

CATEYE Air GPS II

Cateye Cycling[™] iOS 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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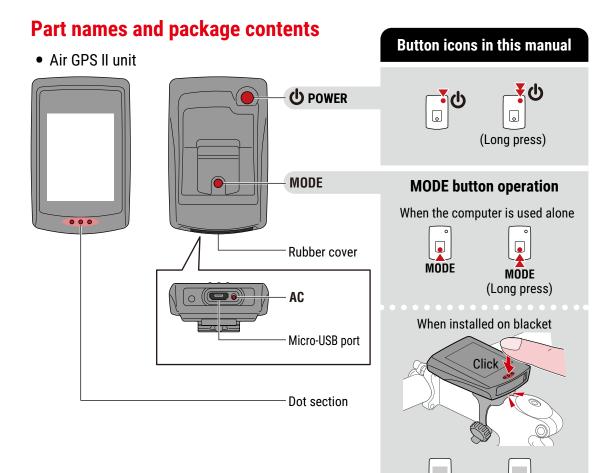
The Air GPS II is a cyclocomputer equipped with a built-in GPS.

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 $^{\scriptscriptstyle\rm M}$) 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 <u>sensor's online manual</u> (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 <u>"Starting</u> measurement" (page 9).



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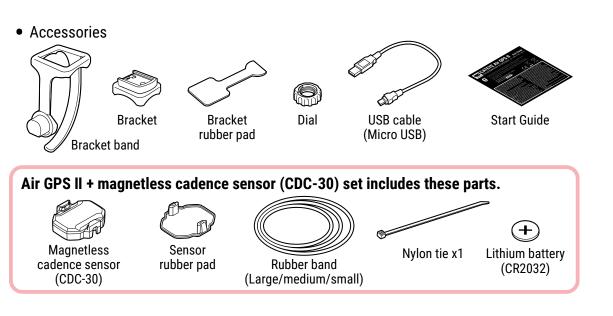
Appendix

MODE

MODE

(Long press)

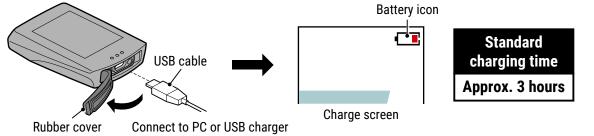
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Charging the Air GPS II

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 "<u>Cateye Cycling[™] Recommended Devices</u>".
- * When using the application for the first time, allow the use of the GPS and Bluetooth® and select the unit (**km/h** or **mph**).

Select "Always" or "While Using the App" and turn on "Precise Location" information.



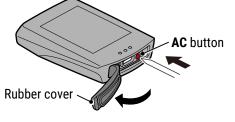
Press and hold **U** (POWER) to turn on the Air GPS II. The Air GPS II enters standby mode (**READY** flashes).

* 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 <u>"Charging the Air GPS II" (page 3)</u>".



ver on the Air GPS II and press the **AC**

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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Launch Cateye Cycling[™], tap [Start] to begin pairing.

- * If the startup screen does not appear, tap [Activity] > (Startup) at the top left of the screen to display the startup screen.
- * To pair with the Air GPS II, allow the use of Bluetooth®.

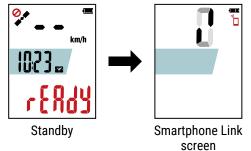


When Cateye Cycling[™] detects Air GPS II, a message is displayed on the smartphone.

Tap [Pairing] to complete pairing.

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

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



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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Turn [Connect] off on Cateye Cycling[™].

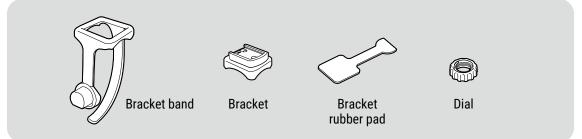
This concludes the setup of the Air GPS II.

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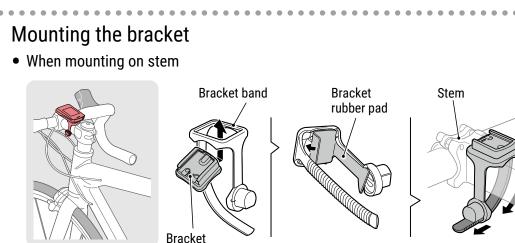
To use sensors, follow the procedure under <u>"Using sensors" (page 21)</u> to pair the sensors.

