



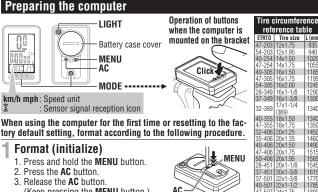
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two condi tions:(1)This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.

♠ WARNING / CAUTION

- Do not concentrate on the computer while riding. Ride safely!
- Install the magnet, sensor, and bracket securely. Check these periodically.
- If a child swallows a battery, consult a doctor immediately.
 Do not leave the computer in direct sunlight for a long period of time.
- Do not disassemble the computer.
 Do not drop the computer to avoid malfunction or damage.
- When you attempt to press MODE with the computer installed to the bracket, press around the marking section on the surface of the computer. Pressing other sections strongly may result in malfunction or damage.

Before using the computer, please thoroughly read this manual and keep it for future reference.



tory default setting, format according to the following procedure.



Select the speed and temperature unit

When MODE is pressed and held, "Speed unit" and "Temperature unit" will appear for selection. Select "km/h" or "mph" for the speed unit, and °C" or "°F" for the temperature unit.









Set the date

When MODE is pressed and held, "Date format", "Day", "Month", and "Year" will appear, in this order. Press MODE to change the value, and press **MENU** to register it. Set the values in the subsequent settings with in the same procedure.







Set the clock

When MODE is pressed and held, "Display format", "Hour", and "Minute" will appear, in this order.

* When 12h is selected, "AM/PM selection" is required.







Enter the tire circumference

Enter the tire circumference of your bicycle in mm. Refer to the tire circumference reference table.

Increase the value







🎧 To carry over the total distance

After you performed the formatting operation, or purchased a new computer, you can start the total distance with the value you enter. The total distance is entered as a 5-digit integer number in km [mile]. To start the total distance with 0, press **MENU** without









ence (L) of your bike To get the most accurate calibration do a wheel roll out With the valve stem perpendicular to the ground, mark the

pavement at the valve stem. With the riders weight on the bike. roll the wheel one tire revolution in a straight line and mark the ground when the valve stem is perpendicular to the ground again. Measure the distance in millimeters. This is the most accurate wheel



- . Be sure to tighten the dial of the FlexTight bracket by hand. Tightening it strongly using a tool, etc. may damage the screw thread.
- When cleaning the computer, bracket and sensor, do not use thinners, benzene, or alcohol
- · A temperature sensor is built in the computer. If the sensor is heated by direct sunlight or body heat, it may not indicate the temperature correctly.
- Dispose of used batteries according to local regulations.
- LCD screen may be distorted when viewed through polarized sunglass lenses.

Wireless Sensor

The sensor was designed to receive signals within a maximum range of $70\,\mathrm{cm}$, to reduce chance of interference. When adjusting the wireless sensor, note the following:

- Signals cannot be received if the distance between the sensor and the computer is too large.
- The receiving distance may be shortened due to low temperature and exhausted batteries.
 Signals can be received only when the back of the computer is facing the sensor.
- Interference may occur, resulting in incorrect data, if the computer is
- Near a TV, PC, radio, motor, or in a car or train.
- · Close to a railroad crossing, railway tracks, TV stations and/or radar base.
- Using with other wireless devices in close proximity.

How to install the unit on your bicycle



1300

1340

1753

1785

1920

1952

2169

2155

2168

∠180 2200 220

2242

24x3/4 Tubuler 540 24x1-1/8 559 26x1(559

1-559 26x1.25 1-559 26x1.40 1-559 26x1.50 1-559 26x1.75 1-559 26x1.75

-559 26x1.95 -559 26x2.10 -559 26x2.125 -559 26x2.35

-571 650x20C

23-571 650x23C 650x25C 25-571 26x1(571)

23-622 700x23C

2-622 700x30C

35-622 /00x35C 38-622 700x38C 40-622 700x40C 42-622 700x42C 44-622 700x44C 45-622 700x47C 47-622 700x47C

Measure more ac-

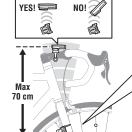
curate tire circumfer-

700C

- Bracket band
- 2Bracket 3 Nut
- ASensor
- 6 Magnet
- **6**Sensor rubber pad
- Bracket rubber pad
- Nylon ties (x2)

Install the sensor and magnet

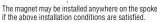
A The distance between the computer and the sensor must not exceed the transmission range of 70 cm. The back of the computer must face the sensor.



The magnet through the sensor zone







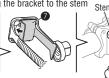
1 Install the sensor Right front fork Pull securely Install the sensor to the front fork as high as possible



Sensor zone









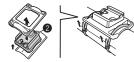
When attaching the bracket to the handlebar On account of the receiving sensitivity, attach the bracket so that the computer is kept horizontal.



