Introduction

Thank you for purchasing the CATEYE V3.

The V3 is a high-performance computer for riders who wish to train extensively and analyze their data.

2.4GHz-frequency digital wireless technology, which is the same technology used for wireless LAN, is used for both the speed/cadence integrated speed sensor and the heart rate sensor. This technology practically eliminates interference from external noise and cross-talk with other wireless computer users, providing you with stress-free riding.

Read this instruction manual thoroughly and understand the functions of the computer before using it.

Keep it in a safe place for future reference.

Important

- Always follow the sections that are marked with " Warning !!! ".
- No part of this manual may be reproduced or transmitted without the prior written permission of CatEye Co., Ltd.
- The contents and illustrations in this manual are subject to change without notice.
- If you have any questions or concerns about this manual, please contact CatEye at www.cateye.com.

About the manuals

Basic installation and operation

Please go here for installation of the unit on the bicycle, use of the heart rate measurement function, preparing the computer, and the basic operation of the product.

- 1. How to install the unit on your bicycle See page 6-8
- 2. Heart rate sensor See page 9
- 3. Preparing the computer See page 10-15
- 4. Basic operation of the computer See page 16-17

Measurement screen

Please go here to learn how to operate the computer functions.

Measurement screen See page 18-22

Ride data review

Please go here to check and manage recorded data.

• File view See page 24-27

Changing computer configuration

Please go here for changing and checking each menu items.

Changing the computer configuration See page 23-34

Advanced use

- Recording lap and split time data See page 20 "Lap function"
- Training with target heart rate zones See page 37

"Use of the target zone"

Contents

| Introduction 1 | |
|---|--|
| About the manuals 1 | |
| Proper use of the CatEye V3 3 | |
| Description of computer and its parts 4 | |
| Computer 4 | |
| Accessories 4 | |
| Screen display5 | |
| How to install the unit on your bicycle 6 | |
| 1. Attach the bracket to the stem or | |
| handlebar6 | |
| 2. Mount the speed sensor and | |
| magnet | |
| 3. Remove/Install the computer 8 | |
| Heart rate sensor9 | |
| Before wearing the heart rate sensor 9 | |
| Wearing the heart rate sensor9 | |
| Preparing the computer 10 | |
| Removing the insulation sheet 10 | |
| 1. Formatting/Restarting operation 11 | |
| 2. Date/Clock setting 11 | |
| 3. Tire circumference input 12 | |
| 4. Set the sensor ID 13 | |
| 5. Selecting speed unit14 | |
| 6. Operation test 15 | |
| Sensor signal status15 | |
| Basic operation of the computer 16 | |
| Functions on the measurement | |
| screen16 | |
| Starting/Stopping the | |
| measurement17 | |
| Backlight17 | |
| Resetting the measurement data 17 | |
| Power-saving function17 | |
| Measurement screen 18 | |
| Upper and middle display data 18 | |
| Lower display data19 | |
| Pace function20 | |
| Lap function20 | |
| Countdown distance 21 | |
| Target heart rate zone | |

| Changing the computer configuration 23 | |
|--|--|
| File view (FILE VIEW)24 | |
| Setting the clock/date | |
| (CLOCK.DATE) | |
| Wheel selection and tire | |
| circumference (WHEEL) | |
| Searching the sensor ID | |
| (SEnSOR-ID) | |
| Setting the measurement unit | |
| (UnIT) | |
| Total distance manual entry | |
| (ODO InPUT) | |
| Setting the auto-mode | |
| (AUTO MODE) | |
| Setting the countdown distance | |
| (C.D.D\$T→) | |
| Setting sound (SOUnD) | |
| Setting the target heart rate zone | |
| (HR.ZOnE) | |
| Heart rate training | |
| 1. Improving general fitness | |
| 2. Training for competition | |
| 3. Use of the target zone | |
| Trouble shooting | |
| Trouble on display | |
| Trouble on operation 40 | |
| Replacing battery41 | |
| Computer 41 | |
| Heart rate sensor 41 | |
| Speed sensor 41 | |
| Maintenance 42 | |
| Spare accessories 42 | |
| Specifications43 | |
| Registration 44 | |
| Limited warranty 44 | |
| | |

Proper use of the CatEye V3

Observe the following instructions for safe usage.

The meaning of icons in this manual:

| Warning!!! : Sections marked with these icons are critical for safe use of the device. | | | | | |
|---|--|--|--|--|--|
| _ | Be sure to follow these instructions. | | | | |
| Caution : | Important cautionary notes on the use and operation of the V3. | | | | |
| * | Helpful tips are highlighted with asteriks. | | | | |

Warning!!! :

• Pace maker users should never use this device.

• Do not concentrate on the data while riding. Always be sure to ride safely.

Caution:

- Regularly check the positions of the magnets and the speed/cadence sensors and make sure that they are securely mounted. Tighten it firmly if there is any looseness.
- · Avoid leaving the main unit / wireless sensor in direct sunlight for extended periods of time.
- Do not disassemble the computer, heart rate sensor, or speed sensor.
- Do not subject the computer, heart rate sensor, or speed sensor to strong impact; take care also to prevent any of them from falling.
- . Do not use paint thinner or rubbing alcohol to clean the unit.
- Stop using the unit if you have skin irritation with the HR strap or electrode pad.
- Do not twist or pull strongly the heart rate sensor.
- The heart rate sensor may deteriorate due to long-term use. Replace the heart rate sensor if it has frequent measurement errors.
- As a nature of liquid crystal displays, sunglasses with polarized lens may block the visibility.

2.4GHz digital wireless system

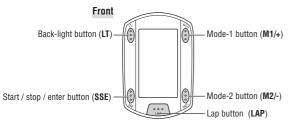
2.4GHz-frequency digital wireless technology, which is the same technology used for wireless LAN, is used for both the speed/cadence integrated speed sensor and the heart rate sensor. This technology practically eliminates interference from external noise and cross-talk with other wireless computer users, and enables to store highly reliable data. However, in a very rare occasions, objects and places may generate strong electromagnetic waves and interference, which may result in incorrect measurement:

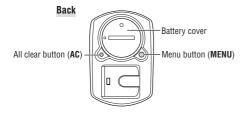
- TV, PC, radios, motors/engines, or in cars and trains.
- Railroad crossings and near railway tracks, around television transmitting stations and radar bases.
- Other wireless computers or digitally controlled lights.

[•] Do not leave any battery within the reach of children, and dispose of them correctly. If a battery is swallowed, consult a doctor immediately.

Description of computer and its parts

Computer





Accessories

Bracket / Bracket band









Speed sensor (SPEED/CADENCE)



Wheel magnet

Cadence magnet Ø



Screen display

🕄 : Speed sensor signal Indicate Speed sensor signal status. (page 15)

% : Alarm

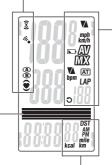
Lights up when the HR alarm sound feature is turned on.

(A) (B) : Wheel selection Displays the wheel currently selected.

• : Heart rate sensor signal Indicate Heart Rate sensor signal status. (page 15)

🖲 : Target zone

Lights up when the target zone is on. and flashes when it is out of the zone



Dot display

Mainly displays mode descriptions for the values displayed just below.

Button navigation

Operative buttons at set-up of the computer, or on the menu screen, will flash.

rent heart rate is faster (▲) or slower (▼) than the average heart rate. bpm : Heart rate unit ATI : Auto-mode Lights up when the auto-mode function is on. LAP : Lap icon Lights up while the lap data is displayed. O : Cadence sensor signal

Speed pace arrow

the average speed.

progress.

km/h mph : Speed unit

AV : Average display

Low battery indicator

pacity for the computer is low.

