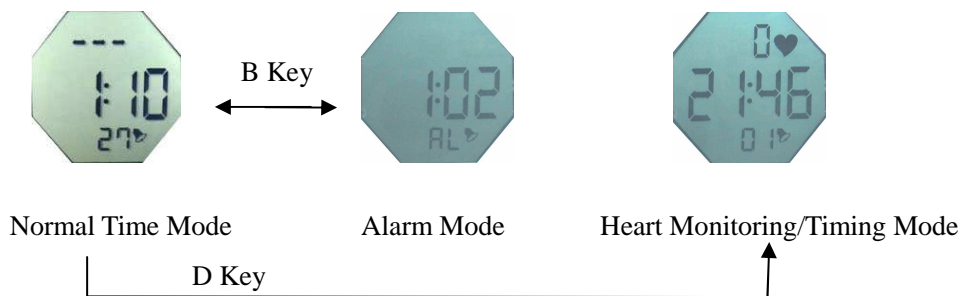




A. Features

- Wireless receiving heartbeat signal transmitted from heartbeat brooch, chest band frequency is AM5.3KHz;
- Time display: Hour, Minute, Second;
- Alarm clock function;
- Heart rate exceeds the upper limit alarm function (60 ~ 220).
- Timing (maximum time-keeping is 23 hours, 59minutes, 59 seconds, 99)
- 12/24 hour displaying format
- EL backlight
- Keystroke tone

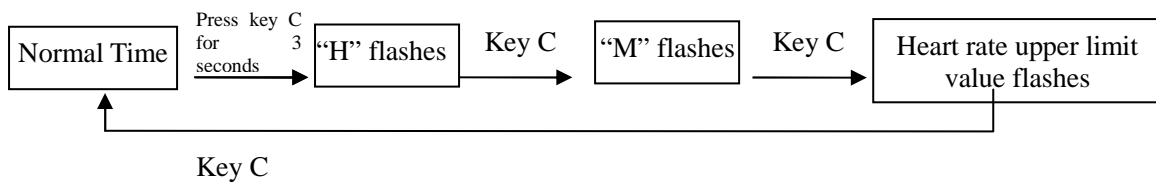
B. Product Function Mode



1. Press key A in any mode, EL background will light for 3 seconds.




2. Time Mode

- In normal time mode, press key B to enter alarm mode; press key D to enter heart monitoring mode; Press key D again to stop timing and display average heart rate and timed time 2 seconds each alternately. In timing stopped mode, press key D for 2 seconds to clear the timed time and heart rate value, then it will return to normal time mode automatically.
- Time Setting: In time mode, press and hold key C for 3 seconds to access to upper and lower limits setting of time and heart rate (heart rate range is 60~220).

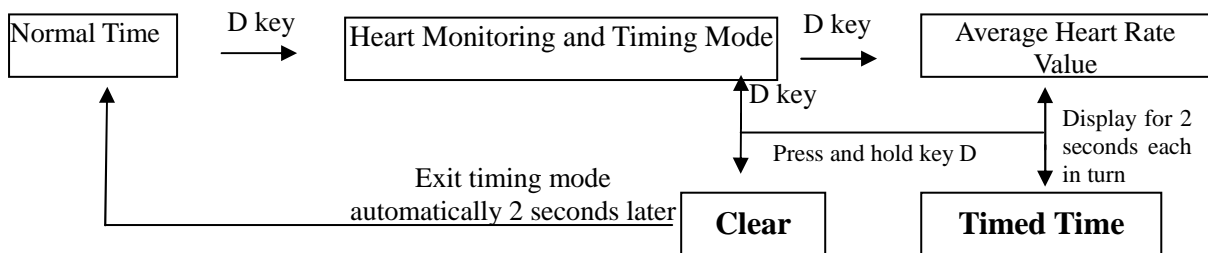


- When numerical value flashes, press key D to adjust the flashing value;
- In normal time setting mode, it will exit and return normal time mode automatically if without any operation within 60 seconds.

3. Alarm Mode

- In alarm mode, press key D to enable/disable alarm () and Hour Announcement () symbol in turn.
- When the set time is reached, the alarm tone will stop automatically after ringing for 30 seconds or stop by pressing any key. “” symbol flashes when alarm tone is heard.
- **Alarm Setting:** In alarm mode, press key C once to enter alarm setting mode. First, “Hour” flashes. Press key D to adjust the hour; then press key C to flash “minute”, and press key D to adjust the minute; finally, press key C to exit setting mode.
- In alarm setting mode, it will exit and return normal time mode automatically if without any key operation within 60 seconds.

