Warning / Caution

- Pace maker users should never use this device.
- 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.
- Stop using the unit if you have skin irritation with the HR strap or electrode pad.
- Do not twist or pull strongly the HR strap.
- The HR strap may deteriorate due to long-term use. Replace the HR strap if it has frequent measurement errors.
- 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 manual speed currently recognized is indicated with a sensor icon (1 or 2) 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. When the speed sensor ID signal which had been synchronized immediately before, cannot be received another sensor signal is searched.
3. When the computer receives another sensor signal, the sensor icon for the other sensor lights up on the screen, and starts the measurement. 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.

* When the computer does not receive any signal from the sensor for 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.

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, the power-saving mode is activated, and the computer changes to the power saving screen. The computer searches through the procedure of automatic recognition when it returns to the measurement screen.
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:
     - Install the sensor and magnet
     - The magnet passes through the sensor zone.
     - The clearance between the sensor and magnet is 3 mm or less.

2. Install the speed sensor to the front fork or chain stay
   - The speed sensor can be used either installed to the front fork or chain stay.
   - When installing to the front fork:
     - Install the sensor and magnet
     - The magnet may be installed anywhere on the spoke if the above installation conditions are satisfied.
   - When installing to the chain stay:
     - Install the sensor and magnet
     - The magnet may be installed anywhere on the spoke if the above installation conditions are satisfied.

* To mount the bracket to an aero-shaped handlebar or larger stem, use the optional nylon ties bracket.
Before wearing the heart rate sensor
Warning: Pace maker users should never use this device.
• Stop using the unit if you have skin irritation with the HR strap or electrode pad.
• Do not twist or pull strongly the HR strap.
• The HR strap may deteriorate due to long-term use. Replace the HR strap if it has frequent measurement errors.

Wearing the heart rate sensor
* Adjust the HR strap length to fit your chest size (underbust). Fastening the strap too tightly may cause discomfort.
* Ensure that the electrode pad is in direct contact with the body.
* Wearing the heart rate sensor when your skin is dry or on top of your undershirt may produce measurement errors. To avoid errors, moisten the electrode pad.
* The heart rate sensor consumes power when worn. Remove the heart rate sensor whenever measurement is not performed.

Heart rate sensor
HR strap
Push it in until it clicks.

Heart rate sensor
HR strap
Hook
Back
Electrode pad
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”.

km/h ↔ mph

Register the setting

3 Enter the tire circumference

Enter the sensor-installed tire circumference in mm.

* Use “Tire circumference reference table” as a guide.

Increase the value

Move digits (Press & hold)

Register the setting

Set the Clock

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

12h ↔ 24h

or increase the value

Switch the display

Dot section

Display format

24h

Hour

Minute

4 Operation test

Test the functioning of the speed sensor and the heart rate sensor.

5 Press the MENU button to complete setting

Register the setting

Finish

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”.

km/h ↔ mph

Register the setting

3 Enter the tire circumference

Enter the sensor-installed tire circumference in mm.

* Use “Tire circumference reference table” as a guide.

Increase the value

Move digits (Press & hold)

Register the setting

Set the Clock

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

12h ↔ 24h

or increase the value

Switch the display

Dot section

Display format

24h

Hour

Minute

4 Operation test

Test the functioning of the speed sensor and the heart rate sensor.

5 Press the MENU button to complete setting

Register the setting

Finish

Format (initialize)

Press the MENU button on the back of the computer and the AC button simultaneously.

Select the speed unit

Select “km/h” or “mph”.

km/h ↔ mph

Register the setting

Enter the tire circumference

Enter the tire circumference

* Use “Tire circumference reference table” as a guide.

Set the Clock

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

12h ↔ 24h

or increase the value

Switch the display

Dot section

Display format

24h

Hour

Minute

Operation test

Test the functioning of the speed sensor and the heart rate sensor.

Speed sensor

After installed, check that the computer displays the speed by gently turning the wheel to which the magnet is installed. When it is not displayed, check the installation conditions 1 and 2 (page 2).

Heart rate sensor

Press the MODE button to display 🟡 (heart rate).

It operates normally if the computer displays the heart rate after you wear the heart rate sensor.

* Even if the heart rate sensor is not worn, a heart rate signal is transmitted by rubbing both electrode pads with your thumb. Use this as a simplified method.

