

TA1102 / Product Specifications

TA1102 Bluetooth Heart Rate Monitor

- Heart rate monitor (HRM)
- Bluetooth transmission
- LED light display
- Sound alarm

Product Specifications

Heart Rate Accuracy	±1 BPM
Sampling Rate	250 Hz
Switch	Power Switch (ON/OFF)
Charging Connection	Micro USB
Battery Charge Time	1 hr to 90%, 3 hrs to 100% (full charged)
Size (L x W x H)	61 mm x 43.1 mm x 16.1 mm
Weight	22 g
Operating Temperature	0°C to +50°C / +32°F to +122°F

Heart Rate Range	30 to 240 BPM
Battery Type	Rechargeable Li-Polymer Battery (Nominal Voltage: 3.7 V) *Note 1.
Transmission Range	Up to 10 m / 30 ft
Transmission Frequency	2.4 GHz
Wireless Technology	Bluetooth Version 3.0 + EDR
Battery Life *Note 2. (Heart Rate Mode) (Raw Data Mode)	20+ hrs 10+ hrs
Sound	- Power ON - Power OFF - Low Battery Alarm

Notes:

1. Battery Charging: Built-in Li-polymer cell, rechargeable via any USB port or with any USB-compliant adapter.

(Charging Connection: using Micro USB to USB cable)

2. Heart Rate Mode: Average heart rate

Raw Data Mode: Heart beat wave form



HRM Belt

- Textile approach gives a natural platform for measuring heart rate
- Comfort belt sensor technology is based on polymer material
- This is the most flexible and lightweight belt

Product Specifications

Color	Black
Size (L x W)	880 mm x 30 mm
Distance between snaps from center to center	45.5 mm
Conductivity (measured between electrical skin contact and a snap)	In production: < 2.5 kΩ After 100 washes: < 5 kΩ
Storage Temperature	0°C to +40°C / +32°F to +104°F
Storage Humidity	20% to 98%
Machine Wash	delicate at +40°C / +104°F

Care and Maintenance Instructions

Storage Conditions

- Storage temperature and humidity :
Temperature 0°C to +40°C, Humidity 20% to 98% (RH)
- Inadequate storage conditions may cause product deterioration.
- Product should be stored away from light and heat.
- All the characteristics mentioned in specification remain as specified when stored in suitable conditions.

Care and Washing

Following of the given care instruction will ensure longer product lifetime.

- The HRM belt can be washed with most common laundry detergents.
- Use of detergents with optical brightening agents, detergents with bleaching agents, soap or fabric softener is not recommend.
- The belt does not resist soaking, dry-cleaning or bleaching.
- The HRM belt should be dry flat, hang dry or drip dry.
- Belt does not resist tumble drying and should not be wring dry.
- Wet belt should not be stretch unnecessarily.
- Ironing and pressing with heat are forbidden.
- Care symbols for HRM belt.



How to Wear & Connect HRM Belt

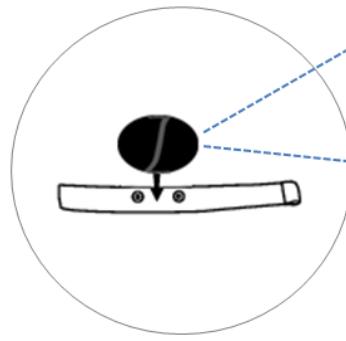
TA1102 Wear & Connect

Before You Begin

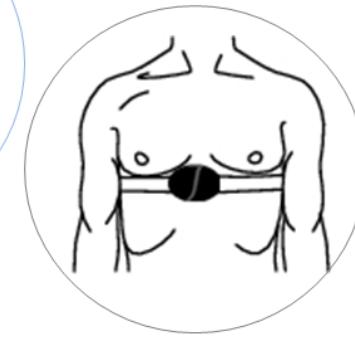
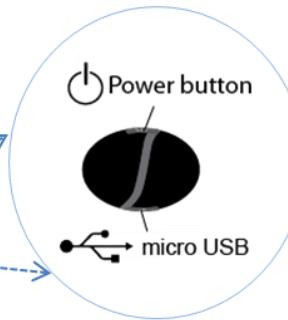
1. Download the HRM-compatible smartphone App.
2. Charge the device battery for 1 full hour to start.