MX : Maximum value display

The pace arrows show whether the cur-

rent speed is faster (▲) or slower (▼) than

Flashes while speed measurement is in

Lights up when the remaining battery ca-

Lighting up displays that the speed, heart rate,

Lighting up displays that the speed, heart rate,

The pace arrows show whether the cur-

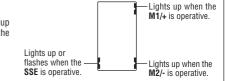
and cadence displays are maximum values. ▲ : Heart rate pace arrow

and cadence displays are average values.

Indicate Cadence sensor signal status. (page 15)

Selected data icon/unit

Displays together with the data currently displayed in the lower display.



How to install the unit on your bicycle

1. Attach the bracket to the stem or handlebar

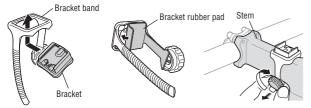
The Flex Tight ${}^{\rm TM}$ bracket can be attached to either the stem or the handlebar depending on how the bracket and band are configured.

Caution:

Tighten the dial on the bracket band by hand only. Over-tightening can damage the screw threads.

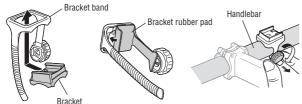
When attaching the Flex Tight ™ bracket to the stem

* Attach the bracket with its open end facing to the right.



When attaching the Flex Tight ™ bracket to the handlebar

* Attach the bracket with its open end facing to the right.

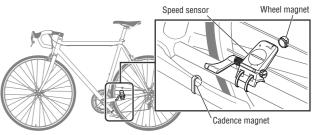




Cut extra length of the band with scissors.

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

2. Mount the speed sensor and magnet



2-1. Temporarily secure the speed sensor

Locate the speed sensor on the left chain stay as shown above, and loosely secure it with the nylon ties.

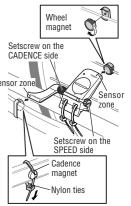
* Do not tighten the nylon ties completely at this stage. Once a nylon tie is tightened, it cannot be pulled out.



Speed sensor

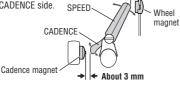
2-2. Mount the magnet

- Loosen the setscrews both on the SPEED side and CADENCE side of the speed sensor, and turn the sensor to the angle as shown on the right.
- 2. Temporarily secure the wheel magnet to the spoke so that it faces the sensor zone on the SPEED side.
- 3. Temporarily secure the cadence magnet inside Sensor zone the crank with nylon ties, so that it faces the sensor zone on the CADENCE side.
- * When the speed sensor is not positioned appropriately in respect to the two magnets (in both Steps 2 and 3), move the speed sensor back and forth so that it is positioned properly. After you move the speed sensor, adjust the position so that the two magnets face the relevant sensor zone.
- 4. After adjustment, tighten the nylon ties firmly to secure the speed sensor.



2-3. Adjust the distance to the magnet

- Adjust the distance between the wheel magnet and the SPEED side of the speed sensor to be about 3 mm. After adjustment, tighten the setscrew on the SPEED side.
- Adjust the distance between the cadence magnet and the CADENCE side of the speed sensor to be about 3 mm. After adjustment, tighten the setscrew on the CADENCE side.
 SPEED



Cut extra length

of the nylon tie

with scissors.

2-4. Securing various parts

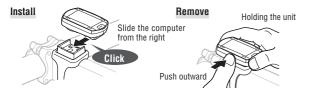
Tighten the speed sensor, setscrew, and magnet firmly, and check for any looseness.

* For steel axle pedals, cadence magnet can be compacly installed onto the end face of the pedal axle. Make sure to remove the doublesided tape from the magnet when doing this.

3. Remove/Install the computer

Caution:

When removing, hold the unit to prevent it from falling.



Heart rate sensor

Heart rate is measured when the heart rate sensor is worn on the chest.



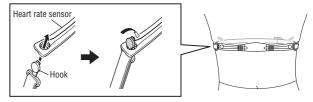
Before wearing the heart rate sensor

🗥 Warning!!! :

This product must NOT be used by those who have a pacemaker.

- To avoid measurement errors, it is recommended to moisten the electrode pads with water.
- If your skin is ultra-sensitive, the electrode pad may be moistened with water and worn on a thin undershirt.
- . Chest hair may interfere with the measurement.

Wearing the heart rate sensor



- 1. Insert the HR strap hook to a hole on the heart rate sensor, and push it until it clicks.
- Wear the heart rate sensor with the HR strap, and adjust the length of the HR strap to fit your chest size (under bust). Fastening the strap too tightly may cause discomfort.
- 3. Insert the HR strap hook to another hole on the heart rate sensor, and push it until it clicks.
- 4. For removal, hold near the hole on the heart rate sensor and the hook, and twist off.
- * Ensure that the rubber part of the electrode pad is in direct contact with the body.
- * When your skin is dry, or wearing the heart rate sensor on top of your undershirt may produce measurement errors.

To avoid errors, moisten the rubber part of the electrode pad.

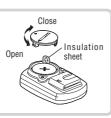
Preparing the computer

Computer's basic items must be set up before using it.

Removing the insulation sheet

When using the unit for the first time after purchasing, open the battery cover and remove the insulation sheet.

* After you remove the insulation sheet, replace the battery cover in place.

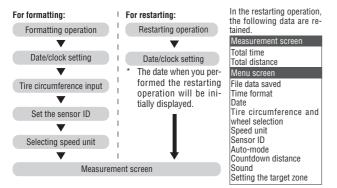


Flow of set-up

There are 2 different set-up operations:

· Formatting operation: At initial purchase, or reset all to default.

 Restarting operation: When you replace batteries, or an error is displayed. Each operation has a different flow of set-up.



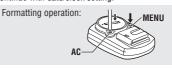
* If mistake was made or "ID-ERROR" showed in the initial set up, go through the full initial set up steps first, and all corrections can be made afterwords through Menu screens. (page 23)

1. Formatting/Restarting operation

Formatting operation (At initial purchase, or reset all to default.) **Caution:** All data are reset to the default and deleted

1. While pressing the **MENU** button on the back of the computer, press AC button.

Release the **MENU** button when a test pattern is displayed on the screen. The date/clock setting screen appears. Continue with date/clock setting.

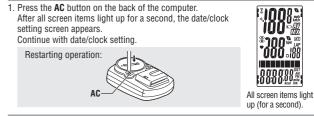




222222 After a test pattern is displayed, all screen items light up.

* When all screen items light up without any test pattern displayed on the screen. the formatting operation has not been completed properly. Perform the formatting operation again.

Restarting operation (When you replace batteries, or an error is displayed.)





* Most of the settings and file data saved are retained for the restarting operation (see chart on page 10).

SSE

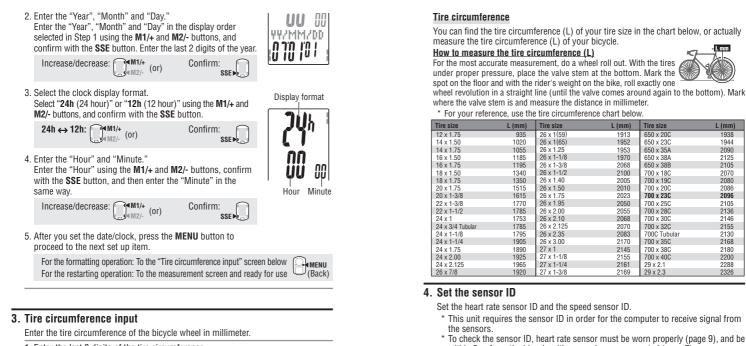
2. Date/Clock setting

Set the current date and time

1. Select the date display format. Select the date display format from "YY/MM/DD", "MM/DD/ YY", and "DD/MM/YY" using the M1/+ and M2/- buttons. and confirm with the SSE button.

