during measurement (when measured by the GPS)

Depending on reception conditions of the GPS signal, measurement may be interrupted or a value inconsistent with actual one may be shown.

For more details, see ["No GPS signal is received"](#).

The Air GPS II turns off during measurement

- Has the Air GPS II been left for 2 hours or more during measurement?

If the Air GPS II is left for 2 hours with no signal or operation, it automatically turns off after finishing measurement and saving measurement results.

- Has the battery run out of charge during measurement?

Follow the procedure under ["Charging the Air GPS II" \(page 3\)](#) to charge the Air GPS II.

Power-saving screen is displayed during measurement

When no speed information is received for more than 10 minutes, the power-saving screen is displayed.

* If a speed/cadence sensor is used, the wheel magnet may be misaligned.

Ensure that the wheel magnet is in the correct position relative to the speed-side sensor zone.

For more details on mounting CATEYE sensors, refer to the [sensor's online manual](#) (on our website).

Display problem

Screen is blank

- Nothing is displayed when  (POWER) is held down.
- When the power is turned on, **[READY]** flashes and then goes blank.

The Air GPS II has run out of battery power.

Follow the procedure under [“Charging the Air GPS II” \(page 3\)](#) to charge the Air GPS II.

Screen is frozen

Open the rubber cover on the Air GPS II and press the **AC** button to format the Air GPS II. After formatting the Air GPS II, the settings will be restored when it is next connected to a smartphone (Cateye Cycling™).

⚠ Caution!:

- Formatting will restore the Air GPS II to factory default settings, deleting trip data. To save the trip data, connect the Air GPS II to a PC and copy trip data (FIT files) to the PC before formatting. (The firmware version will be retained.)
- Keep the rubber cover firmly in place to maintain waterproofness.

The Air GPS II keeps showing smartphone link screen and won't accept button operation.

- Is the Air GPS II connected to the smartphone (Cateye Cycling™)?

The Air GPS II will not show the measurement screen when it is connected to the smartphone (Cateye Cycling™).

Turn [Connect] off in Cateye Cycling™.

Backlight does not come on

- Is the time set for Night Mode correct?

The Air GPS II determines when to turn on and off the backlight using the on/off setting of Night Mode.

For details, see [“Setting the Air GPS II” \(page 18\)](#).

* When automatic display illumination is enabled, the time is automatically adjusted according to the sunset and sunrise times.



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Sensor problem**The sensor signal icon does not turn on
(when at least one of speed, cadence, or heart rate sensors is used)**

- Are the sensors paired?

Pairing must be performed in order to use a sensor.
For details, see [“Using sensors” \(page 21\)](#).

- Is the sensor battery flat?

Replace the battery with a new one.

* If you are using a CATEYE sensor, the associated measurement value will flash when it is time to replace the sensor's battery.

For more details on replacing CATEYE sensor batteries, refer to the [sensor's online manual](#) (on our website).

- Is the sensor properly mounted in the correct position?

Read the sensor's instruction manual and attach the sensor correctly.

* If a magnet sensor is used, ensure that the sensor is mounted in the correct position relative to the magnet.

* For more details on mounting CATEYE sensors, refer to the [sensor's online manual](#) (on our website).

- Are you using a smartphone app which connects to a sensor?

The sensor may have connected to that smartphone app.
Bluetooth® sensors are only able to connect with a single device at a time. Stop using such apps (including Cateye Cycling™) simultaneously or change the app settings to prevent connection to a Bluetooth® sensor.

**Current speed remains at 0 even after starting measurement
(when a sensor capable of speed measurement is connected)**

Read the sensor's instruction manual and attach the sensor correctly.

* If a magnet sensor is used, ensure that the sensor is mounted in the correct position relative to the magnet.

* For more details on mounting CATEYE sensors, refer to the [sensor's online manual](#) (on our website).

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Measurements from connected sensors are not displayed on the measurement screen

- [-] is displayed instead of the measurement.

Press the **RESET** button if an ISC-12 or HR-12 sensor is connected.

