

# **User Manual**

## **Teasi SPC NAV-BIKTS**

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## I. Product Appearance and Button Name




### Teasi Core (BT name: Teasi Core)



1. USB charging interface/USB rubber stopper
2. Long press: power on/off; short press: backlight on/off;
3. Reset
4. Buzzer, Sound off in the menu only refers to steering notification tone and warning tone off, button tone cannot be set off;
5. Auto backlight on/off induction window
6. Connected to HR bracket;

A/B/C shown in the figure above are only the functional buttons of this product, please see the table below for their specific functions:

Buttons	Normal mode	Setting mode
	Short press: change display mode; Long press 1 sec: go into setting picture	Short press: Select digital location, backward/left direction; Long press 1 sec: exit the setting picture
	Long press 1 sec: change to App working mode Long press 2sec: go into pair sensor picture	Short press: Change the digital/confirm Yes/No

	Short press: start/pause recording Long press: stop recording	Short press: select next digital location/right direction
<b>Buttons</b>	<b>Pairing sensors mode</b>	<b>Connect with APP mode</b>
	Long press 1 sec: exit pair sensor picture	Short press: Exit search smartphone
	Short press: Start search sensors/search next sensor/exit	—

## Speed/Cadence sensor ( BT name:Teasi SPC)



Wireless speed/cadence sensor



Wheel magnet



Pedals magnet

## II. Installation

### 1. Installation of Teasi Core

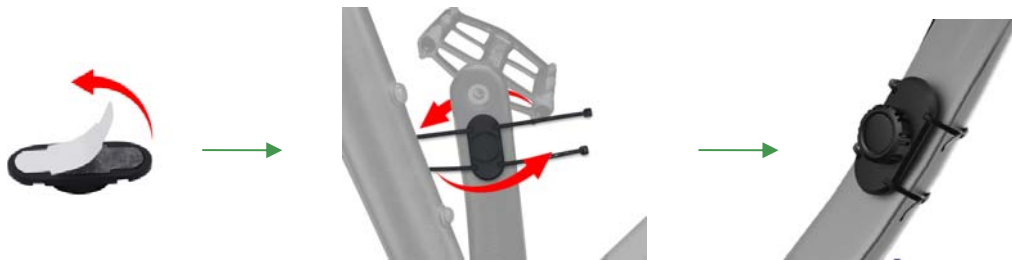
Fix Teasi Core on HR bracket as shown in the figure below



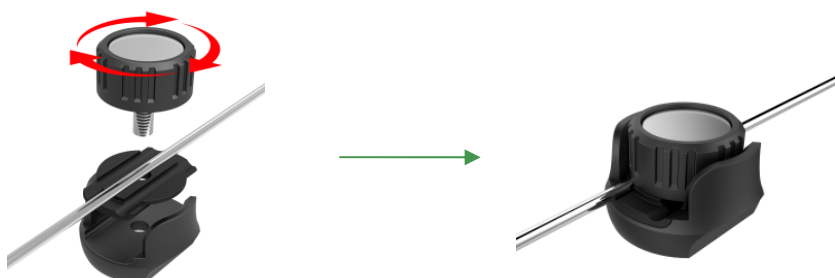
## 2. Installation of speed/cadence sensor

- A. Install pedals magnet (RPM) and wheel magnet (Speed) in corresponding positions as shown in the figure below:

Tear the 3M adhesive on the back of pedals magnet off and stick pedals magnet inside the pedal connecting arm, and then tie up the 2 nylon straps to fix it, and cut unnecessary part down.



Install the wheel magnet on wheel spoke and tighten it, so as to ensure that it will not slide when the wheel is spinning at a high speed.