Switch the display: Confirm: M1/+ (or)





1. Enter the last 2 digits of the tire circumference. Enter using the M1/+ and M2/- buttons, and move digits

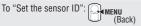
Move diaits:

using the SSE button. Then, enter the first 2 digits in the same wav. M1/+

WHEEL 泊 2096

M2/- (0r) SSE

2. After completed, press the MENU button to proceed to "Set the sensor ID" below.



Increase/decrease: (

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



* For your reference, use the tire circumference chart below.

| Tire size | L (mm) | Tire size | L (mm) | Tire size | L (mm) |
|------------------|--------|------------|--------|--------------|--------|
| 12 x 1.75 | 935 | 26 x 1(59) | 1913 | 650 x 20C | 1938 |
| 14 x 1.50 | 1020 | 26 x 1(65) | 1952 | 650 x 23C | 1944 |
| 14 x 1.75 | 1055 | 26 x 1.25 | 1953 | 650 x 35A | 2090 |
| 16 x 1.50 | 1185 | 26 x 1-1/8 | 1970 | 650 x 38A | 2125 |
| 16 x 1.75 | 1195 | 26 x 1-3/8 | 2068 | 650 x 38B | 2105 |
| 18 x 1.50 | 1340 | 26 x 1-1/2 | 2100 | 700 x 18C | 2070 |
| 18 x 1.75 | 1350 | 26 x 1.40 | 2005 | 700 x 19C | 2080 |
| 20 x 1.75 | 1515 | 26 x 1.50 | 2010 | 700 x 20C | 2086 |
| 20 x 1-3/8 | 1615 | 26 x 1.75 | 2023 | 700 x 23C | 2096 |
| 22 x 1-3/8 | 1770 | 26 x 1.95 | 2050 | 700 x 25C | 2105 |
| 22 x 1-1/2 | 1785 | 26 x 2.00 | 2055 | 700 x 28C | 2136 |
| 24 x 1 | 1753 | 26 x 2.10 | 2068 | 700 x 30C | 2146 |
| 24 x 3/4 Tubular | 1785 | 26 x 2.125 | 2070 | 700 x 32C | 2155 |
| 24 x 1-1/8 | 1795 | 26 x 2.35 | 2083 | 700C Tubular | 2130 |
| 24 x 1-1/4 | 1905 | 26 x 3.00 | 2170 | 700 x 35C | 2168 |
| 24 x 1.75 | 1890 | 27 x 1 | 2145 | 700 x 38C | 2180 |
| 24 x 2.00 | 1925 | 27 x 1-1/8 | 2155 | 700 x 40C | 2200 |
| 24 x 2.125 | 1965 | 27 x 1-1/4 | 2161 | 29 x 2.1 | 2288 |
| 26 x 7/8 | 1920 | 27 x 1-3/8 | 2169 | 29 x 2.3 | 2326 |

Set the heart rate sensor ID and the speed sensor ID.

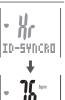
- * This unit requires the sensor ID in order for the computer to receive signal from
- * To check the sensor ID, heart rate sensor must be worn properly (page 9), and be within 5 m from the bicycle with a speed sensor mounted (page 7).
- * When performing ID Synch, make sure there is no other similar sensors in the surrounding area. (It may pick up other sensor's ID)

1. Wear the heart rate sensor.

2. Press the SSE button to start searching for the heart rate sensor ID.

When the heart rate is displayed as "ID-OK" on the screen, searching is completed.

Start searching: SSE 🔊



ID-OK

- Verify that the speed/cadence sensor is mounted properly to the bicycle.
- 4. Press the SSE button to start searching the speed sensor ID. When the speed (cadence) is displayed as "ID-OK" on the screen by spinning the rear wheel or crank, searching is completed.

Start searching: SSE 🜬

Press the MENU button to proceed to "Selecting speed unit" below.



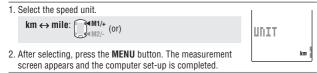


* This unit enters the search mode for 5 minutes after starting the ID check. Press the SSE button during the search mode, then "ID-SKIP" is indicated and it proceeds to "Selecting speed unit" screen below. Or, unless a sensor signal is received in 5 minutes, "ID-ERROR" is indicated and it proceeds to "Selecting speed unit" screen below.

When "ID-SKIP" or "ID-ERROR" is indicated, this unit is not ready for measurement because the sensor ID has not been registered even though the set-up is completed. Be sure to check the sensor ID from the menu screen "Searching the sensor ID" (page 29).

5. Selecting speed unit

Select the speed unit from "km" and "mile".



- Test the functioning of the speed sensor (SPEED) and the cadence sensor (CADENCE).
- * If the sensor signal icons, $\widehat{\underline{s}},$ and D are turned off, press the M1/+ or M2/- button to turn them on.

Speed sensor (SPEED)

- 1. Raise the rear wheel and spin the wheel.
- 2. When S flashes on the computer screen and the speed is displayed, it is operating normally.



Cadence sensor (CADENCE)

- 1. Turn the crank.
- 2. When O flashes on the computer screen and the cadence is displayed, it is operating normally.



- * When **§** or **O** does not flash, the position of the sensor and the magnet is not proper. Check and adjust the position of the sensor and magnet again (page 7).
- Important: In the following situations, it is possible that other sensor's ID was picked up; (such can happen when performing ID Synch at the race venue or group rides)
 - Does not display values, even though sensor/magnet position is proper
 - Does not display HR values, even though HR sensor is strapped properly Recommended Action: Go to the computer's ID Synch setup screen (page 23) and go through the process of ID Synch. (Make sure that here is no similar devices in the vicinity. Signal transition distance can vary from environmental conditions such as weather, buildings, etc)

Sensor signal status

If there is no incoming signal for approximately 5 minutes, the transmission stops and no longer receive the sensor data.

Once you press the $\rm M1/\!\!+$ or $\rm M2/\!\!-$ button, the computer will come out of the Sleep mode and return to the Stand-by for sensor signal.

Signal transmission status can be checked with Signal icon.

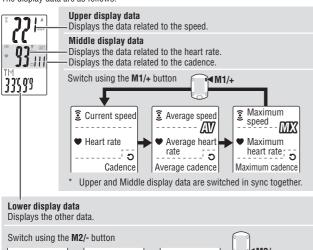
- (flashing) : Receiving sensor signal
- (constant): Stand-by for sensor signal
- $\otimes
 \odot
 \otimes$ (off) : Transmission off

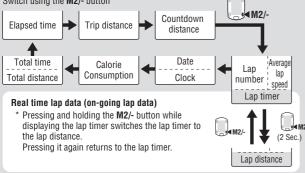
* Transmission off status is independent for heart rate and speed/cadence sensor. If both sensors stop transmission, the computer screen will change to Sleep mode (page 17).

Basic operation of the computer

Functions on the measurement screen

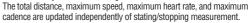
The measurement screen displays 4 different types of data, which are switched by pressing the M1/+ and M2/- buttons. The display data are as follows.





Starting/Stopping the measurement

Initially, the unit starts or stops measurement automatically in sync with the bicycle motion. This is called auto-mode function. "km/h" or "mph" flashes during measurement.



