CatEye® Electronics

CC-TR100
CYCLOCOMPUTER
HEART RATE+CADENCE+SPEED

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Introduction

Thank you for purchasing the CATEYE CC-TR100.
The CC-TR100 is a high-performance computer for riders who wish to train extensively and analyze their data. It features wired speed and cadence, and coded wireless heart rate for minimal interference with other external signals. The computer can store up to 150 hours of computer downloadable data through the use of an optional download kit. An optional power unit can also be purchased to record your torque and power output in watts.
Read this instruction manual thoroughly and understand the functions of the product before using it.

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.

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

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

You can find the desired operating method or function description from the following three guides:

Basic installation and operation See page 8 - 19.

Please go here for installation of the unit on the bicycle, setup of the main unit, mounting of the heart rate sensor, and the basic operation of the product.

Complete description of computer functions See page 20 - 27.

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

How to change and customize settings See page 28 - 43.

Please go here to change and customize the settings on your computer.

Using the device in special ways

• Gathering secondary trip data ................. Second measurement (See page 18.)
• Recording lap and split time data ......... Lap function (See page 26.)
• Training with target heart rate and cadence ................... Heart rate zone/Cadence zone (See page 24.)
• Downloading recorded data to a personal computer ............... Data storage function (See page 27.)

See the table of contents on the next page for more specific information. Be sure to note that some functions described can only be used with optional parts; each optional part will come with its own operating instructions.

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 TR100.

NOTE Helpful tips are highlighted this way.

Registration

Please register your TR100 to validate the warranty. Refer to page 51, and make user registration.

Registration card

Please register your TR100 to validate the warranty. Refer to page 51, and make user registration.
Proper use of the CatEye CC-TR100

Observe the following instructions for safe usage.

**Warning!!!**
- Pace maker users should never use this device.
- Do not concentrate on the data while riding. Always be sure to ride safely.
- Do not leave any battery within the reach of children, and dispose of them correctly. If a battery is swallowed, consult a doctor immediately.

**CAUTION!**
- Avoid leaving the main unit / wireless sensor in direct sunlight for extended periods of time.
- Do not disassemble the main unit, HR receiver, or sensors.
- Regularly check the positions of the magnet and the speed/cadence sensors and make sure that they are securely mounted.
- Do not use paint thinner or rubbing alcohol to clean the unit.
- Do not subject the main unit, HR receiver, or sensors to strong impact; take care also to prevent any of them from falling.

**Heart rate sensor**

*NOTE*

The heart rate transmitter has a maximum and minimum transmission distance. Make sure that the distance between the transmitter and main unit is between 20 and 80 cm at all times to ensure proper transmission. If the distance is less than 20 cm, the signal will be too strong for proper reception.

Signals from the heart rate sensor can be received with the main unit attached to the HR receiver. Signals, however, cannot be received by the main unit alone.

**CAUTION!**
- The following objects and places may generate strong electromagnetic wave and interference, which may result in incorrect measurement:
  1. TV, PC, radios, motors/engines, or in cars and trains.
  2. Railroad crossings and near railway tracks, around television transmitting stations and radar bases.
- Avoid using the main unit together with other cordless devices. Doing so may result in transmission interference.
- Consult a doctor if any part of the HR strap results in a rash.
- Do not twist or pull the heart rate sensor using unnecessary force.
- Like all products, the heart rate sensor has a limited lifetime, and may stop functioning after extended usage.

If you have any problems receiving heart rate data, it may be time to replace the heart rate sensor.

**Heart rate sensor**

*NOTE*

Signals from the heart rate sensor can be received with the main unit attached to the HR receiver. Signals, however, cannot be received by the main unit alone.

**CAUTION!**
- The following objects and places may generate strong electromagnetic wave and interference, which may result in incorrect measurement:
  1. TV, PC, radios, motors/engines, or in cars and trains.
  2. Railroad crossings and near railway tracks, around television transmitting stations and radar bases.
- Avoid using the main unit together with other cordless devices. Doing so may result in transmission interference.
- Consult a doctor if any part of the HR strap results in a rash.
- Do not twist or pull the heart rate sensor using unnecessary force.
- Like all products, the heart rate sensor has a limited lifetime, and may stop functioning after extended usage.

If you have any problems receiving heart rate data, it may be time to replace the heart rate sensor.
## Screen display

### Display-1 (Main Speed Display)
- **1. Speed icon**
- **2. Displayed data icon**
- **3. Speed pace arrow**
  The pace arrows show whether the current speed is faster or slower than the average speed.
- **4. Speed unit**
  Flashes while speed measurement is in progress.
- **5. Memory remaining and usage (%)**
  Lights up to indicate the amount of remaining data or usage in the Data file menu.

### Display-2 (Main Heart Rate Display)
- **1. Heart rate icon**
  Flashes in sync with heart rate signals.
- **2. Heart rate pace arrow**
  Shows whether the current heart rate is above or below the average heart rate.
- **3. Heart rate mode icon**
  Indicates type of data displayed in Display-2.
  - **A**: Average heart rate
  - **M**: Maximum heart rate
- **4. Auto-mode icon**
  Lights up when the auto-mode function is on.
- **5. Heart rate unit**

### Display-3 (Main Cadence Display)
- **1. Cadence icon**
- **2. Cadence pace arrow**
  Shows whether the current cadence is above or below the average cadence.
- **3. Cadence mode icon**
  Indicates type of data displayed in Display-3.
  - **A**: Average cadence
  - **M**: Maximum cadence
- **4. Total**: Pedal count
- **5. Cadence unit**
- **6. Factor of 10 - Displayed when total pedal count exceeds 9999.**

### Display-4 (Calorie display [Also displays power when optional power unit is installed].)
- **1. Power icon**
  Lights up when the optional power unit is installed and the power (watts) is displayed.
- **2. Power pace arrow**
  Shows whether the current power is greater or lower than the average power.
- **3. Power select mode icon**
  Indicates type of data displayed in Display-4.
  - **A**: Average power
  - **M**: Maximum power
- **4. Unit of calorie consumption**
  Lights up when calorie consumption is displayed.
- **5. Factor of 10 - Displayed when the calorie consumption exceeds 9999.**

### Display-5 (Displays selected functions.)
- **1. Mode icon**
  Indicates type of data displayed in Display-5.
- **2. Second measurement icon**
  Lights up while the second measurement data is displayed.
- **3. Lap icon**
  Lights up while the lap data is displayed.
- **4. PC link icon**
  *1: Lights up when the optional power unit is installed, online power measurement is performed, and TR100 is connected to a personal computer.
  *2: Lights up when linking to a personal computer.
- **5. Sound icon**
  Lights up when the alarm sound for heart rate zone and cadence zone is on.
- **6. Power measurement icon**
  Lights up when the optional power unit is being used.
- **7. Target icon**
  Lights up when the alert function is turned on in either the heart rate zone or cadence zone.
- **8. Stored Data icon**
  Lights up when the Stored Data function is turned on. Flashes when the Stored Data cannot be performed.
- **9. Wheel selection icon**
  Indicates the wheel currently selected.

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*1: In order to use this function, the optional power unit must be installed.
*2: In order to use this function, the optional download kit or power unit is required.
Installing the unit on your bicycle

Follow steps 1 through 5 to mount the TR100 on your bicycle.

1 Mount the bracket and HR receiver, and then attach the main unit
   - Mount the bracket to the handlebar, using the rubber pad as a spacer. Adjust the bracket to a position that provides good visibility and securely fasten it with the screw. Adjust the angle of the bracket and receiver so that each provides good visibility with the main unit attached. Then, tighten all screws securely.
   CAUTION!: Check periodically that the receiver screw is not loose in order to prevent the receiver from failing.
   - Attach the main unit to receiver by sliding it in from the front until a click is heard. To remove the main unit, push it forward while lowering the lever on the side of the receiver.

2 Mount the cadence magnet and cadence sensor
   - Mount the cadence magnet to the inner side of the left crank so that the magnet surface faces the sensor.
   NOTE: The center of the magnet should pass in front of the sensor marking line. The distance between the sensor and the magnet should be no more than 5 mm. After adjusting the magnet and cadence sensor, secure them tightly with nylon ties.
   CAUTION!: The nylon ties can only be used once, please install with care.

3 Mount the wheel magnet and speed sensor
   - Mount the wheel magnet to a spoke on the rear wheel so that the magnet surface faces the sensor.
   - Secure the speed sensor (long wire) onto the left chain stay with nylon ties.

NOTE:
When the crank is spinning, the center of the magnet should pass in front of the sensor marking line. The distance between the sensor and the magnet should be within 5 mm. After adjusting the magnet and sensor, secure tightly with nylon ties.

4 Secure the sensor wire
   Secure the wire onto the frame using the supplied nylon ties.

CAUTION!: Allow enough wire clearance in the area marked with to insure you can turn the handlebars all the way from side to side without pulling the wire.
5 Installing the remote buttons
Select the positions to mount the remote buttons according to your bicycle type.

**CAUTION !:**
- Install the remote button so that it does not interfere with shift or brake operation.
- On road bikes, be sure to wrap the handle bar tape over the button wires to prevent wire damage.

### When installing the remote button onto road bicycles
- Peel back the brake lever hoods as shown in the figure below.
- Fit the road bike button cover \(I\) to the remote button \(i\), and stick the button to the inside of the brake lever.
- Replace the brake hood cover and then adjust the button position.
- Firmly secure the button and cable to the handlebar with a nylon tie \(j\) before wrapping the bar with handlebar tape.

#### Example of installing onto drop (road) handlebars

![Example of installing onto drop (road) handlebars](image)

#### When installing the button onto a flat handle bar
- Install the proper button cover \(k\) on the remote button \(l\), and stick the button on an easily accessible position on the handlebar.
- Firmly secure the button \(m\) to the handlebar using the supplied nylon ties \(n\).

#### Example of installing onto flat handlebar

![Example of installing onto flat handlebar](image)

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### Main unit set-up
To use the CC-TR100, follow the steps below to set up the main unit.

#### 1. Pull out battery insulation sheet
Using a coin, open the battery cover of the main unit and pull out the insulation sheet, then close the battery cover.

![Insulation sheet](image)

#### 2. Formatting / restarting operations
Formatting is required during the initial set-up, and when all items of data are to be reset to zero.

**NOTE:** Formatting operation initializes all of the data in the memory. Be absolutely certain that you want to initialize all of the data.

When all items light up for a few seconds and formatting is completed, proceed to the heart rate sensor ID check screen.

**NOTE:** If there is little memory available, all screen items may remain on for approximately one minute.

#### Restarting operation
You must restart the computer when you replace the batteries, or when an error has been displayed.

When the RESTART button is pressed, all of the items light up for one second. You will then proceed to the heart rate sensor ID check screen.

**NOTE:** In the restart operation the date, total time, and total distance are retained, but the heart rate sensor ID check and time settings must be performed again.
3. Checking heart rate sensor ID
The heart rate sensor ID must be checked within five minutes after the formatting or restarting operation.

Before performing an ID check, mount the main unit to the HR receiver.

**NOTE:** Be sure to attach the main unit to the HR receiver. Signals from the heart rate sensor cannot be received by the main unit alone.

Place the heart rate sensor approximately 20-80 cm from the main unit, and press the reset button of the HR sensor for five seconds. The main unit will receive the signal from the heart rate sensor, and will start checking the heart rate sensor ID. When the check is completed, the ID number is displayed, followed by the next screen.

**NOTE:** If the HR sensor is placed too close to the main unit (within 20 cm), the main unit cannot receive the ID signal. If an ID check failed, change the distance, and reset the heart rate sensor.

If “E” appears on Display-2, or a HR sensor ID check failed even at a proper distance, the batteries may be dead. Replace the batteries of the heart rate sensor in the procedure shown on page 48, and format (restart) the computer again.

4. Selecting speed unit
The default speed unit is “km/h.”

By pressing the MODE-1 or MODE-2 button, you can switch the unit between “K (km/h)” and “M (miles/h).” Select the desired speed unit, and press the START/STOP/ENTER button. The selected unit is now accepted, and the tire circumference screen appears.

5. Tire circumference input
Enter the circumference of the tire of your bicycle in mm. 2096 mm (700 x 23 C) is preset as the initial value. To change the value, use the MODE-2 button to increase the value, and use the MODE-1 button to shift the digit selected.

Pressing the START/STOP/ENTER button and this is the last step in the initial set-up.

Adjustable range: 0100 to 3999 mm

**NOTE:**
- You can find your approximate tire size on the tire circumference chart on page 53.
- When a value outside the adjustable range is entered, an error indication appears on the screen and you cannot select the value.

6. Operation test
Test the functioning of the speed sensor, cadence sensor, and remote buttons with the main unit attached to the receiver.

1. Raise the rear wheel and spin the tire, and make sure that the speed (Display 1) shows a number greater than zero.
2. Turn the crank (backpedal) and make sure that the cadence (Display 3) shows a number greater than zero.

**NOTE:**
- If the screen remains at “0”, the relative positions of the magnets to the sensors may be inappropriate. Follow the instructions given in “Installing the unit on your bicycle”, on page 8.
- If an ID check failed, change the distance, and reset the heart rate sensor.

If “E” appears on Display-2, or a HR sensor ID check failed even at a proper distance, the batteries may be dead. Replace the batteries of the heart rate sensor in the procedure shown on page 48, and format (restart) the computer again.

**Completion of initial set-up**
When the setup is completed, set the date and time as described in “Configuring main unit” on page 28.
Heart Rate Function

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

NOTE: Heart rate sensor reception range is approximately 20 cm and 80 cm.

Before wearing the heart rate sensor

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

NOTE: • Wear the heart rate sensor in the center of the chest. The rubber part of the electrode pad must be in direct contact with the skin.
  • 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.
  • Using the heart rate sensor together with other cordless devices may cause interference with the data transmission.

Wearing the heart rate sensor

Besides using the conventional chest strap, it can be worn directly attached to a sports bra using an optional neck strap.

