CATEYE
MICRO Wireless

CYCLOCOMPUTER
CC-MC200W

Before using the computer, please thoroughly read this manual and keep it for future reference.
Please visit our website, where detailed instructions with movies are available and the instruction manual can be downloaded.

Warning / Caution

- Do not concentrate on the computer while riding. Ride safely!
- Install the magnet, sensor, and bracket securely. Check these periodically.
- If a child swallows a battery, consult a doctor immediately.
- Do not leave the computer in direct sunlight for a long period of time.
- Do not disassemble the computer.
- Do not drop the computer to avoid malfunction or damage.
- When using the computer installed on the bracket, change the **MODE** by pressing on the four dots below the screen, or by pressing on the **SSE** simultaneously, to start or stop the timer. Pressing hard on other areas may result in malfunction or damage to the computer.
- Be sure to tighten the dial of the FlexTight™ bracket by hand. Tightening it strongly using a tool, etc. may damage the screw thread.
- When cleaning the computer, bracket and sensor, do not use thinners, benzene, or alcohol.
- Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to local regulations.
- LCD screen may be distorted when viewed through polarized sunglass lenses.

Wireless Sensor

The sensor was designed to receive signals within a maximum range of 70 cm, to reduce chance of interference. When adjusting the wireless sensor, note the following:

- Signals cannot be received if the distance between the sensor and the computer is too large. The receiving distance may be shortened due to low temperature and exhausted batteries.
- Signals can be received only when the back of the computer is facing the sensor.

Interference may occur, resulting in incorrect data, if the computer is:

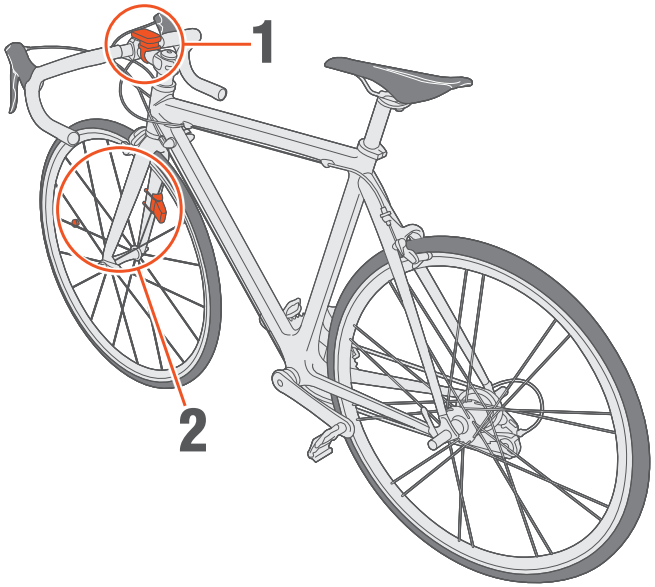
- Near a TV, PC, radio, motor, or in a car or train.
- Close to a railroad crossing, railway tracks, TV stations and/or radar base.
- Using with other wireless devices in close proximity.

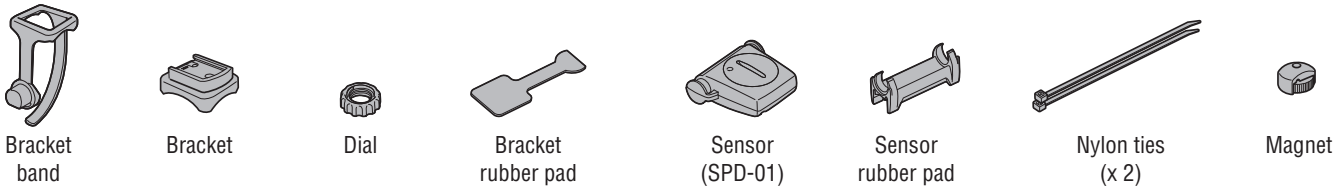
Frequency Band : 19 kHz
Radiated Power : –31.7 dBm
Hereby, CATEYE Co., Ltd. declares that the radio equipment type CC-MC200W is in compliance with Directive 2014/53/EU.
The full text of the EU declaration of conformity is available at the following internet address :
cateye.com/doc

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1)This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Modifications
The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by CatEye Co., Ltd. May void the user 's authority to operate the equipment.

