

CICLOMASTER

CM 434 CM 436M

Package-content

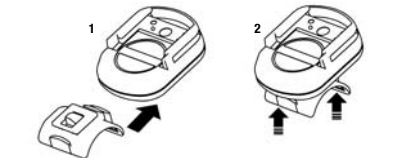


Dear CICLOMASTER-Owner, congratulations, the **CICLOMASTER CM 434/436M** is an extremely efficient bicycle-computer, which will offer you valuable information during and about every training sequence. The **CICLOMASTER CM 434/436M** possesses the most modern electronics and is absolutely waterproof, so that you can use it in all types of weather. Furthermore the **CICLOMASTER CM 434/436M** is convincing because of its long lifespan, since our team has developed it with the highest amount of precision possible and has manufactured in best quality.

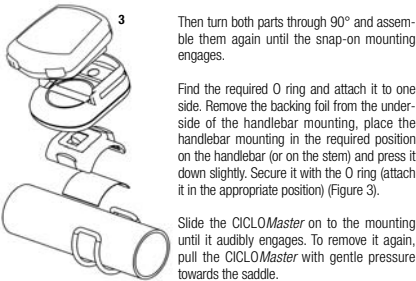
Please read through this descriptive and easily comprehensible instruction manual carefully. We are sure that you will then have a great amount of enjoyment and pleasure with your new **CICLOMASTER CM 434/436M**.

Yours Sincerely,
The CICLOMaster team

1. Install the handlebar mounting



The handlebar mounting can be installed on a stem. To do this the top section of the handlebar mounting must be removed from the bottom section (see Fig. 1). To make it easier to remove the top section carefully push the sides of the bottom section upwards slightly (see Figure 2).

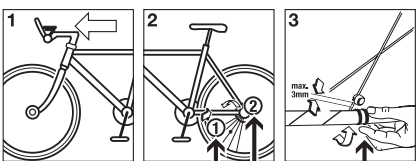


Attach the **transmitter** by using the plastic bands and the cable-ties to the front side of the right shaft or the back side of the link shaft (the flat side of the transmitter must face towards the inside) no further than 60 cm away from the computer. Do not yet pull the cable-ties tight. Make sure that the transmitter's battery cap is facing up and that the transmitter and computer are both attached to the same side of the bicycle.

Attach the **magnet** to the spokes directly across from the transmitter so that the marking on the magnet point directly to the flat side of the transmitter. Be careful not to overwind the screw for attaching the magnet. **Turn the transmitter so that the distance between the transmitter and the magnet is not more than 3 mm.** If necessary, put something underneath the sensor. To check if the computer has been attached correctly, please turn the wheel a couple of times to see if it receives a signal. Last, but not least, pull the cable-ties tight and out of what is too long. Push the **CM 434/436 M** in arrow-direction on the holder, until it locks. It can be taken out easily by means of applying light pressure in saddle-direction.

2. Mounting of Cadence holder

Place holder in the desired position on the handle-bars so that the arrow on the holder is pointing in riding-direction (fig. 1). If necessary, place rubber-strips underneath the holder. Tighten the screw of the holder.



Place the sensor-cables with the two sensors for pedaling-frequency (1) and back-wheel (2) in the right position (fig. 2). If necessary, secure with cable-ties or with tape. Place the sensor at the shorter cable-end on the left chain-brace in height of the crank with help of cable-ties so that it is still loose enough to be lined up. Place the other sensor further back at the left brace in same manner. The pedaling-frequency-magnet should be placed on the inside, of the left crank and be secured with cable-ties. The sensor should have no more spacing than a total amount of 3 mm. Place the spoke-magnet on a spoke on the back-wheel on the left side, so that the maximum spacing between the sensor amounts to no more than 3 mm (fig. 3). If necessary, put something underneath the sensor. The magnets must point exactly to one of the two grooves on the sensor. Now tighten the cable-ties and cut off the ends which are too long. Push the **CICLOMaster** in arrow-direction on the holder, until it locks (fig. 1). It can be taken out easily by means of applying light pressure in saddle-direction.

3. Start-up

Putting in the battery

Screw off cap on the rear to the left of the computer with help of a coin. Put in a 3V-Lithium-Battery Type CR 2032 with the plus-pole pointing upward. Screw cap back on. If nothing or incomprehensible signs appear in the display, press the AC-Button on the rear of the computer with help of a ballpoint pen or a similar object. The **CICLOMaster** is now in the "No Bike" mode.