NOTE: • Ensure that the rubber part of the electrode pad is in close or direct contact with the body.
  • Some sports bras cannot be worn with the heart rate sensor.
  • Wearing the heart rate sensor on top of your undershirt may produce measurement errors. Measurement errors may also occur if the skin is exceptionally dry. To avoid errors, moisten the rubber part of the electrode pad.

Using the HR strap

1. Adjust the length of the HR strap to fit your chest size. Fastening the strap too tightly may cause discomfort.
2. Fasten the hook of the transmitter.
3. Insert the electrode pads (one on the left and the other on the right) between the HR strap and the body, and secure the electrode pad onto the HR strap using the hook. Ensure that the rubber part of the electrode pad is in direct contact with the body.

When a sports bra is worn

NOTE: Wearing the heart rate sensor on a sports bra requires the optional neck strap.
1. Attach the strap to the transmitter as shown in the picture below, looping the strap through the hole in the transmitter hook.
2. Wearing the neck strap, adjust the length to bring the transmitter to the correct height.
3. Attach the electrode pads to the sports bra using the hook on the pad, making sure the rubber part of the electrode pad itself is in direct contact with the body.

Heart rate sensor test

1. Wear the heart rate sensor.
2. Mount the main unit to the HR receiver, and stand so that the HR transmitter is within 20-80 cm.

NOTE: Be sure to attach the main unit to the HR receiver. Signals from the heart rate sensor cannot be received by the main unit alone.
3. When the ❤️ icon flashes and the heart rate is indicated on Display-2, the heart rate sensor is operating properly.

NOTE: • The heart rate sensor will start transmission approximately three seconds after it has stabilized. Therefore, a short time lag occurs before the ❤️ icon begins to blink.
  • If the ❤️ icon does not flash, move the electrode pad little by little to find the optimum position for the heart rate reception. Dryness may make measurement difficult. Moistening the electrode pad allows easier measurement.
**Basic operations**

TR100 measures data when the bicycle starts moving. You can view various data by pressing the MODE-1 and MODE-2 buttons. You can also record lap data up to 199 laps or intervals.

**Main computer functions**

The main screen has 5 windows which display different types of data. Pressing the MODE-1 and the MODE-2 buttons change the displayed information, as shown in the illustration. The displayed items of data are as follows:

- **Display-1** ........ Displays the current speed.
- **Display-2** ........ Displays heart rate data. (Press MODE-1 to cycle through data shown on Display-3.)
- **Display-3** ........ Displays cadence data. (Press MODE-1 to cycle through data shown on Display-2.)
- **Display-4** ........ Displays the calorie consumption in kcal.
  When the power unit is used, power-related data is displayed. For details, see the instruction manual for the power unit.
- **Display-5** ........ Displays other data. (Use MODE-2 to cycle through this data.)

**NOTE:** For more information on displayed items of data, see “Measured data” on page 20.

**Starting / stopping main measurement**

When you begin riding, the elapsed time starts and the speed unit will flash. The total distance, maximum speed, maximum heart rate and maximum cadence are updated independently of starting/stopping of the main measurement.

**NOTE:** To manually start and stop measurement using the START/STOP/ENTER button, see “Auto-mode” on page 30 for instruction on turing on or off the auto-mode.

**Switching displayed data**

**NOTE:** For details of each data, see “Measured data” on page 20.

- **Switching data on Display-2 and Display-3**

  Pressing MODE-1 switches data on both Display-2 and Display-3.

- **Switching data on Display-5**

  Pressing MODE-2 switches the data on Display-5.

When the MODE-1 button is held for two seconds, Display-3 shows the total number of pedal revolutions. The data on Display-2 does not change.

**NOTE:** When the optional power unit is used, the MODE-1 button also switches Display-4 together with other displays. For details, see the instruction manual for the power unit.
**Lap**
Pressing the lap button during data measurement records lap time/average, split time/trip distance, average lap heart rate, and average lap cadence for up to 199 intervals. Recorded lap data can be recalled on the lap viewing screen. (See page 26.)

**Backlight**
Pressing the LIGHT button illuminates the displays for about three seconds.

**Second measurement**
The second measurement is another measuring method, different from the main measurement described on page 16. A second elapsed time, trip distance, and average speed can be recorded independently of the main measurement.

- **How to switch to the second measurement:**
  When the MODE-2 button is pressed for two seconds, Display-5 switches to the second measurement screen with the elapsed time “TM-2” displayed on the top and the trip distance “DST-2” displayed at the bottom.
  Each press on the MODE-2 button switches the bottom display between the elapsed distance DST-2 and the average speed AVS-2.
  When the MODE-2 button is pressed for two seconds, the system returns to the main measurement.

- **Starting/Stopping the second measurement**
  With the second measurement icon illuminated, press the START/STOP/ENTER button to start or stop measurement.

**Resetting operation**
Follow the directions below for resetting selected data to zero.

**NOTE:** You cannot perform the resetting operation on the lap screen.

1. **Resetting all measured items of data**
To zero all data except for “TTm (total time),” “Odo (total distance),” “date” and “time,” and including the lap data and time in the heart rate and cadence zones, simultaneously press the START/STOP/ENTER, MODE-1 and MODE-2 buttons.

**NOTE:** When resetting is required to change the settings on the menu screen, reset all measurements.

2. **Resetting the main measurement data**
To zero the main measurement data except for “TTm (total time),” “Odo (total distance),” “date” and “time,” and including the lap and the time in the heart rate zone and cadence zone, simultaneously press the START/STOP/ENTER and MODE-1 buttons while the main measurement is displayed.

3. **Resetting the second measurement data**
To reset to zero all erasable data in the second measurement display only, simultaneously press START/STOP/ENTER and MODE-1 while the second measurement icon is on.

**Power-saving function**
When the computer has not received any data for 10 minutes, the main unit will enter the power-saving mode, in which only the clock is displayed (note illustration).
When the computer receives a speed or cadence signal, or any of the buttons is pressed, the power-saving mode is cancelled, and the normal display returns.

**NOTE:** The power-saving mode is not cancelled if the computer receives a heart rate signal.
## Measured data

**NOTE:** You must wear the heart rate sensor to perform the heart rate measurement.

### Display-1 and 4

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Measuring range</th>
</tr>
</thead>
<tbody>
<tr>
<td>⌁</td>
<td>Current speed</td>
<td>0.0 (4.0) to 199.9 km/h [0.0 (3.0) to 125.0 mph (mile/h)]&lt;br&gt;(When the tire circumference B is selected, the lowest measurable speed is 3.0 km/h [2.0 mph].)</td>
</tr>
<tr>
<td>kcal</td>
<td>Calorie Consumption *1</td>
<td>0 to 9999 kcal</td>
</tr>
<tr>
<td>2 Sec.</td>
<td>Total Pedal Count</td>
<td>0 to 99990 rotations</td>
</tr>
</tbody>
</table>

### Display-2 and 3

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Measuring range</th>
</tr>
</thead>
<tbody>
<tr>
<td>🏊‍♂️</td>
<td>Heart rate</td>
<td>0 (30) to 260 bpm</td>
</tr>
<tr>
<td>🏃‍♂️</td>
<td>Cadence</td>
<td>0 (20) to 299 rpm</td>
</tr>
<tr>
<td>🏞️</td>
<td>Average heart rate</td>
<td>0 to 260 bpm</td>
</tr>
<tr>
<td>🏞️</td>
<td>Average cadence</td>
<td>0 to 299 rpm</td>
</tr>
<tr>
<td>🚊</td>
<td>Maximum heart rate</td>
<td>0 (30) to 260 bpm</td>
</tr>
<tr>
<td>🚊</td>
<td>Maximum cadence</td>
<td>0 (20) to 299 rpm</td>
</tr>
<tr>
<td>🚊</td>
<td>Total Pedal Count</td>
<td>When the count exceeds 9999, the “x10” appears; 0 to 99990 rotations</td>
</tr>
</tbody>
</table>

*1: When the optional power unit is used, power related data is displayed. For details, see the instruction manual for the power unit.

### Measured data

- **Current speed**
  - Indicates the current speed, updated every second.
  - Measuring range: 0.0 (4.0) to 199.9 km/h [0.0 (3.0) to 125.0 mph (mile/h)].
- **Calorie Consumption**
  - Indicates the trip calorie consumption, based on the recorded heart rate.
  - Measuring range: 0 to 9999 kcal.
- **Average heart rate**
  - Indicates the average heart rate. When the elapsed time exceeds 100 hours, [E] appears indicating further measurement is impossible.
  - Measuring range: 0 to 260 bpm.
- **Average cadence**
  - Indicates the average cadence. When the pedaling count exceeds 100,000 or when the elapsed time exceeds 100 hours, [E] appears indicating further measurement is impossible.
  - Measuring range: 0 to 299 rpm.
- **Maximum heart rate**
  - Indicates the maximum heart rate.
  - Measuring range: 0 (30) to 260 bpm.
- **Maximum cadence**
  - Indicates the maximum cadence.
  - Measuring range: 0 (20) to 299 rpm.
- **Total Pedal Count**
  - Indicates the total pedal count.
  - When the count exceeds 9999, the “x10” appears.
  - Measuring range: 0 to 99990 rotations.

### NOTE:

- You must wear the heart rate sensor to perform the heart rate measurement.
- When the heart rate is below 90 bpm, calorie consumption is not updated. When it exceeds 9999, “x10” appears.

### kcal

- Calorie Consumption *1
- Indicates the trip calorie consumption, based on the recorded heart rate.
- Measuring range: 0 to 9999 kcal.
LAP screen display

| LAP No. | Lap number | Indicates the current lap number. The lap number will always be indicated when viewing lap data. |
| LAP A | Average lap heart rate | Indicates the average heart rate for that lap. Indicated when viewing lap data. |
| LAP A | Average lap cadence | Indicates the average cadence for that lap. Indicated when viewing lap data. |
| LAP | Lap calorie consumption *1 | Indicates the estimated calorie consumption for a given lap. Indicated when viewing lap data. |
| LAP TM | Lap time | Indicates the lap time. Display alternates between the lap time and the split time. Appears during the lap recording (for about five seconds) and the viewing of lap data. |
| LAP AVS | Average lap speed | Indicates your average lap speed; appears alternating with the lap distance. Appears during the lap recording (for about five seconds) and the viewing of lap data. |
| S LAP TM | Split time | Indicates the total time elapsed from the start of the exercise. Display alternates between the split time and the lap time. Appears during the lap recording (for about five seconds) and the viewing of lap data. |
| S LAP DST | Trip lap distance | Indicates the lap distance. Display alternates between the lap distance and the average lap speed. Appears during the lap recording (for about five seconds) and the viewing of lap data. |

*1: When the optional power unit is used, power-related data is displayed. For details, see the instruction manual for the power unit.
Functions of main unit

Heart rate zone / Cadence zone
You can set target heart rate and cadence zones and view the time in zone data at any time. The zone value will flash when the target zones are on and the value is out of your target zone. An alarm will sound if the sound feature is turned on.

- Heart rate zone alert
Four heart rate zones can be set with range and target. The range of each zone may overlap. The zone value will flash when the target zones are on and the value is out of your target zone. An alarm will also sound if the sound feature is turned on. You can check the time in and out of the heart rate zones, set the target and change the range in “Heart rate zone (page 36)” on the menu screen for each zone.

<table>
<thead>
<tr>
<th>Heart rate</th>
<th>60</th>
<th>80</th>
<th>100</th>
<th>120</th>
<th>140</th>
<th>160</th>
<th>180</th>
<th>200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zone.1</td>
<td>100 - 120 bpm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zone.2</td>
<td>120 - 140 bpm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zone.3</td>
<td>140 - 160 bpm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zone.4</td>
<td>160 - 180 bpm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Cadence

- Cadence zone alert
TR100 has one cadence zone besides the four heart rate zones. The zone value will flash when the target zones are on and the value is out of your target zone. An alarm will also sound if the sound feature is turned on. You can check the time in the cadence zone, set the target and change the range in “Cadence zone (page 34)” on the menu screen.

Auto-mode (auto-start / stop)
When the Auto-mode function is on, the computer automatically starts and stops measuring with the movement of the wheel. When the auto-mode function is turned on, an (AT) icon appears on the display.

Pace functions
The pace arrow icons on Displays 1, 2 and 3 indicate whether the current speed, heart rate and cadence are above or below the respective average values.

| : Appears when the speed (heart rate, cadence) is above the average. |
| : Appears when the speed (heart rate, cadence) is below the average. |
| : Appears when the speed (heart rate, cadence) equals the average. |
| Not illuminating : When the speed (heart rate, cadence) is zero. |

Current speed Heart rate

Target training zone Target alert setting

Cadence

NOTE: When both the heart rate and the cadence are turned on and go out of the respective zones, the heart rate and cadence values flash.
**Lap function**

- **Recording lap data**
  Pressing the Lap button on the main display while riding records lap data. Immediately after recording, the lap number is displayed, alternating between ‘lap time’ / ‘average lap speed’ and ‘split time’ / ‘lap distance’.
  **NOTE:** Up to 199 laps can be recorded.
  - Lap times cannot be shorter than 5 seconds; pressing the LAP button consecutively within 5 seconds will not result in a new lap. New laps cannot be recorded when viewing recorded lap data.
  - The lap function does not record lap intervals longer than 100 hours or 9999.99 (six 9’s) km.

**Data storage function**

Data storage allows you to create data files that are downloadable to your personal computer, allowing for analysis of recorded training data. Data recorded includes speed, heart rate, cadence, trip distance, and elapsed time. The data is recorded in time intervals (memory timing) selected by the user.

- **When Data Storage is on, the icon will be on (the default setting is on).** Recorded data is stored in a data file as soon as initial set-up has been performed and data is being measured.
- **Up to 99 files can be stored within the memory capacity of the TR100. These files can be downloaded to a personal computer using the download kit (optional accessory).**

- **Without the download kit**
  The default setting of data storage in ‘on’. However, in order to download to a personal computer requires the optional download kit. If you do not wish to download data to your personal computer, be sure to turn the Data Storage setting off on the menu screen to avoid unnecessary memory consumption (see page 41).

**With the download kit:**

Follow the steps below for data storage.

