

CATEYE URBAN WIRELESS+

CYCLOCOMPUTER CC-VT245W



• 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-VT245W/manual/



Mounting the computer



Setting up the computer



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Starting measurement



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Changing settings



Warning/Caution Product Warranty, etc.

Mounting the computer





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When mounting on handlebar



Bracket band

Bracket rubber pad



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.





SET

Mounting the computer

Mount the speed sensor 2 Mount the speed sensor in a posi-• Mounting on right front fork tion where the distance from the computer to the speed sensor is within the signal range. • Mounting on left front fork Max. 70 cm (27") Nylon tie Speed sensor Pull tight Sensor rubber pad Cut Mount the magnet Magnet To sensor zone Spoke





Mounting the computer







The clearance between the

speed sensor and the magnet

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



Attach/detach computer



Hold computer.

Push out so that front lifts up.

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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.



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Setting up the computer

When using the computer for the first time or resetting it to its factory default settings, clear all computer data following the procedure below.







Press the **AC** button on the back of the computer.

* All data is deleted and the computer is reset to its factory default settings.



Select the measurement unit.

Select "km/h" or "mph".



Select the tire size.

Simple setting:

When **MODE** is pressed, $26" \rightarrow 700C \rightarrow 27" \rightarrow 27.5" \rightarrow 29" \rightarrow 205[] \rightarrow 16" \rightarrow 18" \rightarrow 20" \rightarrow 22" \rightarrow 24"$ and 26" will appear, in this order. Select the tire size (inch) of your bicycle.

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Advanced settings

(For more accurate measurement):

Display **205**[] on the screen, and press and hold **MODE** to enter the tire size of your bicycle in cm. Pressing **MODE** changes the value, and pressing and holding **MODE** moves to the next digit.

* For details on the tire circumference, see "Tire circumference" (page 7).



Confirm

Switch size



L = 100 - 299 cm

Confirm MENU

Increase numbers

Move to next

digit MODE (Press and hold)

Confirm

MODE

MENU



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Setting up the computer

Set the clock.

Each time the **MODE** button is pressed and held, settings switch from time display mode, to hours, to minutes.

* When **12h** is selected, **A** (AM) or **P** (PM) is displayed at the top of the screen.

Time display mode (24h or 12h)





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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 8).















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.

ETRTO	Tire size	L (cm)	ETRT0	
40-254	14x1.50	102	28-590	
47-254	14x1.75	110	37-590	
40-305	16x1.50	119	37-584	
47-305	16x1.75	120		
54-305	16x2.00	125	20-571	
28-349	16x1-1/8	129	23-571	
37-349	16x1-3/8	130	25-571	
32-369	17x1-1/4 (369)	134	40-590	
40-355	18x1.50	134	40-584	
47-355	18x1.75	135	25-630	
32-406	20x1.25	145	28-630	
35-406	20x1.35	146	32-630	
40-406	20x1.50	149	37-630	
47-406	20x1.75	152	40-584	
50-406	20x1.95	157	50-584	
28-451	20x1-1/8	155	54-584	
37-451	20x1-3/8	162	57-584	
37-501	22x1-3/8	177	18-622	
40-501	22x1-1/2	179	19-622	
47-507	24x1.75	189	20-622	
50-507	24x2.00	193	23-622	
54-507	24x2.125	197	25-622	
25-520	24x1(520)	175	28-622	
	24x3/4 Tubular	179	30-622	
28-540	24x1-1/8	180	32-622	
32-540	24x1-1/4	191		
25-559	26x1(559)	191	35-622	
32-559	26x1.25	195	38-622	
37-559	26x1.40	201	40-622	
40-559	26x1.50	201	42-622	
47-559	26x1.75	202	44-622	
50-559	26x1.95	205	45-622	
54-559	26x2.10	207	47-622	
57-559	26x2.125	207	54-622	
58-559	26x2.35	208	56-622	
75-559	26x3.00	217	60-622	

