This instruction manual is subject to change without notice. See our website for the latest instruction manual (PDF).

Please visit our website, where a detailed Quick Start manual containing videos can be downloaded.

http://www.cateye.com/products/detail/CC-PA100W/manual/
Mounting the computer

1 Mount the bracket

- When mounting on stem

- When mounting on handlebar

⚠️ When mounting the bracket on a handlebar, adjust the angle of the bracket so that the back of the computer faces the speed sensor when the computer is attached.

Cutting band after mounting

**CAUTION:**
Cut the bracket band so that cut end will not cause injury.
Mounting the computer

2 Mount the speed sensor

- Mounting on right front fork
- Mounting on left front fork

Mount the speed sensor in a position where the distance from the computer to the speed sensor is within the signal range.

Max. 70 cm (27”)

Mount the magnet

Sensor rubber pad

Nylon tie
Pull tight
Cut

Speed sensor

Magnet
Spoke
To sensor zone
Mounting the computer

4 Adjust the speed sensor and the magnet

- The magnet passes through the speed sensor zone.
- The clearance between the speed sensor and the magnet is within 5 mm (3/16”).

* The magnet may be mounted at any position on spoke as long as attachment conditions are satisfied.

5 Attach/detach computer

- Click
  - Hold computer.
- Push out so that front lifts up.

6 Test operation

After attaching the computer, rotate the front wheel gently to check that current speed is displayed on the computer.

If the speed is not displayed, refer to the attachment conditions in steps 1, 2, and 4 again.
Setting up the computer

1 Clear all data.
   Press the AC button on the back of the computer.
   * All data is deleted and the computer is reset to its factory default settings.

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

3 Set tire circumference.
   Enter the tire circumference of the front wheel in mm.
   * Refer to “Tire circumference” (page 6).

4 Set the clock.
   Each time MODE is pressed and held, settings switch from time display mode, to hours, to minutes.

5 Press MENU to complete setup.
   Setup is completed and the computer switches to the measurement screen. For instructions on how to start measurement, refer to “Starting measurement” (page 7).
Setting up the computer

Tire circumference

Tire circumference can be determined by either of the following two methods:

- Measure the actual tire circumference (L)
  After ensuring that the tire pressure is appropriate, sit on your bike, roll it forward so that the tire makes one full revolution (use the valve or other marking as a reference), and measure the distance traveled on the road.

- Tire size chart

* The tire size or ETRTO code is indicated on the side of the tire.

<table>
<thead>
<tr>
<th>ETRTO</th>
<th>Tire size</th>
<th>L (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>47-203</td>
<td>12x1.75</td>
<td>935</td>
</tr>
<tr>
<td>54-203</td>
<td>12x1.95</td>
<td>940</td>
</tr>
<tr>
<td>40-254</td>
<td>14x1.50</td>
<td>1020</td>
</tr>
<tr>
<td>47-254</td>
<td>14x1.75</td>
<td>1055</td>
</tr>
<tr>
<td>40-305</td>
<td>16x1.50</td>
<td>1185</td>
</tr>
<tr>
<td>47-305</td>
<td>16x1.75</td>
<td>1195</td>
</tr>
<tr>
<td>54-305</td>
<td>16x2.00</td>
<td>1245</td>
</tr>
<tr>
<td>28-349</td>
<td>16x1-1/8</td>
<td>1290</td>
</tr>
<tr>
<td>37-349</td>
<td>16x1-3/8</td>
<td>1300</td>
</tr>
<tr>
<td>32-369</td>
<td>17x1-1/4 (369)</td>
<td>1340</td>
</tr>
<tr>
<td>40-355</td>
<td>18x1.50</td>
<td>1340</td>
</tr>
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<td>47-355</td>
<td>18x1.75</td>
<td>1350</td>
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<td>32-406</td>
<td>20x1.25</td>
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<td>1490</td>
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<td>47-406</td>
<td>20x1.75</td>
<td>1515</td>
</tr>
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<td>50-406</td>
<td>20x1.95</td>
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<td>28-451</td>
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<td>37-501</td>
<td>22x1-3/8</td>
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<td>40-501</td>
<td>22x1-1/2</td>
<td>1785</td>
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<td>47-507</td>
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<td>54-507</td>
<td>24x2.125</td>
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</tr>
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<td>25-520</td>
<td>24x1(520)</td>
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<td>24x3/4 Tubular</td>
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<td>28-540</td>
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<td>24x1-1/4</td>
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<td>26x1.50</td>
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<td>50-559</td>
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<td>54-559</td>
<td>26x2.10</td>
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<td>57-559</td>
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<td>58-559</td>
<td>26x2.35</td>
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</table>

<table>
<thead>
<tr>
<th>ETRTO</th>
<th>Tire size</th>
<th>L (mm)</th>
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<tr>
<td>75-559</td>
<td>26x3.00</td>
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<td>37-590</td>
<td>26x1-3/8</td>
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<td>37-584</td>
<td>26x1-1/2</td>
<td>2100</td>
</tr>
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<td>650C Tubular 26x7/8</td>
<td>1920</td>
<td></td>
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<td>20-571</td>
<td>650x20C</td>
<td>1938</td>
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<td>23-571</td>
<td>650x23C</td>
<td>1944</td>
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<tr>
<td>40-584</td>
<td>650x38B</td>
<td>2105</td>
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<td>25-630</td>
<td>27x1(630)</td>
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<td>27.5x2.25</td>
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<td>2080</td>
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<td>20-622</td>
<td>700x20C</td>
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<td>23-622</td>
<td>700x23C</td>
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<td>700C Tubular</td>
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<td>56-622</td>
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</tr>
<tr>
<td>60-622</td>
<td>29x2.3</td>
<td>2326</td>
</tr>
</tbody>
</table>
Starting measurement [Measurement screen]

Current speed
0.0 (4.0) – 99.9 km/h
[0.0 (3.0) – 62.0 mph]

Measurement unit

Current function

Switching current function

Pressing MODE switches the current function displayed at the bottom of the screen.

Elapsed Time
0:00’00” – 99:59’59”

Trip Distance
0.00 – 9999.99 km [miles]

Average Speed
0.0 – 99.9 km/h
[0.0 – 62.0 mph]

Stopwatch

Turning ON the stopwatch setting on the menu screen adds a stopwatch to the current function display.

Clock
0:00 – 23:59 or 1:00 – 12:59

Total distance
0.0 – 99999.9 km [miles]

Maximum Speed
0.0 (4.0) – 99.9 km/h
[0.0 (3.0) – 62.0 mph]

* Av displays .E instead of the measurement value when Tm exceeds approximately 100 hours or Dst exceeds 9999.99 km. Reset the computer.

On the measurement screen, press MENU to go to the menu screen. Various settings can be changed on the menu screen.
Starting measurement

Starting/stopping measurement
Measurement starts automatically when the bicycle moves. During measurement the measurement unit (km/h or mph) flashes.

Resetting data
Pressing MODE for 2 seconds when on the measurement screen resets all measurement data to 0 (excluding Odo).

Power-saving function
If the computer does not receive any signal for 10 minutes, the power-saving screen is activated and only the clock is displayed. If MODE is pressed or a sensor signal is received while the power-saving screen is activated, the computer returns to the measurement screen.
* When the computer is left on the power-saving screen for 1 hour, the display only shows the measurement unit. When the computer is in this state, you can return to the measurement screen by pressing MODE.
Starting measurement [Measurement screen]

Using the stopwatch (⏲)

You can display a stopwatch that lets you count time regardless of whether measurement is started or stopped.

To use the stopwatch, set the stopwatch setting on the menu screen to **ON**.

For instructions on how to set the stopwatch, refer to “Stopwatch” (page 12).

Stopwatch operation

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Start/stop</strong></td>
<td>Press <strong>MODE</strong> for 1 second when the stopwatch is displayed. During counting the 🕒 icon flashes.</td>
</tr>
<tr>
<td><strong>Reset</strong></td>
<td>Press <strong>MODE</strong> for 4 seconds when the stopwatch is displayed.</td>
</tr>
</tbody>
</table>

* Start, stop, and reset operations of the stopwatch are performed separately to measurement, and do not affect other measurements.
* The stopwatch continues counting regardless of the power-saving state. During counting the 🕒 icon flashes on every screen except for the menu screen.
Changing settings [Menu screen]

On the measurement screen, press MENU to go to the menu screen. Various settings can be changed on the menu screen.

* After changing settings, always press MENU to confirm changes.
* When the menu screen is left on for 1 minute, the computer returns to the measurement screen.

### Measurement screen

- **Tire circumference**
  - Lets you set the tire circumference.
  - Change setting:
    - Move to next digit (Press and hold)
    - Increase numbers

- **Clock**
  - Lets you set the clock.
  - Change setting:
    - Move to next digit (Press and hold)
    - Increase numbers
    - Select display
      - 12h ↔ 24h
    - Set “hours” (Press and hold)
    - Increase numbers
    - Set “minutes” (Press and hold)
    - Increase numbers

### Menu screen

- **Tire circumference**
  - Description:
    - Lets you set the tire circumference.
    - Change setting:
      - Move to next digit (Press and hold)
      - Increase numbers

- **Clock**
  - Description:
    - Lets you set the clock.
    - Change setting:
      - Move to next digit (Press and hold)
      - Increase numbers
      - Select display
        - 12h ↔ 24h
      - Set “hours” (Press and hold)
      - Increase numbers
      - Set “minutes” (Press and hold)
      - Increase numbers
Changing settings [Menu screen]

<table>
<thead>
<tr>
<th>Measurement screen</th>
<th>Menu screen</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tire circumference</strong></td>
<td>SET 2095</td>
<td>Identify tire circumference.</td>
</tr>
<tr>
<td><strong>Clock</strong></td>
<td>SET 24h</td>
<td>Use for timekeeping.</td>
</tr>
<tr>
<td><strong>Manual distance input</strong></td>
<td>SET Odo</td>
<td>Set total distance manually. (Fractions cannot be entered.) * Setting an arbitrary value for total distance allows you to start from the value you entered. This is useful when you have just purchased a new bicycle or when replacing the computer battery.</td>
</tr>
<tr>
<td><strong>Change setting</strong></td>
<td>Move to next digit</td>
<td>Adjust values.</td>
</tr>
<tr>
<td><strong>Select measurement unit</strong></td>
<td>SET km/h</td>
<td>Select measurement unit (km/h or mph).</td>
</tr>
</tbody>
</table>

Appendix
### Changing settings [Menu screen]

<table>
<thead>
<tr>
<th>Measurement screen</th>
<th>Menu screen</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Image of measurement screen]</td>
<td>SET 2096</td>
<td>Tire circumference</td>
</tr>
<tr>
<td></td>
<td>SET 24h</td>
<td>Clock</td>
</tr>
<tr>
<td></td>
<td>SET Input</td>
<td>Manual distance input</td>
</tr>
<tr>
<td></td>
<td>SET Stick</td>
<td>Select measurement unit</td>
</tr>
<tr>
<td></td>
<td>SET</td>
<td>Stopwatch</td>
</tr>
</tbody>
</table>

#### Stopwatch

Lets you add a stopwatch to the current function display.

**Change setting**

- **On**: Press and hold MODE
- **Off**: MODE (show) and OFF (hide)
Appendix

⚠️ Warning / Caution

- Do not concentrate on the computer while riding. Always ride safely.
- Mount the magnet, sensor, and bracket securely, and check them periodically to ensure that they are not loose.
- If a battery is swallowed accidentally, consult a doctor immediately.
- Do not leave the computer in direct sunlight for a long period of time.
- Do not disassemble the computer.
- Do not drop the computer. Doing so may result in malfunction or damage.
- When pressing the MODE button with the computer installed on the bracket, press the area around the dot section on the front of the computer. Pressing other areas strongly may result in malfunction or damage.
- Always tighten the bracket band dial by hand. Using a tool or other object to tighten the dial may crush the screw thread.
- When cleaning the computer and accessories, do not use thinners, benzine, or alcohol.
- Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to local regulations.
- The LCD screen may be distorted when viewed through polarized sunglass lenses.

Wireless Sensor

The speed sensor is designed with a maximum signal range of 70 cm (27”), to reduce the chance of interference. (The signal range is intended to serve as a rough guide only.) When handling the wireless sensor, note the following:

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

Interference may occur, resulting in malfunction, if the computer is:

- Near a TV, PC, radio, or motor, or in a car or train.
- Close to a railroad crossing, railway tracks, TV transmitter station, or radar station.
- Used with other wireless devices or certain battery-powered lights.

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.

Hereby, CATEYE Co., Ltd., declares that this CC-PA100W is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Appendix

Maintenance
If the computer or accessories become dirty, clean with a soft cloth which is moistened with mild soap.

Replacing the battery
- Computer
When \(\) (battery icon) is turned on, replace the battery. Insert a new lithium battery (CR2032) with the (+) side up.
  * After replacing the battery, always follow the procedure described in “Setting up the computer” (page 5).
  * If you make a note of the total distance value before replacing the battery, you will be able to continue from the same total distance by entering it after replacing the battery.

