

Thank you for purchasing our product. In order to ensure that you can patronize this watch for a long period of time, please carefully read this instruction manual and the warranty regulations to use it correctly.

After reading this instruction manual, keep it at hand and refer to it when necessary.

● PRODUCT FEATURES

The light received by the solar cell located under the face is turned into electrical energy to operate this watch.

- Ⓞ With a full recharge, the watch will keep running for about six months.
- Ⓞ No need to replace the battery. It is not necessary to replace the battery because it does not use a silver oxide battery used for general quartz watches.
- Ⓞ Even if the watch is left intact for a long time, it starts operating by exposing it to the light.
- Ⓞ Provided with an residual energy notifying function. When the battery is running out, the second hand advances by two seconds to inform you of a need to charge the battery. After starting two-second step movement, the watch may stop operating within about three days.
- Ⓞ Provided with a quick start function. When the watch is motionless, it immediately starts operating by exposing it to the light.
- Ⓞ Before, the watch only had hands to tell the hour, minute, and second. Now, hands are also used to tell the date, day of the week, and 24-hour time.

● PRODUCT SPECIFICATIONS

(1) Crystal oscillator frequency:	32,768 Hz	Residual energy notifying function
(2) Driving system:	Step motor system	Overcharge preventive function
(3) Accuracy:	Monthly rate of +/- 20 seconds (When worn on the arm)	(5) Operating temperature range: -5°C to +50°C
(4) Additional functions:	Second hand regulator, reset switch Quick day correcting mechanism Quick start function	(6) Battery used: Titanium lithium ion secondary battery
		(7) Drive duration time: From full charge to a stop: Approx. 6 months From two-second step movement to a stop: Approx. 3 days.

● PRIOR TO USING THE WATCH

Prior to using the watch, check the following.

- Ⓞ Even if totally stopped, the watch begins to work again as soon as it is exposed to light.
 - Once fully charged, this watch will keep running for about six months.
 - This watch may stop running within six months if it isn't exposed to sufficient light.
- Ⓞ If the watch is low on power or has stopped running, recharge it by exposing it to light. Exposure of the watch to sunlight or any other strong light (1,000 luxes: 70 cm directly under a 30W fluorescent lamp) when it has stopped running can restore its function in 2-second steps.—Instant-startup function
- Even if the quick start function is activated to allow two-second step movement, the battery is not sufficiently charged yet. Expose the watch to a stronger light to charge it.
- If the light is shut off in the quick start condition, the watch may stop.
- Taking into account the standard charging time, charge the battery until one-second movement is secured.
- It is not necessary to fully charge it at any time. Initially, however, it is recommended to fully charge it.

● NOTES FOR USE

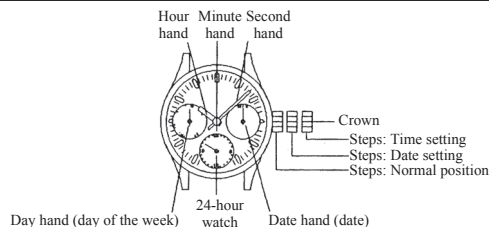
When the watch is in use, keep it from entering 2-second steps by following the guidelines below:

- * Wear it on your wrist at a position exposed to light, uncovered by your sleeves. Then it will always move at 1-second steps.
- * When the watch is off your wrist, keep it in a bright, well-lit place with its dial face facing upwards.
- Put it beside a bright window in daytime or underneath a fluorescent lamp at night. If you find it functioning in 2-second steps before you go to bed, it is recommendable to recharge it until it is restored to 1-second steps.
(Be sure to keep the watch always at a temperature of less than 50 degrees C.)

● BATTERY USED

- It is not necessary to replace the battery because this watch uses an exclusive secondary battery different from general ones.
- This secondary battery is environment-friendly.
- * Never use a general silver oxide battery because it could result in bursting, heat generation, or ignition. Even if it is used, the watch is structured not to allow power continuity.

