

CAT EYE VELO 1

CYCLOCOMPUTER CC-VL100





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Pat. and Design Pat. Pending
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CCMVL1-990114 Printed in Japan [0687421] 2

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 shall be borne by person desiring service.

(Address for service)
CAT EYE CO., LTD.
2-8-25, Kuwazu, Higashi Sumiyoshi-ku, Osaka 546-0041 Japan
Attn.: CAT EYE Customer Service Section
Service & Research Address for United States Consumers:
CAT EYE Service & Research Center
1705 14th St. 115 Boulder, CO 80302
Phone : 303-443-4595 Toll Free : 800-5CATEYE
Fax : 303-473-0006 e-mail : CatEyeUSA@aol.com

GARANTIE LIMITEE

1 An de Garantie Unité Principale Uniquement (à l'exclusion des accessoires et de la pile)
Ce produit est garanti, sous réserve d'une utilisation normale, pendant une période d'un an. Les réparations effectuées dans le cadre de la présente garantie sont gratuites et doivent être effectuées par CAT EYE Co., Ltd. Le produit à réparer doit être retourné à CAT EYE Co., Ltd. directement par l'acheteur. Tout produit retourné au département de réparation CAT EYE doit être soigneusement emballé et le certificat de garantie ainsi que les instructions de réparation doivent accompagner le produit. Il est conseillé à l'acheteur d'inscrire lisiblement ou de dactylographier ses nom et adresse sur le certificat de garantie, afin que le produit lui soit directement retourné après réparation. Le coût de l'assurance ainsi que les frais de manutention et de transport sont à charge de la personne souhaitant une réparation sous garantie.
(Adresse d'envoi pour réparation)
CAT EYE CO., LTD.
2-8-25, Kuwazu, Higashi Sumiyoshi-ku, Osaka 546-0041 Japan
Attn.: CAT EYE Customer Service Section

GARANTIE

1 Jahr Garantie nur auf den Computer (Die Zubehör-/Montageeile und Batterie sind von Garantieleistungen ausgeschlossen)
Falls während des normalen Gebrauchs Fehler auftreten, wird das entsprechende Teil des Computers kostenlos repariert oder ersetzt. Die Reparatur muß von Cat Eye Co., Ltd durchgeführt werden. Wenn Sie das Gerät einschicken, packen Sie es sorgfältig ein und fügen Sie die Garantiekarte sowie Reparaturanweisung anbei. Achten Sie darauf, Ihren Namen und Ihre Anschrift mit Schreibmaschine oder in Druckbuchstaben deutlich lesbar auf die Garantiekarte zu schreiben. Versicherungskosten und Kosten für den Transport bis zu unserem Kundendienst gehen zu Lasten der Person, die unseren Kundendienst in Anspruch nehmen möchte.
(Anschritt des Kundendienstes)
CAT EYE CO., LTD.
2-8-25 Kuwazu, Higashi Sumiyoshi-ku, Osaka, 546-0041 Japan
Attn.: CAT EYE Customer Service Section

GARANZIA LIMITATA

1 Anno di Garanzia soltanto sull'Unità Principale (Gli accessori e la pila sono esclusi dalla garanzia)
In caso di problema durante l'impiego normale, l'unità principale verrà riparata o sostituita gratuitamente da Cat Eye Co., Ltd.. Al momento del ritorno del prodotto occorre imballarlo con cura allegandovi il certificato di garanzia con le istruzioni per le riparazioni. Il nome e l'indirizzo dell'acquirente devono essere presenti in modo leggibile sul certificato di garanzia. Le spese di assicurazione, di manutenzione e di spedizione al nostro Servizio Riparazioni saranno a carico del richiedente la riparazione.
(Indirizzo Servizio Riparazioni)
CAT EYE CO., LTD.
2-8-25 Kuwazu, Higashi Sumiyoshi-ku, OSAKA 546-0041, Giappone.
Att: Dipartimento Assistenza Clienti

