The sensor ID was synchronized with this unit before shipment. It is not necessary to synchronize the sensor ID.

* In combination with the optional heart rate sensor, this unit is capable of receiving and displaying up to 3 signals of the current speed, cadence, and heart rate.

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 three dots below the screen. Pressing hard on other areas can 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.
- Dispose of used batteries according to local regulations.
- LCD screen may be distorted when viewed through polarized sunglasses.

2.4GHz digital wireless system

Each sensor adopts the 2.4GHz digital wireless technology, which is used for wireless LAN, etc. This technology practically eliminates interference from any external noise and cross-talk with other wireless computer users during measurement, and enables it to record and store highly reliable data. However, it suffers interference in the following places and/or environments, which may result in an incorrect measurement.

- Careful attention is required especially while checking the sensor ID.
- TV, PC, radios, motors/engines, or in cars and trains.
- Railroad crossings and near railway tracks, around television transmitting stations and radar bases.
- Other wireless computers or digitally controlled lights.
- In the Wi-Fi environment.

Automatic recognition of the speed sensor ID

The speed sensor has its own ID, and the computer measures in synchronization with the ID.

Two speed-sensor IDs can be registered to one computer, which can automatically identify two speed sensors once their IDs are registered in advance.

As a tire circumference is set to the speed sensor ID, wheel selection by manual operation is no longer required, which was necessary with conventional units.

* The speed sensor currently recognized is indicated with a sensor icon ( vá or vâ) on the screen.

Procedure of automatic recognition

When the computer changes to the power saving screen, and then returns to the measurement screen, automatic recognition of the speed sensor ID is performed in the following procedure.

1. The computer searches the speed sensor ID signal, which had been synchronized immediately before.
2. Once the sensor signal is received, the sensor icon for the speed sensor lights up, and the computer starts the measurement.
3. When the computer receives another sensor signal, the sensor icon for the other sensor lights up on the screen, and starts the measurement.
4. When another speed sensor ID signal cannot be received, the original sensor signal is searched again. The computer repeats synchronization through the procedure described above even if it fails in synchronization for some reason, such as communication failure; in such cases however, it takes time for recognition.

Switching the ID by manual operation

The speed sensor ID can be forced to change manually, according to the menu screen “Setting the tire circumference”. Use this operation in the following cases.

- When the computer cannot recognize the intended sensor signal, since the 2 registered speed sensors are nearby and both are sending a sensor signal.
- When you want to switch the speed sensor ID immediately.

* Once you switch the speed sensor ID by manual operation, the computer continues to search only the speed sensor ID you switched when returning to the measurement screen. When the computer cannot receive any sensor signal in 10 minutes, it will change to the power-saving screen. When such a condition lasts another 1 hour, it will get into the sleep state.
How to install the unit on your bicycle

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:

- 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 handlebar:

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

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

Remove/Install the computer

- Click
- While supporting it by hand,
- Push it out as if lifting the front up
How to install the unit on your bicycle

2 Mount the speed sensor and magnet

- Speed sensor
- Sensor rubber pad
- Speed sensor
- Cadence magnet
- Wheel magnet
- Sensor screw
- Loosen
- Pull securely
- Cut
- Tighten
- Nylon ties (x 5)
- Cadence magnet
- Wheel magnet

Install the sensor and magnet

A

B

2 mm

3 mm

3 mm

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

* When the sensor is not positioned appropriately in respect to the two magnets ( ), move the sensor back and forth so that it is positioned properly.
Preparing the computer

Perform the following formatting operation, when you use the unit for the first time or restore the unit to the condition before shipment.

1 Format (initialize)
Press the MENU button on the back of the computer and the AC button simultaneously.

2 Select the speed unit
Select “km/h” or “mph”.

3 Enter the tire circumference
Enter the rear wheel tire circumference in mm.

4 Set the clock
Pressing and holding the MODE button switches the display to “Displayed time”, “Hour”, and “Minute” in order.

5 Press the MENU button to complete setting
Register the setting (Finish)

Operation test
After installed, check that the speed is displayed when gently turning the rear wheel, whereas the cadence is displayed when turning the crank. When it is not displayed, check the installation conditions and again (page 2).

