CATEYE DUAL

CYCLOCOMPUTER
Model CC-DU100

CCMDU1-950202-8 Printed in Japan 0687330

Setting Values Cross Reference Table (The tire size is marked on both sides of the tire.)

TIRE SIZE	L(cm)	TIRE SIZE	L(cm)	TIRE SIZE	L(cm)	TIRE SIZE	L(cm)
24 x 3/4 Tubular	178	26 x 1-1/8 Tubular	197	26 x 2.125	226	700 x 18C	207
24 x 1	179	26 x 1-3/8	207	27 x 1	214	700 x 19C	209
24 x 1-1/8 Tubular	179	26 x 1-1/2	210	27 x 1-1/8	216	700 x 20C	211
24 x 1-1/4	191	26 x 1.40	200	27 x 1-1/4	218	700 x 25C	212
24 x 1.75	189	26 x 1.50	203	27 x 1-3/8	221	700 x 28C	214
24 x 2.00	192	26 x 1.75	205	650 x 35A	209	700 x 30C	217
24 x 2.125	196	26 x 1.95	211	650 x 38A	212	700 x 32C	216
26 x 1	195	26 x 2.00	208	650 x 38B	211	700C Tubular	213

Specifications

Controller ---------- 4-bit 1-chip Microcomputer (Crystal Controlled Oscillator)
Display ---------- Liquid Crystal Display
Sensor ---------- No-contact magnetic sensor
Power supply ---------- Lithium Battery (CR2032x1)
Operating Temperature Range ---------- 0℃ - 40℃(32℉ - 104℉)

LIMITED WARRANTY

1-Year Warranty for Main Unit Only (Accessories/Attachments and Battery Consumption excluded)

If trouble occurs during normal use, the part of the Main Unit will be repaired or replaced free of charge. The service must be performed by Cat Eye Co., Ltd. To return the product, pack it carefully and remember to enclose the warranty certificate with instruction for repair. Please write or type your name and address clearly on the warranty certificate. Insurance, handling and transportation charges to our service section shall be borne by the consumer.

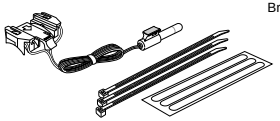
Address for service

CAT EYE CO.,LTD.
2-8-25, Kuwazu, Higashi Sumiyoshi-ku, Osaka 546 Japan.
Attn.: CAT EYE Customer Service Section

Service & Research Address for United States Consumers:

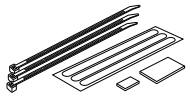
CATEYE Service & Research Center
1705 14th St. 115 Boulder, CO 80302
Phone: 303-443-4595 Toll Free: 800-5CATEYE
Fax: 303-473-0006 e-mail: service@cateye.com

 # 169-6760
Bracket Sensor Kit

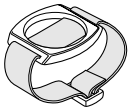


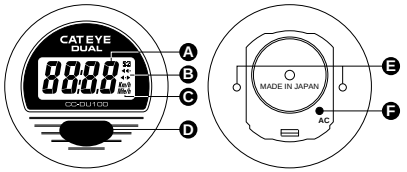
 # 166-5120
Wheel Magnet

 # 169-6770
Attachment Kit

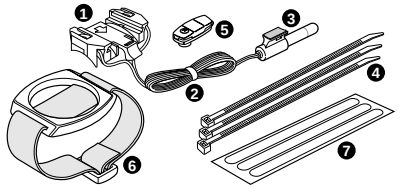


 # 169-6790
Wrist Band





A. Selected Function
B. Mode Symbol
C. Scale Symbol
D. Mode Button
E. Contacts
F. AC Button



1. Bracket
2. Wire
3. Sensor
4. Secure Band
5. Magnet
6. Wrist Band
7. Wire Securing Tape

OPERATION FEATURES AND DISPLAY FUNCTIONS

• Mode Button

The mode display changes in the order shown in fig.1 whenever this button is pressed.

• AC Button

When this button is pressed, all the data stored in memory (Total Distance, Scale Symbol, Wheel Circumference and 24-hour Clock Time) will be erased.

Note: This button should only be pressed before initial operation or when irregular display of information appears.

Current Speed SPEED

The current speed is displayed in the Current Speed mode. The speed scales (km/h and mile/h) are displayed alternatively each time the Mode Button is kept pressed in this mode.

Trip Distance ◂·▸

The distance of each trip is measured and displayed. The Trip Distance can be reset to zero when the Mode Button is kept pressed in the Trip Distance mode.

Total Distance (Odometer) ◂◂·

The Total Distance is continuously measured, accumulated and displayed. When 10,000 mile(km) is reached, the Odometer will return to zero and counting begins anew.

Note: The Odometer cannot be reset.

24-hour Clock

The current time is displayed as a 24-hour clock. The Clock Time can be reset when the Mode Button is kept pressed in this mode.

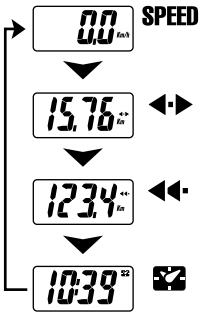


Fig.1

MAIN UNIT PREPARATION

User shall make the following setting and the cyclocomputer can be used properly.

• First, measure the wheel circumference L of your bike (Fig.2-1)

Adjust tire pressure and then put a mark on the tire treads. Ride the bike one full wheel revolution. Mark the ground at the start and end of one revolution and then measure the distance between the two marks. This measure is your actual wheel circumference. Alternatively, the "Setting Values Cross Reference Table" can tell you an approximate wheel circumference according to tire size.

• Setting the Speed Scale (mile/h or km/h) (Fig.2-2)

When the AC Button is pressed, all displays will illuminate and then the "km/h" appears. "km/h" and "mile/h" are displayed alternatively each time the Mode Button is pressed. Select the speed scale desired and keep the Mode Button pressed to complete the setting.

• Setting the Wheel Circumference (Fig.2-3.4)

(Fig.2-3) will blink after speed scale is set. Press the Mode Button to select the first two digits between 10 and 22 as desired. Keep the Mode Button pressed and the (Fig.2-4) will blink. Press the Mode Button select a number between 0 and 9 as desired. Keep the Mode Button pressed to complete the setting.

• Setting the 24-hour Clock (Fig.3-1.2.3)

Select the 24-hour Clock Mode. Keep the Mode Button pressed and the hour will blink. Press the Mode Button to set a desired hour-time. Keep the Mode Button pressed to complete the hour-time setting. Repeats to complete the setting of 10 minute and minute digits.

Fig.2-1

Fig.2-2

Fig.2-3

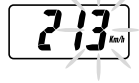


Fig.2-4

Fig.3-1

Fig.3-2

Fig.3-3

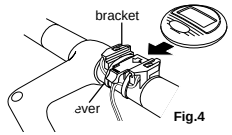


Fig.4

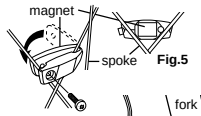


Fig.5

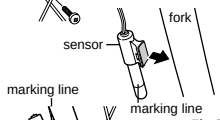


Fig.6

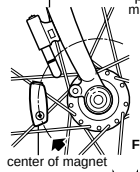


Fig.7

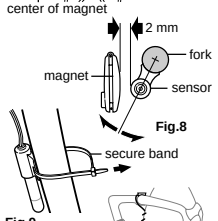


Fig.8

Fig.9

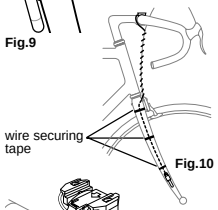


Fig.10

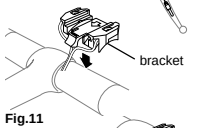


Fig.11

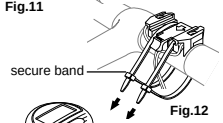


Fig.12

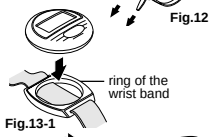


Fig.13-1

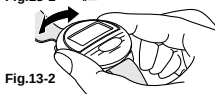


Fig.13-2

MOUNTING TO BIKE

Mounting the Main Unit (Fig.4)

Slide the main unit onto the bracket from front until it clicks into position. To remove the main unit, pull the main unit forward while depressing the lever on the bracket.

Mounting to Bike (Fig.5 to 12)

- The spokes must run correctly through the inside of the magnet as in Fig. 5.
- Attach the sensor on the right fork. (Fig.6) Adjust the position and clearance as follows:
  1. Align the center of the magnet and the marking line of the sensor. (Fig.7)
  2. A 2mm clearance shall be kept between the sensor and the magnet. (Fig.8)
- Test: Mount the main unit on the bracket. Spin the front wheel to make sure the Current Speed is displayed. If Current Speed does not display, adjust the position of sensor.
- Secure the sensor in position with a secure band. (Fig.9) Insert the front end of the wire clip into the slot of the sensor. Pull the wire clip until it is tight and cut off the excess.
- Wind the wire around the outer cable to reach the handlebar as shown in fig.10 and clamp the wire in position with the wire securing tape.
  Note: Keep a loose length of the wire so that it will not hinder handlebar operation.
- Attach the bracket close to the handle stem. (Fig.11)
- Secure the bracket in position by putting secure bands on the grooves of the bracket. Pull the wire clips until it is tight and cut off the excess. (Fig.12)

HOW TO USE THE DUAL AS A WRIST WATCH

The Dual can be converted to a wrist watch by using with the wrist band.

- Press the main unit onto the ring of the wrist band. (Fig.13-1)
- To remove the main unit, turn the main unit to the left or to the right. (Fig.13-2)

MAINTENANCE/PRECAUTIONS

- Do not leave the main unit exposed to direct sunlight when it is not in use. Do not disassemble the main unit, sensor and magnet.
- Do not pay too much attention to your computer's function while cycling! Keep your eyes on the road situation and give due consideration to traffic safety.
- Do not knock the main unit with other objects.
- Check the relative position of sensor and magnet periodically.
- For cleaning, use neutral detergent on soft cloth and wipe off later with dry cloth. Do not apply paint thinner, benzine or alcohol which may damage the surface.
- The main unit and the battery should be disposed separately. To remove the battery, use a knife or the like to cut the ditch in a circle on the bottom of the main unit and then take out the battery.

The following situations do not indicate malfunction of the cyclocomputer. Check the following before taking to repair.

*** When current speed does not appear, short-circuit the contact on the back with metal. The unit will function normally if the speed display appears.**

Trouble	The entire liquid crystal screen is dark and unusual display is seen where it shall not be. It returns to normal state by leaving it in the shade. No adverse effect on data.
Trouble	Display response is slow. It returns to normal state when temperature rises.
Trouble	Incorrect data appears. Press the AC Button and reset the cyclocomputer.
Trouble	Current Speed does not appear Is the distance between sensor and magnet too great? Are the marking lines of the sensor and the center of magnet aligned? Refer to "Mounting to Bike" and re-adjusts correctly.

SPECIFICATIONS

Display Functions	Display Range	Minimum Display Unit
Current Speed	0.0(3.0) - 62.5mile/h [0.0(4.0) - 105.5km/h]	0.1mile/h [km/h]
Trip Distance	0.00 - 99.99mile [km]	0.01mile [km]
	100.0 - 999.9mile [km]	0.1mile [km]
Total Distance	0.0 - 999.9mile [km]	0.1mile [km]
(Odometer)	1000 - 9999mile [km]	1mile [km]
24-hour Clock	0:00' - 23:59'	1'
Applicable Cycle Sizes	100 cm - 229 cm	Initial value: 203 cm
The length of the wire	70 cm	
Battery Life	approx. 7 years *In case the unit is used as a cyclocomputer with an average of 2 hours per day.	
Dimension	1-25/32" x 1-25/32" x 9/16" (45 x 45 x 14 mm)	
Weight	0.65 oz (18.5 g)	

* The specifications and design are subject to change without notice.