GARANTIE BEPALINGEN

1 jaar garantie op de computer unit (bedrading, magneet, sensor, batterij en bevestigingsmateriaal uitgezonderd)
Indien er problemen optreden gedurende normaalgebruik, binnen de garantie periode, dan geschiedt reparatie of vervanging kosteloos. Dient door de fabrikant Cat Eye Co. Ltd. uitgevoerd te worden. de computer moet door de importeur terug gezonden worden. Bij terugzenden van de computer moet deze zorgvuldig verpakt worden en dient het garantie bewijs, de aankoopbon en een beschrijving van het probleem meegezonden te worden. Verzekering- en verzend- en transportkosten zijn voor rekening van de koper.
(Service adres)
CAT EYE CO., LTD.
2-8-25, Kuwazu, Higashi Sumiyoshi-Ku, Osaka 546-0041 Japan
Attn.: Cat eye consumer service section

GARANTÍA LIMITADA

1 - Año de Garantía Sólo para la Unidad Principal (Se excluyen Accesorios/Acoplamientos y Batería)
En caso de problemas durante su uso normal, la unidad principal será reparada o reemplazada sin coste alguno. El servicio debe ser realizado por el distribuidor CAT EYE en su país. Para enviar el producto al servicio de reparación, empaquételo primero cuidadosamente y no olvide incluir el certificado de garantía e instrucciones para el servicio de reparación. En el certificado de garantía deberá constar su nombre y dirección completa. Los gastos de seguro, manipulación y transporte o correo deberán correr a cargo de quien solicite dicho servicio.
(Dirección para las reparaciones)
CAT EYE CO., LTD.
2-8-25, Kuwazu, Higashi Sumiyoshi-Ku, Osaka 546-0041 JAPAN
ATT: CAT EYE Customer Service Section

Setting Values Cross Reference Table (The tire size is marked on both sides of the tire.)
Table de Correspondance des Valeurs de Réglage (La dimension du pneu figure de chaque côté du pneu)
Wertetabelle zur Einstellung des Radumfanges (die Radgröße entnehmen Sie der Aufschrift des Reifens)
Tabella delle Corrispondenze dei Valori di Regolazione (La dimensione del pneumatico figura su ogni lato del pneumatico)
Tabel voor het bepalen van de wielomtrek (de bandenmaat staat vermeld aan beide zijden van de band)
Tabla de Valores (El tamaño de la rueda está marcado al lado de la llanta)

TIRE SIZE Radgröße dimensione del pneumatico bandenmaat Tamaño de rueda	L(cm)	TIRE SIZE Radgröße dimensione del pneumatico bandenmaat Tamaño de rueda	L(cm)	TIRE SIZE Radgröße dimensione del pneumatico bandenmaat Tamaño de rueda	L(cm)	TIRE SIZE Radgröße dimensione del pneumatico bandenmaat Tamaño de rueda	L(cm)
20 x 1.75	150	26 x 1-1/8 Tubular	197	27 x 1	215	700 x 25C	211
24 x 1	175	26 x 1-3/8	207	27 x 1-1/8	216	700 x 28C	214
24 x 3/4 Tubular	178	26 x 1-1/2	210	27 x 1-1/4	216	700 x 30C	217
24 x 1-1/8 Tubular	179	26 x 1.40	200	27 x 1-3/8	217	700 x 32C	216
24 x 1-1/4	191	26 x 1.50	199	650 x 35A	209	700C Tubular	213
24 x 1.75	189	26 x 1.75	202	650 x 38A	212	700 x 35C	217
24 x 2.00	192	26 x 1.95	205	650 x 38B	211	700 x 38C	218
24 x 2.125	196	26 x 2.00	206	700 x 18C	207	700 x 44C	222
26 x 1 (559mm)	191	26 x 2.1	207	700 x 19C	209		
26 x 1 (650c)	195	26 x 2.125	207	700 x 20C	209		
26 x 1.25	195	26 x 2.35	208	700 x 23C	210		

* The values listed here are not definitive information. Wheel circumference varies with the tire pressure.
* Les valeurs indiquées sont approximatives. La circonférence de roue varie en fonction de la pression de gonflage du pneu.
* Die angegebenen Zahlen sind nur Näherungswerte. Der Radumfang kann je nach Reifendruck verschieden sein.
* De waarden in de tabel zijn niet exact, de wielomtrek is ook afhankelijk van de bandenspanning en het profiel.
* Las medidas aquí mencionadas no son una información definitiva. La circunferencia del neumático varía con la presión del mismo.