1. **Set the data recording interval for data storage**
   See “Data storage” on page 41.

2. **View and delete files when finished to manage remaining memory**
   See “Data file” on page 39.

3. **Record and store data**
   Up to 99 data files can be stored until the remaining memory is 0%.
   - When the remaining memory is at 0% while data is being recorded, the icon will flash, alerting full memory. Delete old data files to use more memory.
   - Before recording and storing data, select an appropriate recording interval for sufficient memory space.

4. **View stored data**
   See “Checking data file” on page 39.

5. **Download to personal computer**
   See “PC Link” on page 42.

**Lap function**

- **Reading lap data**
  Press the MODE-1 and MODE-2 buttons simultaneously to view recordad lap data. The lap recall screen displays the most recent laps first. Use MODE-1 or MODE-2 buttons to cycle through the laps. Pressing MODE-1 and MODE-2 simultaneously will exit from the lap recall screen.
  **NOTE:**
  - The lap recall screen will not appear if there is no lap data recorded.
  - The recorded lap data is deleted when the main measurement data or all measurement data is reset.
  - Leaving the lap viewing screen idle for one minute will return automatically to the measuring screen.

- **Lap time and split time**
  The lap time indicates the time elapsed between two consecutive pressings of the LAP button.
  The split time indicates the total elapsed time from the start of the exercise.
Configuring main unit

When the MENU button is pressed with the Measuring screen displayed, the menu screen appears. The menu includes a total of 17 screens as shown in the figure below: the main unit settings can be checked or changed using these screens.

The basic information on how to use the menu screen is as follows:
1. When the Measuring screen is displayed, press the MENU button to switch to “Wheel circumference” of the menu screen.
2. Press the MODE-1 or MODE-2 button until desired menu screen appears.
3. Press the START/STOP/ENTER button to change the settings.
   NOTE: For information on how to change various settings, refer to the relevant page as shown below.
4. When the setting change is completed, press the START/STOP/ENTER button to confirm the setting and return to the menu screen.
   NOTE: Make sure to press the START/STOP/ENTER button each time the setting is changed. Pressing the MENU button cancels the setting.
5. Press the MENU button to return to the Measuring screen.
   NOTE: After one minute idle, menu screen will return to the Measuring screen.

Menu screens at a glance

Wheel selection

You can choose between two wheels, A and B. The initial value for tire size (circumference) B is 2050 mm.

NOTE: Before Wheel circumference, it is necessary to stop the measurement and reset all measured data.
• Not resetting all measured data causes the “PLEASE reset” message to be displayed, making selection impossible.

Tire circumference input

You can change the tire circumference selected in “Wheel selection” (wheels A or B). You can view data, but cannot alter it while the bicycle is in motion.

NOTE: Before tire circumference input, it is necessary to stop the measurement and reset all measured data.
• Not resetting all measured data causes the “PLEASE reset” indication to be displayed, making selection impossible.
• Specifying a numerical value outside the setting range causes the “Error” indication to be displayed, making selection impossible.
**Auto-mode**

Set auto-mode on/off. (For auto-mode information, see page 25)
The auto-mode function is initially set to ON.

**Date**

Select one of the following date display formats: Year, Month, Day (ymd); Day, Month, Year (dmy); or Month, Day, Year (mdy).

Date cannot be changed while the bicycle is in motion.

**Notice:**
- Press and hold the MODE-2 button to speed up the progression of numbers.
- The figure below shows a “Year, Month, Day” display format. When changing the display format, the order of date also changes.

**Sound**

1. Alarm sound setup

   An alarm will alert when the heart rate zone (or Cadence zone) target is turned on, and the sound icon will illuminate.

   **Notice:** The HR and cadence zone alarms are described here:
   - HR Zone: one beep
   - Cadence Zone: two beeps
   - HR and Cadence zones: three beeps

2. Button operation sound setup

   Set button operation sound on/off.

   In the initial setup, both the alarm sound and the button operation sound are set to ON.

**Setting clock**

This function is used to set the clock, and to choose between 12- and 24-hour modes.

Clock setting cannot be changed while the bicycle is in motion.

**Notice:** Press and hold the MODE-2 button to speed up the progression of numbers.
Manual odometer input
Enter any numeric value as the “odometer value (Odo)”. This allows the input of past data even when data has been erased by formatting or when replacing from another cycle computer. Odometer value cannot be changed while the bicycle is in motion.

Speed unit
Switch between speed units between km/h and mph. After switching, the odometer value is converted into the new unit automatically.

NOTE: Before changing units, you must stop the bicycle and reset all measured data.

Manually odometer input menu screen

For the basic information on how to use the menu screen, refer to page 28.

Defining remote button setting
Specify the functions to be assigned to buttons 1 and 2. In the initial setup, button 1 is assigned to MODE-1 and button 2 to MODE-2.

For the basic information on how to use the menu screen, refer to page 28.
Defining remote button menu screen

For the basic information on how to use the menu screen, refer to page 28.

**Cadence zone**
You can check your time in cadence zone, turn the cadence zone on/off, and change the cadence zone range.
On the menu screen, Display 3 indicates the lower limit of the zone range while Display 4 indicates the upper limit.

- **Checking the time in target zone and set target**
  Pressing the START/STOP/ENTER button displays the time in the cadence zone in the upper line of Display-5.
  **NOTE:** Resetting the main measurement returns the time in zone to zero.
The target setting status is displayed at the bottom of the display with either “on” or “off”.
The target is set at OFF in the initial setup.

**Changing the cadence zone**
When MODE-1 button is pressed, the lower limit and upper limit flash in alternating order. When MODE-2 button is pressed while lower limit or upper limit is flashing, the first digit will begin to flash.
To change a value and shift the digit, see the illustrations below. After entering the desired value, press the MODE-1 button to cause all the numeric characters to flash, and press the START/STOP/ENTER button to finish the setting operation.
In the initial setup, the lower limit is set at 80 and the upper at 120.
**NOTE:** To change the upper/lower limits, the computer must be reset while the bicycle is not in motion. Press the MODE-1, MODE-2, and START/STOP/ENTER buttons simultaneously to reset all measurements.
- Not resetting all measured data causes the “PLEASE rESEt” message to be displayed, making selection impossible.
- When a lower limit value greater than the upper limit value is entered, the upper limit value is automatically adjusted to the value of the lower limit value plus one. When a wrong upper limit value is entered, the same adjustment is made.
Heart rate zone
You can select the HR zone, check the time in zone, turn the HR target on/off, and change the HR zone ranges.

• Checking the time in target zone
You can check the time in HR zone by pressing START/STOP/ENTER while on the menu screen.
There are four heart rate zones. The zone number is displayed with its lower and upper limits, time in zone, and target setting status. To switch the zone, press the MODE-2 button.

NOTE: When the computer is reset, all data for time in zones is reset to zero.

• Turning on/off the target
You can select whether or not to set a zone as a target (alert setting in range) by pressing MODE-1.

NOTE: Targets can be set for more than one zone.
When using more than one target zone, the computer will only alert you if you are outside ALL your target zones.