4. General Information

When a ① appears in the display on the upper left, the indicated values refer to bike 1. In order to show the values for bike 2, press both buttons simultaneously shortly (switching is only possible, if the speed = 0). In the display appears on the upper left a ②. If both buttons are pressed shortly simultaneously again, the ② vanishes and the speed display and the **CICLOMaster CM 434/436 M** are in the so-called "No Bike" mode. This means it now shows only the bicycle-independent values (height-values, temperature, time). By means of pressing both buttons shortly again, ① appears in the upper left of the display again and the values displayed are valid for bike 1.

CM 434: The daily amounts can be put back to 0 by means of pressing both buttons 5 sec. long simultaneously (best directly before beginning a new tour). Simultaneously the actual altitude is set to the home value (if noticed). To clear all total values (and all settings) remove the battery or press the AC-button on the back.

CM 436 M: In order to access all CM 436 M readings, including maximum and average values, the CM 436 must be set to record (see chapter 7). When a new recording is started, all "day" values are set to zero and the current altitude reading is forced to the home setting. To clear the **CM 436 M** (and to reset all values, settings and memory), press and hold both buttons simultaneously and briefly press the AC button (which is on the back of the CM 436 M). Release the two buttons – resetting will be complete once the display has counted up and reverted to the normal display.

5. Basic Settings

If the **CICLOMASTER CM 434/436M** is to be used with 2 bicycles, the first three settings must be entered separately for each bicycle. Therefore once if ① is being displayed and once with ②.

The following is valid for all settings:

The blinking value can be changed with the right button, the value is stored by shortly pressing the left button and the next value blinks or the next value appears on the display. By means of pressing the left button for 3 seconds, the setting mode can be turned off immediately. All settings and values always refer to the corresponding bicycle (① or ② is displayed). Press both buttons as many times necessary, simultaneously until left above ① appears.

Press the right button as many times as necessary, until the following appears in the display:



Press the left button for 3 seconds, and this now appears in the display:



Daily amount of kilometers 1 as well as 2 setting

Setting with right or left button
Start setting = 0 km
Setting Range min = 0.00 km
Setting Range max = 999.99 km



Here, the daily amount of kilometers can be set, for example the time of starting a trip when using a printed tour-guide.

Circumference of the wheel: Bike 1 as well as 2

Setting with right or left button
Start setting = 2080 mm
Setting Range min = 0 mm
Setting Range max = 9999 mm

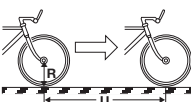


The circumference of the wheel can be taken from the following chart or measured yourself.

Tire-size	Circumference	Tire-size	Circumference
40-559	26x1,5	40-622	28x1,5
44-559	26x1,6	40-622	28x1,75
47-559	26x1,75	40-635	28x1 1/2
50-559	26x1,9	37-622	28x1 3/8
54-559	26x2,00	20-622	700x20C
57-559	26x2,125	23-622	700x23C
37-590	26x1 3/8	25-622	700x25C
37-590	26x1 3/8	28-622	700x28C
32-620	27x1 1/4	32-622	700x32C

Measuring the circumference of the wheel (for a more precise setting):

Put a marking at the front-tire and on the ground (e.g. with chalk). Ride straight ahead exactly one turn of a tire (for a very exact measurement, check your tire-pressure before getting on your bike) and mark this position on the ground. Now measure the exact circumference of the wheel between the two markings at the ground (in mm).



Total-kilometers 1 as well as 2 setting

Setting with right or left button
Start setting = 0 km
Setting Range max = 99999 km



The total amount of kilometers ridden can be put in, for example after a battery-change.

The following settings are valid for bike 1 and 2:

Unit of measurement kilometers / meter or miles / foot

switch with right button
Here, one puts in, whether in kilometers (distance) or meters (height) or in miles and foot should be measured and displayed.

Temperature-setting

*Celsius or *Fahrenheit
Setting Range min = -19°C as well as -2°F
Setting Range maximum = +60°C as well as +140°F
switch with right button

Here, one puts in, whether the temperature-setting should take shown in *Celsius or *Fahrenheit.

Pedaling-frequency-measurement (optional)

On or Off
switch with right button

Here, the setting of the pedaling-frequency-measurement can be switched on. A blinking "C" means in the display means that the pedaling-frequency-measurement is off. If the "C" doesn't blink, it is on. After 4 minutes (or pressing of the left button) the display returns to the original display (daily amount of kilometers).