Auto-mode function

When the auto-mode is turned on (AT lights up), the unit detects the wheel spinning, and starts/stops measurement automatically. When the auto-mode is turned off (AT) lights off), the unit starts/ stops measurement by using the SSE button.



11

SS

* For on/off of the auto-mode, see the menu screen "Setting the automode" (page 32).



* When the transmission is stopped and Sensor signal icons $\widehat{\mathbf{z}}$. **O** are off (page 15), the main timer may not start due to speed signal not responding.

Press the M1/+ or M2/- button to turn on the sensor signal icons Ê.♥. O.

Backlight

Pressing the LT button illuminates the displays for about 3 seconds.

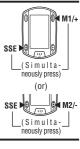
* Pressing any button while backlight is still on extends the illumination for another 3 seconds.

Resetting the measurement data

To reset the measurement data (TM, DST, Lap Time, C.D, DST, etc) and the lap data, simultaneously press the SSE button and the M1/+ or M2/- button in the measurement screen.

* Resetting the measurement data saves the data automatically on a file. (page 24) * The screen will freeze for about 2 seconds after resetting; however, all measurements are operating normally, including the elapsed time.

* The countdown setting (C.D.DST \rightarrow) is returned to the manu set



value you set. * Cannot reset for 5 seconds after pressing the LAP button.

Power-saving function

When the computer does not receive any data for 5 minutes, it will enter the power-saving mode, in which only the date/clock is displayed. By pressing any buttons except the **AC** recovers from the powersaving mode, and the measurement screen appears. You must press a button when the computer is in power saving mode before it will start to measure any data.



Power-saving mode

Measurement screen

Upper and middle display data



Current speed

Displays the current speed. Updated every second.

Part rate

Displays the heart rate in real time. Updated every second.

Cadence

Displays the number of pedal rotations per minute. Updated every second.

Average speed *1

Displays the average speed after the start of measurement.

Average heart rate *2

Displays the average heart rate after the start of measurement. The average will not be reflected when the heart rate is not measured.

Average cadence *3

Displays the average cadence after the start of measurement. The average will not be reflected when you stop pedaling

Maximum speed

Displays the maximum speed after the start of measurement. Updated independently of starting/stopping measurement.

8 Maximum heart rate

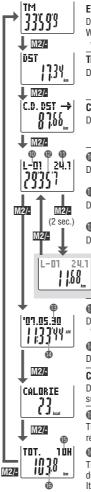
Displays the maximum heart rate after the start of measurement. Updated independently of starting/stopping measurement.

Maximum cadence

Displays the maximum cadence after the start of measurement. Updated independently of starting/stopping measurement.

- *1: When the trip distance (DST) exceeds 10,000 km [mile], or the elapsed time (TM) exceeds 100 hours, [E] appears indicating further measurement is impossible. Clear the data by resetting (page 17).
- *2: This device stops calculating the average when the heart rate sensor is detached, and resumes the calculation when the heart rate sensor is worn again. This feature produces actual averages with the heart rate sensor worn.
- *3: This device calculates the average excluding the time when you stop pedaling. This feature produces actual averages, which are different from those with conventional models that calculate it for the entire measurement time period.

Lower display data



Elapsed time

Displays the elapsed time from the start of measurement to the 1/10 second. When it exceeds 99:59'59", it repeats from 00'00"0.

* When the elapsed time reaches 1 hour, the 1/10 second is not displayed.

Trip distance

Displays the trip distance from the start of measurement.

Countdown distance (page 21)

Displays the countdown distance to the target distance.

(D) Lap number (page 20) Displays the number of current lap.

Average lap speed in real time

Displays the average lap speed of the current lap in real time.

Lap timer

Displays the elapsed time of the current lap in real time.

Trip lap distance in real time Displays the trip distance of the current lap in real time.

Date

Displays the day, month, and year (last 2 digits). * Display format is different depending on display set up.

Clock

Displays the current time of day in the 24- or 12-hour system.

Calorie Consumption

Displays the estimated calorie consumption from the start of measurement based on the heart rate

(1) Total time

The total time is accumulated time since purchase. It can only be reset with Format (page 11).

Total distance

The total distance is accumulated distance. It is updated independently of starting/stopping measurement. It can be edited to desired value

Pace function

2 types of pace arrow icons for the current speed and the heart rate are displayed on the screen.

These arrow icons indicate whether the current speed (heart rate) is above or below the average speed (average heart rate).

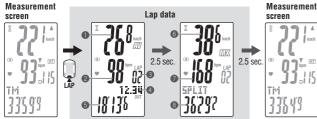
- A : Appears when the current value is above the average.
- V
- : Appears when the current value is below the average.

No arrows : When the current value is equal to the average, or zero.



Lap function

Pressing the LAP button on the measurement screen during measurement records the measurement data between a given set of points (average lap speed/maximum lap speed, average lap heart rate/maximum lap heart rate, lap time/split time, and trip lap distance) up to 99 points. Immediately after recording, the lap data are displayed in the order as shown below, and then return to the measurement screen.



Average lap speed Average lap heart rate

Displays the average lap speed (average lap heart rate) from the previous point (for **L-01**: from the start of measurement).

S Lap number

Displays the lap number just recorded.

* When the total number of laps exceeds 99 points, "--" appears indicating further lap recording cannot be done.

Trip lap distance

Displays the trip lap distance from the previous point (for **L-01**: from the start of measurement).

6 Lap time

Displays the elapsed time from the previous point (for **L-01**: from the start of measurement).

6 Maximum lap speed

Maximum lap heart rate

Displays the maximum lap lap speed (maximum lap heart rate) from the previous point (for **L-01**: from the start of measurement).

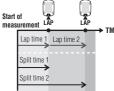
8 Split time

Displays the total elapsed time from the start of measurement.

Lap time and split time

The lap time displays elapsed time from the last press of the $\ensuremath{\textbf{LAP}}$ button.

The split time displays the elapsed time from the start of measurement to the point **LAP** button is pressed.



- * The measured lap data is saved to a file when you perform a reset operation (page 17) and can be reviewed in "File view" (page 24).
- * Pressing the LAP button while the total number of laps reaches 99 points displays the lap data, but "--" appears in place of the lap number indicating further recording is impossible.

Advance use of the real time lap data

For the real time lap data indicated in the lower display, the unit starts/stops measurement in sync with the main time measurement; however, it resets and restarts the data every time you press the **LAP** button.



This independent feature of lap time can be useful also for intervals and sectional trials such as hill climb section.

Countdown distance

The countdown distance feature displays the countdown distance to a predetermined target trip distance, and notifies when it reaches zero. When it reaches the target trip distance, the unit switches any measurement data to the countdown data, and notifies it by flashing the numeric/dot display and an alarm sound.



In case of 20 km

Example of how the countdown distance is used

1. Entering the race event distance

For distance system events such as a road race and century ride, enter the race event distance before the start, and develop your strategy and pace based on the countdown distance during the race.



When reached (displays for 5 seconds)

2. Entering the destination sign distance

For touring, enter the sign distance whenever you encounter a destination sign along the road, and develop your pace based on the countdown distance.

3. Entering the periodical target distance

Enter the periodical target distance for a week, month, or year to check your progress.

 The target trip distance is set from the menu screen "Setting the countdown distance" (page 32).

Target heart rate zone

During measurement, on the screen displays the target heart rate status. (constant): The target zone is set to any of HR.ZONE:1 to 4.

