

LIGHT (Button A) ———



———— (Button D) START

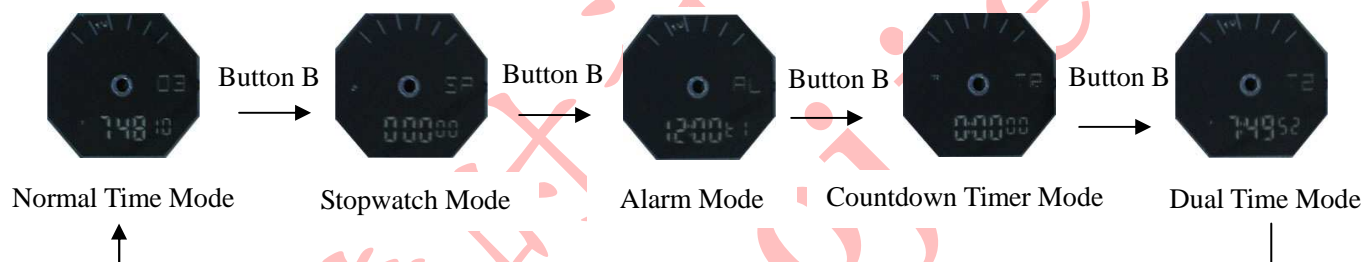
MODE (Button B) ———

———— (Button C) RESET

A . Features

- 8 digits to display hour, minute, second, date, month, the day of week.
- Dual time.
- Daily Alarm and Hourly Time Signal.
- Countdown timer.
- 12 hour / 24 hour format selectable.
- Stopwatch.
- EL backlight.

B . Product Functional Modes

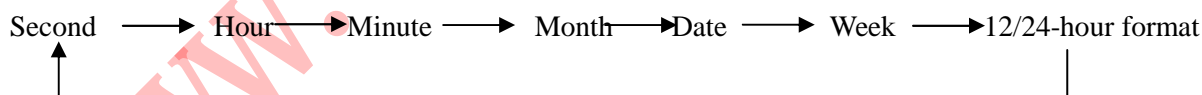


1. In any mode, EL illuminates for 3 seconds by pressing A button. In non-setting mode, press B button to select operating mode.

2. In normal time mode, press D button to display month – date.

3. Time and time setting

- In normal time mode, press C button, “seconds” starts to flash, which indicates setting screen, press B button to select other settings (flash) in sequence as below:

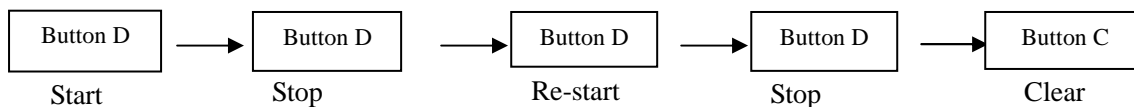


- When setting item is flashing, press D button to adjust.
- Press C button to confirm, and then return to normal time mode.
- The watch will automatically exit from setting if you do not perform any button within 80 seconds, then return to normal time mode.

4. Stopwatch mode

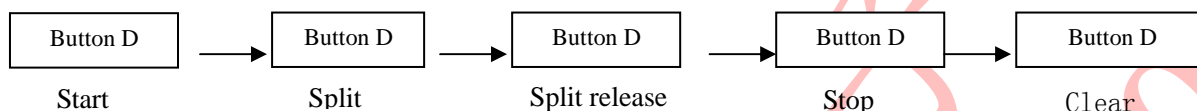
- The display range of the stopwatch is 23hours, 59 minutes 59.99 seconds.
- To measure times with stopwatch: In stopwatch mode, press D button to start counting, then press D button again to stop counting. When it stops, seconds clear to zero by pressing C button.

Elapsed Time

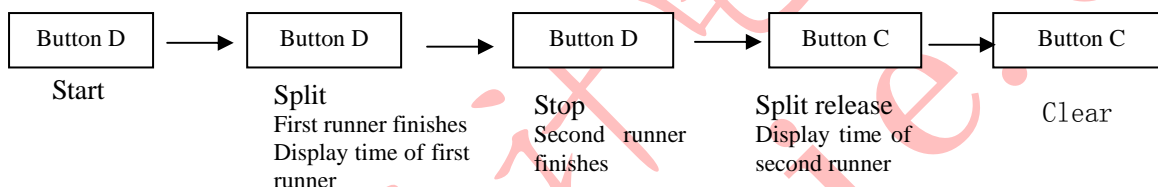


- To measure times with SPL(split time): In stopwatch mode, press D button to start counting, and press C button to enter SPL, then press C button again to exit SPL. In SPL state, press D button to stop counting, press C button to display all times of stopwatch, then stopwatch resets to zero by pressing C button.