Current speed

Cadence

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.

<table>
<thead>
<tr>
<th>ETRTO</th>
<th>Tire size</th>
<th>L (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>57-559</td>
<td>26x1.125</td>
<td>1290</td>
</tr>
<tr>
<td>59-559</td>
<td>26x1.25</td>
<td>1330</td>
</tr>
<tr>
<td>75-559</td>
<td>26x3.00</td>
<td>2170</td>
</tr>
<tr>
<td>28-590</td>
<td>26x1/8</td>
<td>1970</td>
</tr>
<tr>
<td>37-590</td>
<td>26x1-3/8</td>
<td>2068</td>
</tr>
<tr>
<td>37-584</td>
<td>26x1-1/2</td>
<td>2100</td>
</tr>
<tr>
<td>650C Tubular</td>
<td>26x7/8</td>
<td>1920</td>
</tr>
<tr>
<td>20-571</td>
<td>650x20C</td>
<td>1938</td>
</tr>
<tr>
<td>23-571</td>
<td>650x23C</td>
<td>1944</td>
</tr>
<tr>
<td>25-571</td>
<td>650x25C</td>
<td>1962</td>
</tr>
<tr>
<td>40-590</td>
<td>650x38A</td>
<td>2125</td>
</tr>
<tr>
<td>40-584</td>
<td>650x38B</td>
<td>2105</td>
</tr>
<tr>
<td>25-630</td>
<td>27x1(630)</td>
<td>2145</td>
</tr>
<tr>
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<td>37-630</td>
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<td>2169</td>
</tr>
<tr>
<td>18-622</td>
<td>700x18C</td>
<td>2070</td>
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<tr>
<td>60-622</td>
<td>29x2.3</td>
<td>2326</td>
</tr>
</tbody>
</table>

* Generally, the tire size or ETRTO is indicated on the side of the tire.
Operating the computer [Measuring screen]

Switching computer function
Pressing the MODE button switches the measurement data at the bottom in the order shown in the following figure.

Starting/Stopping measurement
Measurements start automatically when the bicycle is in motion. During measurement, km/h or mph flashes.

Upper display selection
The cadence (Cadence) or the heart rate (Heart rate) can be switched to the upper display to monitor it constantly.

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

* The optional heart rate sensor is required to measure the heart rate.

Reseting data
Pressing and holding the MODE button on the measurement screen resets any measurement data, except the total distance (Odo) and trip distance-2 (Dst2).

* The total distance (Odo) is not reset.

• Resetting separately the trip distance-2
Pressing and holding the MODE button with the trip distance-2 (Dst2) displayed resets only the data of the trip distance-2.

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.

With such a screen, pressing the MODE button returns to the measurement screen.

* If another 60 minutes of inactivity elapses in the power-saving screen, only the speed unit is displayed on the 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.

### Measuring screen

- Setting the upper display
- Setting the tire circumference
- Setting the upper display
- Setting the tire circumference
- Setting the upper display
- Setting the tire circumference
- Setting the upper display
- Setting the tire circumference

### Setting the upper display

Select the function for the upper display.

### Setting the tire circumference

Manually switch the speed sensor *S1/S2*, and enter the circumference size assigned to each sensor.

* For the tire circumference, see “Tire circumference” (page 4).

### Changing the settings

From “Selecting the measurement unit”

- Set the measurement unit
- Enter the total distance
- Select the measurement unit
- Enter the total distance
- Select the measurement unit
- Enter the total distance

### Register the setting

- Increase the value
- Increase the value
- Increase the value

### To “Searching for sensor ID”

- To change only the speed sensor, select the speed sensor used, and press MENU to set.
Searching for sensor ID
Search the speed sensor (heart rate) IDs.
* The sensor ID was synchronized with this unit before shipment.
Search the sensor ID only when a new sensor is used.

Changing the computer settings [Menu screen]

Searching for sensor ID

Changing the settings

SP1 

SP1 → SP2 → HR

Register the setting

In case of SP1 and SP2

In case of HR

In case of cancellation or 5 minutes of inactivity

Setting the clock

Set the clock.