Ð ۲

• (flashing) : The current heart rate is out of the selected zone. • (off) : The target zone is set to off.

* The target heart rate zone is set from the menu screen "Setting zone the target heart rate zone" (page 34).

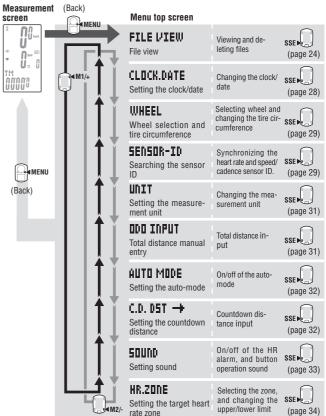
Target heart rate

Changing the computer configuration

Pressing the **MENU** button in the measurement screen switches to the menu screen. In the menu screen, you can view and delete the files saved, and view and change various configurations.

- * Use the M1/+ and M2/- to change menu items.
- * After changes are made, be sure to review the setting(s) and confirm by pressing the **MENU** button.

* Leaving the menu screen without any operation for 2 minutes returns to the measurement screen, and changes are not saved.



File view

FILE VIEW

The lap and measurement data are saved into a file automatically each time a ride is reset (Resetting Operation page 17)

With the file view, you can review the past rides or delete data recorded.

Measurement data to be recorded in a file

The computer can record up to 14 files*1.

When 14 files (rides) are saved, the oldest one is deleted automatically. The latest file is always F-01.

The measurement data to be saved in a file are as follows.



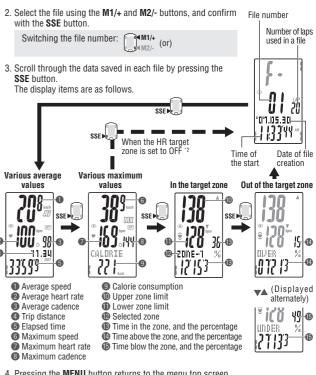
- Trip distance
- Elapsed time
- Various average values (average speed, average heart rate, and average cadence)
- Various maximum values (maximum speed, maximum heart rate, and maximum cadence)
- Date and time of file creation (date/time when the measurement started)
- Number of laps used
- Calorie consumption
- Time distribution to the target zone (time in the zone, time above the zone, and time below the zone) and the percentage (%)
- Lap data (average lap speed, average lap heart rate, maximum lap speed, maximum lap heart rate, lap time, split time, trip lap distance)
- *1: One lap per file is used even in the case there is no lap data. Therefore, when the total number of laps reaches 99 points, no more files can be saved.

Viewing the measurement data in a file

View the measurement data in a file saved in the computer.

1. Press the MENU button in the measurement screen to switch to the menu top screen. Press the SSE button on the FILE VIEW screen. Menu top: Confirm: (Back)





 Pressing the MENU button returns to the menu top screen (FILE VIEW screen). Pressing it again returns to the measurement screen.

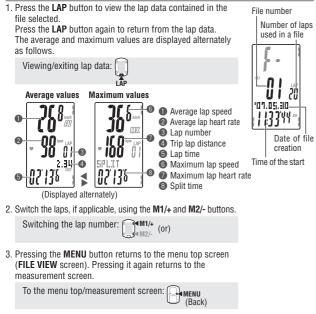
To the menu top/measurement screen:

- *2: HR target zone is set to **OFF** during measurement, no data related to the target zone is displayed.
- * Pressing the LAP button while viewing some data switches to viewing the lap data (page 26).

ENG

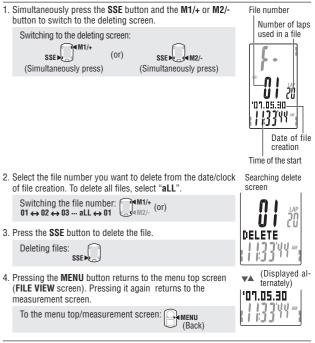
Viewing the lap data

View the lap data in a file saved in the computer. Select the file number you want to view from the menu screen "File view" (page 24).



Deleting files

Delete the file saved in the computer. You can select deleting only the file specified, or all files. Switch to the menu screen "File view" (page 24).



* When the computer has no files (F-00) the delete file operation is not operable.

- * Once a file is deleted, all lap data associated with that file is also deleted.
- * Once a file is deleted, it cannot be restored.



Setting the clock/date

Set the "Clock display format", "Hour", "Minute", "Date display format", "Year", "Month" and "Day."

CLOCK.DATE

W

1. Press the MENU button in the measurement screen to CLOCK.DATE switch to the menu top screen. Switch to the CLOCK.DATE screen using the M1/+ and M2/buttons, and confirm with the SSE button. Menu top: MENU (Back) Changing the menu: Confirm: (or) SSE . Display format Select the clock display format Select "24h (24 hour)" or "12h (12 hour)" using the M1/+ and M2/- buttons, and confirm with the SSE button. 24h ↔ 12h: M1/+ Confirm: SSE 3 Enter the "Hour" or "Minute " 00 Enter the "Hour" using the M1/+ and M2/- buttons, confirm with the SSE button, and then enter the "Minute" in the same way. Hour Minute Increase/decrease: ₩M1/+ Confirm: 1M2/ SSE No. 4. Select the date display format. 447MM700 Select the date display format from "YY/MM/DD", "MM/DD/ YY", and "DD/MM/YY" using the M1/+ and M2/- buttons. li ii JU and confirm with the SSE button. ≩¶M1/+ Switch the display: Confirm: <∎M2/ SSE 5. Enter the "Year", "Month" and "Day." 447MM700 Enter the "Year". "Month" and "Dav" in the display order ຸດດາດເ selected in Step 4 using the M1/+ and M2/- buttons, and 11 IU I confirm with the SSE button. Enter the last 2 digits of the year. Increase/decrease: ₩M1/+ Confirm: SSE >> 6. Pressing the MENU button returns to the menu top screen (CLOCK.DATE screen), and confirm the change(s). Pressing it again returns to the measurement screen.

To the menu top/measurement screen:

| →FILE VIEW - CLOCK.DATE WHEEL SENSOR-: Za Hr.zone Sound C.D. DST-→ Auto Moi | |
|---|-------------------|
| heel selection and tire circumference | WHEEL |
| Switch the Wheel Size (A / B), and change the Tire Size (tire * For the tire size, see "Tire circumference" (page 13). | roll out length). |
| Press the MENU button in the measurement screen to switch to the menu top screen. Switch to the WHEEL screen using the M1/+ and M2/- buttons, and confirm with the SSE button. | Wheel selection |

| Menu top: | (Back) | |
|--------------------|--------|----------|
| Changing the menu: | | Confirm: |



WHEEL

. วกอด

KCÜŬŨ

2. Select the Wheel Size "A" or "B" using the M1/+ and M2/buttons.

M1/+ M2/- (or)

Confirm: SSE 💌

At this point if change of tire circumference is not necessary, you can escape the setup by pressing the MENU button.

WHEEL 泊 1000 (0)0

÷Ĥ.

3. Enter the last 2 digits of the tire circumference for the wheel selected in Step 1 using the M1/+ and M2/- buttons, and confirm with the SSE button.

Then, enter the first 2 digits in the same way.

Increase/decrease: M1/+ (or) Move digits: SSE >>

4. Pressing the **MENU** button returns to the menu top screen (WHEEL screen), and confirm the change(s), Pressing it again returns to the measurement screen.