To put in the altitude-values, press the right button as many times necessary until the following appears in the display:



This display now appears by means of pressing the left button for 3 seconds.

Changing the actual altitude

Setting with right or left button
Setting Range: -9999 m to +9999 m



The current altitude can be changed here. For example if it is determined during a tour, that the **CICLOMASTER CM 434/436M** deviates from the actual altitude (can occur through atmospheric pressure-fluctuations). A change of the current altitude has no influence on the other altitude-functions (e.g. total-altitude in meters). Only the function maximum altitude alters its value, if the inputted altitude exceeds the highest altitude reached up to this point in time.

Beginning value for the altitude-measurement (home)

Setting with right and left button
Start setting = "----"
Setting Range min = "----"
Setting Range max = 9999 m



The **CICLOMASTER CM 434/436M** possesses a barometric altitude-measurement that adapts itself to temperature-fluctuations automatically, however through atmospheric pressure-alterations (e.g. during the night) display fluctuations can occur. In order to avoid these fluctuations as much as possible, a beginning altitude can be inputted (e.g. that of the home town, if most trips are started from there). Each time the daily values are put back they are put back to the home value. This value should be changed when you are using the **CICLOMASTER CM 434/436M** in another place for a longer period of time (e.g. when on vacation).

No value is declared here (altitude 00000 → ad "----"), the **CICLOMASTER CM 434/436M** takes the current altitude-value which is shown in the display.

After 4 minutes (or by means of pressing of the left button), the original display appears.

Setting the weight (necessary for the performance-evaluation). Press the right button as many times as necessary until the following display appears:



This display now appears by means of pressing the left button for 3 seconds:

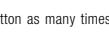
Weight inputs

Setting with right and left button
Start setting = 75 kg
Setting Range min = 0 kg
Setting Range max = 199 kg



The total-weight of the rider with material (e.g. luggage and bicycle is required to calculate the performance and is put in here). After 4 minutes (or by means of pressing of the left button) the original display returns.

Setting the time and the date: Press the right button as many times necessary until the following display appears:



This display now appears by means of pressing the left button for 3 seconds.

Setting the Time

Setting with right and left button
Setting Range = 00:00 - 23:59
or 00:00 - 12:59; when AM, the colon blinks



Here, the current time is set in the 24-hour form. If you later choose to use the 12-hour form, the **CICLOMASTER CM 434/436M** converts the time automatically.



Month / day setting

Setting with right and left button
Setting Range day = 1 - 31
Setting Range month = 1 - 12



The current date is put in here.

Year setting

Setting with right and left button
Setting Range = 1990 - 2100



The current year is put in here.

Time-display - 24-hour or 12-hour (AM / PM)



switch with right button

If the 12-hour-setting is chosen, the colon blinks during AM-time between the hours and minutes. It doesn't blink during PM-time. After 4 minutes (or by means of pressing the left button) switches back to the original display again.

Now, the basic settings are completed.

6. Menu-Management

In this chapter, the menu-management is also shown pictorially.

When riding, the momentary-speed is shown with all main-functions in the Display above. In regards to switching from bike 1 to bike 2 as well as in the "No Bike" Mode (see chapters 2.1 general).

The **main-functions** can be called up separately one after the other by pushing the right button **forward** and by pushing the left button **backwards**.

The respective sub-functions modes are called by pressing the right button for 3 seconds. The next sub function is displayed by briefly pressing the right button.

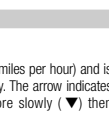
All functions (except the time) have an automatic start / stop while riding, this means the measurement starts with the first turn of the tire and finishes 4 seconds after the last turn of the tire.

Particularities of CM 434/436M – see chapter 7. The functions time, altitude and temperature are always calculated (also while resting), but not their sub-functions. The following is valid for all sub-functions: the sub-function appears approximately 10 seconds, then the respective main-function appears again. By means of pressing the right button for 3 seconds, the display immediately jumps back to display the main-function.

Current speed

Always shown in mode ① or ② above. Measures the current speed in km/hr (as well as m/hr = miles per hour) and is always shown with the main functions in the upper display. The arrow indicates (left) whether you are riding more quickly (▲) or more slowly (▼) than momentary average-speed.