- Speed, cadence, or heart rate measurement value is flashing.

The sensor's remaining battery power is low. Replace the battery with a new one.

* For more details on replacing CATEYE sensor batteries, refer to the [sensor's online manual](#) (on our website).

- Is the correct sensor selected in Cateye Cycling™?

Select one sensor to use if multiple sensors of the same type are paired with Cateye Cycling™.

For details, see "[Setting the Air GPS II](#)" (page 18).

Heart rate measurement is unstable and alternates between 0 and a value (when a heart rate sensor is connected)

- Is the heart rate sensor attached correctly?

Refer to the heart rate sensor instruction manual and attach the heart rate sensor in the correct position.

* For more details on CATEYE sensors, refer to the [sensor's online manual](#) (on our website).

Measurement is displayed even after removing the sensor (when third party sensors are connected)

When using a third party sensor, measurements may remain displayed for a long time.



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Trip data problem

Trip data is not being saved in the Air GPS II

Measurements for trip distances of 0.1 km or less are not saved as trip data.

No past trip data could be found

- Has the maximum recording time of the Air GPS II been exceeded?

The maximum recording time for trip data is approx. 80 hours in total. If this total is exceeded, the oldest trip data will be deleted to make room for new measurements. Import the necessary trip data to Cateye Cycling™ or copy the data to a PC. It is also recommended to delete unnecessary trip data to free up memory space.

How do I delete trip data saved in the Air GPS II?

- Delete on a smartphone (Cateye Cycling™)

Connect the Air GPS II to the smartphone (Cateye Cycling™) to view a list of the trip data saved in the Air GPS II. Delete unnecessary trips from this list.

For details, see ["Importing measurement results to a smartphone" \(page 15\)](#).

- Delete trip data (FIT files) on a PC

Connect the Air GPS II to a PC using the supplied USB cable and delete trip data saved in the Air GPS II.

For details, see ["Use trip data \(FIT files\) on a PC" \(page 17\)](#).

Cannot upload trip data from the smartphone (Cateye Cycling™)

- Have you configured the login settings for each service site?

From the Cateye Cycling™ menu, tap [Account] and configure the login settings by entering the account information for each site.

* You need to have an account of the service site to upload data.



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Smartphone (Cateye Cycling™) connection problem**The Air GPS II won't connect to a smartphone (Cateye Cycling™)**

Try the following solutions in order, starting from the top.

- (1) Under [Settings] on the smartphone, turn [Bluetooth] off and then back on.
Check if the Air GPS II can be connected.
- (2) Restart Cateye Cycling™.
Check if the Air GPS II can be connected.
- (3) If this does not resolve the issue, restart the smartphone.

Connection to smartphone cannot be established after updating Air GPS II firmware

Try the following solutions in order, starting from the top.

- (1) Under [Settings] on the smartphone, turn [Bluetooth] off and then back on.
Check if the Air GPS II can be connected.
- (2) Restart Cateye Cycling™.
Check if the Air GPS II can be connected.
- (3) Restart the smartphone.
Check if the Air GPS II can be connected.
- (4) If the problem persists, unpair the Air GPS II on the [Device] screen in Cateye Cycling™, and then pair the Air GPS II again.

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Cannot pair the Air GPS II

- Has the Air GPS II been paired with another smartphone?

Open the rubber cover on the Air GPS II and press the **AC** button to format the Air GPS II. After formatting, try pairing again.

⚠ Caution!:

- Formatting will restore the Air GPS II to factory default settings, deleting trip data. To save the trip data, connect the Air GPS II to a PC and copy trip data (FIT files) to the PC before formatting. (The firmware version will be retained.)
- Keep the rubber cover firmly in place to maintain waterproofness.

- Have you tried reinstalling the Cateye Cycling™ app?

- **With backup**

Tap  (MENU) > [General] > [Backup], and then tap [Restore].
Check if the Air GPS II can be paired.

- **With no backup**

Copy trip data (FIT files) saved in the Air GPS II to a PC before formatting the Air GPS II.
Check if the Air GPS II can be paired.