To the menu top/measurement screen:

(Back)

Searching the sensor ID

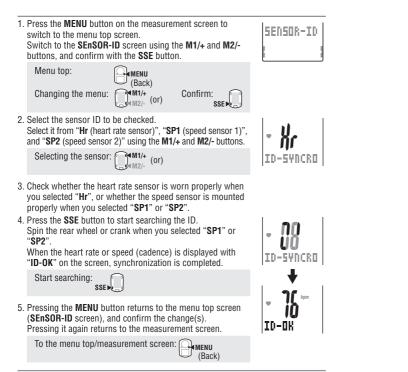
 $A \leftrightarrow B$:

SENSOR-ID

When moving the computer from one sensor to another or to use a different HR chest strap, this operation must be performed.

- * This unit requires the sensor ID.
- The computer cannot receive the sensor signal unless the sensor ID is synchronized properly.
- * To synchronize the sensor ID, the heart rate sensor must be worn properly (page 9), and be near the bicycle with a speed/cadence mounted (page 7).
- * When searching the sensor ID, make sure no other sensors are in the area within 10 m radius. For the Speed/Cadence sensor, it is also possible to press the Reset button on the sensor to intentionally turn off the signal transmission from the sensor.





This unit enters the search mode for 5 minutes after starting the ID synch. While "ID-SKIP" is indicated, press the SSE button in the search mode to cancel the ID synch, and "ID-SKIP" is displayed. Unless a sensor signal is received in 5 minutes, "ID-ERROR" is displayed.

When "ID-SKIP" or "ID-ERROR" is displayed, the ID has not been synchronized properly. In such a case, the sensor ID retains the previous ID setup.

Be sure to check the sensor/mounting condition before you check the ID again.

* SP2 is used when a computer is commonly used for second bicycles. By synchronizing the ID of the second bicycle equipped with a second speed/cadence sensor and the computer with SP2, re-synchronizing and the computer with SP2, synchronizing the ID is not required every time you move the computer between first bike to the second bike.

| → FILE VIEWCLOCK.DATE WHEEL SENSOR-ID | —ada Input |
|--|-----------------------|
| etting the measurement unit | UNII |
| Change the unit (km or mile). * Stop measurement and perform the resetting operation (page the unit. Unless you perform the resetting operation, "DAT, the screen, preventing from changing the unit. | |
| Press the MENU button in the measurement screen to switch to the menu top screen. Switch to the UnIT screen using the M1/+ and M2/- buttons, and confirm with the SSE button. | |
| Menu top: (Back) Changing the menu: (M1/+ (or) (or) (Back) SSE | Current speed uni |
| 2. Select the speed unit using the M1/+ and M2/- buttons. | lunit l |
| $km \leftrightarrow mile: \operatorname{scalar}_{4 \in \mathbb{M}^{2/-}}^{4 \in M/4} (or)$ | km |
| Pressing the MENU button returns to the menu top screen (UnIT screen), and confirm the change(s). Pressing it again returns to the measurement screen. | |
| To the menu top/measurement screen: Henu (Back) | |
| * After the unit is switched, the total distance measured in the converted to the new unit. | e past is automatical |
| tal distance manual entry | ODO INPU |

1. Press the MENU button in the measurement screen to switch to the menu top screen. Switch to the ODO InPUT screen using the M1/+ and M2/buttons, and confirm with the SSE button. Menu top: MENU (Back) ⊶M1/+ Changing the menu: Confirm:



SSE

- 2. Enter the total distance using the M1/+ and M2/- buttons. and move digits using the SSE button.
 - * The total distance shall be entered with a positive value.

(or)

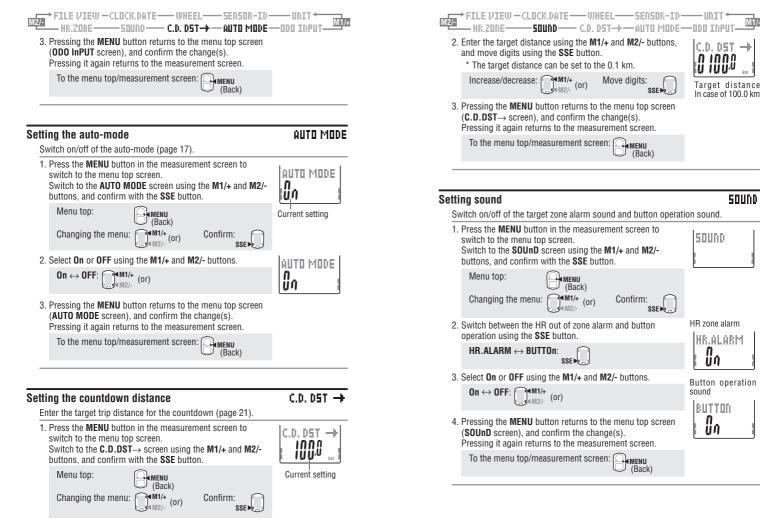
Increase/decrease: M1/+ (or) Move diaits:



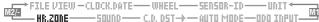
ENG

Current total value





ENG

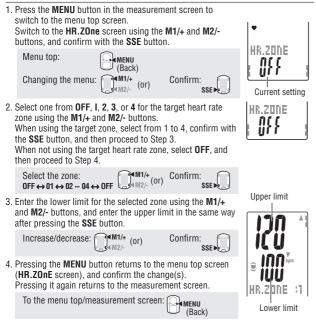


Setting the target heart rate zone

HR.ZONE

You can select the target heart rate zone, and change the upper/lower limit.

- * Stop measurement and perform the resetting operation (page 17) before you can change the target heart rate zone. Unless you perform the resetting operation, "DATA RESET" appears on the screen, preventing from changing the target heart rate zones.
- * For details of the target zone, see "Use of the target zone" (page 37).



- * You can enter any upper/lower limit to each zone; however, the upper limit is adjusted automatically to the lower limit + 1 when the entered lower limit exceeds the upper limit. In case of the upper limit, vice versa, the lower limit is adjusted in the same way.
- * The upper limit is displayed with the digit in a small numeric when it exceeds 199.

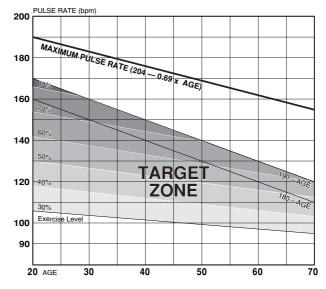
Heart rate training

This section is just a general overview of training with heart rate data. For more complete information, there are books and websites with more in-depth information.

Generally, the heart rate increases during exercise, getting higher in conjunction with the intensity of the workout. Measurement the rate of your heart beat is a good indicator of the intensity of your workout. By setting target HR (heart rate) zones and sticking to preset exercises, you will be able to work out more efficiently. Before beginning a training program, be sure to first consult a medical specialist or sports trainer.

1. Improving general fitness

Bicycling is one of the best activities to improve your general fitness. To improve your overall fitness through bicycling, set a target heart rate zone from between 30% and 70% of your maximum HR, depending on your physical strength. For best results, exercise consistently in this zone for periods of at least 20-30 minutes, 3 or more times a week. To obtain your target zone, see the table below, which illustrates the correlation between heart rate and training level. For beginners, it is recommended to start with the level of 30% of your max. From this point, gradually increase the level according to your fitness level and experience. Training at levels over 70% of your HR max will focus more on anaerobic exercise, and less on aerobic exercise. Weight loss usually occurs through longer rides (over 1 hour) at lower HR levels.