Setting Range: 0 -160 km/h as well as mph



Daily amount of Kilometer

Shows the amount of kilometers ridden up to this time on a daily basis.
Setting Range: 0 - 999.99 km as well as m



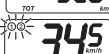
Sub-functions

1. - **actual daily amount of kilometers**
Sub-function of the main-function daily amount of kilometers.
If the daily amount of kilometers were changed in the basic setting, the actual daily amount of kilometers ridden are shown here. If not, the sum of the daily amount of kilometers ridden of bike 1 and 2 are shown.
Setting Range: 0 - 999.99 km as well as m



2. - **Total-kilometers**

Sub-function of the main-function daily amount of kilometers.
Shows the total amount of kilometers ridden.
Setting Range: 0 - 99999 km as well as m



3. - **Sum of the total-kilometers (bike 1 + bike 2)**

Sub-function of the main-function current performance of kilometers.
The sum shows the total amount ridden with bike 1 and bike 2.
Setting Range: 0 - 99999 km as well as m



Current altitude

The momentary altitude is displayed in meters (over sea level). The measurement takes place (also for the sub-functions) in 1 meter-steps. Since the altitude is measured by means of atmospheric pressure-measurement, it is weather-dependent.
Setting Range: -200 - 8200 m



Hint: The altitude-meters are only added (in five-meter-steps), if signals are received from the bike. The altitude-meters are always added together in the "No Bike" mode.

Sub-functions

1. - **daily amount of meters – upward**
Sub-function of the function current altitude shows the altitude-meters gone until now going upward.
Setting Range: 0 - 65535 m (starts with 0 again)



2. - **Sum of the daily altitude in meters – upward**

Sub-function of the main-function current altitude.
The sum shows (bike 1 and bike 2) the altitude meters gone until now going upward.
Setting Range: 0 - 65535 m



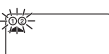
3. - **daily amount of meters – downward**

Sub-function of the main-function current altitude shows the altitude-meters gone until now going downward
Setting Range: 0 - 65535 m



4. - **Sum of the daily altitudes in meters – downward**

Sub-function of the main-function current altitude.
The sum shows (bike 1 and bike 2) the altitude meters gone until now going downward.
Setting Range: 0 - 99999 m (the first number appears in the upper display)



5. - **Sum of the total-altitude-meters upward**

Sub-function of the main-function current altitude.
The sum shows (bike 1 and bike 2) all total-altitude-meter lain back until now upward.
Setting Range: 0 - 99999 m (the first number appears in the upper display)



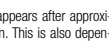
6. - **Maximum altitude**

Sub-function of the main-function current altitude.
Shows the highest altitude reached (as well as put in).
Setting Range: -200 - 8200 m



Current ascents / descents

The momentary ascent being ridden is shown as well as the momentary ridden descent in percent. The symbol appears in the display on the left, whether it is an ascent (▲) or a descent (▼).

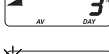


Setting Range: 0 to 99%

Notice: Due to technical capacities, the correct percent appears after approximately 50 – 100 m after an ascent or descent has begun. This is also dependent on the speed.

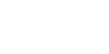
Sub-functions

1. - **Average ascent**
Sub-function of the main-function current ascents / descents.
The actual average ascent is shown.
Setting Range: 0 to 99%



2. - **Average descents**

Sub-function of the main-function current ascents / descents.
The actual average descent is shown.
Setting Range: 0 to 99%



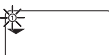
3. - **Maximum descent**

Sub-function of the main-function current ascents / descents.
The highest ascent is shown.
Setting Range: 0 to 99%



4. - **Maximum descent**

Sub-function of the main-function current ascents / descents.
The highest descent is shown.
Setting Range: 0 to 99%



Current gain or loss in altitude (Variometer function)

Shows the current gain in altitude (▲) or loss in altitude (▼) in meters per hour. This function is interesting for mountain-climbers, cyclists, skiers and ski tourists.
Setting Range: 0 to 99900 m/h or ft/h (shown in 100m-steps)



Notice: Due to technical capacities, the correct value appears a few seconds after beginning of the gain or loss in altitude.

Sub-function

1. - **average gain in altitude**
Sub-function of the main-function current gain or loss in altitude. Shows the average amount of altitude gained.
Setting Range: 0 to 99900 m/h as well as ft/h



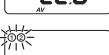
Average-speed

The average-speed is shown.
Setting Range: 0 to 160 km/h as well as mph



Subfunctions:

1. - **Overall average-speed**
Sub-function of the main-function average-speed. Shows the calculated average speed from bike 1 and bike 2.
Setting Range: 0 to 160 km/h as well as mph



2. - **Maximum-speed**

Sub-function of the main-function average-speed. It shows (with the