- Has the smartphone being used changed?

- **With backup**

Tap  (MENU) > [General] > [Backup], and then tap [Restore].
Check if the Air GPS II can be paired.

- **With no backup**

Copy trip data (FIT files) saved in the Air GPS II to a PC before formatting the Air GPS II.
Check if the Air GPS II can be paired.



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Firmware update problem

Updating is not possible because the smartphone (Cateye Cycling™) was disconnected while transferring the firmware.

⚠ Caution!:

Complete the following preparations before updating the firmware. Updating the firmware will not be possible if the following conditions are not met.

- Charge the Air GPS II if the remaining battery power is low.
- Connect the Air GPS II to a smartphone (Cateye Cycling™) with Internet connectivity.

Tap [Update Firmware] to perform the update again.

If the problem persists, restart the smartphone, and then tap [Update Firmware] to perform the update again.



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Creating a backup of activities and restoring data

Creating a backup

Creating a backup allows you to import your activity data when reinstalling Cateye Cycling™ or when changing smartphone models.

In Cateye Cycling™, tap  (MENU) > [General] > [Backup], and then tap [Backup].

A backup will be created in Google Drive.

After the backup finishes, check the backup date to confirm the backup was successful.



See the following when reinstalling Cateye Cycling™ or when changing smartphone models.

"When Cateye Cycling™ is reinstalled" (page 40)

"Changing smartphone models" (page 41)

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When Cateye Cycling™ is reinstalled

“Creating a backup” (page 39)



When Cateye Cycling™ is reinstalled, restore trip data following the procedures below.

- (1) Delete Cateye Cycling™ app, and reinstall it.
- (2) Launch Cateye Cycling™, tap  (MENU) > [General] > [Backup], and then tap [Restore].
The backed up activity data will be restored to Cateye Cycling™.
- (3) Pair the Air GPS II with the smartphone.
Pair the Air GPS II with the smartphone (Cateye Cycling™) and configure the Air GPS II settings.
* The information of sensors that have not been paired with the Air GPS II will not be transferred. Pair the Air GPS II with the sensors to use.

This concludes the reinstallation of Cateye Cycling™.



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Changing smartphone models

"Creating a backup" (page 39)



Follow the steps below to transfer Cateye Cycling™ data to a new smartphone.

- Data cannot be transferred to a different smartphone OS, such as when changing from an Android smartphone to an iPhone.
- Before changing smartphone models, import trip data saved in the Air GPS II to the smartphone (Cateye Cycling™) currently in use and create a backup of Cateye Cycling™ or copy trip data (FIT files) to a PC.

(1) Install Cateye Cycling™ on the new smartphone.

* For the latest information on the smartphones recommended for use with Cateye Cycling™ see "[Cateye Cycling™ Recommended Devices](#)".

(2) Launch Cateye Cycling™, tap  (MENU) > [General] > [Backup], and then tap [Restore].

The backed up activity data will be restored to Cateye Cycling™.

(3) Follow the instructions under "[Setup](#)" (page 4) to format the Air GPS II and perform pairing.

* The information of sensors that have not been paired with the Air GPS II will not be transferred. Pair the Air GPS II with the sensors to use.

Transfer of the Cateye Cycling™ app is now complete.

Cateye Cycling™ and the Air GPS II can be used as usual with the new smartphone.



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Warning (Risk of death; Prevention of accidents)

- Operating the Air GPS II while riding is dangerous. Do not concentrate on the screen while riding. Always ride safely.
- Mount the bracket securely, and check it periodically to ensure that it is not loose.
- Never disassemble or modify the Air GPS II or any of the included items. Doing so may be subject to punishment as the Air GPS II is equipped with radio equipment certified according to the Radio Law of Japan.