Split Time





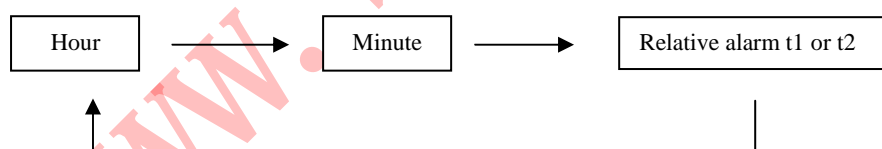
Two Finishes



- If you do not stop the stopwatch, when the stopwatch reaches its limit, it will restart to measure from zero.
- Press B button to return to other display modes when stopwatch is running, at this time, stopwatch continue to run in the background.

5. Alarm mode

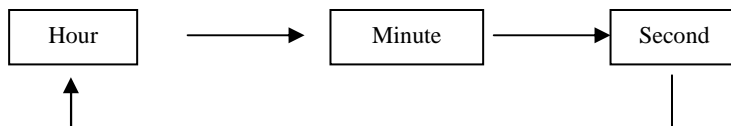
- To turn on / off Daily Alarm and Hourly Time Signal: In alarm mode, press D button to turn on / off alarm. (Alarm indicator “” will appear when it is turned on) (Hourly Time Signal indicator “” will appear when it is turned on).
- Alarm time setting: In alarm mode, press C button, “hours” starts to flash, which indicates alarm setting screen. Press B button to select other settings (flash) in sequence as below:



- When setting item is flashing, press D button to adjust.
- Alarm 1 indicator “t1” will display on the screen when you select normal time alarm. While alarm 2 indicator “t2” will display on the screen when you select the second time. You can only choose one of the two groups of alarm. (alarm tone will not sound twice a day.)
- Press C button to confirm, and then return to alarm mode.
- The watch will automatically exit from setting if you do not perform any button within 80 seconds, then return to alarm time mode.
- When alarm time is reached, alarm tone will sound with BB-BB for 15 seconds. You can press any button to stop the alarm tone after it starts to sound.

6. Countdown timer mode

- The countdown can be set in the range of 23 hours, 59 minutes, 59 seconds.
- Countdown time setting: In countdown timer mode, press C button, “hour” starts to flash, which indicates alarm setting screen. Press B button to select other settings (flash) in sequence as below:



- When setting item is flashing, press D button to adjust.
- Press C button to confirm, and then return to countdown timer mode.
- The watch will automatically exit from setting if you do not perform any button within 80 seconds, then return to countdown timer mode.
- In countdown timer mode, press D button to start / stop counting down.
- The watch will sound with B-B-B for ten times before countdown is going to finish And when countdown time reaches 00, the watch will sound with BB-BB for 10 seconds. You can press any button to stop the alarm tone after it starts to sound.

7. Dual time mode

- Dual time can display another time of different time zone, and the minutes and seconds are synchronized with the minutes and seconds of timekeeping.
- Dual time setting: In dual time mode, press C button, “hours” starts to flash, which indicates countdown setting screen, then press B button to adjust.
- Only the hours can be set in dual time, seconds and minutes cannot be set.
- Press C button to confirm and then return to the second time mode.
- The watch will automatically exit from setting if you do not perform any button within 80 seconds, then return to the second time mode.

C. Specifications

- Module dimension : $\Phi 33.3\text{mm}$
- Module thickness(inclusive buzzer) : 8.8mm
- Working temperature range : $-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$
- Working voltage : 3.0V
- Time accuracy : $\pm 60 \text{ sec/month}$
- Battery code and capacity : CR2016 (Capacity: 90m Ah)
- Static average current : $\leq 1.71\mu\text{A}$ (Static maximum current: $3.5\mu\text{A}$)
- Alarm average current : $\leq 2.47\text{mA}$ (Alarm maximum current: 8.0mA)
- Average current of EL backlight illumination : $\leq 8.24\text{mA}$ (Maximum current of EL backlight illumination: 10mA)
- Battery life (90%) : 24 months (Japan Lithium)

According these standards to calculate battery life: EL backlight illuminates 4 times (12 seconds) per day.
Alarm tone sounds once (60 seconds) per day.

	Prepared	Checked	Approved
Name	李觉	赵星亮	宋检望
Date	11/10/14	11/10/14	11/10/14