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.

* Measure the tire to which the sensor is installed.

* 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>
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<tbody>
<tr>
<td>47-203</td>
<td>12x1.75</td>
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<td>17x1-1/4 (369)</td>
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<th>L (mm)</th>
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</table>

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

Upper display selection
The heart rate (○) or the cadence (○) 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 speed sensor (ISC-10) is required to measure the cadence.

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

Resetting 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**
  - MENU
  - Setting the upper display
  - Setting the tire circumference
  - Setting the measurement unit
  - Searching for sensor ID
  - Setting the clock
  - Entering the total distance
  - Selecting the measurement unit

- **Measuring screen**
  - Setting the upper display
  - Setting the tire circumference
  - Setting the measurement unit
  - Searching for sensor ID
  - Setting the clock
  - Entering the total distance
  - Selecting the measurement unit

**Setting the upper display**
Select the function for the upper display.

**Changing the settings**

**Setting the tire circumference**
Manually switch the speed sensor \( s_1 / s_2 \) and enter the circumference size assigned to each sensor.

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

**Changing the settings**

* To change only the speed sensor, select the speed sensor used, and press MENU to set.
Changing the computer settings [Menu screen]

**Searching for sensor ID**
Search the heart rate and speed sensor IDs.
* The sensor ID was synchronized with this unit before shipment.
Search the sensor ID only when a new sensor is used.

**Setting the clock**
Set the clock.

**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.

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

- **Changing settings**
  - Press & hold
  - Switch the screen
- **Register setting**
- **MODE**
- **SP1**, **SP2**, **HR**

- **Changing the settings**
  - (Press & hold)
- **Register the setting**
- **MENU**
- **From “Setting the tire circumference”**
- **To “Setting the upper display”**
- **From “Setting the clock”**
- **To “Entering the total distance”**
Maintenance

- To clean the computer or accessories, use diluted neutral detergent on a soft cloth, and wipe it off with a dry cloth.
- Since the HR strap directly touches your skin, keep it clean by washing off any dirt after use.

Replacing the battery

Computer

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.

* Reset the sensor by pressing RESET button when you replace the sensor battery.

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.

* After replacement, check the position in respect to the magnet.

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

Heart rate sensor

* When the heart rate flashes, replace the battery. Insert new lithium batteries (CR2032) with the (+) sign upward, and close the battery cover firmly.

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.

Troubleshooting

The current speed / heart rate 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.

HR

- Adjust the positions of the magnet and sensor.
- Adjust the electrode pad to have a good contact with the body.
- Is the electrode pad overly worn and damaged after long use?
- Replace it with a new HR strap.
- 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).

- Does the computer or sensor indicate when 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></th>
<th>Computer:</th>
<th>Heart rate sensor:</th>
<th>Speed sensor:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery/Battery life</td>
<td>CR2032 x 1 / Approx. 6 months (When using 1 hour/day)</td>
<td>CR2032 x 1 / Approx. 1 year (When worn about 1 hour per day)</td>
<td>CR2032 x 1 / Approx. 1 year (When using 1 hour/day)</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: 8 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)
- Heart rate sensor: 1-7/32” x 2-29/64” x 33/64” (31 x 62.5 x 13.2 mm) / 0.54 oz (15.4 g)
- Speed sensor: 1-39/64” x 1-51/64” x 15/32” (40.8 x 45.7 x 12.1 mm) / 0.43 oz (12.3 g)

Limited warranty

2-Year: Computer, Heart rate sensor and Speed sensor
(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

<table>
<thead>
<tr>
<th>Standard accessories</th>
<th>1603580</th>
<th>1603585</th>
<th>1600280N</th>
<th>1602193</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parts kit</td>
<td>Speed sensor</td>
<td>Bracket band</td>
<td>Bracket</td>
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<td>1699691N 1665150</td>
<td>1603590 1603595</td>
<td>HR strap</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wheel magnet</td>
<td>Lithium battery</td>
<td>Heart rate sensor kit</td>
<td></td>
<td></td>
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</tbody>
</table>

Optional accessories

<table>
<thead>
<tr>
<th>1602980</th>
<th>1603585</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nylon tie bracket</td>
<td>Speed sensor</td>
</tr>
</tbody>
</table>

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