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Mounting the bracket



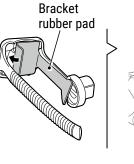
The bracket can be mounted on either the stem or the handlebar.



When mounting on handlebar







Handlebar



Cut

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\triangle 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.

Dia

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



Push out so that front lifts up.





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Mounting the sensor

If the magnetless cadence sensor comes with the Air GPS II, follow the procedure under "<u>Magnetless cadence sensor: 3. How to install the unit on your bicycle</u>" in the sensor's online manual (on our website) to mount the sensor.

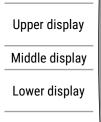
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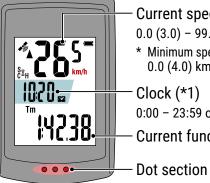
Restrictions on measurement

 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.





Current speed 0.0 (3.0) - 99.9 km/h [0.0 (2.0) - 62.0 mph] * Minimum speed when measured by a speed sensor: 0.0 (4.0) km/h [0.0 (3.0) mph] Clock (*1) 0:00 - 23:59 or 1:00 - 12:59 (*2) Current function (*1)

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

lcon	Description
(GPS signal received)	GPS sensitivity
0	Indicates the GPS signal status.
(GPS signal unreceived)	
	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
	<u>"Charging the Air GPS II" (page 3)</u> to charge the Air GPS II.
¶_	Smartphone Link
	Flashes when a smartphone (Cateye Cycling™) is connected.

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Icon	Description	
(• <u>)</u>	 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 	Setup
A V	Pace arrows Indicates whether the current speed is faster (▲) or slower (▼) than the average speed.	2
km/h m/h	Units Displays the currently selected measurement unit. • Constant : Measurement stopped • Flashing : Measurement in progress (counting the moving time)	Mounting on a bicycle
Tm	Moving Time	3
Ø	Heart rate Displayed when a heart rate sensor is paired.	Starting measurement
ð	Cadence Displayed when a cadence sensor is paired. * Indicates the number of pedal rotations per minute.	2/6
Dst	Trip Distance	4
Dst2	Trip Distance 2This 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 <u>"Setting the Air GPS II" (page 18)</u> .	Measurement results
°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.	SET 5 Changing settings/ Using sensors
AV	Average value Displays the average heart rate and average cadence measured by paired sensors in addition to the average speed.	Frequently
МХ	Maximum value Displays the maximum heart rate and maximum cadence measured by paired sensors in addition to the maximum speed.	Asked Questions
Odo	Total Distance	
	Clock	
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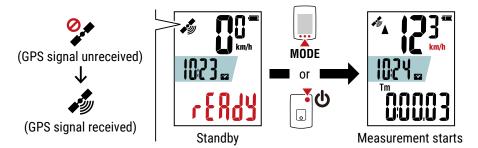
Measurement flowchart

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

Press and hold U (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).



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



∆Caution!:

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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 (**S** 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.





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Measurement results

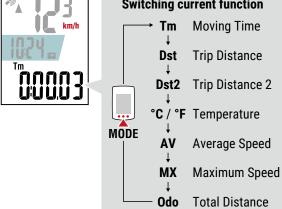


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 Switching current function displayed at the bottom of the screen Pressing MODE switches the current function displayed at the bottom of the screen.
 Switching current function



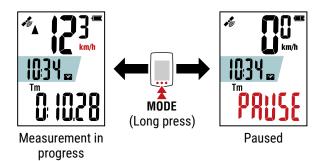
* The lower display can be switched by pressing **MODE** even while measurement is paused.

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.

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To finish a measurement, press and hold **U** (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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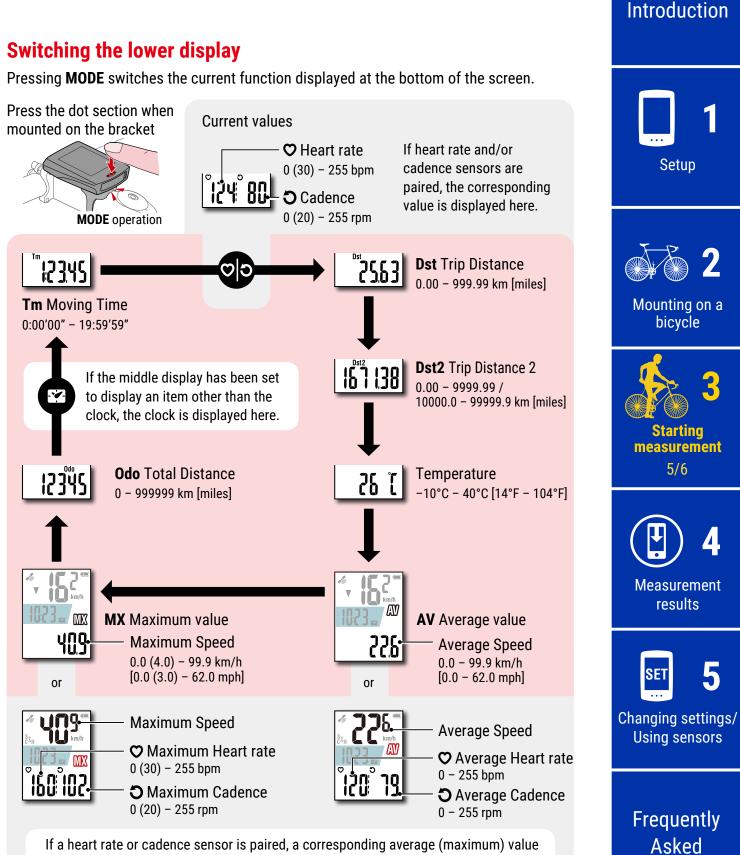


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* If the speed, cadence, or heart rate value flashes, the remaining battery power of the measuring sensor is low.

is displayed on the lower display and the average (maximum) speed is displayed on

the upper display.

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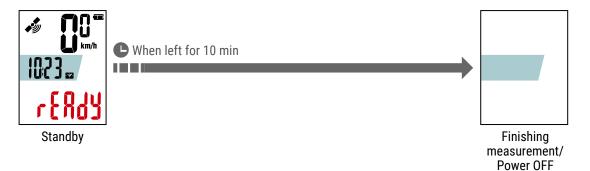
Power-saving mode

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)

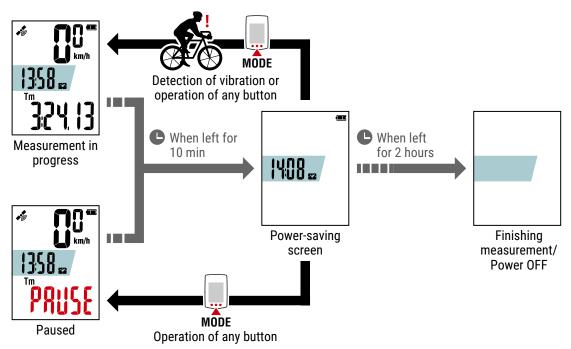
When the Air GPS II enters power-saving mode, it is automatically turned off.



* It will automatically power off in ten minutes if **MODE** or **U** (**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.

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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	Setup
1	Press and hold 🕑 (POWER) to turn on the Air GPS II.	ž 2
	Smartphone	Mounting on a
2	Launch Cateye Cycling™. Tap 000 (Other) and then turn [Connect] on.	bicycle
	When the Air GPS II is connected to the smartphone, 0 rotates and the smartphone icon (D flashes on the smartphone link screen.	Starting
3	Tap [Device] > [Air GPS II] > 📳. Check trip data to import and tap 📳 again.	measurement
	() is not displayed if no trip data is saved in the Air GPS II.	
	Data import from the Air GPS II to Cateye Cycling™ starts. When the import is complete, the activity list is displayed.	Measurement results 1/3
	* 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. 	SET 5
	 * To delete trip data, check the data and tap	Changing settings/ Using sensors
<u>л</u>	After import is complete, turn [Connect] off.	Frequently

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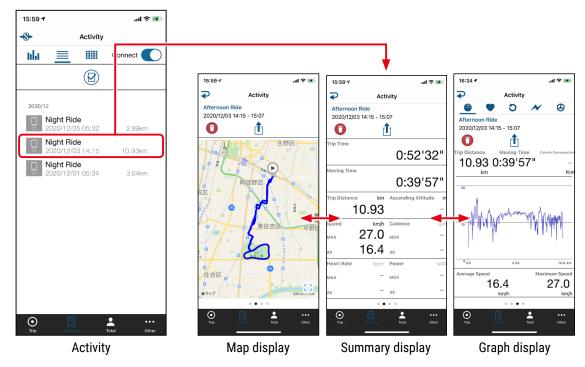
Viewing measurement data

Viewing imported measurement results

Imported trip data can be viewed on the activity screen.

Launch Cateye Cycling^M and tap \equiv (Activity).

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 <u>"Setting Cateye Cycling</u>[™]" (page 29).



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Frequently Asked Questions

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.

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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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

Launch Cateye Cycling[™] and follow the steps below.



Other Connect Connect Setting General Device	De Pair to Device COMPUTER Air GPS 1	rice Connect C 3 80 %	Air GPS II1 Device Name : CC-4 Air GPS II1 Delete Display Customization	*1
Setting General 2 > Device > Account >	COMPUTER	8	Air GPS II1 Delete	80 %
General 2 > Device > Account >			→	80 % from
Device >	Air GPS 1	80 %	▶	
Account	▶		Display Customization	
Support			Backlight (Night Mode)	
Support			Data Auto Delete	
Support			GLONASS	
Web Manual >			Select a sensor	
FAQ >			Recording interval (GPS CC)	
CatEye® Website >			Reset Trip Distance 2	
Notice >			Total Distance	
Privacy policy >			Firmware	

*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 (GPS CC)	Select the log interval for recording on the Air GPS II.
Reset Trip	Reset the value of Trip Distance 2 to zero.
Distance 2	* 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.

ž × 2

Setup

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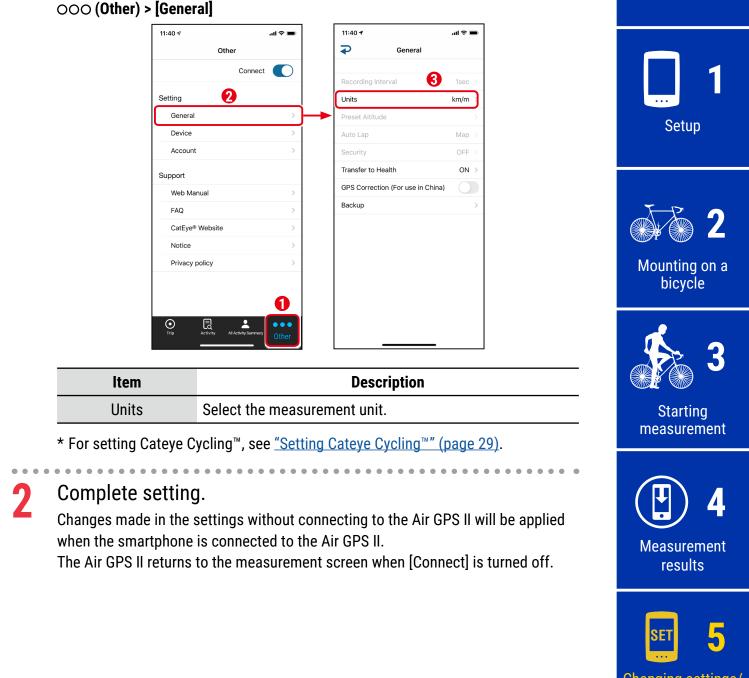
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Using sensors

Pairing sensors using Cateye Cycling™

For CATEYE sensors, 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.

* For pairing third party sensors, see <u>"How to pair sensors (including third party sensors)</u> <u>directly with the Air GPS II unit" (page 23)</u>.

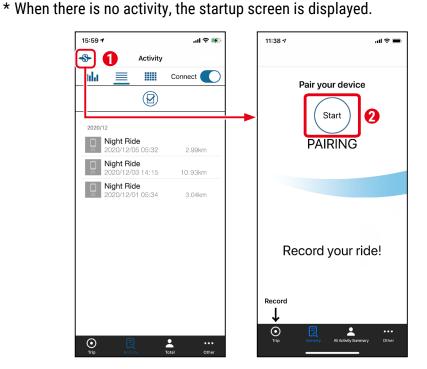
∆Caution!:

- 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 <u>"Setting the Air GPS II" (page 18)</u>.

Smartphone

Launch Cateye Cycling[™] and tap - (Startup) > [Start].



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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 [Pairing] again. Repeat that until the desired device name is displayed.
- * If you want to pair another sensor, repeat the procedure again.

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 <u>"Tire circumference table" (page 28)</u>.