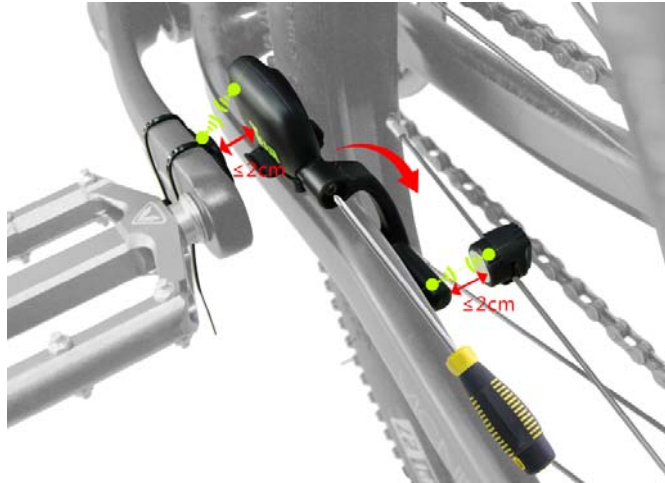


Fix Speed/cadence sensor on corresponding position of bike as shown in the figure, and then tighten it with 2 nylon straps.



Then, fix it again with a rubber hand





**Please note:** the centers of pedals magnet and wheel magnet shall be aligned with corresponding induction part of sensor and shall not be deviated from it too far; the magnets shall not be more than 2 cm from the induction part, since distance larger than 2 cm will make it fail to receive the wheel spinning signal. Screws can be loosened with screwdriver to adjust the distance between the extendible arm of inductor and spoke magnet.

### III. Production Application

#### 1. Speed/Cadence Sensor

I . There is a CR2032 button cell inside the product to provide power and its service life is 4 months in general. Teasi Core or Tuhuna will fail to detect sensors when sensor cell is dead or sensor is damaged. Sensor cell can be replaced according to the figure below;

**Please note:** when you use this product for the first time, please remove the battery hatch to remove the insulation film;



II. This product can be connected to any equipment conforming to BLE4.2 standard protocol and transmit data to it; however, equipment conforming to Bluetooth standard protocol or subject o access name restrictions are not included;

III. This product will get into sleep mode after wheels stop spinning for 5 min in order to save power; it will also get into sleep mode when Tuhuna or Teasi disconnects with sensor. When it is used again, bike

wheels shall be made spun to activate sensor, so that the product can be searched by Tuhuna or Teasi Core;

## 2. Teasi Core

This product is provided with a built-in battery that can be charged with a charger above DC 5V, 500 mA or PC USB interface when the battery is too low to supply power to Teasi Core;

This product is provided with a monochrome display screen, its backlight can be turned on manually at night for better vision, and turned off at day to save power. You can also set backlight into auto on/off mode in the settings menu.

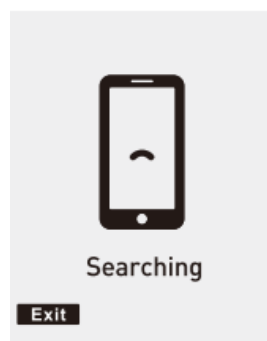
## Teasi Core has 2 working modes:

1. Stopwatch working mode: Teasi Core is only a bike stopwatch that is not connected to APP; in this mode, speed/ cadence sensor and HR monitor shall pair with Teasi Core and connect to it;
2. App working mode: Teasi Core is only a display equipment that needs to pair and connect to APP, and all its data is from App push; in this mode, speed/ cadence sensor and HR monitor shall pair with Teasi Core and connect to it;

## I . APP Working Mode

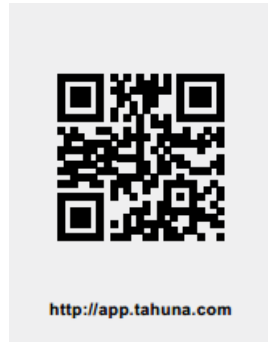
### 1. Connect to Tuhuna

This product will search to connect with Tuhuna automatically after it is started, as shown in the left of the following figure. If you do not need to connect to Tuhuna or Tuhuna has stopped working, you can press the far left button to EXIT;



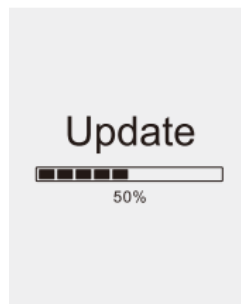
Teasi Core starts to connect to Tahuna

Tahuna You can scan the QR code displayed on this equipment when it is started or the QR code printed on the package to enter the website, and download and install it.



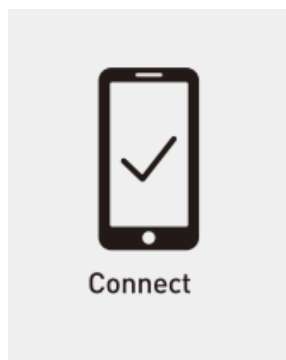
When APP detects a new version of Teasi Core to update to, there will be a dialogue box of update prompt given on the APP. Users can click update button on APP to make Teasi Core update automatically. The following update progress bar will be shown;

Notice: please make sure your phone and Teasi Core have enough power before updating, keep Bluetooth connection smooth in updating process, and do not take you phone away from Teasi Core. If update does not progress for a long time or power fails, or Bluetooth signal is lost in updating process, Teasi Core will return to its old version and will update again when it is connected to the APP next time.



You need to turn the Bluetooth of your smartphone and the connect switch of Tuhuna on, so that Tuhuna can seek to connection with Teasi Core. The main interface will be entered after their successful connection and the successful connection symbol as shown in the figure below will be shown; at the same time, you need to connect Tuhuna with speed/cadence sensor and HR sensor.

When all connections are finished, Teasi Core can start to work;








Successful Connection of Teasi and Tahuna



**Please note:** You need to make sure that Teasi Core or sensors are not connected to other Bluetooth equipment and can be effectively connected to Tahuna;

The status bar displayed after Teasi Core is successfully connected to Tahuna.



	Successful connection to Tahuna				
90%	Smartphone battery				
	Smartphone GPS on				
13:43	Current time				
	Equipment battery				
	Maximum speed				
	Current speed				
ODO 01031 KM	Accumulative mileage				
<table><tr><td>AC TIME</td><td>DST PES KM</td></tr><tr><td>01:23:15</td><td>12.3</td></tr></table>	AC TIME	DST PES KM	01:23:15	12.3	After the equipment is connected to Tahuna, the 2 data types can be changed on the APP.
AC TIME	DST PES KM				
01:23:15	12.3				

(Speedmeter picture)

## 2. Page Display of Teasi core

Display page of Teasi Core is divided into: speedmeter, 2-4-6 segment display interface; navigation display interface;

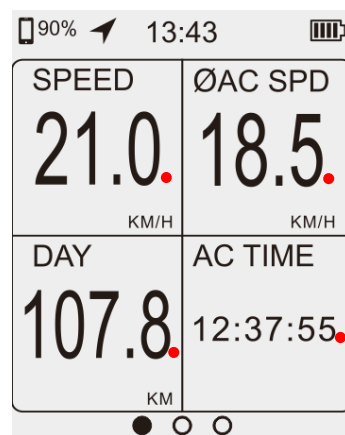
Including: users of the 2 data below speedmeter and navigation picture, and the data on 2-4-6 interface can change the data type they want to display on the corresponding page of APP; data with red dots in this document can be changed;

Users can select corresponding 2-4-6 segment display mode on APP-computer page according to their habits;

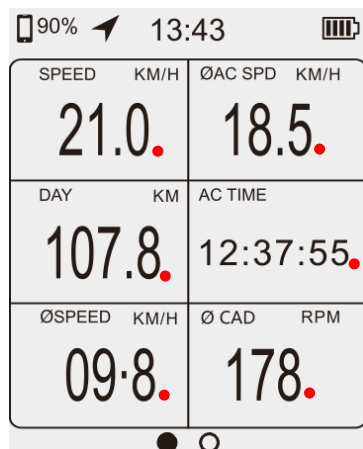
Navigation page will only be displayed after users set their destination on the APP and enable navigation feature;



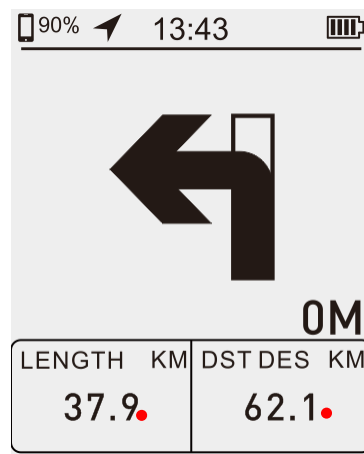
2-segment Display Page



4-segment Display Page



6-segment Display Page



Navigation Display Page

This product also has notification feature, for example, phone, email, over speed and water notifications which you can set on the APP. However, this feature can only be used when Teasi core is used together with APP. Examples are as below:



Phone

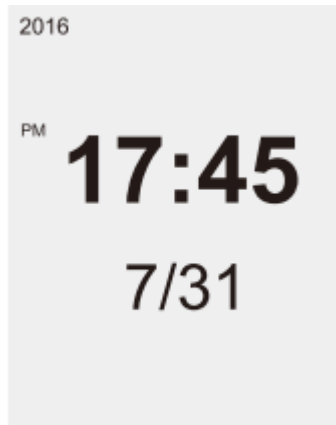


Water



Over speed

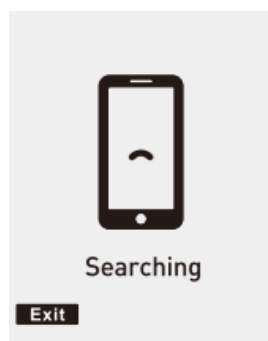
This product will enter standby mode automatically after riding is stopped for 3 min, as shown in the figure below; it will return to the previous interface automatically after riding starts again;



## II. Stopwatch Working Mode





This product will seek to connect with Tuhuna after it is started, as shown in the left of the figure below; if you do not want to connect with Tuhuna or Tuhuna has stopped working, you can press the far left button to EXIT and enter stopwatch working mode.


If Teasi Core has connected to Tahuna successfully and is in working mode currently, users should select disconnect in the sensors page of Tahuna to return to the searching mode; then select EXIT to exit and enter the independent working mode of stopwatch;

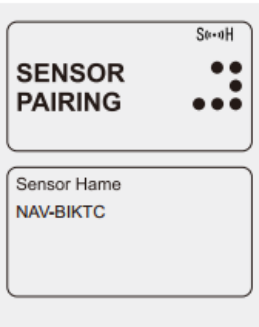


At this moment, it is needed to pair HR monitor and speed/ cadence sensor and connect them;

### Pairing method for sensors and Teasi Core

Long press  for 2 sec and then release it after hearing the buzzer sounds twice, then the Teasi Core will enter the mode to pair and connect with sensor; after the following interface is shown, short press  to search sensor; when one sensor is searched, its name will be displayed and the equipment will connection to it automatically; short press  at this time to start searching the next sensor. After the 2 sensors are searched, short press 

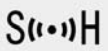
to exit sensor searching mode; if it only needs to connect to one sensor, long press  for 1 sec after searching, and then exit sensor pairing interface after hearing the buzzer sounds once. Then, this following connection status symbol will be shown on the screen, showing that Teasi Core has been successfully connected to sensors, and the stopwatch can start to work independently. However, the wheel size shall be set. See settings for wheel size setup.



Teasi core and sensors pairing interface







Working interface entered after pairing is completed

	S	speed/cadence sensor had connect OK
	H	Heart rate sensor had connect OK

In stopwatch working mode, some data may not be displayed, for example, data is displayed —, the reason is that: 1. These data are all from APP, and APP is not connected when Teasi Core is working independently, so there is no data source; 2. Speed/ cadence sensor and HR monitor are not paired and connected to each other, so there is no data source;



When stopwatch is working, users can record and store sports data selective  short press  to start record and short press  again to suspend recording; long press  for 1 sec, and then release it after hearing the Buzzer sounds once to stop recording; a new entry of record is generated. When the equipment is connected to Tuhuna again, Tuhuna will acquire this data and calculate it;





### Start and stop of riding

When Teasi Core is prepared for work, the prompt box as shown in the left figure will be displayed on the screen; when riding is suspended, the prompt box as shown in the right figure will be displayed on the screen;



### Menu setting

In normal working state, long press  for 1 sec (release the button after hearing Buzzer sounds once) to enter settings menu where corresponding parameters can be set; refer to button function list for button operation mode and function list. Exit settings menu: long press  for 1 sec (release the button after hearing Buzzer sounds once) to exit settings menu.

### Wheel size setting

In the table below, you can find the wheel size (L) of your tire, or the actually measured wheel size (L) of your bike.

How to measure wheel size (L): in order to obtain accurate measurement, you can make a tire roller. Place the valve stem of the tire in normal pressure down, and mark on the ground. With the pedaling load of rider applied, make the tire roll one circle (until the valve stem returns down on the ground) in a straight line. Then mark the position of valve stem and measure the distance in millimeter dimension.

**\* The following table is for your reference.**

Tire size	L (mm)	Tire size	L (mm)	Tire size	L (mm)
12 x 1.75	935	26 x 1(59)	1913	650 x 20C	1938
14 x 1.50	1020	26 x 1(65)	1952	650 x 23C	1944
14 x 1.75	1055	26 x 1.25	1953	650 x 35A	2090
16 x 1.50	1185	26 x 1-1/8	1970	650 x 38A	2125
16 x 1.75	1195	26 x 1-3/8	2068	650 x 38B	2105
18 x 1.50	1340	26 x 1-1/2	2100	700 x 18C	2070
18 x 1.75	1350	26 x 1.40	2005	700 x 19C	2080
20 x 1.75	1515	26 x 1.50	2010	700 x 20C	2086
20 x 1-3/8	1615	26 x 1.75	2023	<b>700 x 23C</b>	<b>2096</b>
22 x 1-3/8	1770	26 x 1.95	2050	700 x 25C	2105
22 x 1-1/2	1785	26 x 2.00	2055	700 x 28C	2136
24 x 1	1753	26 x 2.10	2068	700 x 30C	2146
24 x 3/4 Tubular	1785	26 x 2.125	2070	700 x 32C	2155
24 x 1-1/8	1795	26 x 2.35	2083	700C Tubular	2130
24 x 1-1/4	1905	26 x 3.00	2170	700 x 35C	2168
24 x 1.75	1890	27 x 1	2145	700 x 38C	2180
24 x 2.00	1925	27 x 1-1/8	2155	700 x 40C	2200
24 x 2.125	1965	27 x 1-1/4	2161	29 x 2.1	2288
26 x 7/8	1920	27 x 1-3/8	2169	29 x 2.3	2326

**Please note:** No matter which working mode is in, stopwatch or APP mode, it is needed to set wheel size on stopwatch or APP; otherwise, the data will not be accurate.

Language: Teasi Core supports 5 languages, EN, GE, FR, NL and CZ;

Sound: only steering notification tone and warning tone can be turn off, button tone cannot be set off;

Backlight: users can select auto/metal backlight control in settings menu; when auto backlight is selected, the backlight will be turned off automatically at day and be turned on at night;

Clear pair info: eliminate Bluetooth pairing information;

Clear sport data: eliminate all sports data except for ODO data;

Reset to default: ODO data will be cleared after resetting to default.

Maximum transmit power	0.00042W
Operating frequency	2402MHz-2480MHz

Bluetooth can be used in Europe without restriction.

#### CE Statement

Hereby, Shenzhen Meilan Technology Co.,Ltd declares that this Teasi SPC, NAV-BIKTS is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

Use the Teasi SPC in the environment with the temperature between -20°C and 45°C.

Risk of explosion if battery is replaced by an incorrect type.

Dispose of used batteries according to the instructions.

The product shall only be connected to a USB interface of version USB2.0

Suggest use of the adapter:

Input: AC 100-240V 50/60Hz 0.5A Output: DC 5.0V, 0.5A

To charge the battery, please use the above specifications adapter

Which should meet the requirements of CE

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## FCC Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 or more 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

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.