Changing the settings

SP1 

SP1 → SP2 → HR

Register the setting

In case of SP1 and SP2

In case of HR

In case of cancellation or 5 minutes of inactivity

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

Increase the value

Move digits (press & hold)

Selecting the measurement unit

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

Changing the settings

Increase the value

Switch the screen (press & hold)

Move digits (press & hold)

To “Setting the upper display”
In use

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

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

* Press the top edge of waterproof inner cap to remove it. Install the cap with the "TOP" faced upward.

2 Press the AC button on the back of the computer (Restarting operation)
* When restarting, the speed unit, sensor ID, sensor currently synchronized, tire circumference, upper display setting, and total distance are retained.

3 Set the Clock
Pressing and holding the MODE button switches the display to “Displayed time”, “Hour”, and “Minute” in order.

MODE 12h ↔ 24h or increase the value

MODE Switch the screen or move digits

Display format

4 Press the MENU button to complete setting
Register the setting (Finish)

Speed sensor
* When the current speed flashes, replace the speed sensor battery. Insert new lithium batteries (CR2032) with the (+) sign upward, and close the battery cover firmly.

* After replacement, check the position in respect to the magnet. Reset the sensor by pressing RESET button when you replace the sensor battery.

Troubleshooting

The current speed /cadence cannot be measured.
Check that the clearance between the sensor and magnet is not too large. (Clearance: within 3 mm) Check that the magnet passes through the sensor zone correctly.

Adjust the positions of the magnet and sensor.

Is there any problem in searching the sensor ID?
Search the sensor ID according to the procedure specified in the section “Changing the computer setting / Searching for sensor ID (Page 7)”.

Check if the computer indicates a sign to replace the battery.
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.
Restart according to the procedure specified in the section “Replacing the battery / Computer, steps 2 to 4”.

The measurement data is wrong. (The maximum speed is too high, etc.)
Are there any objects emitting electromagnetic waves (railway tracks, transmitting stations for television, Wi-Fi environment, etc.) nearby?
Keep the unit away from any object that may be the cause.
Perform the resetting operation in the case of invalid data.
**Specification**

<table>
<thead>
<tr>
<th>Battery / Battery life</th>
<th>Computer : CR2032 x 1 / Approx. 6 months (When using 1 hour/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed sensor : CR2032 x 1 / Approx. 1 year (When using 1 hour/day)</td>
<td></td>
</tr>
</tbody>
</table>

* The factory-loaded battery life might be shorter than the above-mentioned specification.

**Controller**
- 1-chip microcomputer (Crystal controlled oscillator)

**Display**
- Liquid crystal display

**Sensor**
- No contact magnetic sensor

**Sensor signal transmission and reception**
- 2.4 GHz ISM Band

**Communication range**
- 5 m (It may change depending on the environmental conditions, including weather.)

**Tire circumference range**
- 0100 mm - 3999 mm (Initial value : 2096 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 : 1-53/64” x 1-7/32” x 5/8” (46.5 x 31 x 16 mm) / 0.72 oz (20.3 g)
- Speed sensor : 1-55/64” x 2-29/64” x 33/64” (47.4 x 62.4 x 13.1 mm) / 0.74 oz (21 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.

**Spare accessories**

**Standard accessories**

<table>
<thead>
<tr>
<th>1603580</th>
<th>1603585</th>
<th>1600280N</th>
<th>1602193</th>
</tr>
</thead>
<tbody>
<tr>
<td>(ISC-10)</td>
<td>(ISC-10)</td>
<td>(HR-10)</td>
<td>CR2032</td>
</tr>
<tr>
<td>Parts kit</td>
<td>Speed sensor</td>
<td>Bracket band</td>
<td>Bracket</td>
</tr>
</tbody>
</table>

**Optional accessories**

<table>
<thead>
<tr>
<th>1603590</th>
<th>1603596</th>
<th>1602980</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heart rate sensor kit</td>
<td>HR strap</td>
<td>Nylon tie bracket</td>
</tr>
</tbody>
</table>

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