Air GPS II

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 (Long press) sensors will be ready to use.

The information cannot be transferred if the Air GPS II has been paired with other third party sensors. Delete the sensors that have been paired with the Air GPS II unit. For details, see "How to delete the sensors paired with the Air GPS II unit" (page 27).

Smartphone

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





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How to pair sensors (including third party sensors) directly with the Air GPS II unit

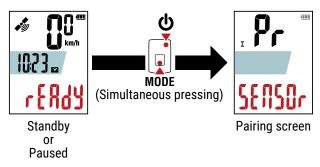
Pair third party sensors directly with the Air GPS II unit.

* These sensors cannot be paired through Cateye Cycling[™].

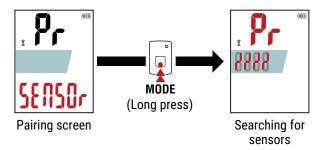
△Caution!:

- 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 of third party sensors, see <u>"How to change the</u> tire circumference on the Air GPS II unit" (page 26).

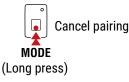
Turn on the Air GPS II and press **(**POWER) and **MODE** simultaneously to switch to the pairing screen.



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



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



Cover, Introduction





Mounting on a bicycle



Starting measurement





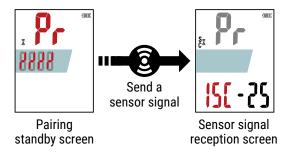
Changing settings/ Using sensors 6/13

> Frequently Asked Questions

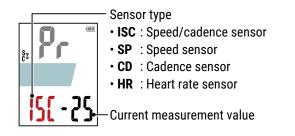
2

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

* For sending a signal from CATEYE sensors, refer to the <u>sensor's online manual</u> (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.



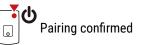
* If the displayed sensor is not the one desired, press and hold **MODE**. The Air GPS II starts sensor search again without confirming the pairing.



Re-search without confirming the pairing

4

When the desired sensor is displayed, press 0 (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.

Cover, Introduction





Mounting on a bicycle



Starting measurement



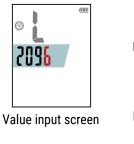


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> Frequently Asked Questions

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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.



MODE

Move digit (Long press)



- * For tire circumference values, see <u>"Tire circumference table" (page 28)</u>.
- * 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 **U** (POWER) button to return to the measurement screen.



Setup

Mounting on a bicycle



Starting measurement





Changing settings/ Using sensors 8/13

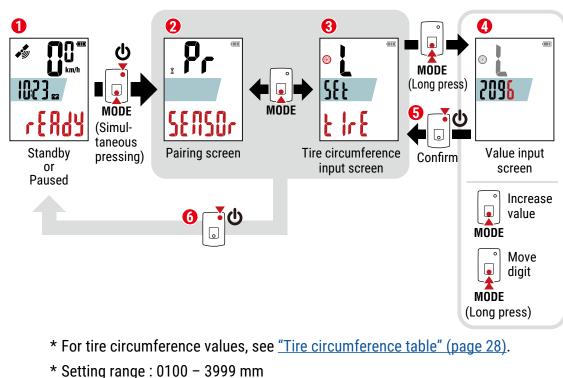
> Frequently Asked Questions

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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.

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



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





Mounting on a bicycle



Starting measurement





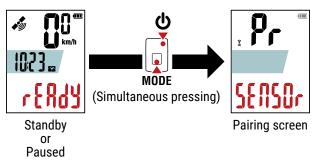
Changing settings/ Using sensors 9/13

> Frequently Asked Questions

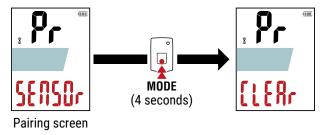
How to delete the sensors paired with the Air GPS II unit

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

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 **U** (POWER) button to return to the measurement screen.







Mounting on a bicycle



Starting measurement



Measurement results



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Tire circumference table

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

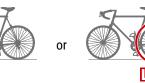
• Use the tire circumference reference table.

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

ETRTO	Tire size	L (mm)	ETRTO	Tire size	L (mm
-203	12x1.75	935	 75-559	26x3.00	2170
	12x1.95	940	28-590	26x1-1/8	1970
	14x1.50	1020	 37-590	26x1-3/8	2068
	14x1.75	1055	37-584	26x1-1/2	2100
	16x1.50	1185		650C Tubular 26x7/8	1920
	16x1.75	1195	20-571	650x20C	1938
	16x2.00	1245	 23-571	650x23C	1944
	16x1-1/8	1290	25-571	650x25C 26x1(571)	1952
	16x1-3/8	1300	40-590	650x38A	2125
	17x1-1/4 (369)	1340	 40-584	650x38B	2105
	18x1.50	1340	 25-630	27x1(630)	2145
	18x1.75	1350	28-630	27x1-1/8	2155
	20x1.25	1450	 32-630	27x1-1/4	2161
06	20x1.35	1460	37-630	27x1-3/8	2169
6	20x1.50	1490	40-584	27.5x1.50	2079
6	20x1.75	1515	50-584	27.5x1.95	209
06	20x1.95	1565	54-584	27.5x2.1	214
	20x1-1/8	1545	57-584	27.5x2.25	218
	20x1-3/8	1615	18-622	700x18C	207
	22x1-3/8	1770	19-622	700x19C	208
	22x1-1/2	1785	20-622	700x20C	208
	24x1.75	1890	23-622	700x23C	209
7	24x2.00	1925	 25-622	700x25C	210
07	24x2.125	1965	28-622	700x28C	213
520	24x1(520)	1753	 30-622	700x30C	214
	24x3/4 Tubular	1785	32-622	700x32C	215
540	24x1-1/8	1795		700C Tubular	213
640	24x1-1/4	1905	35-622	700x35C	216
59	26x1(559)	1913	38-622	700x38C	218
559	26x1.25	1950	40-622	700x40C	220
559	26x1.40	2005	42-622	700x42C	222
559	26x1.50	2010	44-622	700x44C	223
559	26x1.75	2023	45-622	700x45C	224
559	26x1.95	2050	47-622	700x47C	226
559	26x2.10	2068	54-622	29x2.1	228
559	26x2.125	2070	56-622	29x2.2	229
559	26x2.35	2083	60-622	29x2.3	232

• 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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> Frequently Asked Questions

Appendix

Lmm

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Setting Cateye Cycling[™]

Smartphone

Launch Cateye Cycling[™] and follow the steps below.

OOO (Other) > [General]

11:40 🕫		•∎ ≎ III.	11:40 🕇		.ıl ? ■
	Other		₹	General	
	Connect		Recording	Interval	1sec
Setting	2		Units		km/m
General		>	Preset Altit	ude	
Device		>	Auto Lap		Мар
Account		>	Security		OFF
Support			Transfer to	Health	ON
Web Manual		>	GPS Corre	ction (For use in China)	\bigcirc
FAQ		>	Backup		
CatEye® Webs	site	>			
Notice		>			
Privacy policy		>			

	2

Mounting on a bicycle

Setup



Starting measurement



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SET 	5

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ltem	Description	
Units	Select the measurement unit.	
Transfer to Health	Sends imported trip data to the iPhone's Health app.	
GPS Correction (Used in China)	Corrects incorrect geographical positions. Enable when using the device within mainland China.	
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 <u>"Creating a backup" (page 39)</u>. 	

000 (Other) > [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[™]

1:40 🕫	. ∎ ≎ II.	11:40 🕫	
Other		Account	
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etting		STRAVA	
General	>	(comparate angle as com	
Device	2 >	TRAININGPEAKS	
Account) 		
Support			
Web Manual	>		
FAQ	>		
CatEye® Website	>		
Notice	>		
Privacy policy	>		

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Frequently Asked Questions

- <u>"Charging problem" (page 31)</u>
- <u>"Measurement problem" (page 31)</u>
- <u>"Display problem" (page 33)</u>
- <u>"Sensor problem" (page 34)</u>
- <u>"Trip data problem" (page 36)</u>
- <u>"Smartphone (Cateye Cycling</u>™) 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 (States)

• 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 results



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Frequently Asked Questions

Measurement won't start

• Is [READY] flashing on the measurement screen?

Press **MODE** or **U** (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[™].

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 <u>"No GPS signal is received"</u>.

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 <u>"Charging the Air GPS II" (page 3)</u> 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 <u>sensor's online manual</u> (on our website).

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Mounting on a bicycle



Starting measurement



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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 <u>"Charging the Air GPS II" (page 3)</u> 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[™]

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 <u>"Setting the Air GPS II" (page 18)</u>.

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





Mounting on a bicycle



Starting measurement



Measurement results



Changing settings/ Using sensors

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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 <u>"Using sensors" (page 21)</u>.

• 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 <u>sensor's online</u> 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 <u>sensor's online manual</u> (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 <u>sensor's online manual</u> (on our website).







Mounting on a bicycle



Starting measurement



Measurement results



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Frequently Asked Questions

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 <u>sensor's online</u> <u>manual</u> (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 $^{\mathbb{M}}$.

For details, see <u>"Setting the Air GPS II" (page 18)</u>.

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 <u>sensor's online manual</u> (on our website).

Sensor information is not transferred from Cateye Cycling[™].

- Is a third party sensor paired with the Air GPS II?
 - * One sensor each for speed, cadence, and heart rate can be used with the Air GPS II. Information of third party sensors needs to be deleted directly from the Air GPS II unit because it cannot be deleted through Cateye Cycling[™].

Delete the information of the paired sensor directly from the Air GPS II unit and connect the Air GPS II to the smartphone (Cateye Cycling[™]) again. Sensor information in Cateye Cycling[™] will then be transferred to the Air GPS II. For deleting sensor information, see <u>"How to delete the sensors paired with the Air GPS II unit" (page 27)</u>.

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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Frequently Asked Questions

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 <u>"Importing measurement results to a smartphone" (page 15)</u>.

• 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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Changing settings/ Using sensors

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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.
 - * Turning Bluetooth® off/on from the Control Center on an iPhone will not solve the problem.

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.
 - * Turning Bluetooth® off/on from the Control Center on an iPhone will not solve the problem.

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 OOO (Other) > [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 OOO (Other) > [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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Changing settings/ Using sensors

Frequently Asked Questions 8/11

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.

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.

Make sure that iCloud Drive is turned on in advance in the iPhone [Settings] > [(Your Name)] > [iCloud].

In Cateye Cycling^M, tap OOO (Other) > [General] > [Backup], and then tap [Backup]. A backup will be created in iCloud 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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Starting measurement



Measurement results

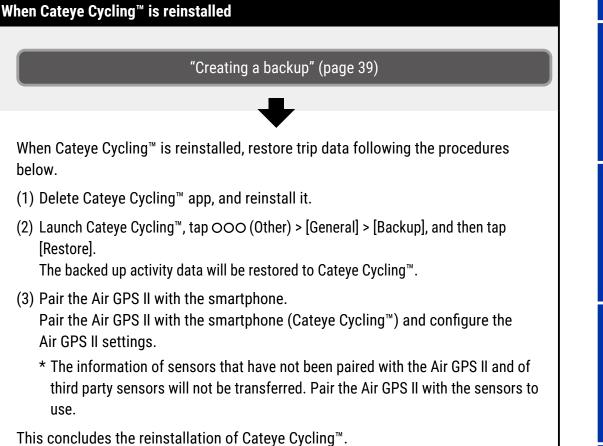


Changing settings/ Using sensors

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Changing settings/ Using sensors

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Frequently Asked Questions

Changing smartphone models

"Creating a backup" (page 39)

Follow the steps below to transfer Cateye Cycling[™] data to a new iPhone.

- Data cannot be transferred to a different smartphone OS, such as when changing from an iPhone to an Android smartphone.
- 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) Launch Cateye Cycling[™] on the previously used iPhone and connect the Air GPS II.

(2) From OOO (Other) at the bottom of the screen, tap [Device] > [Air GPS II] > [Delete] > [Delete].

Be sure to perform this operation while connected to the previously used iPhone.

* There is no need to delete sensor pairing information.

- (3) Use Apple's backup service to transfer data from the previously used iPhone to the new iPhone.
- (4) Launch Cateye Cycling[™] on the new iPhone.
- (5) Pair the Air GPS II.
 - * The information of sensors that have not been paired with the Air GPS II and of third party sensors 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 iPhone.

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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, benzine, 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.

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.





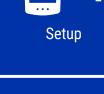
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GPS

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

1602193 Bracket (for FlexTight[™])



5343520 Bracket dial

0

5342730 USB cable (Micro USB)



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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)





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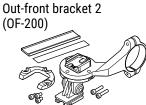
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1604110 Heart rate sensor



1603980

(HR-12)



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)

CatEve 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.

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