Caution (Prevention of injury, damage, or property damage)

- Keep the Air GPS II out of the reach of children.
- When used with a light, attach the light as far away from the Air GPS II as possible, as it may affect measurement.
- This device is rated IPX7 based on JIS C0920. However, do not operate the Air GPS II underwater. Doing so may cause a malfunction.
- Do not subject the device to strong vibrations, impacts, or excessive force. Discontinue use if any abnormality occurs.
- Do not charge or use the battery at any voltage or polarity other than that specified. Do not short-circuit the battery.
- Do not leave the Air GPS II in direct sunlight for a long period of time.
- Do not drop the device into a fire or heat the device.
- If the Air GPS II unit or parts become dirty with mud, etc., clean with a soft cloth which is moistened with mild detergent, and then wipe with a dry cloth. Never apply paint thinner, benzene, or alcohol. Doing so may damage the device.

Handling the rechargeable battery

Recharge the battery for first time use or after long period of storage:

The voltage of the battery may drop due to self-discharge during long period of storage.

- Always fully charge the battery before use.
- If the device will not be used for a long period of time, store it in a location that is not too hot or too humid.
- Charge the battery for about 30 minutes every 6 months.

Cautions for charging and usage:

- Please be sure that no dust or other foreign objects are adhered to the plug of the USB cable before charging.
- Do not subject the device to vibrations while charging.
- When your PC is in the sleep state, the battery cannot be charged.
- Once charging is complete, be sure to disconnect the USB cable and securely attach

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the rubber cover.

- The standard charging time and continuous operating time are approximate and will vary according to environmental and usage conditions.
- Charging, discharging, and storing in high temperatures will cause the rechargeable battery to deteriorate faster. Do not place the Air GPS II inside a vehicle or near a heater. Make sure to charge only when the ambient temperature is between 50°F and 104°F (10°C and 40°C).
- If the operating time is significantly reduced even after proper charging, the rechargeable battery may be nearing the end of its service life.

Cautions for dispose:

Dispose of used batteries appropriately according to local regulations.



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Magnetless cadence sensor (CDC-30)

Warning (Risk of death; Prevention of accidents)

- If a battery is swallowed accidentally, consult a doctor immediately.
- Check periodically to ensure that the unit is attached securely.
Do not use a damaged rubber band.



Caution (Prevention of injury, damage, or property damage)

- Risk of explosion if battery is replaced by an incorrect type.
Dispose of used batteries according to local regulations.

Bluetooth®

Interference may occur in the following places and/or environments, resulting in an incorrect measurement.

- Near a TV, PC, radio, or motor, or in a car or train.
- Close to a railroad crossing, railway tracks, TV transmitter station, or radar station.
- When used together with other wireless devices (including other Bluetooth products) or some particular lights.

GPS

GPS (Global Positioning System) is a system for receiving highly accurate position information from satellites in order to check the current position on the earth.

GPS signal reception

- It may take a few minutes after turning on the Air GPS II for a GPS signal to be acquired.
- Movement is not recommended while the Air GPS II is searching for a GPS signal. Wait until a signal is received before riding. Moving while the Air GPS II searches for a GPS signal may result in more time being required to receive a GPS signal.
- GPS signal reception is best under open sky with good visibility of the satellite.

Locations where GPS signals cannot be received

A GPS signal may not be available in the following locations and situations, resulting in measurement being interrupted and prevent proper measurements from being acquired.

- In a tunnel, underground, in a building, between high-rise buildings, under elevated roads, in an arcade, etc.
- In bad weather (snow, rain, etc.)
- Near high-voltage power lines or cellular relay stations
- With the Air GPS II screen not facing toward the sky

* Calculating speed using a GPS signal may provide measurement results that vary slightly from the actual values.

Use with smartphone

The Cateye Cycling™ smartphone app can be used to change Air GPS II settings, view or delete trip data saved on the Air GPS II, and import trip data from the Air GPS II.

* Downloading and using the application incurs communication fees. A Wi-Fi connection is recommended.