Changing the heart rate zone
Display 3 indicates the zone lower limit while Display 4 indicates the upper limit.
When MODE-1 button is pressed, the lower and upper limits flash in alternating order.
When MODE-2 button is pressed while upper/lower limit is flashing, the first digit will begin to flash.
To change a value and shift the digit, see the illustrations below. After entering the desired value, press the MODE-1 button to cause all the numeric characters to flash, and press the START/STOP/ENTER button to finish the setting operation.

The default settings are shown below:
Zone 1: Lower - 100 bpm; Upper - 120 bpm
Zone 2: Lower - 120 bpm; Upper - 140 bpm
Zone 3: Lower - 140 bpm; Upper - 160 bpm
Zone 4: Lower - 160 bpm; Upper - 180 bpm

NOTE: To change the upper or lower limits, all data must be reset to zero and the bicycle cannot be in motion. Press MODE-1, MODE-2, and START/STOP/ENTER button simultaneously to reset all data.
• Not resetting all measured data causes the “PLEASE rESEt” message to be displayed, making selection impossible.
• When a lower limit value greater than the upper limit value is entered, the upper limit value is automatically adjusted to the value of the lower limit value plus one. When a wrong upper limit value is entered, the same adjustment is made.

The range of each zone may overlap.

Changing the lower limit value

Changing the upper limit value

For the basic information on how to use the menu screen, refer to page 28.
Heart rate sensor ID

This function allows the ID signal transmitted by the heart rate sensor to be received and checked.

Before checking HR sensor ID, mount the main unit to the HR receiver.

**NOTE:** Be sure to attach the main unit to the HR receiver. Signals from the heart rate sensor cannot be received by the main unit alone.

Within 5 minutes of pressing the START/STOP/ENTER button, place the HR sensor approximately 20-80 cm from the main unit and press the reset button on the HR sensor for five seconds to transmit the ID signal.

When the main unit receives the ID signal, the ID check has been completed.

You can view the ID number but cannot reset it while the bicycle is in motion.

**NOTE:**
- Failure to receive the ID signal within five minutes or the pressing of the START/STOP/ENTER button cancels the heart rate sensor ID set mode, leaving the ID as it was.
- The minimum transmission of the heart rate sensor is 20 cm. The signal will be too strong to perform the heart rate sensor ID check if the chest strap is within 20 cm of the main unit.
- When two or more users with this unit ride side by side with the same ID, interference can occur and correct measurement may be impeded. In such a case, change the ID using the following the steps below:

1. Place the HR sensor and main unit within 80 cm and press the reset button on the HR sensor for five seconds to transmit the ID signal.
2. The ID check has been completed.

You can view the ID number but cannot reset it while the bicycle is in motion.

**NOTE:**
- Failure to receive the ID signal within five minutes or the pressing of the START/STOP/ENTER button cancels the heart rate sensor ID set mode, leaving the ID as it was.
- The minimum transmission of the heart rate sensor is 20 cm. The signal will be too strong to perform the heart rate sensor ID check if the chest strap is within 20 cm of the main unit.
- When two or more users with this unit ride side by side with the same ID, interference can occur and correct measurement may be impeded. In such a case, change the ID using the following the steps below:

1. Place the HR sensor and main unit within 80 cm and press the reset button on the HR sensor for five seconds to transmit the ID signal.
2. The ID check has been completed.

You can view the ID number but cannot reset it while the bicycle is in motion.

**NOTE:**
- Failure to receive the ID signal within five minutes or the pressing of the START/STOP/ENTER button cancels the heart rate sensor ID set mode, leaving the ID as it was.
- The minimum transmission of the heart rate sensor is 20 cm. The signal will be too strong to perform the heart rate sensor ID check if the chest strap is within 20 cm of the main unit.
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1. Place the HR sensor and main unit within 80 cm and press the reset button on the HR sensor for five seconds to transmit the ID signal.
2. The ID check has been completed.

You can view the ID number but cannot reset it while the bicycle is in motion.

**NOTE:**
- Failure to receive the ID signal within five minutes or the pressing of the START/STOP/ENTER button cancels the heart rate sensor ID set mode, leaving the ID as it was.
- The minimum transmission of the heart rate sensor is 20 cm. The signal will be too strong to perform the heart rate sensor ID check if the chest strap is within 20 cm of the main unit.
- When two or more users with this unit ride side by side with the same ID, interference can occur and correct measurement may be impeded. In such a case, change the ID using the following the steps below:

1. Place the HR sensor and main unit within 80 cm and press the reset button on the HR sensor for five seconds to transmit the ID signal.
2. The ID check has been completed.

You can view the ID number but cannot reset it while the bicycle is in motion.

**NOTE:**
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You can view the ID number but cannot reset it while the bicycle is in motion.

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1. Place the HR sensor and main unit within 80 cm and press the reset button on the HR sensor for five seconds to transmit the ID signal.
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1. Place the HR sensor and main unit within 80 cm and press the reset button on the HR sensor for five seconds to transmit the ID signal.
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You can view the ID number but cannot reset it while the bicycle is in motion.

**NOTE:**
- Failure to receive the ID signal within five minutes or the pressing of the START/STOP/ENTER button cancels the heart rate sensor ID set mode, leaving the ID as it was.
- The minimum transmission of the heart rate sensor is 20 cm. The signal will be too strong to perform the heart rate sensor ID check if the chest strap is within 20 cm of the main unit.
- When two or more users with this unit ride side by side with the same ID, interference can occur and correct measurement may be impeded. In such a case, change the ID using the following the steps below:

1. Place the HR sensor and main unit within 80 cm and press the reset button on the HR sensor for five seconds to transmit the ID signal.
2. The ID check has been completed.

You can view the ID number but cannot reset it while the bicycle is in motion.
• **Deleting a data file**
  Display the data file number that you wish to delete and press MODE-1 and START/STOP/ENTER buttons simultaneously. Only the displayed file will be deleted.
  
  **NOTE:** When a data file is deleted, the numbering sequence of the remaining files is advanced.

• **Deleting all data files**
  Display “Data file” on the menu screen, and press the MODE-1 and START/STOP/ENTER buttons simultaneously to delete all data files.
  
  A message will appear to confirm whether or not you wish to delete all data files. To delete them press MODE-1 and START/STOP/ENTER buttons simultaneously again.
  
  **NOTE:** To cancel deleting all data files, simply press MODE-1 or MODE-2.

---

**Data storage**

You can select the recording interval and turn the data storage on or off.

For data storage function, see “data storage function” on page 27.

**NOTE:**
- Before selecting recording interval or turning data storage on or off, it is necessary to stop the measurement and reset all measured data.
- Not resetting all measured data causes the “PLEASE rESEt” message to be displayed, making selection impossible.

• **Selecting recording interval**
  Specify the interval of memory recording in seconds.
  
  Display 1 indicates the timing in seconds, and Display-5 indicates how much data can be stored with the remaining memory, in the specified memory interval.
  
  The maximum data storage times are listed below with their respective intervals:
  
  - 1 second intervals: .......... Maximum 5 hours
  - 5 seconds: ....................... Max. 25 hours
  - 10 seconds: ..................... Max. 50 hours
  - 30 seconds: ..................... Max. 150 hours
  
• **Turning data storage on/off**
  When data storage is on, data files can be created, and the icon on the main display will light up.
  
  **NOTE:**
  - When the remaining memory is 0%, or 99 files have already been stored, further data storage cannot be performed.
  - When the remaining memory indicates 0% while the data storage is in progress, a data file is created at that point. Measurement after that is switched to the regular measurement from the data storage. When the regular measurement is performed even though the data storage is turned on, the icon flashes.

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**Deleting a data file**

Display the data file number that you wish to delete and press MODE-1 and START/STOP/ENTER buttons simultaneously. Only the displayed file will be deleted.

**NOTE:** When a data file is deleted, the numbering sequence of the remaining files is advanced.

**Deleting all data files**

Display “Data file” on the menu screen, and press the MODE-1 and START/STOP/ENTER buttons simultaneously to delete all data files.

A message will appear to confirm whether or not you wish to delete all data files. To delete them press MODE-1 and START/STOP/ENTER buttons simultaneously again.

**NOTE:** To cancel deleting all data files, simply press MODE-1 or MODE-2.
For the basic information on how to use the menu screen, refer to page 28.

**PC Link**

You can specify settings for connection of TR100 with your personal computer. By using the optional download kit, you can download and also upload data. In addition, with the power unit you can perform real-time online measurement while connected to your personal computer.

**NOTE:** For details, see the instruction manuals for optional download kit and power unit.

**• PC Online**

Mount the main unit to the download kit while connected to a personal computer.

When the START/STOP/ENTER button is pressed, “PC Online” appears, indicating that communication with download software is enabled.

Upload or download data with the attached e-Train Data™ Ver.3 software.

**NOTE:** When downloading is completed, the PC Link menu screen reappears. It may take up to 5 minutes to download data. Be sure not to break the connection while downloading, as the data will be lost.

Downloadable items:...
- Data files

Uploadable items:...
- Recording interval; HR zone range; Cadence zone range; tire circumference; auto mode; sound; date; time; and speed unit. These can all be specified on your personal computer using e-Train Data™ Ver.3.

**NOTE:** If “PC-Line Error” appears and the menu screen reappears, connection with the personal computer is not properly set up.

The LINK icon flashes while data transfer is in progress.

**PC Link menu screen**

- Connect to the computer
- After 10 seconds
- S/S/E Cancel

When downloading is completed, the PC Link menu screen reappears automatically.

**Online power measurement**

When “On” is selected for “Power select” on the menu screen, the “Online Power” menu is added. This menu can only be used when the optional power unit is installed. For details, see the instruction manual for the power unit.

**NOTE:** If the original menu screen reappears after the “Error” message has been displayed, the power unit may be connected incorrectly, or pedaling may be carried out during the calibration. For further information, refer to the manual provided with the optional power unit.

**NOTE:** If “PC-Line Error” appears and the menu screen reappears, connection with the personal computer is not properly set up.

The LINK icon flashes while data transfer is in progress.

**Power select**

This menu should be set when the optional power unit is used.

If the setting is turned on, calibration starts to check whether or not the power unit is connected. After calibration has been completed, the software of the main unit is available for the power unit.

The default setting for the power select menu is “Off”.

**NOTE:** If the original menu screen reappears after the “Error” message has been displayed, the power unit may be connected incorrectly, or pedaling may be carried out during the calibration. For further information, refer to the manual provided with the optional power unit.

**NOTE:** If the original menu screen reappears after the “Error” message has been displayed, the power unit may be connected incorrectly, or pedaling may be carried out during the calibration. For further information, refer to the manual provided with the optional power unit.

**Power select menu screen**

- Online Power measurement

Click DOWNLOAD button of download software to begin downloading

When downloading is completed, the PC Link menu screen reappears automatically.

**Online power measurement**

When “On” is selected for “Power select” on the menu screen, the “Online Power” menu is added. This menu can only be used when the optional power unit is installed. For details, see the instruction manual for the power unit.

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**Power select menu screen**

- Online Power measurement

Click DOWNLOAD button of download software to begin downloading

When downloading is completed, the PC Link menu screen reappears automatically.

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**Power select menu screen**

- Online Power measurement

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When downloading is completed, the PC Link menu screen reappears automatically.

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**Power select menu screen**

- Online Power measurement

Click DOWNLOAD button of download software to begin downloading

When downloading is completed, the PC Link menu screen reappears automatically.

**Online power measurement**

When “On” is selected for “Power select” on the menu screen, the “Online Power” menu is added. This menu can only be used when the optional power unit is installed. For details, see the instruction manual for the power unit.

**NOTE:** If the original menu screen reappears after the “Error” message has been displayed, the power unit may be connected incorrectly, or pedaling may be carried out during the calibration. For further information, refer to the manual provided with the optional power unit.

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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 (%) = \( \frac{(\text{Target heart rate}) - (\text{Resting heart rate})}{(\text{Maximum heart rate}) - (\text{Resting heart rate})} \times 100 \)

- Target heart rate = \( (\text{Maximum heart rate} - \text{Resting heart rate}) \times \frac{\text{Training level} \times 100}{100} + \text{Resting heart rate} \)

- 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: \((220 - \text{age})\) or \((204 - 0.69 \times \text{age})\).

For more precise figure, consult a training specialist.
Fluctuation in the heart rate indicator, for example 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, follow the instructions for wearing the heart rate sensor (page 14).

Moving the main unit away from your body will prevent measurement of the heart rate.

- Is the surrounding temperature low (below zero centigrade/32 farenheit)?
  - Temperatures below freezing may result in slower screen response.

The battery of the heart rate sensor or the main unit is used up.

- Replace it with a new battery (CR2450). After replacement, be sure to perform the restarting operation (page 11), check the HR sensor ID, and set the date and time.

Moving the main unit away from your body will prevent measurement of the heart rate.

- Display motion becomes slower.
  - Temperatures below freezing may result in slower screen response.

Pressing the LIGHT button dims the display.

- The remaining battery capacity for the main unit is very weak.
  - Replace it with a new battery (CR2450) as soon as possible. After replacement, be sure to perform the restarting operation (page 11), check the HR sensor ID, and set the date and time.

Pressing the LIGHT button dims the display.

- The remaining battery capacity for the main unit is weak.
  - Replace it with a new battery (CR2450) immediately. After replacement, be sure to perform the restarting operation (page 11), check the HR sensor ID, and set the date and time.

Display motion becomes slower.

- Display motion becomes slower.
  - Temperatures below freezing may result in slower screen response.

The battery for the heart rate sensor or the main unit is used up.

- Replace it with a new battery (CR2450). After replacement, be sure to perform the restarting operation (page 11), check the HR sensor ID, and set the date and time.

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  - Replace it with a new battery (CR2450) immediately. After replacement, be sure to perform the restarting operation (page 11), check the HR sensor ID, and set the date and time.
Replacing battery

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

### Main unit
Battery life: Approx. 3 months (if used for 1 hour a day)
* The battery life shown in this manual is not definitive and it varies depending on the use environment.
Replace the old batteries with new lithium batteries (CR2450). Place two batteries with the + sign up, as shown in the illustration, and firmly close the battery cover.