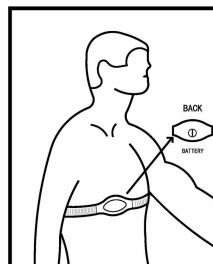
4. Heart Monitoring Mode



- In normal time mode, press key D once to start timing, and at the same time, heart monitoring starts. There will be “BB” alarm tone when out-of-limit heart rate is measured. During timing process, press key D once to stop timing. It displays average heart rate value and timed time for 2 seconds each alternately.
- In heart monitoring mode, when heart rate signal is received, it updates the heart rate value about every 5 seconds; Without heart rate signal, it enters power saving mode 5 seconds later, and heart rate value displays as zero, heart rate symbol disappears.
- In timing stop mode, press key D to continue with timing.
- In timing stop mode, press and hold key D for 2 seconds, the timed time and heart rate value are reset to zero. Then it exits and returns to normal time mode automatically.

5. Use Instruction on Heartbeat Chest Band:

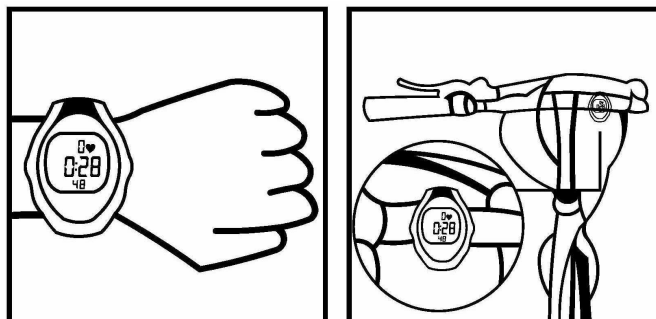
- To wear chest band, face the battery cover of the chest band emitter down, then adjust the emitter at center of your chest.
- The chest band is used to record heart beat number and transfer the data to the wrist watch. Please pay attention to the following when wear your chest band:
 1. Get the conductive mat on inner side of the chest band wet with several drops of water or conductive gel to ensure good contact.
 2. Wear the chest band alone your chest. To ensure accurate heart rate signal, please adjust the binding belt properly and make you chest comfortable.



- Heart rate signal can be transferred within 2 seconds after chest band being worn. Now you can receive heart rate value in heart monitoring mode. “♥” flashes when heartbeat signal is received.

Tips:

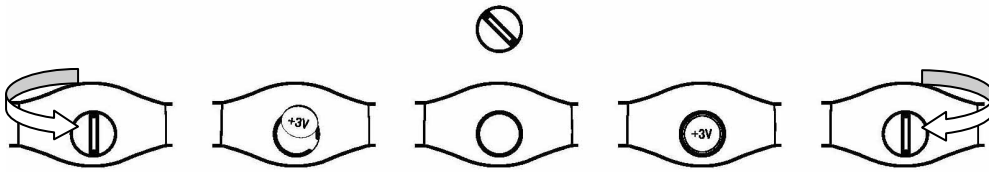
- The location of chest band may affect its performance. Please move the chest band along the binding belt to make it locate above your heart.
- Avoid wear your chest band at the position with bushy sternal seta.
- In dry and cold weather, it may take several seconds for chest band to perform normally. This is normal phenomenon. After several seconds' heating up, it will perform better.
- As illustrated below, you can either wear your wrist watch on your wrist or fix it on bicycle or exercise machine with a distance $\leq 65\text{cm}$ from chest band emitter.



Troubleshooting:

If no heart rate value can be received 2 minutes later after chest band being worn, it may be insufficient battery voltage or the dry and cold environment.

Solution: ① try replacing battery.



② Wipe your chest with drinking water or conductive gel.

C. Quality Standard

- Movement size : $\Phi 33.2 \text{ mm}$
- Thickness : $9.35 \pm 0.15 \text{ mm}$
- Work temperature : $-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$
- Work voltage : 3V
- Veracity : $\pm 90 \text{ seconds/month}$
- Battery type : CR2032
- Static maximum drive current : $\leq 3.5 \text{ u A (T=25}^{\circ}\text{C)}$
- Static average drive current : $\leq 2.5 \text{ u A (T=25}^{\circ}\text{C)}$
- Heartbeat monitoring current : $\leq 30 \text{ u A (T=25}^{\circ}\text{C)}$
- EL lighting current : $\leq 10.0 \text{ m A}$
- Alarm ring current : $\leq 2.5 \text{ m A}$
- Battery Life term (El lighting twice per day, alarm ringing once every day for 30 seconds each time; Heart rate measuring for 1hour.) : 36 months (Japan battery)

Attachment: Chest Band

- Quiescent Current : $\leq 1.0 \text{ u A (T=25}^{\circ}\text{C)}$
- Emission Transient Current : $\leq 4.5 \text{ m A (T=25}^{\circ}\text{C)}$
- Emission Average Current : $\leq 0.4 \text{ m A (T=25}^{\circ}\text{C)}$
- Emission Distance : $\geq 65 \text{ cm}$
- Battery life term (Calculate by using one hour per day.) : 14 months (Japan Battery)

	Prepared	Checked	Approve
Name	冯碧颜	赵星亮	宋检望
Date	13/07/04	13/07/04	13/07/04