Canada 310
This device complies with Industry Canada's RSS-310. Operation is subject to the condition that this device must not cause harmful interference and must accept any interference, including interference that may cause undesired operation of the device.
Cet appareil est conforme au CNR-310 d'Industrie Canada. Son exploitation est autorisée à condition que l'appareil ne produise pas de brouillage préjudiciable et qu'il accepte tout brouillage, même celui susceptible d'en compromettre le fonctionnement.
CAN ICES-3 (B) / NMB-3 (B)



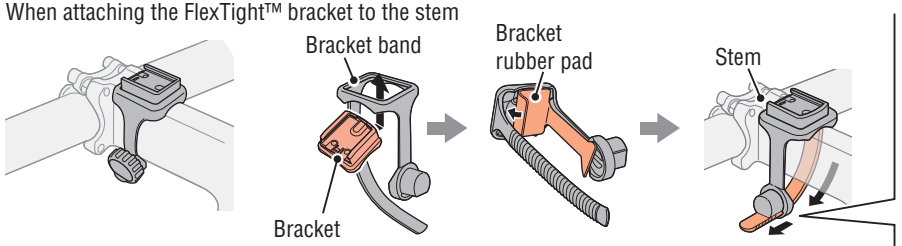


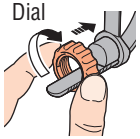
1 Attach the bracket to the stem or handlebar

The FlexTight™ bracket can be attached to either the stem or the handlebar, depending on how the bracket fits into the bracket band.

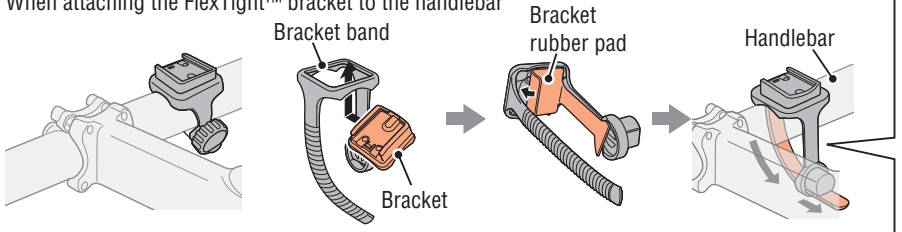
Caution: Be sure to tighten the dial of the FlexTight™ bracket by hand.
Tightening it strongly using a tool, etc. may damage the screw thread.

When attaching the FlexTight™ bracket to the stem

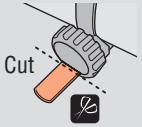




When attaching the FlexTight™ bracket to the handlebar

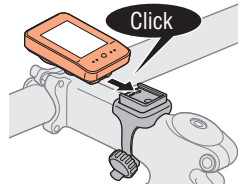


* To mount the bracket to an aero-shaped handlebar or larger stem, use the optional nylon ties bracket.

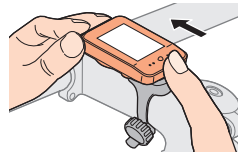


Caution:
Round off the cut edge of the bracket band to prevent injury.

Remove/Install the computer



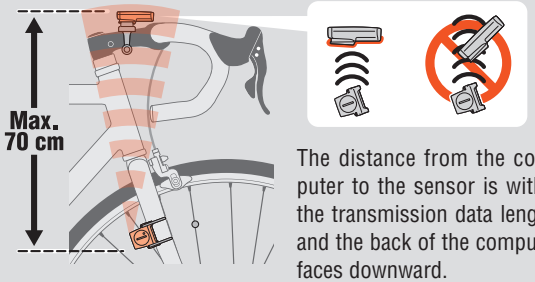
While supporting it by hand,



Push it out as if lifting the front up

Install the sensor and magnet

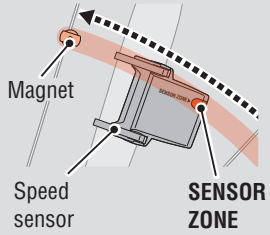
A



The distance from the computer to the sensor is within the transmission data length, and the back of the computer faces downward.

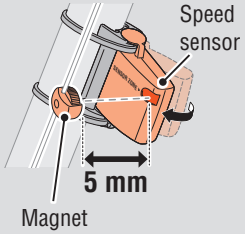
B

The magnet passes through the sensor zone of the speed sensor.

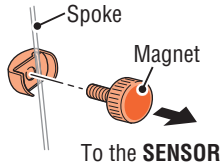


C

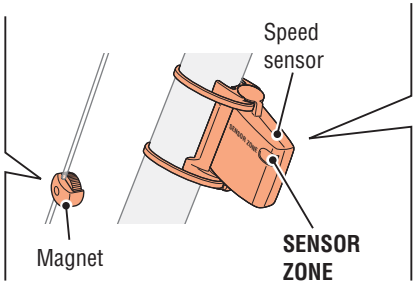
The clearance between the sensor surface and the magnet is within 5 mm.

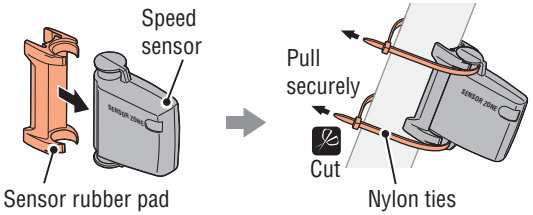


2 Install the sensor and magnet



* The wheel magnet may be installed anywhere on the spoke if the installation conditions are satisfied.