● EXPLANATION ON INDIVIDUAL POINTING HANDS AND CROWN



● WHEN TWO-SECOND STEP MOVEMENT STARTS

When the residual energy notifying function is activated, the watch starts two-second step movement. If this is the case, charge the watch because it may stop operating within about three days. Taking into account the standard charging time, charge the battery sufficiently.

● STANDARD CHARGING TIME

Illuminance lx (lux)	Light Source	Environment (Standard)	Full Charging Time	Charging Time to Secure 1-sec. Step Movement	Charging Time Required for 1-day Operation
500	Incandescent electric lamp	60W 60cm	Approx. 250 hours	Approx. 15 hours	Approx. 70 minutes
700	Fluorescent lamp	In general office	Approx. 175 hours	Approx. 11 hours	Approx. 50 minutes
1000	Fluorescent lamp	30W 70cm	Approx. 120 hours	Approx. 6 hours	Approx. 30 minutes
3000	Fluorescent lamp	30W 20cm	Approx. 40 hours	Approx. 2 hours	Approx. 10 minutes
5000	Fluorescent lamp	30W 12cm	Approx. 22 hours	Approx. 80 minutes	Approx. 6 minutes
10000	Fluorescent lamp	30W 3cm	Approx. 10 hours	Approx. 30 minutes	Approx. 3 minutes
10000	Sunshine	Cloudy weather	Approx. 10 hours	Approx. 30 minutes	Approx. 3 minutes
100000	Sunshine	Fine weather	Approx. 3 hours	Approx. 8 minutes	Approx. 1 minutes

- * The numerals in the table above should be used as a yardstick.
- * The numerals in this column indicate the charging time required for one-second step movement to be secured following two-second step movement after the motionless watch is exposed to the light. One-second step movement is activated before the end of this charging time, but in this condition, two-second step movement could be immediately resumed again. Therefore, charge the battery according to this time.
- * The charging time above varies slightly from one model to another.
- * Precautions for recharge
Bringing the watch near a photo flash light, spotlight, incandescent lamp, etc., can considerably raise the temperature of the watch, possibly resulting in damage of the internal parts. Such a dangerous action should be avoided.
- * Caution must be exercised in case the watch is recharged under the sunlight as a dashboard of the car can become considerably hot.
- * Always try to keep the watch in temperatures less than 50 degrees C.

● SETTING CALENDAR AND TIME

No correction mechanism is provided for the day setting. Therefore, turn the hour hand and the minute hand at first, and then set the day of the week.

- * For some products with screw-type crowns, the calendar and time are set after unwinding the screw by tuning it counterclockwise. After the setting, be sure to fasten the screw securely by turning the crown clockwise.
- ① When the hand comes to the 0-second position, pull the crown on the 3 o'clock side up to the second step.
- ② First, turn the crown clockwise, and set the day of the week.
If the week hand jumps twice, then bring the hand back to about the 10 o'clock position by turning the crown counterclockwise. Again, let the week hand jump twice by turning the crown clockwise. Repeat this action to set the day of the week.

- ③ Once the day of the week is set, you can turn the crown clockwise, check the AM/PM with a 24-hour hand without mistaking AM for PM and vice versa, and then set the time accurately.
- * For an accurate setting, advance the minute hand once by about 5 minutes, bring it back (reverse it), and set it to the correct time.



- ④ Press in the crown on the 3 o'clock side simultaneously with the time signal. The watch starts to function.



● SETTING DATE

- ① Pull the crown up to the first step and set the date by turning it counterclockwise.

- ② Press in the crown to the normal position.



- * When setting the date, be sure to turn the crown gently.
- * Avoid correcting the date at any time between 9:00 at night and 1:00 in the morning. During these hours, you may find that the date doesn't change to the next day or that the correction can't be made.

● REGARDING THE 24-HOUR HAND

It is impossible to make any independent correction because it is not linked to the hour hand.