4 Remove/install the computer While supporting it by hand,



For wing type handlebar or oversized stem bracket can be mounted using the Bracke Holder and nylon ties. (Option)



installation, check that the speed is displayed on the computer when wheel. When it is not displayed, check the positions of [A], [B] and [C]

Operating the computer [Measuring screen]

Pace arrow Indicates whether the current speed is faster (\blacktriangle) or slower (\blacktriangledown) than the average speed Night mode icon Computer battery icon

* With the measuring screen, the clock and the temperature are always dis-played at the bottom row.

Data at the top row display The ETA estimated time of arrival or current speed is displayed. ETA progress graph 929 Selected mode at the middle row 10:03:11 2 1:9 Temperature display -20 − 60 °C -Clock display AM1:00 – PM12:59 [0:00 – 23:59]

<u> 200</u>

185

ETA

DST

With the computer installed to the bracket, press

When Tm exceeds about 27 hours or Dst exceeds

999.99 km, the average speed display turns to .E, thus it cannot be measured. Reset the data.

the marking section on the computer

Estimated time

of arrival AM1:00 - PM12:59

SPD Current speed

0.0 (4.0) – 99.9 km/h [0.0 (3.0) – 62.5 mph]

Elapsed Time 0:00'00 - 9:59'59

Trip Distance

AVS Average Speed *2 0.0 – 99.9 km/h

MXS Maximum Speed 0.0 (4.0) – 99.9 km/h

[0.0(3.0) - 62.5 mph]

[0.0 - 62.5 mph]

999.99 km [mile]

[0:00 - 23:59]

Starting/Stopping measurement Measurements start automatically when the bicycle is in motion. During

measurement, km/h or mph flashes.

Switching computer function As shown in the figure, pressing **MODE** changes the measurement data at the top/bottom row display.

Resetting data

Pressing and holding MODE on the measuring screen returns the measurement data to 0.

Backlight

Pressing **LIGHT** turns on the screen illumination for about 3 seconds.

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

Night mode (🛂)

Pressing and holding LIGHT turns on 7, night mode will activate. Night mode is a function to control the screen illumination by pressing **MODE**. Pressing **MODE** turns on the illumination, and pressing it again changes the selected mode. While 🔭 is turned on, if you press and hold LIGHT, or the computer does not receive a signal for 10 minutes, night mode will be turned off.

Power-saving mode

If the computer has not received a signal for 10 minutes, power-saving mode will activate and only the date/ clock will be displayed. When you press **MODE**, or the computer receives a sensor signal, the measuring

screen reappears. If another 60 minutes of inactivity elapses, **SLEEP** will be displayed on the screen. With the SLEEP display, pressing MODE returns to the measuring screen.

ETA estimated time of arrival and progress graph

When you set the distance from your departure point to your destination point, the estimated time of arrival at the destination point will be estimated and displayed based on the remaining distance and the average speed, and the progress in distance is displayed in a graph.

Estimated time of arrival (TETA)

To set the target trip distance, you can select automatic setting or manual setting.

- Automatic setting (AUTO)
- Once you perform the resetting operation, the trip distance just before resetting is
- automatically set as a target trip distance.

 * Automatic setting is applied once you change the "Target trip distance setting" on the Menu screen to AUTO. For the setting procedure, refer to the "Target trip distance setting" on the Menu screen.
- Manual setting (MANU)
- The distance from your departure point to your destination point is set manually from the "Target trip distance setting" on the Menu screen.
- For the setting procedure, refer to the "Target trip distance setting" on the Menu screen
- * When the estimated time of arrival is estimated to be after 24 hours, the estimated time of arrival display changes to ET. When the estimated time of arrival is estimated to be within 24 hours, it returns to the estimated time of arrival display.
- * The estimated time of arrival is not fixed, but changes according to the trip conditions (speed, stop, etc.)
- When the unit reaches the target trip distance, it changes to the ETA screen regardless of the measuring screen displayed, and then returns to the original measuring screen in 5 seconds after notifying the arrival. The ETA "Estimated time of arrival" stops while displaying the current time; however, the computer continues measuring.

ETA progress graph

Once the target trip distance is set, you can view the progress in a graph, where the distance from your departure point to your destination point is divided into 10 segments. The current progress position appears and flashes.

Data view (DST VIEW / CO2 VIEW)

This unit automatically saves the trip distance and the Carbon offset, which can be viewed for the day, week, month, year, and total.