Specifications/Caractéristiques techniques/Technische Daten/Caratteristiche tecniche/
Specificaties/Especificaciones
Controller/Système de contrôle/Controler/Elaboratore/Controller/Controlador
4-bit 1-chip Microcomputer (Crystal Controlled Oscillator)
Display/Afficheur/Anzeige/Visualizzazione/Display/Pantalla ----- Liquid Crystal Display
Sensor/Décteur/Sensor/Riveler/Sensor/Sensor ----- No Contact Magnetic Sensor
Operating Temperature Range/Température d'utilisation/zulässige Betriebstemperatur/Toegestane temp./
Werking temperatuur/Rango de Temperatura de Funcionamiento ----- 0°C - 40°C(32°F - 104°F)

1 69-9770
Bracket Sensor Kit for Extra Large Fork (for CC-VL100)
Kit de Montage du collier de Décteur pour fourcheextra large (pour CC-VL100)
Halterung und Radsensor für besonders große Gabeln (für CC-VL100)
Kit di Montaggio del collare del Sensore per forcelle "extra large" (per CC-VL100)
Sensor bevestigingsset voor extra dikke vork (voor CC-VL100)
Kit abrazadera de sensor para horquilla extra larga (para CC-VL100)

1 69-9730
Heavy Duty Wire and Bracket Sensor Kit
Kit Fil Renforcé, Support et Décteur
Draht und Halterung/Sensor-Kit für starke Beanspruchung
Cavo rinforzato e kit supporto dell' unità principale e sensore
Dikke draad- en bracketset
Cable resistente y Kit Soporte del Sensor

1 69-6560 [# 1 69-6565]
Bracket Sensor Kit [Long]
Kit Support et Décteur [Long]
Halterung/Sensor-Kit [lang]
Kit supporto dell'unità principale e sensore [Lungo]
Draadset [lang]
Kit Soporte del Sensor [Grande]

1 69-6567 [# 1 69-6562]
Center Mount Bracket Kit [Long]
Kit Support pour Montage Central [Long]
Halterungsskit für Mittelmontage [lang]
Kit per montaggio del ciclocomputer al centro del manubrio [Lungo]
Draadset centrale bevestiging [lang]
Kit Soporte para Montaje Central [Grande]

1 69-6568
Bracket Sensor Kit for Aero Bar
Kit Support et Décteur pour Barre Aéro
Halterung/Sensor-Kit für Aero-Stange
Kit supporto sensore per ruote Aero
Draadset stuurpen bevestiging
Kit Soporte del Sensor para Manillar Aero

1 69-6569
Stem Mount Bracket Kit
Kit Support pour Montage sur Broche de Guidon
Halterungsskit für Montage am Lenkerschaft
Kit per montaggio sull'attacco del manubrio
Draadset stuurpen bevestiging
Kit Soporte para Montaje en Potencia

1 69-9750
Attachment Kit (For Heavy Duty Wire)
Kit de Gamitures (Pour fil renforcé)
Befestigungsmaterial (Für Hochleistungskabel)
Guarnizioni da montare (Per cavo rinforzato)
Kabelbevestigingsset (Voor dikke draad)
Elementos de fijación (Para cable resistente)

1 69-6170
Attachment Kit
Kit de Gamitures
Befestigungsmaterial
Guarnizioni da montare
Kabelbevestigingsset
Elementos de fijación

1 69-9751
Attachment Kit (For CC-VL100)
Kit de Gamitures (Pour CC-VL100)
Befestigungsmaterial (Für CC-VL100)
Guarnizioni da montare (Per CC-VL100)
Kabelbevestigingsset (Voor CC-VL100)
Elementos de fijación (Para CC-VL100)

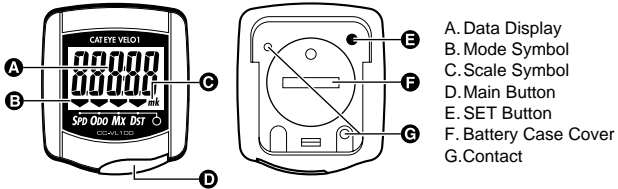
1 69-6280
Universal Sensor Band
Collier Décteur Universel
Universalmontageband für Sensor
Fascetta universale per fissaggio sensore
Universele vorklem
Banda Sensor Universal

1 69-9760
Wheel Magnet for Composit Wheel
Pour roue composite
Für Verbundräder
Magneete per ruote
Voor o.a. carbonwielen
Para rueda de palos

1 66-5120
Wheel Magnet
Aimant de Roue
Radmagnet
Magneete per ruota
Wielmagnet
Iman de Rueda

1 66-5150
Lithium Battery (CR2032)
Pile au Lithium (CR2032)
Lithiumbatterie (CR2032)
Batteria al litio (CR2032)
Lithiumbatterij (CR2032)
Bateria de Litio (CR2032)

E INSTRUCTION MANUAL



Precautions

- Don't pay too much attention to your computer functions while riding. Keep your eyes on the road and give due consideration to safe riding.
- Securely attach the magnet, sensor and bracket to your bicycle. Periodically check if the screws and secure bands have loosened.
- Safely dispose of the old battery. Do not place it within children's reach. If swallowed by mistake, consult a doctor immediately.
- Do not leave the main unit exposed to direct sunlight. Never disassemble the main unit.
- For cleaning, use neutral detergent on soft cloth, and wipe off with dry cloth. Do not apply paint thinner, benzine or alcohol, to avoid damages on the surface.
- If there is mud, sand or the like clogged between the button and the body, the movement of the button may be deteriorated. Softly wash away such objects with water.

Main Unit Preparation

When using the unit for the first time or after replacing battery, follow this procedure.

All Clear Operation

- Press Main button and SET button simultaneously. → All displays illuminate, and then "k" symbol flashes.

Scale Selection

- Press Main button and select "k (km)" or "m (mile)".

Press SET button to fix it

Wheel Circumference Setting

- Increase the figure by Main button (to increase rapidly, hold down the button).

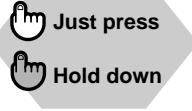
Press SET button to fix it

Preparation Completed

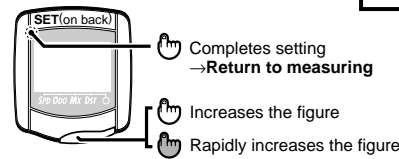
All Clear Operation



Button Operation



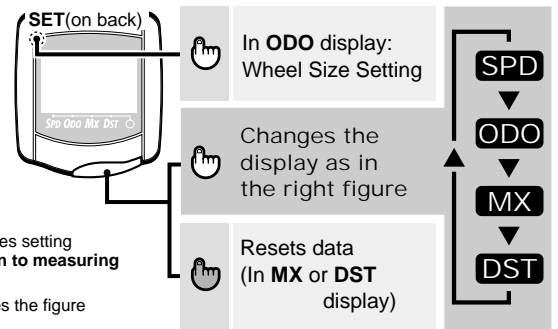
In Wheel Circumference Setting Display:



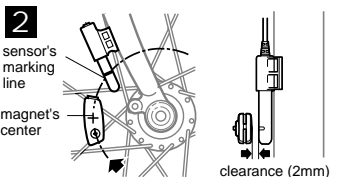
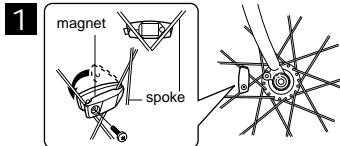
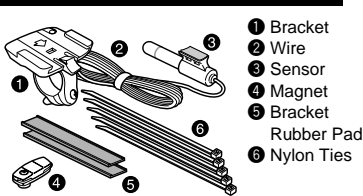
In Ordinary Display

When you start/stop riding, the unit automatically starts/stops measuring.

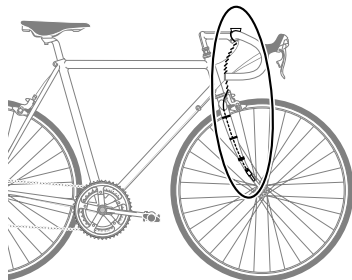
While measuring, the scale symbol "k" or "m" flashes.



How to Install



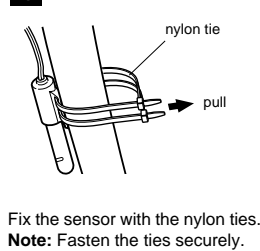
Align the magnet's center and the sensor's marking line. Make sure of 2mm clearance between the magnet and sensor. Temporarily attach the sensor to the fork with the self-adhesive patch.



3 Test

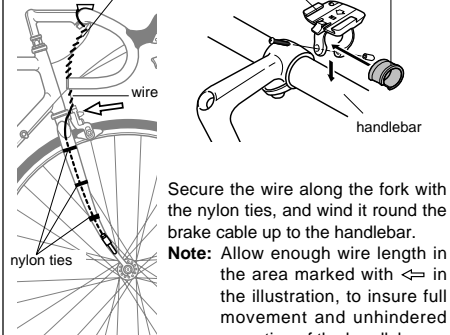
Slide the main unit onto the bracket according to "How to Attach Main Unit to Bracket" (below). Spin the front wheel and check if the scale symbol flashes. (If not, adjust the relative positions of the magnet and sensor again.) After the test, remove the main unit.

4



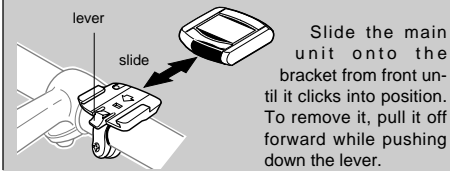
Fix the sensor with the nylon ties. **Note:** Fasten the ties securely.

5



Secure the wire along the fork with the nylon ties, and wind it round the brake cable up to the handlebar. **Note:** Allow enough wire length in the area marked with ↔ in the illustration, to insure full movement and unhindered operation of the handlebar.

How to Attach Main Unit to Bracket



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



SPD Current Speed
0.0(4.0) - 100 km/h ±1 km/h [0.0(3.0) - 60 mph ±1] (under 60 km/h)
The data is updated once a second.
When it reaches 60km/h (or 60mph), the decimals are omitted.



ODO Total Distance (Odometer)
0.0 - 9999.9 km [mile] ±0.1 km [mile]
Continuously measured until battery wears down.
At 9999.9 km, it returns to zero and counting begins anew.



MX Maximum Speed
0.0(4.0) - 100 km/h ±1 km/h [0.0(3.0) - 60 mph ±1]
Displays the highest recorded speed. When it reaches 60 km/h (or 60 mph), the decimals are omitted. With reset operation, it returns to zero.



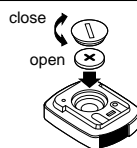
DST Trip Distance
0.00 - 999.99 km [mile] ±0.01 km [mile]
The trip distance from start to current point is displayed. With reset operation, it returns to zero.



Power Saving Function
When the main unit does not receive a signal, or a button has not been pressed for about 70 minutes, the power supply is shut down and only mode mark flashes. By pressing the Main button, or by receiving signal, this function is released.

Trouble Shooting

- No display.**
 - Has the battery in the main unit worn out? Replace it with a new one.
- Incorrect data appears.**
 - Do "All Clear" operation.
- Current speed does not appear. (When current speed does not appear, first short-circuit the contact on the back with metal; if the speed display appears, the main unit is normal and the problem must be in the bracket or the sensor.)**
 - Is there anything on the contact of the main unit or of the bracket? Wipe the contact clean.
 - Is the distance between the sensor and the magnet too far? Are the marking line of the sensor and the center of magnet aligned? Adjust the position of the sensor and magnet again.
 - Is the wire broken? Replace it with a new one.
- Current speed does not appear in wet condition.**
 - Wipe the contacts with dry cloth. Contacts can also be treated with a water repellent silicon jelly from an automotive parts store or hardware store. Do not use industrial water repellent; it may damage the bracket.



How to Replace Battery

When the display becomes dim, the battery is at the end of its useful life. Replace it with a new lithium battery (CR2032) with the (+) pole upward. After replacing battery, be sure to perform "All Clear" operation and set the scale and wheel size again, as in the "Main Unit Preparation".

Specifications

- Applicable Wheel Circumference -- 112cm - 255cm (initial figure: 205 cm)
 - The length of the wire ----- 70cm
 - Power Supply ----- Lithium Battery (CR2032) x 1
 - Battery Life ----- Approx. 3 years (The life of the first factory-loaded battery may be shorter than this period.)
 - Dimension/Weight ----- 1-25/32" x 1-9/16" x 5/8" [45 x 40 x 15.5 mm] / 0.85 oz. [24 g]
- * The specifications and design are subject to change without notice.