

LIGHT ( A Key ) \_\_\_\_\_



\_\_\_\_\_ ( D Key ) START

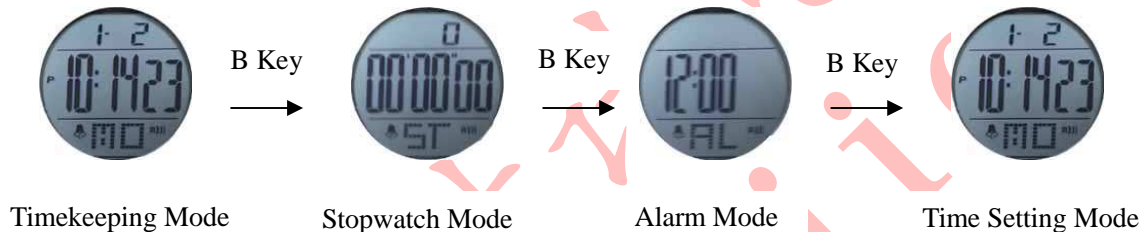
MODE ( B Key ) \_\_\_\_\_

\_\_\_\_\_ ( C Key ) RESET

## A. Features

- 12 digits LCD screen displays hour, minute, second, month, date and week.
- Daily Alarm and Hourly Time Signal.
- Snooze
- 12-hour / 24-hour format selectable.
- 1/100 second stopwatch with split functions.
- EL backlight.

## B . Operational Manual






**1. In any mode, EL will illuminates for 3 seconds by pressing A key, press B key to select operation mode.**

### 2. Stopwatch mode

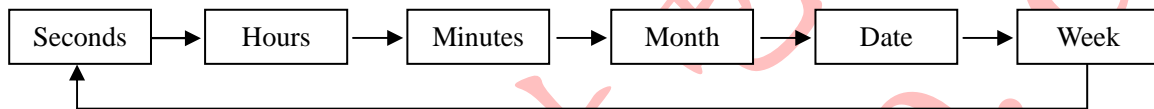
- The display range of the stopwatch is 23 hours, 59 minutes, 59.99 seconds, when reaches its limit (23 hours, 59 minutes, 59.99 seconds), the stopwatch will automatically re-start to count from zero.
- When stopwatch is more than 59 minutes 59.99 seconds, it will display from 1 hour to 23 hours at “date” position.
- **To measure times with stopwatch:** In stopwatch mode, press D key once to start counting, then press D key again to stop counting. When it stops, seconds clear to zero by pressing C key.
- **To measure times with split time:** In stopwatch mode, press D key to start counting, and press C key to enter split time. along with “ ■ ” indicator flash to display on the screen, and press D button to stop counting, press C button to display all times of stopwatch, then stopwatch resets to zero by pressing C button.
- In stopwatch mode, press D key to start counting, and press C key to enter split time. along with “ ■ ” indicator flash to display on the screen, then press C key again to exit SPL, and press D button to stop counting, then stopwatch resets to zero by pressing C button.
- When stopwatch is running, press B key three times to return to time display mode, it will continue to run in the background.
- When at the state of split time, press B key to exit from split time, the stopwatch will continue to run in the background.

### 3. Alarm mode

- **To turn on / off Daily Alarm and Hourly Time Signal:** In alarm mode (“Hour” or “Minutes” not flash ), press D key to turn on / off Alarm (  ) and Hourly Time Signal (  ) in sequence.
- **To set alarm time:** In alarm mode, press C key , “Hours” starts flashing, press D key to adjust hours , then press C key again, “Minutes” starts flashing, and press D key to adjust minutes, press C key again to exit from setting.
- When alarm time is reached, alarm tone will sound with BB-BB for 20 seconds, alarm indicator (  ) will be flashing, press A, C, D to stop alarm tone after it starts to sound.
- **Snooze function:** When alarm tone sounds, press B key to turn on snooze function, at this time, alarm tone will sounds for 20 seconds in five minutes. Press A, C, D key to stop it.

### 4. Time setting mode

- In time setting mode, “Seconds” starts flashing, which indicates time setting screen, press D key to adjust “seconds” to zero, press C key to adjust setting items (flashing) in sequence as below:



- When related setting item is flashing, press D key to adjust, and press B key to exit from setting.
- When adjust “Hours”, it is 12-hour format if “A” or “P” indicator appears on the screen by pressing D key, while it is 24-hour format if “H” appears on the screen.
- When adjust the “Seconds”, Minutes will be increased by 1 automatically if seconds is in the range of 30 to 59, while minutes without changing if seconds in the range of 0 to 29.

## C. Specifications

- Module dimension :  $\Phi 30.20\text{mm}$
- Module thickness (inclusive buzzer) : 7.8mm
- Working temperature range :  $-10^{\circ}\text{C}\sim 60^{\circ}\text{C}$
- Working voltage : 3.0V
- Time accuracy :  $\pm 30\text{sec/month}$
- Battery code and capacity : CR2025(capacity: 170m Ah)
- Static average current :  $\leq 1.23\mu\text{A}$  (Static maximum current : 3.5uA)
- Alarm average current :  $\leq 1.40\text{mA}$  (Alarm maximum current : 7.0mA)
- Average current of EL backlight :  $\leq 8.15\text{mA}$  (Maximum current of EL backlight : 10.0mA)
- Battery life :  $\geq 24$  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.

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