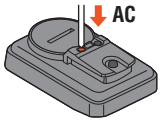


* Install the sensor above the front fork as much as possible.

Perform the clear all data operation as shown below, when you use the unit for the first time or restore the unit to the condition checked at the factory.

1 Clear all data (initialization)

Press the **AC** button on the back of the computer.



2 Select the speed units

Select "**km/h**" or "**mph**".

km/h ↔ mph (MODE)

Register the setting (MENU)

3 Enter the tire circumference

Enter the front wheel tire circumference of your bicycle in mm.

* Use "Tire circumference reference table" as a guide.

Increase the value (MODE)

Move digits (Press & hold) (MODE)

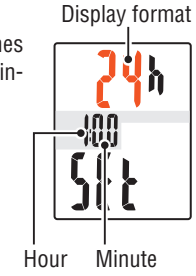
Register the setting (MENU)

4 Set the clock

Pressing and holding the **MODE** button switches the display to "Displayed time", "Hour", and "Minute" in order.

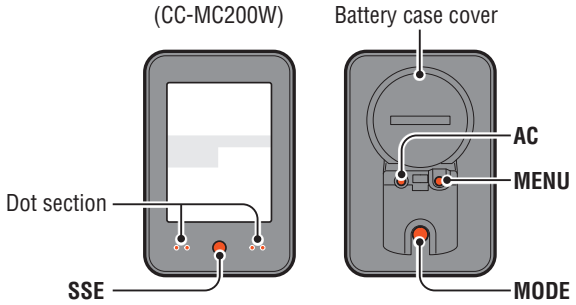
12h ↔ 24h (**AM ↔ PM** when **12h** is selected), or increases the value (MODE)

Switch the screen or move digits (MODE)



5 Press the MENU button to complete setting

Register the setting (Finish) (MENU)



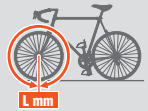
Operation test

After installed, check that the computer displays the speed by turning the front wheel. When it is not displayed, check the installation conditions **A**, **B** and **C** again (page 2).

Tire circumference

You can find the tire circumference (L) of your tire size in the chart below, or actually measure the tire circumference (L) of your bicycle.

- **How to measure the tire circumference (L)**

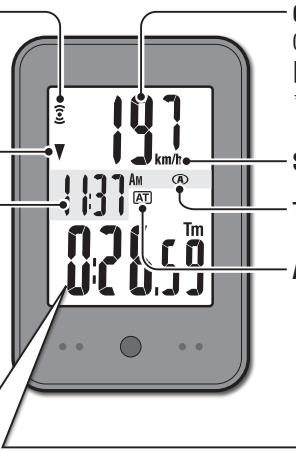
  

  For the most accurate measurement, do a wheel roll out. With the tires under proper pressure, place the valve stem at the bottom. Mark the spot on the floor and with the rider's weight on the bike, roll exactly one wheel revolution in a straight line (until the valve comes around again to the bottom). Mark where the valve stem is and measure the distance.
- **Tire circumference reference table**

  * Generally, the tire size or ETRTO is indicated on the side of the tire.

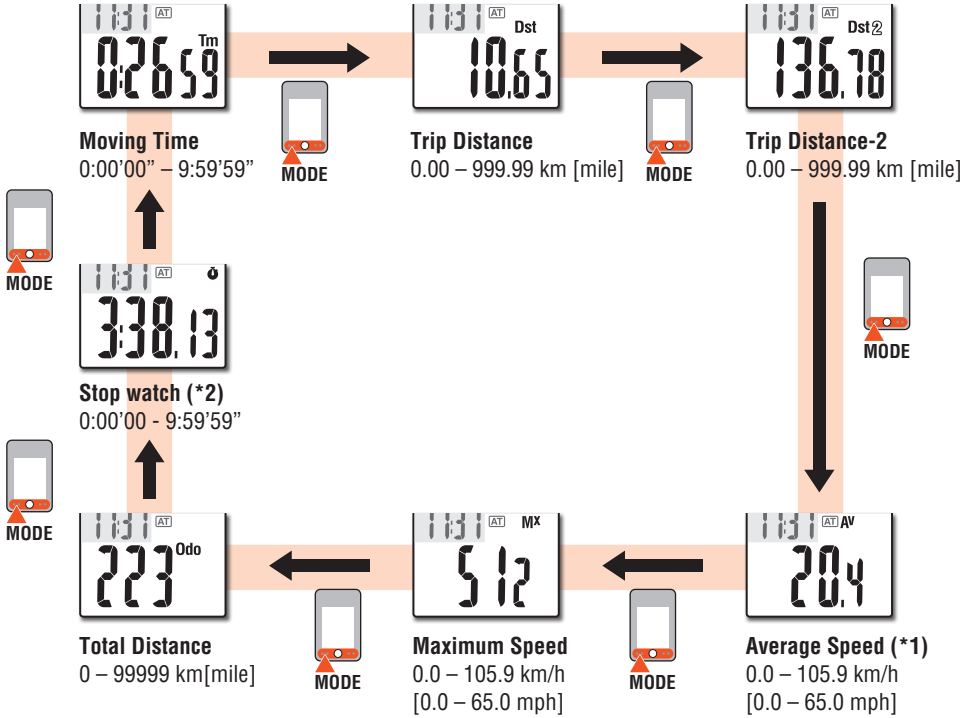
ETRTO	Tire size	L (mm)
47-203	12x1.75	935
54-203	12x1.95	940
40-254	14x1.50	1020
47-254	14x1.75	1055
40-305	16x1.50	1185
47-305	16x1.75	1195
54-305	16x2.00	1245
28-349	16x1-1/8	1290
37-349	16x1-3/8	1300
32-369	17x1-1/4 (369)	1340
40-355	18x1.50	1340
47-355	18x1.75	1350
32-406	20x1.25	1450
35-406	20x1.35	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 Tubuler	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

ETRTO	Tire size	L (mm)
57-559	26x2.125	2070
58-559	26x2.35	2083
75-559	26x3.00	2170
28-590	26x1-1/8	1970
37-590	26x1-3/8	2068
37-584	26x1-1/2	2100
	650C Tubuler 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
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 Tubuler	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
60-622	29x2.3	2326



Switching computer function

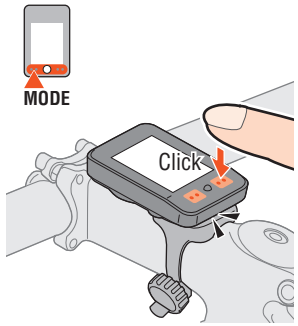
Pressing the **MODE** button switches the measurement data at the bottom in the order shown in the following figure.

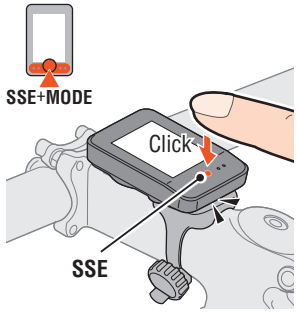


*1 When **Tm** about 10 hours, or **Dst** exceeds 999.99 km, **.E** will appear. Reset the data.

*2 It appears only in the auto mode.

MODE operation when the computer is mounted on the bracket





Starting / Stopping measurement

There are two measurement methods; manual mode and auto mode.

Setting method — See "Changing the computer settings: Selecting the auto mode" (Page 7).

The speed unit (**km/h** or **mph**) flashes during measurement.

* The maximum speed and total distance are updated regardless of start/stop of the measurement.

- **Auto mode (AT illuminated)**
  Measurements start automatically when the bicycle is in motion.

- **Manual mode**
  Press the **SSE** button together with the unit to start/stop the measurement.

Starting/Stopping measurement

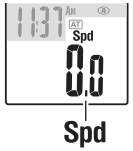
* When the computer is removed from the bracket, press the **SSE** button on the front and the **MODE** button on the back simultaneously.

Resetting data

Pressing and holding **SSE** together with the unit on the measurement screen resets any measurement data, except the total distance (**Odo**), trip distance-2 (**Dst2**), and stopwatch (⏱).

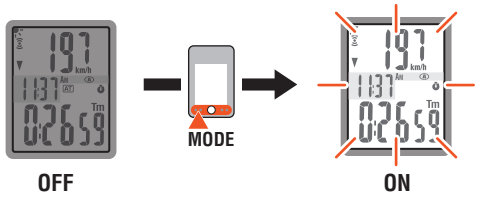
* The total distance (**ODO**) is not reset.

- **Resetting separately the trip distance-2 and stop watch**
  To reset the currently displayed data, display trip distance 2 (**Dst2**) or the stopwatch(⏱), and hold down the main unit along with the **SSE**.
  * **How to reset the trip distance 2 (Dst2) and the stopwatch displayed in top row of screen**
    Display the current speed (**Spd**) in bottom row of screen and perform the reset operation.



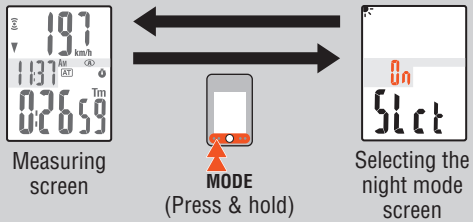
Backlight (Night mode)

With the night mode turned on, pressing the **MODE** button turns on the backlight (for 5 seconds). Pressing any button while the backlight is still on extends the illumination for another 5 seconds.



Setting method

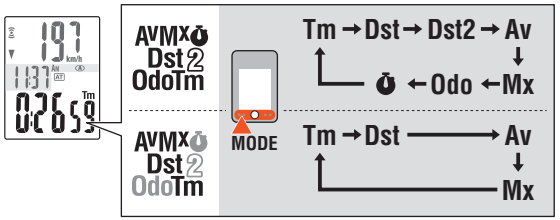
Pressing and holding the **MODE** button proceeds to setting the night mode. Pressing and holding the button again turns on the night mode, and returns to the measurement screen.



* The night mode is automatically turned off without any signal received for 10 minutes.
* You can switch ON/OFF also from the menu screen.
  See “Changing the computer settings: Setting the night mode” (Page 6).
* When (battery icon) is turned on, the backlight is not turned on even if the night mode is on.

Setting the function to display

Displaying only selected data can be done.



Setting method

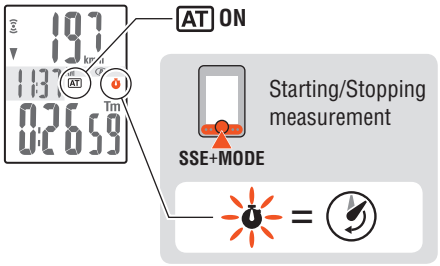
See “Changing the computer settings: Setting the function” (Page 7).

* The current speed (**Spd**), and the elapsed time (**Tm**) cannot be hidden.
* When you hide the function assigned to the top display, the upper display returns to the current speed (**Spd**).
* The unit keeps recording hidden data on background and each measurement data is updated when displayed (except for the stop watch).

Stop watch

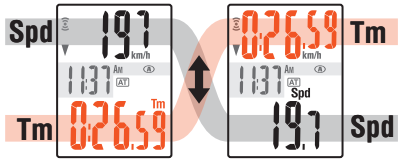
The time can be measured regardless of start/stop of the measurement. It can be used when the auto mode is on (AT illuminated).

- **Start/Stop** : Press the **SSE** button together with the unit. flashes during measurement.
- **Reset** : Display the stopwatch ( ), and hold down the main unit along with the **SSE** button.
  * **How to reset the trip distance 2 (Dst2) and the stopwatch displayed in top row of screen**
    Display the current speed (**Spd**) in bottom row of screen and perform the reset operation.



Upper display selection

Any data can be selected for the top display, and constantly be displayed.



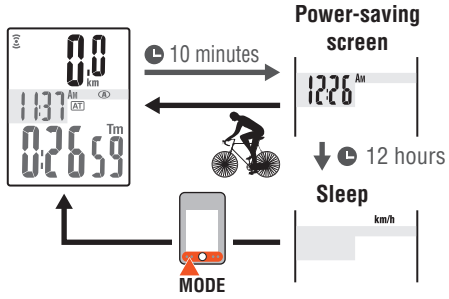
Setting method

See “Changing the computer settings: Setting the upper display” (Page 6).

* The stopwatch cannot be set when the auto-mode is off.

Power-saving function

If the computer has not received a signal for 10 minutes, power-saving screen will activate and only the clock will be displayed. When you press **MODE**, or the computer receives a sensor signal, the measuring screen reappears.

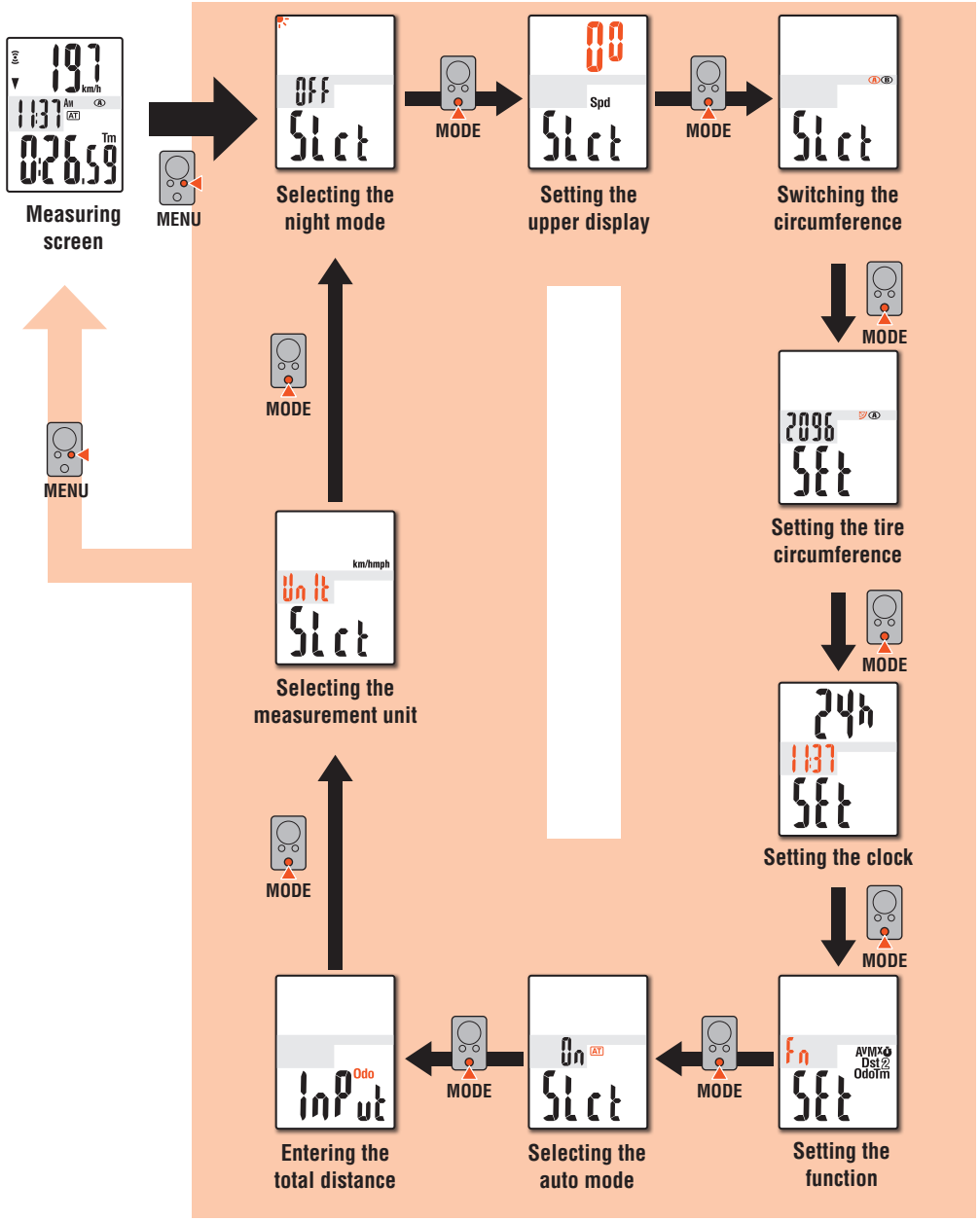


* If another 12 hours of inactivity elapses in the power-saving screen, only the speed unit is displayed on the screen. With such a screen, pressing the **MODE** button returns to the measurement screen.

Changing the computer settings [Menu screen]

Pressing **MENU** on the measurement screen changes to the menu screen. Various settings can be changed on the menu screen.

* After changes are made, be sure to register the setting(s) by pressing the **MENU** button.
* Leaving the menu screen without any operation for 1 minutes returns to the measurement screen, and changes are not saved.



From “Selecting the measurement unit”

Selecting the night mode

Select ON/OFF of the night mode.

* Pressing and holding the **MODE** button shortcuts to this screen from the measurement screen.

Changing the settings

MODE (Press & hold) → ON ↔ OFF (MODE)

MODE → Register the setting (MENU)

Setting the upper display

Select the function for the upper display.

Changing the settings

MODE (Press & hold) → Tm → Dst → Dst2 → Av → Spd ← ⏱ ← Odo ← Mx (MODE)

MODE → Register the setting (MENU)

Switching the circumference (Ⓐ Ⓑ)

Switch Ⓐ and Ⓑ of the tire circumference currently selected.

* The circumference Ⓑ is set on a low-speed oriented basis; therefore, it is suitable for MTB.

Changing the settings

MODE (Press & hold) → A ↔ B (MODE)

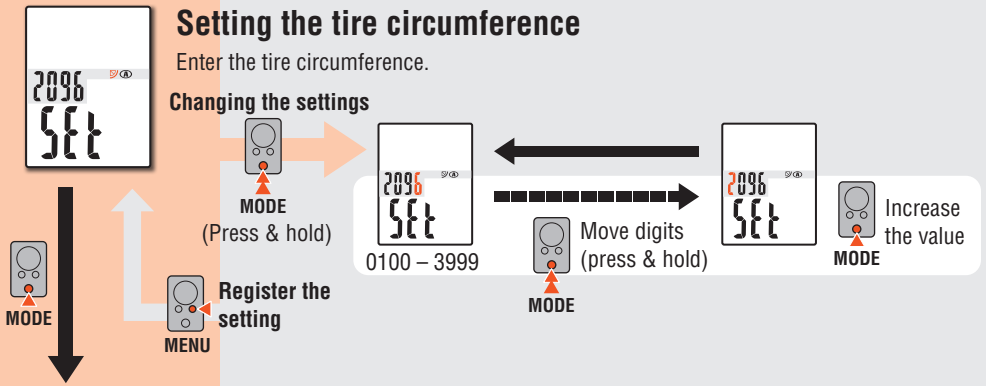
MODE → Register the setting (MENU)

To “Setting the tire circumference”

From “Switching the circumference”

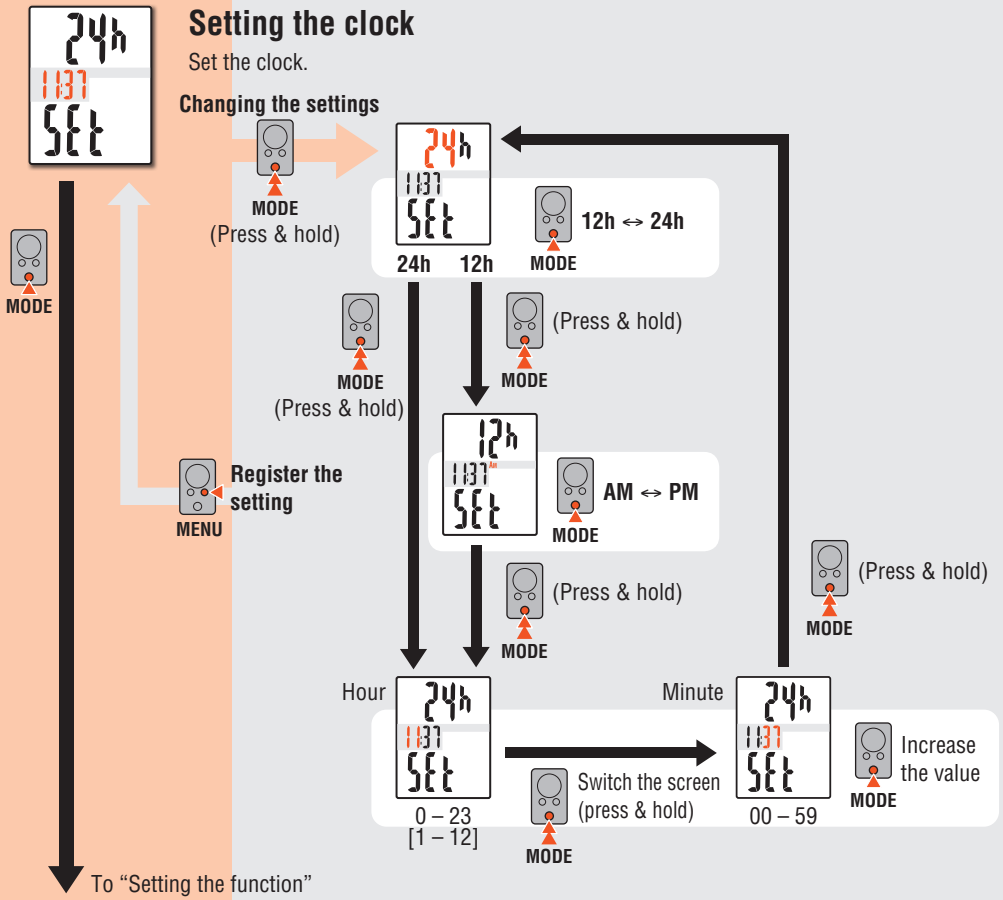
Setting the tire circumference

Enter the tire circumference.



Setting the clock

Set the clock.

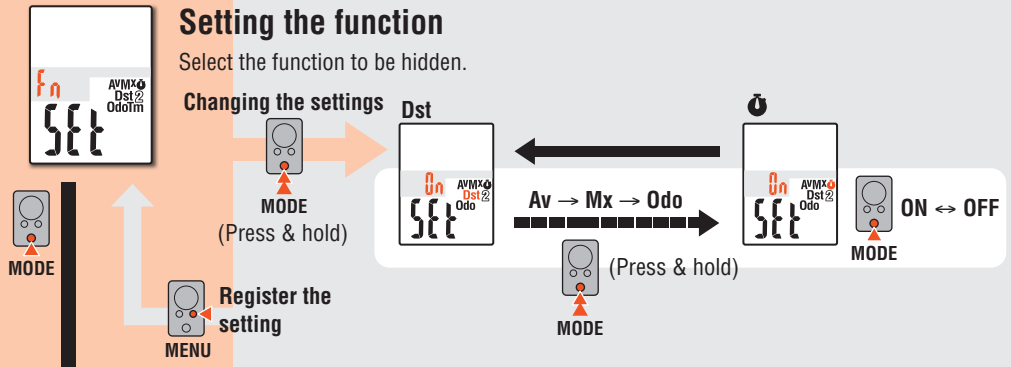


To “Setting the function”

From “Setting the clock”

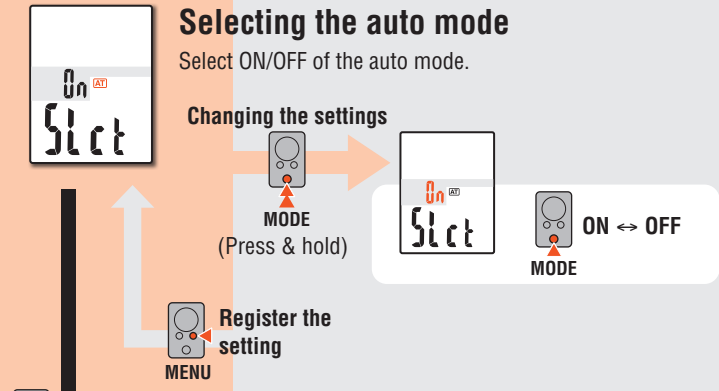
Setting the function

Select the function to be hidden.



Selecting the auto mode

Select ON/OFF of the auto mode.



To “Entering the total distance”

From “Selecting the auto mode”

Entering the total distance

Enter the total distance.

* Once you enter any value to the total distance, you can start from the value you entered. Use this function when you renew and/or reset your unit.

Changing the settings

MODE
(Press & hold)

00000 – 99999

MODE Increase the value

MODE Move digits (press & hold)

MENU **Register the setting**

MODE

Selecting the measurement unit

Select the speed unit (**km/h** or **mph**).

Changing the settings

MODE
(Press & hold)

MODE **km/h ↔ mph**

MENU **Register the setting**

MODE

To “Selecting the night mode”

Maintenance

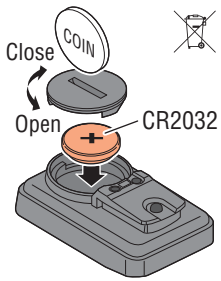
To clean the computer or accessories, use diluted neutral detergent on a soft cloth, and wipe it off with a dry cloth.

Replacing the battery

Computer

When (battery icon) is turned on, replace the battery. Install a new lithium battery(CR2032) with the (+) side facing upward.

* After replacing the computer battery, follow the procedure described in “Preparing the computer” (Page 3).

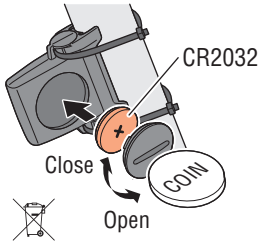


Sensor

When the speed is not displayed even after adjusting correctly, replace the battery.

Insert new lithium batteries (CR2032) with the (+) sign upward, and close the battery cover firmly.

* After replacement, check the positions of the sensor and magnet.



Troubleshooting

The sensor signal icon does not flash (the speed is not displayed).
(Move the computer near the sensor, and turn the front wheel. If the sensor signal icon flashes, this trouble may be a matter of transmission distance due to battery drain, but not any malfunction.)

Check that the clearance between the sensor and magnet is not too large. (Clearance: within 5 mm)

Check that the magnet passes through the sensor zone correctly.

Adjust the positions of the magnet and sensor.

Is the computer installed at the correct angle?

Back of computer must face toward the sensor.

Check that the distance between the computer and sensor is correct. (Distance: within 20 to 70 cm)

Install the sensor within the specified range.

Is the computer or sensor battery weak ?
In winter, battery performance diminishes.

Replace with new batteries according to the procedure specified in the section “Replacing the battery”.

Nothing is displayed by pressing the button.

Replace the computer battery according to the procedure specified in the section “Replacing the battery”.

Incorrect data appear.

Clear all according to the procedure described in “Preparing the computer” (Page 3).

The backlight is not turned on.

Check if (battery icon) is turned on.

Replace the computer battery according to the procedure specified in the section “Replacing the battery”.

Specification

Battery / Battery life	Computer :	Lithium battery (CR2032) x 1 / Approx. 1 years (If the computer is used for 1 hour/day; the battery life will vary depending on the conditions of use.)
	Sensor :	Lithium battery (CR2032) x 1 / Unit Total Distance reaches about 10000 km (6250 mile)

* It may be shortened significantly when backlight is used frequently.
* This is the average figure of being used under 20 °C temperature and the distance between the computer and the sensor is 65 cm.
* The factory-loaded battery life might be shorter than the above-mentioned specification.

Controller	4 bit, 1-chip microcomputer (Crystal controlled oscillator)	
Display	Liquid crystal display	
Sensor	No contact magnetic sensor	
Transmission distance	Between 20 and 70 cm	
Tire circumference range	0100 mm - 3999 mm (Initial value: A = 2096 mm, B = 2050 mm)	
Working temperature	0 °F - 104 °F (0 °C - 40 °C) (This product will not display appropriately when exceeding the Working Temperature range. Slow response or black LCD at lower or higher temperature may happen respectively.)	
Dimensions/weight	Computer :	2-7/64” x 1-27/64” x 11/16” (53.5 x 36 x 17.5 mm) / 0.92 oz (26 g)
	Sensor :	1-41/64” x 1-27/64” x 19/32” (41.5 x 36 x 15 mm) / 0.53 oz (15 g)

* The specifications and design are subject to change without notice.

Limited warranty

2-Year Computer/Sensor only
(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.

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Toll Free : 800.5.CATEYE

Spare accessories

Standard accessories

1602190

Parts kit

1602196

(SPD-01)
Speed sensor

1600280N

Bracket band

1602193

Bracket

1699691N

Wheel magnet

1665150

CR2032
Lithium battery

Optional accessories

1603892

Slim bracket kit