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Specifications

Battery	Rechargeable lithium-ion battery
Charging and communication with PC	USB cable (Micro USB)
Standard charging time	Approx. 3 hours (300 mA)
Continuous operating time	Approx. 16 hours (on a full charge) * This is a reference value for measurement with the backlight unlit, GLONASS unused, and sensors connected.
Number of recharges/ discharges	300 standard charges (until rated capacity is reduced to 70%)
Controller	Microcomputer (Crystal controlled oscillator)
Display	Liquid crystal display (with backlight)
Detection method of current speed, cadence, and heart rate	Depends on the connected Bluetooth sensors * Current speed can also be measured via GPS.
Signal transmission	Bluetooth
Transmission distance	Approx. 20 m (The range will vary depending on weather and surroundings.)
Tire circumference range	0100 mm – 3999 mm (Initial value : 2096 mm)
Operating temperature range	32°F – 104°F (0°C – 40°C)
Waterproof	IPX7 * This device is rated IPX7 based on JIS C0920.
Dimensions/weight	1-11/16" x 2-43/64" x 53/64" (43 x 68 x 21 mm) / 1.43 oz (40.5 g)

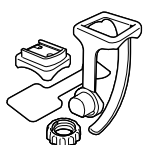
* This product is developed assuming use by bicycle.

* Specifications and design are subject to change without notice.

Standard accessories

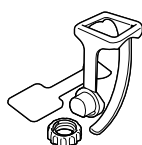
1602194

Bracket kit



1600280N

Bracket band



1602193

Bracket
(for FlexTight™)



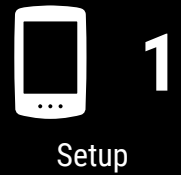
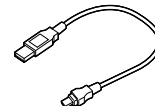
5343520

Bracket dial



5342730

USB cable
(Micro USB)



Setup



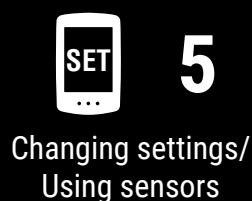
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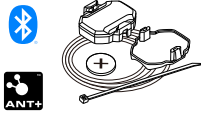
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Optional accessories

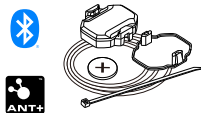
1604520

Magnetless
speed sensor
(SPD-30)



1604530

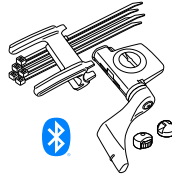
Magnetless
cadence sensor
(CDC-30)



* Standard accessory for the
Air GPS II+CDC-30 set

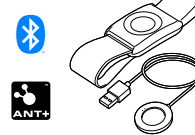
1603970

Speed/cadence sensor
(ISC-12)



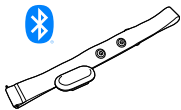
1604540

Optical heart rate
sensor
(OHR-31)



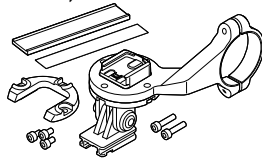
1603980

Heart rate sensor
(HR-12)



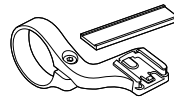
1604110

Out-front bracket 2
(OF-200)



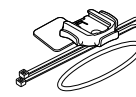
1604100

Out-front bracket
(OF-100)



1603892

Slim bracket kit



Limited warranty

2-year guarantee : • Air GPS II unit

• Sensor included in the package

(Accessories and battery consumption excluded)

CatEye cycle computers are warranted to be free of defects from materials and workmanship for a period of two years from original purchase. If the product fails to work due to normal use, CatEye will repair or replace the defect at no charge. Service must be performed by CatEye or an authorized retailer. To return the product, pack it carefully and enclose the warranty certificate (proof of purchase) with instruction for repair.

Please write or type your name and address clearly on the warranty certificate. Insurance, handling and transportation charges to CatEye shall be borne by person desiring service.

For UK and REPUBLIC OF IRELAND consumers, please return to the place of purchase.

This does not affect your statutory rights.

CAT EYE CO., LTD.

2-8-25, KUWAZU, HIGASHI SUMIYOSHI-KU, OSAKA, JAPAN 546-0041

For inquiries, please visit <https://cateye.com/intl/contact>

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