- Speed sensor
When the speed is not displayed even after adjusting correctly, it is time to replace the battery. Insert a new lithium battery (CR2032) with the (+) side up and close the battery cover firmly.
  * After replacing the battery, adjust the position of the magnet relative to the speed sensor as described in “Mounting the computer” (page 4) step 4.

Troubleshooting

Speed is not displayed.
- Is there too much clearance between the speed sensor and the magnet? (Clearance should be within 5 mm (3/16”).)
- Does the magnet pass through the sensor zone correctly?
  Adjust the position of the magnet and/or the speed sensor.
- Is the computer mounted at the correct angle?
  Ensure that the back of the computer faces the speed sensor.
- Are the computer and the speed sensor mounted at the correct distance apart? (Clearance should be from 20 to 70 cm (8” to 27”).)
  Ensure that the speed sensor is within range.
- Is the computer or speed sensor battery flat?
  * Battery performance diminishes in winter.
  If the computer reacts only when it is close to the speed sensor, the problem may be due to weak batteries.
  Replace the batteries with new ones as described in “Replacing the battery”.

The display remains blank when the button is pressed.
Replace the computer battery as described in “Replacing the battery”.

Incorrect data appear.
Clear all according to the procedure described in “Setting up the computer” (page 5).
Appendix

Main specifications

<table>
<thead>
<tr>
<th>batteries used</th>
<th>Computer</th>
<th>Lithium battery (CR2032) x1 / Approx. 1 year (If used for 1 hour a day; actual battery life will vary depending on usage conditions.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>battery life</td>
<td>Speed sensor</td>
<td>Lithium battery (CR2032) x1 / Total distance approx. 10000 km [6,250 miles]</td>
</tr>
</tbody>
</table>

* Average value when used at temperature of 20 °C with computer and sensor mounted 65 cm apart.
* Life of pre-installed battery may be shorter than indicated above.

**Controller**
4 bit, 1-chip microcomputer (Crystal controlled oscillator)

**Display**
Liquid crystal

**Sensor**
Non-contact magnetic sensor

**Signal range**
20 to 70 cm (8” to 27”)

**Tire circumference range**
0100 mm – 3999 mm (Initial value: 2096 mm)

**Operating temperature range**
32°F – 104°F (0°C – 40°C) (Guaranteed operating temperature range: Display visibility may deteriorate outside this range.)

**Dimensions/weight**
| Computer | 2-21/32” x 1-11/16” x 9/16” (67.5 x 43 x 14.5 mm) / 1.1 oz (31.5 g) |
| Speed sensor | 1-5/8” x 1-13/32” x 19/32” (41.5 x 36 x 15 mm) / 0.5 oz (15 g) |

* Specifications and design are subject to change without notice.

**LIMITED WARRANTY**

2-Years Computer/Speed Sensor Only (Accessories and Battery Consumption Excluded)
CatEye cycle computers are warranted to be free of defects from materials and workmanship for a period of two years from original purchase. If the product fails to work due to normal use, CatEye will repair or replace the defect at no charge. Service must be performed by CatEye or an authorized retailer. To return the product, pack it carefully and enclose the warranty certificate (proof of purchase) with instruction for repair. Please write or type your name and address clearly on the warranty certificate. Insurance, handling and transportation charges to CatEye shall be borne by person desiring service. For UK and REPUBLIC OF IRELAND consumers, please return to the place of purchase. This does not affect your statutory rights.


CATEYE CO., LTD.
2-8-25, Kuwazu, Higashi Sumiyoshi-ku, Osaka 546-0041 Japan
Attn: CATEYE Customer Service
Phone : (06)6719-6863  Fax : (06)6719-6033
E-mail : support@cateye.co.jp  URL : http://www.cateye.com

[For US Customers]
CATEYE AMERICA, INC.
2825 Wilderness Place Suite 1200, Boulder CO 80301-5494 USA
Phone : 303.443.4595  Toll Free : 800.5.CATEYE
Fax : 303.473.0006  E-mail : service@cateye.com

Standard accessories

- 1602190N Parts kit
- 1602193 Bracket
- 1699691N Wheel magnet
- 1665150 Lithium battery
- 1602196 Speed sensor (SPD-01)

Optional accessories

- 1604100 Out-front bracket
- 1602980 Nylon tie bracket
- 1603891 Speed sensor (SPD-02)