2. Training for competition

Measure your resting heart rate just after waking in the morning and your maximum heart rate (perhaps during competition). Then set your target zone according to your goal:

A) For recovery, endurance training, and weight loss :

60% - 70% (aerobic exercise)

B) For quality endurance and tempo training :

70% - 80% (aerobic exercise)

C) For increasing TT and race ability, and VO2 max :

85% + (anaerobic exercise)

D) For anaerobic capacity and sprinting :

92.5% + (anaerobic exercise)

• Training level (%) = (Target heart rate) - (Resting heart rate) (Maximum heart rate) - (Resting heart rate) x 100

• Target heart rate = (Maximum heart rate - Resting heart rate) x

Training level (%) 100 + Resting heart rate

Resting heart rate

Your resting heart rate is usually the lowest recorded rate soon after waking up in the morning.

Maximum heart rate

The following calculations are generally used: (220 - age) or (204 - 0.69 x age). For more precise figure, consult a training specialist.





3. Use of the target zone

When the heart rate is out of the zone during the measurement, the computer sounds an alarm and notifies the rider by flashing \bigcirc .

The heart rate zone is selected from 4 predetermined zones.

For a training aiming at a heart rate of 140 to 160 bpm, select **HR.ZONE:3** as shown below. Then, the computer sounds an alarm when the heart rate falls below 139 bpm, or rises above 161 bpm.

Once the target zone is set to **On**, the relevant data are recorded and the time in the zone, time above the zone, and time below the zone and their percentages can be viewed in the file view (page 24).

* You can enter any upper/lower limit to each zone.



Default zone

- * For the target zone, you can select **OFF** or Zone 1 to 4, and change the upper/lower limit from the menu screen "Setting the target heart rate zone" (page 34).
- * On/off of the alarm sound is selected from the menu screen "Setting sound" (page 33).

Trouble shooting

If a malfunction occurs, check the following before contacting CatEye or your retailer for repair or service.

Trouble on display

| Trouble | Check Items | Remedy |
|---|---|---|
| Display motion be- comes slower. | Is the surrounding tempera- ture low (below zero degree Celsius or 32 degrees Fahr- enheit)? | Temperatures below freezing may re- sult in slower screen response. Data is not affected. |
| Flashes on the screen. | The remaining battery ca- pacity for the computer is low. | Replace it with a new battery (CR2032) immediately. After replacement, be sure to perform the restarting operation (page 11). |
| No displays appear. | Is the battery for the com- puter empty? | Replace it with a new battery (CR2032). After replacement, be sure to perform the restarting operation (page 11). |
| Meaningless display appears. | | Perform the restarting operation (page 11). |
| Cannot measure the trip speed (cadence) | Have you checked the sensor ID? Is the computer ID Synch'ed with somebody else's sensor? | Check the speed sensor ID (page 29) for SP1 (speed sensor 1) or SP2 (speed sensor 2). |
| | Is the Speed and Cadence sensor icon on ĝ , ♥? | If the Speed and Cadence sensor icon is off \widehat{s} , \mathfrak{O} , the computer can- not receive data. Press the M1/+ or M2/- button once to turn on the icon. |
| | Check whether the distance between the speed (ca- dence) sensor and the mag- net is too large. | Adjust the position of the speed (ca- dence) sensor and that of the mag- net correctly. (See "How to install the unit on your bicycle" on page 6.) |
| | Is the sensor zone of the speed (cadence) sensor off the center of the magnet? | |
| | Has the power-saving func- tion been activated, showing only date/clock on the screen? | Press any button on the computer to cancel the power-saving function. |
| | Is the battery for the speed sensor empty? | Replace it with a new battery (CR2032). After replacement, be sure to press the RESET button on the speed sensor. |

| Trouble | Check Items | Remedy |
|--|--|---|
| Heart rate signals are not received. | Have you checked the sensor ID? Is the computer ID Synch'ed with somebody else's sensor? | Check the speed sensor ID (page 29) for Hr (heart rate sensor). |
| | Is the Heart rate sensor icon off ♥ ? | If the Heart rate sensor icon is off \clubsuit , the computer cannot receive the Heart rate data. Press the M1/+ or M2/- button once to turn on the icon. |
| | Has the power-saving func- tion been activated, show- ing only date/clock on the screen? | Press any button on the computer to cancel the power-saving function. |
| | Is the heart rate sensor at- tached securely to your body? | Adjust the electrode pad with its rub- ber surface to have a good contact with the body. |
| | Dry skin (particularly in | Slightly moisten the electrode pad of the heart rate sensor. |
| | Is the battery for the heart rate sensor used up? | Replace it with a new battery (CR2032). |
| | Check whether D lights up on the computer screen. The remaining battery capac- ity for the computer is low. | Replace it with a new battery (CR2032). After replacement, be sure to perform the restarting operation (page 11). |
| | Is the electrode pad overly worn and damaged after long use? | Replace it with a new heart rate sen- sor. |
| Fluctuation in the heart rate indicator, for ex- ample it returns to zero and then the heart rate is measured again. | Is the electrode pad being worn correctly? | To wear the electrode pad correctly, fol- low the instructions for wearing the heart rate sensor (page 9). |
| Moving the main unit away from your body will prevent measure- ment of the heart rate. | Check whether Lights up on the computer screen. The remaining battery capac- ity for the computer is low. | Replace it with a new battery (CR2032). After replacement, be sure to perform the restarting operation (page 11). |
| | Is the battery for the heart rate sensor used up? | Replace it with a new battery (CR2032). |
| Pressing the LT button does not turn on a light. | Check whether lights up on the computer screen. The remaining battery capac- ity for the computer is low. | Replace it with a new battery (CR2032). After replacement, be sure to perform the restarting operation (page 11). |

Trouble on operation

| Trouble | Check Items | Remedy |
|---|--|--|
| Pressing the SSE button does not start/stop measurement. | Check whether the auto- mode is turned on (with AT) illuminating). | When AT illuminates, the auto-mode is on; you cannot start or stop mea- surement by pressing the button. Turn off the auto-mode. (See "Setting the auto-mode" on page 32.) |
| The heart rate sensor (speed sensor) ID check failed. | | The battery for the heart rate sensor (speed sensor) is possibly depleted. After replacing the battery with a new one (CR2032), check the sensor ID again (page 29). |
| Lap data cannot be stored. | Have you already com- pleted 99 laps? | Delete data files that contain several laps from the file view (page 27) in order to obtain free space for lap recording. |
| | Is the lap time over 100 hours (Or is the trip lap dis- tance over 9999.99 km)? | With the recording range exceeded, the lap cannot be measured. Perform the resetting operation (page 17) for further measurements. |
| | Is it immediately after pressing the LAP button? | You cannot record the lap for 5 sec- onds immediately after pressing the LAP button. |
| Abnormal values appear. | Are there any objects emit- ting electromagnetic waves (railway tracks, transmit- ting stations for television, etc.) nearby? | Keep the unit away from any object that may be causing interference, and re- set the data (page 17). |
| In menu mode, cannot change settings. | Is it currently measure- ment? | Only top menu can be viewed during measurement. |
| | When the auto-mode is turned on (with AT) illumi- nating), it may enter the mea- surement mode due to elec- tromagnetic waves. | Keep the unit away from any object that may be causing interference with elec- tromagnetic waves. |
| | Is it the target zone or the measurement unit that can- not be changed? | To change the target zone and measurement unit, the resetting operation is required. Stop measurement, and perform the resetting operation (page 17). |
| Measurement data can- not be stored on the file view. | Has the total number of laps reached 99 points? | Delete data files that contain several laps from the file view (page 27) in or- der to obtain free space for lap record- ing. |

Replacing battery

The product comes with factory-installed batteries. When a battery is empty, replace it with a new one according to the following instructions.