)	Tire size	L (cm)
0	26x1-1/8	197
0	26x1-3/8	207
4	26x1-1/2	210
	650C Tubular 26x7/8	192
1	650x20C	194
1	650x23C	194
1	650x25C 26x1(571)	195
0	650x38A	213
4	650x38B	211
0	27x1(630)	215
0	27x1-1/8	216
0	27x1-1/4	216
0	27x1-3/8	217
4	27.5x1.50	208
4	27.5x1.95	209
4	27.5x2.1	215
4	27.5x2.25	218
2	700x18C	207
2	700x19C	208
2	700x20C	209
2	700x23C	210
2	700x25C	211
2	700x28C	214
2	700x30C	215
2	700x32C	216
	700C Tubular	213
2	700x35C	217
2	700x38C	218
2	700x40C	220
2	700x42C	222
2	700x44C	224
2	700x45C	224
2	700x47C	227
2	29x2.1	229
2	29x2.2	230

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SET

Appendix

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29x2.3

Starting measurement [Measurement screen]

Night mode icon **P** This turns on when night mode is enabled. For details, see "Backlight (night mode)" (page 9).

Pace arrow Indicates whether the current speed is faster (\blacktriangle) or slower (\blacktriangledown) than the average speed.

Switching current function



Sensor signal icon
Flashes in sync with a sensor signal.

Current speed 0.0 (4.0) – 105.9 km/h [0.0 (3.0) – 65.9 mph]

Measurement unit Current function

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- *1: Av (Average Speed) displays .E instead of the measurement value when Tm (Elapsed Time) exceeds approximately 27 hours or Dst (Trip Distance) exceeds 999.99 km. Reset the measurement data.
- *2: Calorie consumption is a cumulative value based on speed calculated at one second intervals. Values for calorie consumption per hour are shown below.

Speed	10 km/h [mph]	20 km/h [mph]	30 km/h [mph]
Kcal per hour	67.3 kcal [155.2 kcal]	244.5 kcal [768.2 kcal]	641.6 kcal [2297.2 kcal]



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Starting measurement [Measurement screen]

Starting/stopping measurement

Measurement starts automatically when the bicycle moves.

During measurement the measurement unit (**km/h** or **mph**) flashes.





Measurement starts

Measurement stops





MODE

(Press and hold)







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Appendix

Resetting data

Pressing and holding the **MODE** button when on the measurement screen resets all measurement data to 0 (excluding **Odo**).

Backlight (night mode)

When night mode is enabled, the backlight turns on for 5 seconds when the button is pressed. Backlight operation can be extended by pressing the button again. For details on the setting method, see "Night mode" (page 10).

* When the remaining battery charge is low (when turns on), the backlight will not turn on.

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 powersaving screen is activated, the computer returns to the measurement screen.

* If the computer is left on the power-saving screen for 1 hour. **SLEEP** is displayed. When the computer is in this state, you can return to the measurement screen by pressing the **MODE** button.



- *1: When you press the button at the specified time, the backlight turns on, and the actual function of the button is not performed.
- *2: If you press the button when the backlight is on, the function of the button will be performed.



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.



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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.
- 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-VT245W is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Appe

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

The sensor signal reception icon does not flash. (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).







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Appendix

Main specifications

Batteries used Battery life	Computer	Lithium battery (CR2032) x1 / Approx. 1 year (If used for 1 hour a day; actual battery life will vary depending on usage conditions.)
	Speed sensor	Lithium battery (CR2032) x1 / Total distance approx. 10000 km [6,250 miles]

* 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 size to be selected	26", 700c, 27", 27.5", 29", 16", 18", 20", 22" and 24", or tire circumference of 100 cm - 299 cm (initial value: 26 inch)		
Operating tem- perature range	$32^{\circ}F - 104^{\circ}F (0^{\circ}C - 40^{\circ}C)$ (Guaranteed operating temperature range: Display visibility may deteriorate outside this range.)		
Dimensions/ weight	Computer	2-3/16" x 1-29/64" x 21/32" (55.5 x 37 x 16.5 mm) / 0.93 oz (26.4 g)	
	Speed sensor	1-41/64" x 1-27/64" x 19/32" (41.5 x 36 x 15 mm) / 0.53 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.

Please register your CatEye product on the website. http://www.cateye.com/en/support/regist/

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