Data view's contents and update timing

Trip distance and the Carbon offset saved are updated at 0:00 in the morning. The

update timing for the day, week, month, and year is as follows.		
	Item	Description
	DAY	Trip distance per day. Data can be viewed for today and yesterday. At the time of updating at 0:00 in the morning, the unit saves yesterday's data, and discards the data for the day before yesterday.
	WEEK	The data for every 7 days starting from January 1st, regardless of the day of the week, is stored as data for the week. Data can be viewed for this week and last week. At the time of updating every 7 days, the unit stores the data for last week, and discards the data for the week before the last week.
	MON	The data starting from the 1st to the end of the month is stored as data for the month. Data can be viewed for this month and last month. At the time of updating at the beginning of a month, the unit stores the data for last month, and discards the data for the month before the last month.
	YEAR	The data starting from January 1st to December 31st is stored as data for the year. Data can be viewed for this year and last year. At the time of updating on January 1st, the unit saves the data for last year, and discards the data for the year before the last year.
	TOTAL	The total trip distance (Total Distance) can be viewed and the total Carbon offset since the computer started measuring. *When the total distance is entered manually, the entered value is reflected.

How to calculate the Carbon offset (CO2 VIEW)

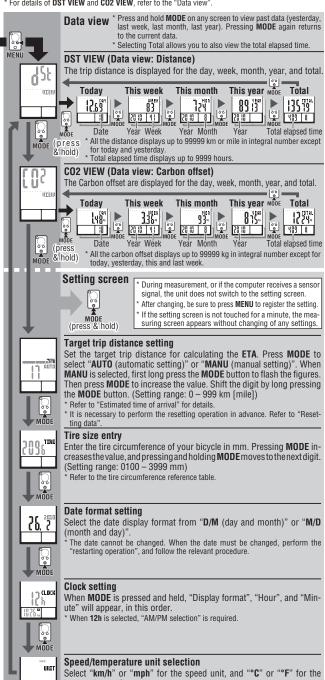
The Carbon offset are calculated as follows

Trip distance (km) x 0.15 = Carbon offset (kg)

This factor of 0.15 is determined by applying the average value of the overall gasoline-powered passenger cars in 2008 to the equation of the "Carbon offset from 1km drive of a gasoline-powered car" described on the website of the Ministry of Land, Infrastructure and Transport and Tourism.

Viewing the data view and changing the settings [Menu screen]

Pressing MENU on the measuring screen moves to the menu screen for setup change. With the Menu screen, you can view the data view, and change the computer settings. Press **MODE** to change to the item of interest, and then press and hold **MODE** to select the menu item. For details of **DST VIEW** and **CO2 VIEW**, refer to the "Data view"



temperature unit.

After changing the unit, it is necessary to perform the resetting operation

How to restart

After changing the battery, or when the computer displays an error, restart the computer according to the following procedure.

- With the restarting operation, the speed unit, date, tire size, and record data in the data view are retained.
 When the restarting operation is performed before 0:00 in the morning, the trip distance and the Carbon offset for the day are not saved due to the data view's update timing. To retain the measurement data for the day, perform the restarting operation before starting measurement on the next day. Refer to "Data view's update timing" for the procedure to save the data view.
- Press the AC button on the back of the computer.
 Set the date. To set the date, refer to "Preparing the computer-3".
 - * At the time of setting the date, the latest record date in the data view is initially displayed, and any date before that cannot be set
- 3. Set the clock. Refer to "Preparing the computer 4".

To clean the computer or accessories, use diluted neutral detergent on a soft cloth, and wipe it off with a dry cloth.

Replacing the battery

Computer

If $\hat{\mathbb{L}}$ turns on, replace the battery. Install a new lithium battery (CR2032) with the (+) side facing upward. After the battery change, go through the restart operation, by pressing the **AC** button.

Then restart the computer according to "How to restart"

Sensor

When the speed is not displayed even after adjusting correctly, replace the battery. Install a new lithium battery (CR2032) with the (+) side facing upward. After replacement, check the positions of the sensor and magnet.



Close Open CR2032

Troubleshooting

MODE does not work when the computer is mounted on its bracket.

Check that there is no dirt between the bracket and the computer Wash off the bracket with water to get rid of any dirt.

The sensor signal reception icon does not flash (the speed is not displayed). (Move the computer near the sensor, and turn the front wheel. If the sensor signal reception icon flashes, this trouble may be a matter of transmission distance due to battery drain, but not any malfunction.)

Check that the clearance between the sensor and magnet is not too large. (Clearance: within 5 mm)

Check that the magnet passes through the sensor zone correctly.

Adjust the positions of the magnet and sensor.

Is the computer installed at the correct angle?

Back of computer must face toward the sensor

Check that the distance between the computer and sensor is correct. (Distance: within 20 to 70 cm) Install the sensor within the specified range.

Is the computer or sensor battery weak?

In winter, battery performance diminishes.
Replace with new batteries. After replacement, follow the procedure "Replacing the battery".

No display.

Is battery in the computer run down?

Replace it. Then restart the computer referring to "How to restart".

Incorrect data appear.

Restart the computer referring to "How to restart"

Specification











#166-5150 Lithium battery (CR2032)