

LIGHT (A key) ———

MODE (B key) ———



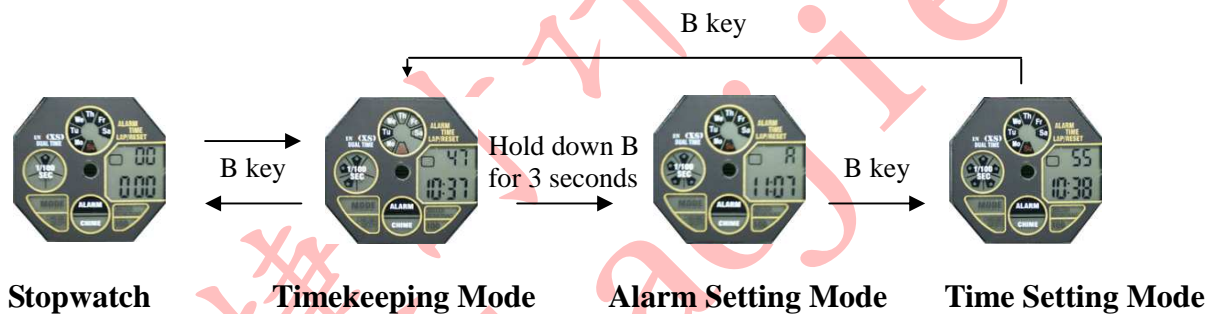
———— (D key) START

———— (C key) RESET

## A . Features

- 6 digits LCD to display hour, minute, second, month, day and week.
- Daily Alarm and hourly time signal.
- 12 / 24H format selectable, Auto Calendar.
- 1/100 second stopwatch.
- EL backlight.

## B . Operational Manual



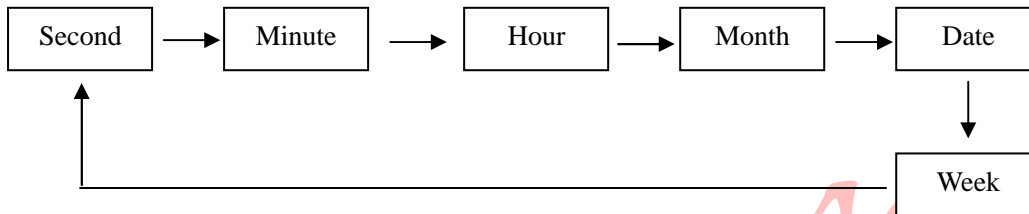
1. In any mode, EL backlight will illuminate for 3 seconds by pressing A key.

### 2. Timekeeping mode

- Press C ( key ) to display alarm, press D (key) to display date .
- Date format selectable.  
Press D and then press C to select date format: "Month—Date " or "Date—Month".
- 12-hour/ 24-hour format selectable.  
Press D and then press B to select 12-hour / 24-hour format, it is 12-hour format if “A” or “P” appears, on the contrary, it’s 24-hour format.
- Turn on / off alarm and hourly time signal.  
Press C and then press D to turn on / off alarm and hourly time signal. indicator " " will display on the screen when alarm is turned on, and " " will display on the screen when hourly time signal is turned on.
- Press B, C, and D(keys) together to display full-screen and along with BB..BB sound.
- Press C - D (key) together to display alarm time and along with BB..BB sound.
- Press D-C (key) together to display date and along with BB..BB sound.

### 3. Time and date setting

- In timekeeping mode, press and hold B for 3 seconds to enter alarm setting mode ( at this time, please do not press C or D(key) to adjust ), press B directly, “seconds” and “Tuesday”start to flash, which indicates enter to time setting, press D to select other settings in sequence as below:



- Press C to clear “seconds” to zero, minutes will be increased by 1 automatically if the current seconds is in the range of 30 to 59, while minutes without changing if seconds is in the range of 00 to 29.
- Press C to increase the value, hold down C for some time to increase the value quickly.
- Press B to exit setting, and then return to timekeeping mode.
- It will not exit from setting mode if there is no key operation.

### 4. Daily alarm setting

- In timekeeping mode, press and hold B for 3 seconds to enter alarm setting mode, at this time, “hour” and “Monday(Mon.)” start to flash, which indicates to enter alarm setting, press D to select other settings in sequence as below:



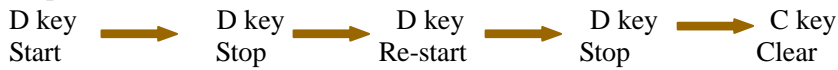
- Press C to increase the value, hold down C for some time to increase the value quickly.
- Press B to exit from setting, and then return to timekeeping mode.
- It will not exit from setting mode if there is no key operation.
- When alarm is turned on, the alarm tone sounds with BB..BB for 20 seconds when the alarm time is reached.
- Press C to stop alarm tone.

### 5. Stopwatch and split time

- Week displays when enter to stopwatch mode: “Sunday(Sun.)” starts to flash, “Saturday (Sat.)” starts to flash when stopwatch is at 1/100 second, “Friday(Fri.)” starts to flash when stopwatch stop counting, “Thursday(Thu.)” starts to flash when split time begins, “Thursday(Thu.) and Friday(Fri.)”start to flash when split time stop counting.
- The display range of the stopwatch is 23 hours, 59 minutes, 59.99 seconds.
- Stopwatch displays 1/100 second at the first 40 minutes, “Saturday (Sat.)”will stop flashing in 40 minutes, which indicates there is no 1/100 second displays.
- Stopwatch will continue measuring if you do not stop it, and when stopwatch is up to its limit, it will restart to measure from 0.
- The stopwatch will continue measuring at the background even if you exit the stopwatch mode.

To measure times with the stopwatch

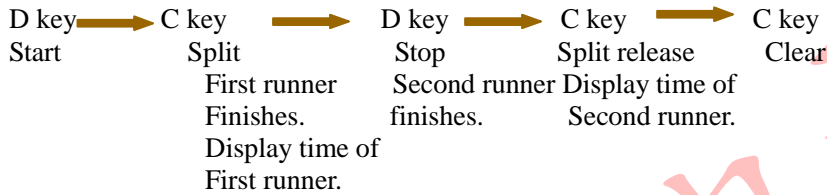
Elapsed time:



Spilt time:



Two Finishes:



## C. Specifications

- Module dimension(protrusion included) :  $\Phi 33.2\text{mm}$
- Module thickness(buzzer included) : 8.8mm
- Operational temperature range :  $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$
- Operationa voltage : 3.0V
- Time accuracy :  $\pm 90\text{sec/month}$
- Battery code : CR2016 (Capacity: 90mAh)
- Static average current :  $\leq 0.72\mu\text{A}$  (Static maximum current: 2.5u A)
- Alarm average current :  $\leq 1.73\mu\text{A}$  (Alarm maximum current: 7.0m A)
- Average current of EL illuminations :  $\leq 8.31\text{mA}$  (Maximum current of EL illuminations: 10m A)
- Bttery life(90%) :  $\geq 24\text{ months}$ (Japan Lithium)

According these standards to calculate the battery life: EL backlight illuminates 4 times everyday,each time illuminates for 3 seconds. Alarm tone sounds for 60 seconds everyday.

	Prepared	Checked	Approved
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Date	11/07/28	11/08/09	11/08/09