**NOTE:** After replacement, be sure to perform the restarting operation (page 11), check the HR sensor ID (page 31), and set the date and time (page 31).

### Heart rate sensor
Battery life: Approx. 6 months when worn for 1 hour per day.
Using a coin or similar object, turn and remove the battery cover on the surface of the heart rate sensor transmitter. Replace used battery with a new lithium battery (CR2032). Place battery with the + sign upwards as shown in the illustration, and firmly close the battery cover.

**NOTE:**
- The heart rate sensor consumes power when worn. Remove the heart rate sensor whenever measurement is not required.
- When replacing the batteries in the sensor it is critical to correctly seat the O-ring seal. Failure to do so may result in water leakage and sensor malfunction.
- After replacement, be sure to check the HR sensor ID again (page 38).

---

### Standard accessories

<table>
<thead>
<tr>
<th>Parts kit</th>
<th>169-9150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bracket kit</td>
<td>169-9153</td>
</tr>
<tr>
<td>SPD/CDC sensor</td>
<td>169-9156</td>
</tr>
<tr>
<td>Remote button kit</td>
<td>169-9205</td>
</tr>
<tr>
<td>Heart beat sensor kit</td>
<td>169-9271</td>
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### Optional accessories

<table>
<thead>
<tr>
<th>Neck strap</th>
<th>169-9277</th>
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</thead>
<tbody>
<tr>
<td>Magnet for composite wheel</td>
<td>169-9760</td>
</tr>
<tr>
<td>Hi-Power Whell Magnet</td>
<td>169-9690</td>
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### Spare accessories

<table>
<thead>
<tr>
<th>HR Strap</th>
<th>169-9274</th>
</tr>
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<tbody>
<tr>
<td>Wheel magnet</td>
<td>169-9691</td>
</tr>
<tr>
<td>Cadence magnet</td>
<td>169-9765</td>
</tr>
<tr>
<td>Lithium battery (CR2450)</td>
<td>169-9180</td>
</tr>
<tr>
<td>Lithium battery (CR2032)</td>
<td>166-5150</td>
</tr>
</tbody>
</table>

### Maintenance

Daily care of the TR100
- When the main unit, HR 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 a dry cloth. Do not use solvents such as paint thinner or rubbing alcohol as they may damage the surfaces.
- The fastening belt absorbs sweat easily, and leaving it as such is unsanitary. Wash with a neutral detergent.
- Regularly check that the positions of the magnets and sensors are correct.
Specifications

Display functions

Display-1

Current speed 0.0(4.0) - 199.9 km/h [0.0(3.0) - 125.0 mph]
For 27-inch tire size

Lap number 1 - 199

Display-2

Heart rate 0(30) - 260 bpm
Average heart rate *1 0 - 260 bpm
Maximum heart rate 0(30) - 299 bpm

Display-3

Cadence 0(20) - 299 rpm
Average cadence *2 0 - 299 rpm
Maximum cadence 0(20) - 299 rpm
Pedal count 0 - 99990 rotations

Display-4 *3

Calorie consumption 0 - 99990 kcal (Calculation-based estimation only)

Display-5

Elapsed time 0:00 '00"0 - 9:59 '59"9 / 10:00 '00" - 99:59 '59"9
Trip distance 0.00 - 9999.9 km [mile]
Clock time 0:00 - 23:59 [AM 1:00 - PM 12:59]
(Both 12 and 24-hour modes can be selected)
Average speed *4 0.0 - 199.9 km/h [0.0 - 125.0 mph]
Date 00'01.01 - 99'12.31 (Display format can be switched)
Maximum speed 0.0(4.0) - 199.9 km/h [0.0(3.0) - 65.9 mph]
Total time 0.00 - 9999.59 h
Odometer 0.0 - 999999 km [mile]

Lap

Lap number, Average lap heart rate, Average lap cadence, Lab calorie consumption, Lap time, Average lap speed, Split time, Lap distance

Second measurement

Elapsed time, Trip distance, Average speed

Control system: 8-bit one-chip microcomputer, crystal oscillator
Display system: Liquid crystal display (With white-LED backlight)
Speed/Cadence sensor signal detection system: Noncontact magnetic sensor
Heart rate sensor signal transmission and reception: Electromagnetic induction radio system
(With the ID function)
Heart rate signal receiving distance: From 20 cm to about 80 cm or less
Operating temperature range: 32 °F - 104 °F [0 °C - 40 °C]
Storage temperature range: -4 °F - 122 °F [-20 °C - 50 °C]
Wheel circumference set range: 0100 - 3999 mm
Power supply/battery life:
Main unit : CR2450 x 2 / Approx. 3 months (When using 1 hour/day)
Heart rate sensor : CR2032 x 1 / Approx. 6 months (When worn about 1 hour per day)
Dimensions/Weight:
Main unit : 2.18’’x 1.25’’x 0.32’’ / 1.94 oz
(65.5 x 45 x 29 mm / 55 g) (With the batteries)
Heart rate sensor : 10.41’’x 1.51’’x 0.32’’ / 1.31 oz
(270 x 33 x 20 mm / 32 g)

*1 When the elapsed time exceeds 100 hours, [E] is displayed for the average heart rate.
*2 When the total pedal count exceeds 100,000, or when the elapsed time exceeds 100 hours, [E] is displayed for the average cadence.
*3 This manual mainly describes usage of the TR100 without the power unit.
When the power unit is used, some of the operations will vary. For details of usage of the TR100 with the power meter, refer to the power unit instruction manual.
*4 When the trip distance exceeds 10,000 km, or when the elapsed time exceeds 100 hours, [E] is displayed for 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 TR100 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 main unit).
Limited warranty

Applies only to: Main unit, HR receiver and Heart Rate Sensor
(Excluding depletion of batteries and wire damage)

Should the main unit, HR receiver or Heart Rate Sensor fail under normal condition of use, we will repair or replace it free of charge. The warranty service will be performed directly by the CATEYE CO., LTD.. When sending in a warranty item, please enter your name, address and date of purchase on the warranty card along with a description of the problem. Although we will not reimburse you for the freight charges, we will pay for the return air delivery. Please note that the warranty does not cover battery depletion or accessories such as the bracket, SPD/CDC sensor, remote button, or attachment belt. Customers are requested to purchase such parts at their local CarEye dealer.

(CAT EYE CO., LTD.
Service & Research Address for United States Consumers:
CATEYE Service & Research Center
1705 14 th St. 115 Boulder CO 80302
Phone: 303-443-4595 FAX: 303-473-0006
Toll Free: 800-5-CATEYE URL: http://www.cateye.com
Japan Office:
2-8-25 Kuwazu Higashi Sumiyoshi-ku, Osaka 546-0041 Japan
Attn: CATEYE Customer Service Section

<table>
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<tr>
<th>Tire size</th>
<th>L (mm)</th>
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<tbody>
<tr>
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<tr>
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<tr>
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*The tire size is marked on both sides of the tire.

U. S. Pat. Nos. 5236759/5904442/Pending and Des. Pat. No. D499973
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CCTR1E-050727