Warning!!! :

Safely dispose of the old batteries, and do not place them within reach of children. If a battery is swallowed, consult a doctor immediately.

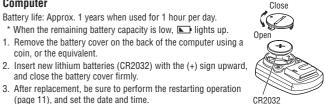
- * When any battery for the computer, heart rate sensor, or speed sensor is depleted, we recommend replacing all batteries at the same time.
- * The battery life shown in this manual is not definitive and it varies depending on the use environment.

* The battery cover sealing is critical to maintain the waterproof feature. Clean any contamination on the battery cover or the seal, and check whether it seals correctly.

Computer

Battery life: Approx. 1 years when used for 1 hour per day.

- * When the remaining battery capacity is low, **I** lights up.
- 1. Remove the battery cover on the back of the computer using a coin, or the equivalent.



Close

CR2032

Open

- and close the battery cover firmly. 3. After replacement, be sure to perform the restarting operation
- (page 11), and set the date and time.

Heart rate sensor

Battery life: Approx. 1 years when worn for 1 hour per day.

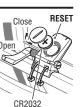
- 1. Remove the battery cover on the back of the heart rate sensor using a coin, or the equivalent.
- 2. Insert new lithium batteries (CR2032) with the (+) sign upward, and close the battery cover firmly.
- * The heart rate sensor consumes power when worn. Remove the heart rate sensor whenever measurement is not required.



Speed sensor

Battery life: Approx. 1 years when used for 1 hour per day.

- 1. Remove the battery cover on the speed sensor using a coin, or Oper the equivalent.
- 2. Insert new lithium batteries (CR2032) with the (+) sign upward, and close the battery cover firmly.
- 3. After replacement, be sure to press the **RESET** button on the speed sensor, and check that the positions of the magnet and sensor are correct and they are secured firmly.



ENG

Maintenance

Perform the daily care according to the following instructions.

- · Regularly check that the positions of the magnets and sensors are correct, and they are secured firmly.
- . When the computer, heart rate sensor, and speed sensor are dirty, wash them with water or wipe them with a soft cloth dampened with diluted neutral detergent, then wipe with dry cloth. Do not use solvents such as benzine or rubbing alcohol as they may damage the surfaces.
- The heart rate strap absorbs sweat easily, and leaving it as such is unsanitary. Wash with neutral detergent.

Spare accessories

Standard accessories

#160-2380 Parts kit



#160-2395 HR Strap



#160-0280 Bracket band

#160-2385

Speed sensor kit



#169-9691 Wheel magnet



#169-9766 Cadence magnet







#160-2193 Bracket



#166-5150 Lithium battery (CR2032)



Specifications

| Display functions | Upper displ | ay Current spee | ed | 0.0 (4.0) – 150.0 km/h [0.0 (3.0) – 93.0 mph For 27-inch tire size | |
|---|-----------------|-------------------------------|---|--|--|
| lunctions | | Average spe | ed | 0.0 – 150.0 km/h [0.0 – 93.0 mph] | |
| | | Maximum s | | 0.0 (4.0) – 150.0 km/h [0.0 (3.0) – 93.0 mph] | |
| | Middle displ | | | 0 (30) – 299 bpm | |
| | | Average hea | | 0 – 299 bpm | |
| | | Maximum h Cadence | eart rate | 0 (30) – 299 bpm 0 (20) – 199 rpm | |
| | | Average cad | ence | 0 – 199 rpm | |
| | | Maximum ca | | 0 (20) – 199 rpm | |
| | Lower displa | ay Date Clock | | '07.01.01 – '99.12.31(Display format can be switched 0:00'00" – 23:59'59" [AM 1:00'00" – PM 12:59'59"] | |
| | | Calorie cons | umption | (Both 12 and 24-hour modes can be selected) 0 – 9999/10000 – 999999 kcal (Calculation-based estimation only) | |
| | | Total time | | 0 – 99999 hour | |
| | | Odometer | | 0.0 – 9999.9/10000 – 999999 km [mile] | |
| | | Elapsed time Trip distance | | 00'00"0 – 59'59"9 / 1:00'00" – 99:59'59" 0.00 – 9999.99 km [mile] | |
| | | Countdown | | 9999.90 – 0.00 km [mile] | |
| | | Lap number | | L-01 – L-99 | |
| | | | peed in real time | 0.0 – 150.0 km/h [0.0 – 93.0 mph] | |
| | | Lap timer | | 00'00"0 – 59'59"9 / 01:00'00" – 99:59'59" | |
| | | p op o o | nce in real time | 0.00 – 9999.99 km [mile] | |
| | Lap | Middle displ | ay (average lap | speed,maximum lap speed) heart rate,Lap number,maximum lap heart rate) nce,lap time,split time) | |
| Control sys | stem | | 4-bit one-chip | microcomputer, crystal oscillator | |
| Display sy | stem | | Liquid crystal | display (EL backlight) | |
| Speed/Cade | ence sensor sig | nal detection systen | Noncontact ma | agnetic sensor | |
| Sensor sig | nal transmiss | ion and reception | 2.4 GHz ISM B | land | |
| Communic | ation range | | 5 m (above 5 m, ti | ransmission distance may vary due to environmental conditions | |
| Operating temperature range | | | (This product) Working Temp | : [0 °C - 40 °C] will not function appropriately when exceeding the erature range. Slow response or black LCD at lower berature may happen respectively.) | |
| Storage te | mperature ra | nge | -4 °F – 122 °F | [-20 °C − 50 °C] | |
| Wheel circumference set range | | 0100 – 3999 mm | | | |
| Power supply/battery life Computer Heart rate sensor Speed sensor | | | : CR2032 x 1 / A | Approx. 1 years (When using 1 hour/day) Approx. 1 years (When worn about 1 hour per day) Approx. 1 years (When using 1 hour/day) | |
| Dimension | s/Weight | Computer | : 2-7/32" x 1-1/2 (With the batte | 2" x 11/16" (56.0 x 38.0 x 17.3 mm) / 0.98 oz (28 g eries) | |
| | | | : 12-13/16" x 1-1/4" x 1/2" (325.0 x 31.4 x 12.2 mm) / 1.41 oz (40 (With the batteries) | | |
| * 14/6 | | Speed sensor | (With the batte | | |
| | | | | | |

* When the elapsed time exceeds 100 hours, or the trip distance exceeds 9999.99 km/h, "E" appears in place of the average speed.

* Designs and specifications are subject to change without notice, due to modifications or improvements.

Registration

CATEYE Web Site (http://www.cateye.com)

For warranty service you must register your product. Please register your V3 as soon as possible. CATEYE provides you technical support and new product information as much as possible.

Please register on-line through our web site, or send the registration card below directly to our Customer Service Department. For registration, please fill in the product's serial number (the 7-digits number marked on on the battery cover of computer).

Limited warranty

2-Year: computer, heart rate sensor and speed sensor

(Not including depletion of batteries)

CatEye products 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 or 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.

CATEYE CO., LTD.

Service & Research Address for USA: CATEYE Service and Research Center

CALET Service and Research Center 1705 14th St. 115 Boulder, CO 80302 Phone: 303.443.4595 Fax: 303.473.0006 Toll Free: 800.5CATEYE E-mail: service@cateye.com URL: http://www.cateve.com

Japan Office:

2-8-25, Kuwazu, Higashi Sumiyoshi-ku, Osaka 546-0041 Japan Attn: CATEYE Customer Service Section