

[LV-2000A] WIRELESS CYCLE COMPUTER

Wireless Cycle Computer/ Intelligent  
Coaching Software  
Instruction Manual



Taiwan Biotronic Technology Inc  
.No.69, Gongjiao St., Dali Dist., Taichung City 412,  
Taiwan (R.O.C.)  
<http://www.biotronic.com.tw>

Love exercising? Start with Lifevisa!  
We work hard because we care

<http://www.biotronic.com.tw>

Getting Started .....	2
Product Features of the LV-2000A .....	2
Components .....	3
Optional Accessories .....	3
Before Using .....	4
Charging the LV-2000A .....	4
Assembling the LV-2000A .....	4
Using the LV-2000A .....	5
Keys .....	6
Functions .....	6
First-Time Usage Operation Procedure .....	9
Time Settings .....	13
Personal Data Settings .....	13
Date Settings .....	
Start Recording Exercise .....	15
Clearing Current Data Setting .....	16
Message Section Symbols .....	16
Intelligent Coaching Software .....	17

Thank you for using a Lifevisa product. This instruction manual includes information on how to properly use the LV-2000A, so please read carefully before usage. In this section, you will become familiar with the main features, setting up your device, and basic features of the user interface.

## Product Features of the LV-2000A

The LV-2000A is a multi-functional, large screened, high-tech cycle computer that can satisfy anyone who enjoys sharing cycling statistics with friends. The LV-2000A can record every detail of your cycling, and the data can be professionally analyzed by the software included. The data can also be easily shared to improve exercise results and achieve personal goals.

- \* Large liquid-crystal display (LCD) screen
- \* In-built rechargeable battery
- \* Can store 99 cycling data
- \* Simple, easy to use data selection key
- \* Highly accurate readings
- \* Views, records, and analyzes exercise data
- \* 2.4GHz wireless transmission technology, without interference



## Components

### Wireless Cycle Computer



Main



Heart Rate  
Chest Strap



Speed  
Sensor



Cadence Sensor



Adjustable  
Stand

### LV-2000A Series and Optional Accessories

LV-2000A3 : Main Computer + Heart Rate Chest Strap + Speed Sensor +  
Cadence Sensor

LV-2000A2 : Main Computer + Speed Sensor + Cadence Sensor

LV-2000A1 : Main Computer + Heart Rate Chest Strap + Speed Sensor

Optional accessories can be chosen by a user's individual needs.



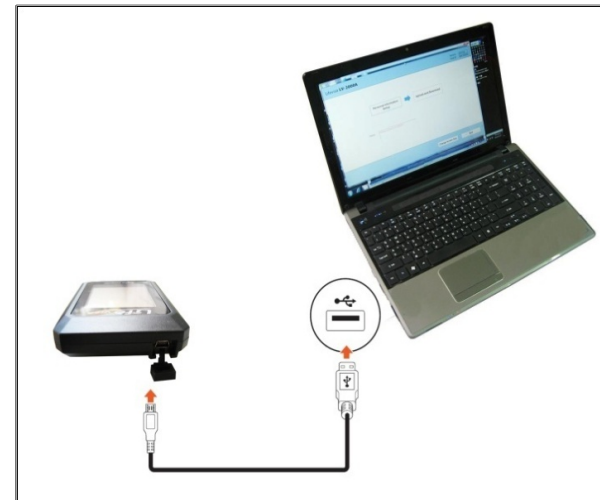
## Before Using

### Charging

Before using the LV-2000A, please make sure the device is fully charged. Before the first time using the device, please charge for at least 8 hours to ensure the batteries are fully charged. To charge, please prepare a USB cable.

### Steps:

1. Open the water-proof cap at the top of the LV-2000A.
2. Plug the micro USB cable into the LV-2000A's micro USB port.
3. Connect the other end of the USB cable to a computer USB port.



### Assembling LV-2000A

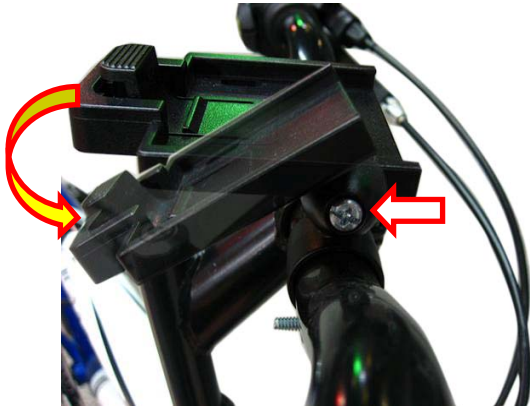
To assemble LV-2000A, a Phillips screwdriver is needed.

1. Place the adjustable stand on the bicycle handle, and use a screwdriver to secure the stand in place.





2. Adjust the stand vertically to a suitable viewing angle for biking, and tighten the screw.



3. Place the main computer into the adjustable stand, and adjust horizontally to a suitable viewing angle.



## Using the LV-2000A

### Keys

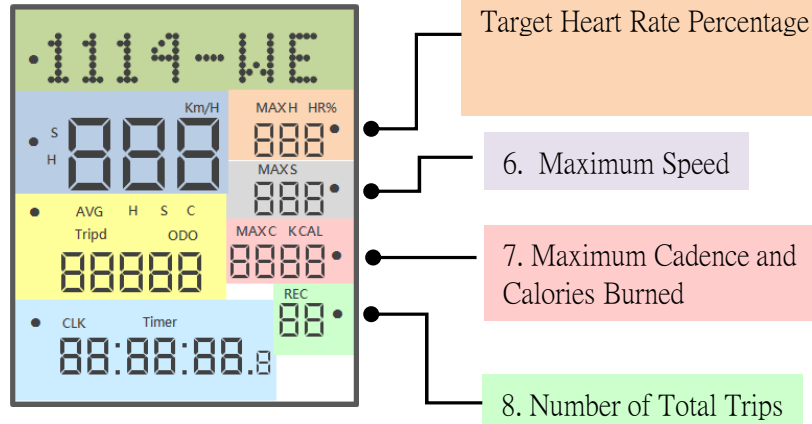


- ❶ Enter Key: press to submit data
- ❷ Up/Down Key: press to adjust operations or numerical data in each section
- ❸ Selection Key: press to adjust through the 8 functions of the LV-2000A

### Functions

1. Message Section	1114-WE																		
2. Current Heart Rate and Speed	<table border="1"> <tr> <td>S</td> <td>Km/H</td> <td>MAXH</td> <td>HR%</td> </tr> <tr> <td>•</td> <td>888</td> <td>888</td> <td>888</td> </tr> <tr> <td>H</td> <td></td> <td>MAXS</td> <td></td> </tr> <tr> <td>•</td> <td></td> <td>888</td> <td></td> </tr> </table>	S	Km/H	MAXH	HR%	•	888	888	888	H		MAXS		•		888			
S	Km/H	MAXH	HR%																
•	888	888	888																
H		MAXS																	
•		888																	
3. Average Heart Rate, Speed, Cadence, Trip Distance, and Total Distance	<table border="1"> <tr> <td>AVG</td> <td>H</td> <td>S</td> <td>C</td> <td>MAXC</td> <td>KCAL</td> </tr> <tr> <td>•</td> <td>88888</td> <td>8888</td> <td>8888</td> <td>8888</td> <td>8888</td> </tr> <tr> <td>Tripd</td> <td>ODO</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	AVG	H	S	C	MAXC	KCAL	•	88888	8888	8888	8888	8888	Tripd	ODO				
AVG	H	S	C	MAXC	KCAL														
•	88888	8888	8888	8888	8888														
Tripd	ODO																		
4. Clock and Timer	<table border="1"> <tr> <td>CLK</td> <td>Timer</td> <td>REC</td> </tr> <tr> <td>•</td> <td>88:88:88.8</td> <td>88</td> </tr> </table>	CLK	Timer	REC	•	88:88:88.8	88												
CLK	Timer	REC																	
•	88:88:88.8	88																	

**Life Visa**



### 1. Message Section

Function:

- Displays month, date, and day of week.
- Set-up Personal Data.

Procedure: press the **【Selection Key】**, and when the dot appears in the Message Section, press the **【Up/Down Key】** to enter data.

Note:

Besides entering personal data via the LV2000 main computer itself, data can also be entered via the LV-2000 application software.

### 2. Current Heart Rate and Speed

Function:

Displays heart rate and speed while cycling.

Procedure: press the **【Selection Key】**, and when the dot appears in this section, press the **【Up/Down Key】** and select "S"(Speed) or "H"(Heart Rate). Now the speed or heart rate is visible during cycling, and press the **【Enter Key】** to finish.

### 3. Average Heart Rate, Speed, Cadence, Trip Distance, and Total Distance

Function

### 4. Clock and Timer

88:88:88.8

**Life Visa**

### 4. Clock and Timer

Function

Displays current time or timer.

Procedure: press the **【Selection Key】**, and when the dot appears in this section, press the **【Up/Down Key】** to adjust "CLK" (Clock) or "Timer" (Timer) to display the clock or timer during cycling, and press the **【Enter Key】** to finish.

### 5. Maximum Heart Rate and Target Heart Rate Percentage

Function

Displays maximum heart rate and target heart rate percentage.

Procedure: press the **【Selection Key】**, and when the dot appears in this section, press the **【Up/Down Key】** to select to "MAX H"(Maximum Heart Rate) or "HR%"(Target Heart Rate Percentage), and press the **【Enter Key】** to finish.

### 6. Maximum Speed

Function

Displays "MAX S" (Maximum Speed).

### 7. Maximum Cadence and Calories Burned

Function

Displays maximum cadence and calories burned.

Procedure: press the **【Selection Key】**, and when the dot appears in this section, press the **【Up/Down Key】** to select to "MAX C"(Maximum Cadence) or "K CAL"(Calories Burned) during cycling, and press the **【Enter Key】** to finish.

### 8. Number of Total Trips

Function

Displays number of total trips.

Displays average heart rate, speed, cadence, trip distance, and total distance

Procedure: press the **【Selection Key】**, and when the dot appears in this section, press the **【Up/Down Key】** to adjust to desired numbers during cycling, "AVG H" (Average Heart Rate), "AVG S" (Average Speed), "AVG C" (Average Cadence), "Tripd" (Trip Distance), or "ODO" (Total Cumulative Distance), and press the **【Enter Key】** to finish.

7



### First-Time Usage Operation Procedure

#### STEP 1.

Pressing any button will power on the LV-2000A, and the Message Section will display "WELCOME TO LV2000A."

Note: The LV-2000A will automatically turn off, no button pressing is necessary.

#### STEP 2.

When using the LV-2000A for the first time, the system will ask you for basic information, in the order of:

(1) **【Y r ? 2 0 \_\_\_\_】** :

Press the **【Up/Down Key】** to enter the year, then press the **【Enter Key】** to move on to the next selection.



(2) **【M t h ? \_\_\_\_】** :

Press the **【Up/Down Key】** to enter the month, then press the **【Enter Key】** to move on to the next selection.



(3) **【D t ? \_\_\_\_】** :

Press the **【Up/Down Key】** to enter the date, then the **【Enter Key】** to move on to the next selection.



(5) **【C I R : 2 0 7】** :

Press the **【Up/Down Key】** to enter wheel circumference (ranging from 72-231 cm; 207 cm being the default circumference).

Press the **【Enter Key】** to move to the next selection



(6) **【U N T : K M】** :

Press the **【Up/Down Key】** to select the unit. K stands for Kilometers, and M for Miles.

Press the **【Enter Key】** to move to the next selection



(7) **【A G E : 2 0】** :

Press the **【Up/Down Key】** to enter age (ranging from 16-65 years old; 20 years being the default age).

Press the **【Enter Key】** to move to the next selection



(8) **【H I : 1 7 2 C】** :

Press the **【Up/Down Key】** to enter height (ranging from 50-220 cm; 172 cm being the default height).

Press the **【Enter Key】** to move to the next selection



8



(4) 【WEEK ? MN】 :

Press the 【Up/Down Key】 to enter the day of the week, then press the 【Enter Key】 to finish set-up.

MN stands for Monday, TU for Tuesday, WE, for Wednesday, TH for Thursday, FR for Friday, SA for Saturday, and SU for Sunday.



(9) 【WT : 0 6 2 K】 :

Press the 【Up/Down Key】 to enter weight (ranging from 20-250 kg; 62 cm being the default weight).

Press the 【Enter Key】 to move to the next selection



(10) 【BMI : 2 1 -】 :

The system will calculate BMI according to the information recorded. High, middle, and low values will be indicated by "↑", "-", and "↓" respectively.

Note:

After BMI is calculated, press the 【Enter Key】 to enter system.



STEP 3.

To connect the Heart Rate Chest Strap, Speedometer, and Cadence Sensor.

If accessories for the LV-2000A are not yet connected to the main computer, the Message Section will display "NO HRM SENSOR CONFIG", "NO SPEED SENSOR CONFIG", or "NO CANDENCE SENSOR CONFIG."

Procedure

Press the 【Selection Key】 to adjust to the Message Section to enter information. Please follow the steps below to connect the Heart Rate Chest Strap:

(1) 【Ent ? Y Q】 :

Asks whether to enter and confirm information or not;press the 【Up/Down Key】 to select Y to confirm, Q to quit. Select Y to continue.



(2) 【DC ? Y N Q】 :



(3) 【AS? Y N Q】 :

Asks whether to enter device registration or not; select Y to confirm, and N to skip to next step, Q to quit. Select Y to continue.

(4) 【NS ? H S C Q】 :

Asks whether the device is registered or not; H stands for the Heart Rate Chest Strap, S for the Speedometer, and C for the Cadence Sensor; press the 【Up/Down Key】 to select one of the mentioned devices; then select Q to quit.

(5) 【CFG ? Y N Q】 :

Asks whether to make a connection; select Y to confirm, N to skip to the next step, and Q to quit;press the 【Up/Down Key】 to select Y to continue and the system will search for a connectable device for 1 minute, and select a device in this time.

The Message Section will display "CFG→→→→→", meaning the system is searching for connectable devices.

If none are found, the Message Section will display "CFG → E r r ". If the Heart Rate Chest Strap is found, the Message Section will display "F N D H S"; if the Speedometer is found, it will display "F N D S P"; if



Repeat until all devices are connected



Swipe magnetic key in this acdirection; activate Heart Rate Chest Strap, and enter Registration Mode



Press key to activate Speedometer, and enter registration mode.



Press key to activate Cadence Sensor, and enter Registration Mode.



Asks whether to update data or not; press the **【Up/Down Key】** to selection Y to confirm, and it will return to STEP 2 (entering statistical information); select N to proceed to the next step, and Q to quit. Select N to continue.

Press the **【Enter Key】** to submit the selection



the Candence Sensor is found, it will display "F N D C A".

When connection is set, the Message Section will display "N S ? H S C Q"; if all devices are registered, press Q to enter system.

Note:

\*\*\*For instructions for each device, please refer to their respective instruction manuals.\*\*\*



### Time Settings

Press **【Selection Key】** to adjust to Time Section, after using the **【Up/Down Key】** to adjust to "CLK", hold down the **【Selection Key】** and **【Enter Key】**, the time will flash and can be adjusted by the **【Up/Down Key】**.



### Personal Data Settings

Press **【Selection Key】** to adjust to this section, please change personal data settings according to the following steps:

(1) **【E n t ? Y Q】** :

Asks whether to enter information or not; press the **【Up/Down Key】** to select Y to confirm, and Q to quit. Select Y to continue.

Press the **【Enter Key】** to submit the selection



### Date Settings

Press **【Selection Key】** to adjust to the Message Section, please change date settings

(1) **【E n t ? Y Q】** :

Asks whether to enter data or not; press the **【Up/Down Key】** to select Y to confirm, and Q to quit. Select Y to continue.



(2) **【D C ? Y N Q】** :

Asks whether to update statistical data or not; press the **【Up/Down Key】** to select Y to confirm, and it will return to STEP 2 (entering statistical information); select N to proceed to the next step, Q to quit. Select N to continue.



(3) **【A S ? Y N Q】** :

Asks whether to enter product registration; press the **【Up/Down Key】** to select Y to confirm, N to proceed to next step, Q to quit. Select N to continue.

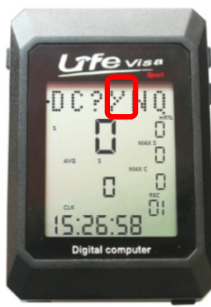




(2) 【DC? YNQ】:

Asks whether to update data or not; press Y to confirm, and it will return to STEP 2 (entering statistical information); select Y to confirm, N to proceed to the next step, and Q to quit. Press the 【Up/Down Key】 to select Y to continue.

Statistics from STEP2 will be displayed. Please refer to instructions on Page 10.



13

(4) 【CCL? YNQ】:

Asks whether to change date; press the 【Up/Down Key】 to select Y to confirm, N to proceed to the next step, Q to quit. Select Y to continue.



14



(5) 【Yr? 20\_\_】:

Press 【Up/Down Key】 to enter the year, then press the 【Enter Key】 to proceed to the next step.



(6) 【Mth? \_\_】:

Press the 【Up/Down Key】 to enter month, then press the 【Enter Key】 to proceed to the next step.



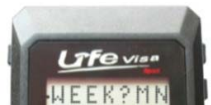
(7) 【Dt? \_\_】:

Press the 【Up/Down Key】 to enter date, then press the 【Enter Key】 to proceed to the next step.



(8) 【WEEK? MN】:

Press 【Up/Down Key】 to enter the day of the week, then press



### Start Recording Exercise

Press the 【Up/Down Key】 to adjust to the Current Average Section or the Number of Total Trips Section, then press the 【Enter Key】 to proceed to recording cycling data. Press 【Enter Key】 again to stop recording.



### Clearing Current Data Settings

Press the 【Up/Down Key】 to adjust to the Message Section, and clear data according to the following steps:

(1) 【Ent? Y Q】:

Asks whether to enter data or not; press the 【Up/Down Key】 to select Y to confirm, Q to quit. Select Y to continue.

Press the 【Enter Key】 to submit the selection



the **【Enter Key】** to finish.

MN stands for Monday, TU for Tuesday, WE, for Wednesday, TH for Thursday, FR for Friday, SA for Saturday, and SU for Sunday.



15

(2) **【DC? YNQ】** :

Asks whether to update statistical data or not; Press the **【Up/Down Key】** to select Y to confirm, and it will return to STEP 2 (entering statistical information); select N to proceed to next next, Q to quit. Select N to continue.

Press the **【Enter Key】** to submit the selection



16



(3) **【AS? YNQ】** :

Asks whether to enter product registration or not; press the **【Up/Down Key】** to select Y to confirm, N to proceed to next step, Q to quit. Select N to continue.



Press the **【Enter Key】** to submit the selection

(4) **【CCL? YNQ】** :

Asks whether to change date or not; press the **【Up/Down Key】** to select Y to confirm, N to proceed to the next step, Q to quit. Select N to continue.



Press the **【Enter Key】** to submit the selection

(5) **【RUN? Y Q】** :

Asks whether to clear all data and data settings or not; press the **【Up/Down Key】** to select Y to confirm, and Q to quit. If sure to clear all data, select Y.



Press the **【Enter Key】** to submit the selection

(6) **【SUR? Y Q】** :

To avoid accidental clearance, the system will once again make sure whether to clear all data and data setting or not; select Y to confirm, and Q to quit. If sure to clear all data, select Y to continue.



### Message Section Symbols

Yr: Year

Mth: Month

Dt: Date

MN: Monday, TU: Tuesday, WE: Wednesday, TH: Thursday, FR: Friday,

SA: Saturday, SU: Sunday

CIR: Wheel Circumference

UNT KM: Select Unit (K: Kilometers, M: Miles)

AGE: Age

HI: Height

WT: Weight

BMI: BMI (Body Mass Index)

Ent: Enter

DC: Revise data

AS: Add device

NS: New connected device

CFG: New connected device

CCL: Change date settings

RUN: Restore to factory default settings

SUR: Confirmation

YNQ: Y: Yes, N: No, Q: Quit

Err: Error

HS: Heart Rate Chest Strap

SP: Speed Sensor

CA: Cadence Sensor

The Message Section will then display "WELCOME TO LV2000A", and will return to STEP 2 (setting date and personal data); all devices must reconnect before recording data.



Note:

For software instructions, refer to software instruction manual.

☆☆☆Newest Product Information and User Guides can be downloaded on the Taiwan Biotronic Technology Official Website☆☆☆

<http://www.biotronic.com.tw>

## **Federal Communication Commission Interference Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- . Reorient or relocate the receiving antenna.
- . Increase the separation between the equipment and receiver.
- . Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- . Consult the dealer or an experienced radio/TV technician for help.

***FCC Caution:*** To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

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.