1. Adjust



2. Attach



3. Position

Putting on Your HRM Belt

Wet the electrode areas of the belt under running water.

1. Tie the belt around the chest and adjust the belt length to fit to the body.
2. Attach the HRM device to the belt.
3. Position the device below the middle of the chest. For women, the belt positioned below the bra.
Check that the electrode areas are firmly against your skin and ensure the belt is centered on your chest.

Connect with the Smart Phone App

During pairing, please keep least 20 meters away from other compatible HRM device, prevent interfering stray signals.

1. Setting → General → Bluetooth → ON → pairing with the HRM device
2. Enter the PIN code: 0000
3. Active the smartphone mobile App and start workout

Device Turn-on and Turn-off

- **Turn-on**

Press power button for 3 seconds to turn-on the device → turn-on sound (rising) and LED flash for 5 seconds
→ HRM device is active

- **Turn-off**

Press power button for 3 seconds to turn-off the device → turn-off sound (falling)

Indicator Light

- **Heart Rate Mode** : RED light blink slowly (If the heart beat faster, then RED light blinking faster)
- **Raw Data Mode** : no light indication
- **Battery Charging State** : RED light on (consistently); Light Off – charging completed
- **Low Battery Alarm**: RED light flashing regularly, and the sound alarmed once a minute

Charging the Battery

- To charge the battery, connect to a computer or AC adapter with the Micro USB to Standard USB cable.

Care & Maintenance

- Store your device in a clean and dry environment at room temperature.
- Do not place the device where it could be scratched by hard objects.
- **Do not** use cleaning solvents, acetone, alcohol, insect repellents, paint, or other strong chemicals cleaners.

Failure of the HRM Connection

The heart rate monitor device uses high frequency transmission to prevent reading disturbances. However, users near overhead power lines or magnetic or electronic devices may cause interference with the signal.

If you lose the signal, please double check the following:

- Check HRM device battery capacity.
- Make sure you are wearing the belt correctly.
- Make sure the electrode areas is wet.
- Check that the electrode areas of the belt are touch with your skin
- Check that the HRM device snap to the belt and position correctly.
- Make sure your device are not near (40 meters) other Bluetooth compatible devices, which could affect pairing.
- Move away from any potential sources of interference, such as microwave, motor, high voltage line, and Wi-Fi AP.
- If fail in connectivity with HRM device, please restart the device/ smartphone's App for reconnection.

Precautions-I

The HRM is designed to help you achieve personal fitness goals and fitness training intensity.

Please be noticed that physical training may include some risk. Before beginning a regular training program, answer the following questions concerning your health status. To Consult a physician before starting any training program if you answer yes to any following questions.

1. Do you have high blood pressure or high blood cholesterol?
2. Do you have symptoms of any disease?
3. Are you taking any blood pressure or heart medication?
4. Do you have a history of breathing problems?
5. Are you recovering form a serious illness or medical treatment?
6. Do you use a pacemaker or other implanted electronic device?
7. Do you smoke?
8. Are you pregnant?

Precautions-II

Note that in addition to training intensity, medication for heart conditions/blood pressure/psychological conditions/asthma/breathing/etc. as well as some energy drinks, alcohol, and nicotine may also affect heart rate.

It is important to be sensitive to your body's responses during the training. If you feel unexpected pain or excessive fatigue when training, stop the exercise or continue at a lighter intensity.

If you have a pacemaker, defibrillator or other implanted electronic device, you use the HRM device at your own risk. Before starting use, take a maximal training stress test under the supervision of physician. The test is to ensure the safety and reliability of the simultaneous use of the pacemaker and the HRM device.

Qualification & Certification



FCC ID : B50IWT11



Attention

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

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.

FCC/IC Radio Frequency Exposure

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research. This device has been tested and found to comply with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules.