

## **Cal. 5M85**

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You are now the proud owner of a SEIKO KINETIC® Diver's Watch Cal. 5M85. For best results, please read the instructions in this booklet carefully before using your SEIKO KINETIC® Diver's Watch. Please keep this manual handy for ready reference.

Sie sind jetzt stolzer Besitzer einer SEIKO KINETIC® Taucheruhr Cal. 5M85. Bitte lesen Sie diese Bedienungsanleitung vor der Verwendung Ihrer SEIKO KINETIC® Taucheruhr sorgfältig durch, um die optimale Nutzung dieser Uhr zu gewährleisten. Heben Sie diese Bedienungsanleitung gut auf, um jederzeit wieder nachlesen zu können.

Vous voici l'heureux propriétaire d'une montre de plongée SEIKO KINETIC® Cal. 5M85. Pour en obtenir de bonnes performances, veuillez lire attentivement les explications de ce mode d'emploi avant d'utiliser votre montre de plongée SEIKO KINETIC®. Conservez ce mode d'emploi pour toute référence ultérieure.

Grazie di aver acquistato questo orologio SEIKO KINETIC® ad uso subacqueo, Cal. 5M85. Per ottenerne i migliori risultati leggere attentamente le istruzioni di questo libretto prima di passare all'uso dell'orologio stesso. Tenere poi il manuale a portata di mano, per ogni eventuale futura, ulteriore consultazione.

Puede sentirse ahora orgulloso de poseer un reloj de buceo SEIKO KINETIC® Cal. 5M85. Para obtener de él los mejores resultados, lea las instrucciones del presente folleto con cuidado antes del uso de su reloj de buceo SEIKO KINETIC®. Guarde este manual para fácil referencia.

Você pode sentir-se orgulhoso de possuir um Relógio do Mergulhador SEIKO KINETIC® Cal. 5M85. Para obter dele os melhores resultados, leia atentamente as instruções contidas neste opúsculo antes de usar o seu Relógio do Mergulhador SEIKO KINETIC®. Conserve este manual para referências futuras.

Теперь вы являетесь обладателем для дайвинга смотреть SEIKO KINETIC® Кал. 5M85. Перед их использованием и для достижения лучших результатов, пожалуйста, внимательно ознакомьтесь с данной инструкцией и обязательно сохраните ее.

歡迎你購買精工 5M85 機型動力潛水手錶®。為了更好地使用精工動力手錶®, 請您在使用前詳細閱讀本說明手冊, 並把說明手冊妥善保管, 以備隨時用於參考。



## WARNING

- Do not attempt to dive using this watch unless you have been properly trained in diving. For your safety, please abide by the rules of diving.
- Do not use the watch for saturation diving using helium gas.
- Before diving, make sure that the watch operates normally.
- When diving, never carry out operations other than those specified in the accompanying booklet. Misuse of the product and misunderstanding of the displayed content may lead to a fatal or serious accident.
- This watch is an auxiliary instrument which is intended to be used as a timepiece. Use this watch with proper diving equipment, such as a residual pressure gauge, water depth meter, etc., which is required for safe diving.



## CAUTION

- Please read and observe the instructions described in this booklet to ensure the proper functioning of your diver's watch.
- Do not operate the crown when the watch is wet or in water.
- Avoid hitting the watch against hard objects such as rocks.


**WARNING**

**WARNING** notes indicate any condition or practice which, if not strictly observed, could result in severe personal injury or possible death.


**CAUTION**

**CAUTION** notes indicate any condition or practice which, if not strictly observed, may result in personal injury or property damage.

## PRECAUTIONS ON USING THE WATCH FOR DIVING

Before diving, make sure that the watch operates normally and be sure to observe the precautions described below.

### BEFORE DIVING

- Do not use the watch for saturation diving using helium gas.
- To measure the elapsed time while you are underwater, always use the rotating bezel.
- Check that:
  - the second hand is moving at one-second intervals.
  - the crown is locked tightly in place.
  - there are no visible cracks in the crystal or the watch band.
  - the strap or bracelet is securely fastened to the watch case.
  - the buckle keeps the strap or bracelet firmly secured to the wrist.
  - the rotating bezel turns counterclockwise smoothly (the rotation must not be too loose or too tight) and the "⌚" mark aligns with the minute hand.
  - the time and calendar are appropriately set.

**If there are any malfunctions, we recommend that you contact an AUTHORIZED SEIKO SERVICE CENTER.**

### WHILE DIVING

- Do not operate the crown when the watch is wet or in water.
- Take care not to hit the watch against hard objects such as rocks.
- Bezel rotation may become slightly stiffer underwater. This is not a malfunction.

### AFTER DIVING

- Rinse the watch in fresh water after diving and wash out all seawater, soil, sand, etc.
- Wipe the watch thoroughly dry to prevent possible rust on the case after cleaning the watch in fresh water.

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☆ For the care of your watch, see "TO PRESERVE THE QUALITY OF YOUR WATCH" in the attached Worldwide Guarantee and Instruction Booklet.

## FEATURES

SEIKO KINETIC Cal. 5M85 is an analogue quartz watch equipped with the Kinetic technology developed by SEIKO. It generates the electric energy to power the watch, utilizing the movement of your body, and stores it in the rechargeable battery, which requires no periodical replacement unlike conventional button-type batteries. The watch is equipped with a 24-hour hand and features an hour-hand independent adjustment function (for time difference adjustment), offering several types of 24-hour hand usage. For instance, if you set the 24-hour hand to show your home time, you can independently set the hour hand to display the time of the place you are staying at as well as easily check your home time with the 24-hour hand. Alternatively, you can set the 24-hour hand to display the time in a different time zone.

### ● Calibre number of your watch

Please check the case back of your watch to find its calibre number inscribed on it. As illustrated at right, the calibre number of your watch is the 4-digit number to the left of the hyphen mark.



## NAMES OF THE PARTS

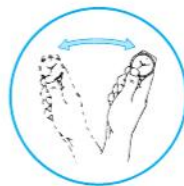


### CROWN

- a) Normal position
- b) First click position: hour-hand independent adjustment, date setting
- c) Second click position: time setting

## HOW TO CHARGE AND START THE WATCH

- 1** Swing the watch from side to side.  
\* Swing rhythmically at a rate of twice a second.
- 2** Charge the rechargeable battery sufficiently.
- 3** Set the time/calendar and put on the watch.



## NUMBER OF SWINGS AND POWER RESERVE



1. When the watch stops completely, or if you find the second hand moving at two-second intervals, swing the watch from side to side at a rate of twice a second.
2. 250 swings will reserve up to 1 day of power. The second hand will start moving at one-second intervals.

\* It is recommended that the watch be swung further until 2 days of power is reserved. As a guideline of recharging, additional 250 swings, about 500 swings in total will reserve 2 days of power.

3. Wear the watch on your wrist.

## POWER RESERVE ACCUMULATED WHILE YOU ARE WALKING

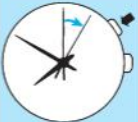
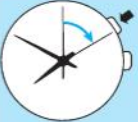
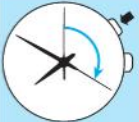



- ☆ The illustrations above provide only general guidelines of the relationship between the power reserve and the number of swings/the distance you walk. Actual amount of power reserve differs from person to person.

## POWER RESERVE INDICATOR

- Press the button at the 2 o'clock position.

\* To allow easy reading of the second hand, press the button when the second hand is at the 12 o'clock position.

★ QUICK MOVEMENT OF SECOND HAND	5 seconds	10 seconds	20 seconds	30 seconds
				
POWER RESERVE	More than 1 day	More than 7 days	More than approximately 1 month	Approximately 6 months

★ Toward the end of the quick movement, the second hand will gradually slow down until it stops.

★ The second hand will resume normal movement after the indicated 5, 10, 20 or 30 seconds have elapsed.

## SCREW LOCK TYPE CROWN

- Some models have the screw lock type crown, which can be locked by the screw when it is not necessary to be operated.
- Locking the crown will prevent operating errors.
- Unscrew the crown before any crown operation. When the operation is over, screw the crown in to lock.

### ■ HOW TO OPERATE THE SCREW LOCK TYPE CROWN

If your watch has a screw lock type crown, unscrew it before any crown operation.

- ❖ Always keep the crown locked unless it is necessary for operating the crown.

#### [To unscrew the crown]

Turn the crown counterclockwise (downward) to unscrew it. The crown is unlocked and can be operated.



The crown can be pulled out.

#### [To screw the crown in]

Upon completion of the crown operation, screw the crown in completely until it stops by turning it clockwise (upward) while gently pressing it back into the original position.



Turn the crown while pressing it back in.

## HOW TO SET THE TIME AND DATE, HOW TO USE THE TIME DIFFERENCE ADJUSTMENT FUNCTION

### ● How to set the time

- When setting the time, ensure that the watch is working: the second hand is moving at one-second intervals.
- In a case that the watch is completely stopped due to a shortage of stored electrical energy, recharge the watch until the second hand resumes the normal one-second interval movement, and then reset the time and calendar. (Refer to "IF THE SECOND HAND STARTS MOVING AT TWO-SECOND INTERVALS" on page 28.)
- The 24-hour hand can be used in two ways. Since the time setting procedure differs according to the usage, please choose the method before setting the time.

<Method 1> Simply using the 24-hour hand to show the 24-hour time as an AM/PM indicator.

- This is the standard usage for the 24-hour hand.



<Method 2> Using the 24-hour hand to indicate the time in a different time zone.

- For instance, by setting the 24-hour hand to GMT while setting the hour and minute hands to indicate the time in your area, you can easily check GMT with the 24-hour hand at any time.



**How to set the 24-hour hand as a regular 24-hour indicator**  
**<When method 1 usage is selected>**



Second click position

1. Pull out the crown to the second click.

- \* Pull the crown out when the second hand is at the 12 o'clock position and the second hand will stop on the spot.
- \* When setting the time, ensure that the watch is working: the second hand is moving at one-second intervals.



**<Example>**

To set to 10:00 A.M., adjust the 24-hour hand to indicate "10" on the 24-hour scale (5 o'clock position), and the minute hand to the "0" minute position.

To set to 6:00 P.M., adjust the 24-hour hand to indicate "18" on the 24-hour scale (9 o'clock position), and the minute hand to the "0" minute position.

2. Turn the crown to set the 24-hour and minute hands to the current time.

- \* Only the 24-hour and minute hands are to be set at this stage. The hour hand is to be set later so it is not necessary to adjust the hour hand yet, even if it is indicating the wrong time.
- \* The date may be altered depending on the position of the hour hand, however it should not cause any concern since it can also be adjusted later.
- \* Set the minute hand ahead of the time and then slowly turn it back to the desired time.

3. Push the crown back in simultaneously with a time signal.

- \* The setting of the 24-hour, minute and second hands to the current time is now completed.

4. Pull out the crown to the first click.



- Turn the crown to set the hour hand to the current hour.
  - \* Also, adjust the date at this point if necessary.
  - \* The moment the date changes is midnight. When setting the hour hand, be sure that AM/PM is set correctly.
  - \* Turn the crown slowly, checking that the hour hand moves in one-hour increments.
  - \* When adjusting the hour hand, the other hands may move slightly. However, this is not a malfunction.
- Push the crown back in upon completion of time setting.

**How to set the 24-hour hand as a dual time indicator for a "different time zone area" <when method 2 usage is selected>**



Second click position

- Pull out the crown to the second click.
  - \* Pull the crown out when the second hand is at the 12 o'clock position and the second hand will stop on the spot.
  - \* When setting the time, ensure that the watch is working: the second hand is moving at one-second intervals.



<Example>

To set the 24-hour hand to the time in New York while setting the hour/minute hands to indicate the time in London.

When the time in London is 10:00 A.M., it is 5:00 A.M. in New York. Set the 24-hour hand to indicate "5" on the 24-hour scale (the 2.5 o'clock position), while the minute hand is pointing at the "0" minute position.

\* The time difference adjustment function serves only for a time in a "different time zone area" where the time difference from the time in London is represented in one-hour increments.

- Turn the crown to set the 24-hour and minute hands to the time in the "different time zone area" you wish to set.
  - \* Only the 24-hour and minute hands are to be set at this stage. The hour hand is to be set later so it is not necessary to adjust the hour hand yet, even if it is indicating the wrong time.
  - \* The date may be altered depending on the position of the hour hand, however it should not cause any concern since it can also be adjusted later.
  - \* Set the minute hand ahead of the time and then slowly turn it back to the desired time.
- Push the crown back in simultaneously with a time signal.
  - \* The setting of the 24-hour, minute and second hands to the time in the "different time zone area" is now completed.
- Pull out the crown to the first click.



5. Turn the crown to set the hour hand to the current hour. (In this example, the current hour in London.)

- \* Also, adjust the date at this point if necessary.
- \* The moment the date changes is midnight. When setting the hour hand, be sure that AM/PM is set correctly.
- \* Turn the crown slowly, checking that the hour hand moves in one-hour increments.
- \* When adjusting the hour hand, the other hands may move slightly. However, this is not a malfunction.

6. Push the crown back in upon completion of time setting.

### ● How to set the date

- This watch is designed so that the date changes one day by turning the hour hand two full rotations in the same way as in "the time difference adjustment function."
- The date advances one day by turning the hour hand two full rotations clockwise, while the date is set back one day by turning the hour hand two full rotations counterclockwise.
- After setting the time, it is necessary to set the date. Manual date adjustment is required on the first day after a month that has less than 31 days.

1. Pull out the crown to the first click.
2. Each time the hour hand makes two full rotations by turning the crown, the date is adjusted one day.



Clockwise: the hour hand turns counterclockwise. The date is set back one day when the hour hand makes two full rotations counterclockwise.

Counterclockwise: the hour hand turns clockwise. The date advances one day when the hour hand makes two full rotations clockwise.

First click position

- \* The date can be adjusted either by advancing it or by setting it back. Choose whichever requires fewer rotations.
- \* Turn the crown gently.
- \* To adjust the date without changing the time, turn the hour hand in two full rotation increments.

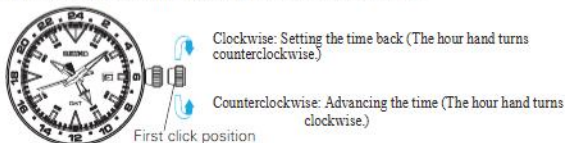
\* When adjusting the hour hand, the other hands may move slightly. However, this is not a malfunction.

3. After completing the date setting, check the position of the hour hand once again and push the crown back in.

### ● How to adjust the time difference

- While staying in a place in a different time zone area from where you live, you can conveniently set the watch to indicate the local time in the place where you are staying without stopping the watch.
- The time difference adjustment function is interrelated with the date display. If the time difference is correctly adjusted, the watch displays the correct date of the place where you are staying.

1. Pull out the crown to the first click.
2. Turn the crown to set the hour hand to indicate the time of the place where you are staying. The hour hand is independently set to the current hour.



\* Turn the crown slowly, checking that the hour hand moves in one-hour increments.

- \* Refer to "Time difference table" for time differences from GMT (UTC).
- \* When adjusting the time difference, make sure that AM/PM and the date are correctly set.
- \* When adjusting the hour hand, the other hands may move slightly. However, this is not a malfunction.
- \* When turning the crown clockwise to set the hour hand to indicate any time between 9:00 P.M. and midnight, keep turning until the hour hand points to 8:00 P.M., and then advance it to the desired time.

3. After completing the time difference adjustment, check the position of the hour hand once again and push the crown back in.

● **Time difference table**

\* Refer to the table below for time differences from GMT (UTC) in major cities in the world.

Major cities in respective time zones	Time difference with GMT (UTC)
Midway Islands	-11 hours
Honolulu	-10 hours
Anchorage ★	-9 hours
Los Angeles ★, San Francisco ★	-8 hours
Denver ★, Edmonton ★	-7 hours
Chicago ★, Mexico City ★	-6 hours
New York ★, Washington ★, Montreal ★	-5 hours
Santiago ★	-4 hours
Rio de Janeiro ★	-3 hours
Azores ★	-1 hour
London ★, Casablanca	0 hour

Paris ★, Rome★, Amsterdam★	+1 hour
Cairo, Athens★, Istanbul★	+2 hours
Jeddah, Mecca, Nairobi	+3 hours
Dubai	+4 hours
Karachi, Tashkent★	+5 hours
Dhaka	+6 hours
Bangkok, Jakarta	+7 hours
Hong Kong, Manila, Beijing, Singapore	+8 hours
Tokyo, Seoul, Pyongyang	+9 hours
Sydney ★, Guam, Khabarovsk★	+10 hours
Nouméa, Solomon Islands	+11 hours
Wellington ★, Fiji islands, Auckland★	+12 hours

\* Cities marked with "★" use daylight saving time.

\* The time differences and use of daylight saving time in each city are subject to change according to the governments of the respective countries or regions.

## IF THE SECOND HAND STARTS MOVING AT TWO-SECOND INTERVALS (ENERGY DEPLETION FOREWARNING FUNCTION)

- When the second hand starts moving at two-second intervals whether it is worn or left untouched, the watch may run down within approximately 24 hours.
- In such a case, swing the watch from side to side to sufficiently charge the rechargeable battery (refer to "HOW TO CHARGE AND START THE WATCH" on page 6), and then reset the time and calendar.

## INSTANT-START FUNCTION

- When a long time has passed since the watch stopped, you can get it started quickly with only a few swings.
- The instant-start function will remain active for approximately 3 years after a fully-charged watch stops working.

\* When this function is activated, the second hand will start moving at two-second intervals. Swing the watch from side to side to charge the rechargeable battery by referring to "NUMBER OF SWINGS AND POWER RESERVE" on page 7.

\* After the second hand starts moving at one-second intervals, put the watch on your wrist so that it will be charged further.

\* The watch remains accurate even while the second hand is moving at two-second intervals.

## REMARKS ON THE RECHARGEABLE BATTERY

- The electric energy generated while the watch is worn on your wrist is stored in the rechargeable battery. It is a power source completely different from conventional batteries for watches and does not require any periodic replacement.
- When the rechargeable battery is fully charged, the watch will keep operating for approximately **6 months** without recharging the rechargeable battery.
- The duration of charge decreases gradually over time. The extent of decrease, however, varies depending on the environment and conditions of use.
- The rechargeable battery is a clean and environmentally friendly power source.



### CAUTION

**Never install a silver oxide battery for conventional watches in place of the rechargeable battery. The battery may burst, become very hot or catch fire.**

## NOTES FOR USING THE WATCH

### HOW TO CHARGE AND START THE WATCH

- To charge the rechargeable battery efficiently, swing the watch from side to side, making an arc of about 20 cm.
- No additional benefit is obtained by swinging the watch more quickly or with greater vigor.
- When the watch is swung, the oscillating weight in the generating system rotates to drive the mechanism. As it rotates, it gives out a sound, which is not a malfunction.
- When the watch has been left untouched for more than one year after it has completely stopped, the second hand may not start moving at normal one-second intervals even if the watch is swung the number of times indicated in "NUMBER OF SWINGS AND POWER RESERVE" on page 7. In this case, swing the watch further until the second hand starts moving at one-second intervals.
- The watch is equipped with a system to prevent overcharge. Even if it is further swung after being fully charged, no malfunction will result.
- The watch is equipped with an instant-start function, and it may start operating after it is swung several times. For details, see "INSTANT-START FUNCTION".
- It is not necessary to charge the watch fully, as it is charged automatically while it is worn on your wrist.
- Wear the watch daily for at least 10 hours.
- Even when the watch is worn on your arm, it will not be charged if your arm is not in motion.

### POWER RESERVE INDICATOR

- The power reserve indicator provides only a general guideline of the duration within which the watch keeps operating without needing to be charged.
- You can immediately press the button again to recheck the power reserve one more time. To do so a third time, however, wait until the second hand resumes normal movement before pressing the button again.

- When the second hand moves at two-second intervals, the power reserve is very low and the indicator does not function.
- Immediately after the watch is swung to charge the rechargeable battery, the second hand may not properly indicate the power reserve. Please check again after 10 to 15 minutes have elapsed.

#### ● **Precaution on see-through case-back models:**

If your watch has a glass case back, do not expose the case back to strong light such as direct sunlight or an incandescent light at close range, as this may temporarily increase the power consumption of the watch circuit, thus reducing the power reserve in the rechargeable battery. This condition, however, will be corrected when the case back is turned away from the light.

### TIME/CALENDAR SETTING

- To set the exact time, pull out the crown all the way when the second hand is at the 12 o'clock position and push it back in to the normal position in accordance with a time signal.
- When setting the hour hand, pull out the crown to the first click, turn it to set the hour hand to the current hour, and then check that AM/PM is correctly set. The watch is designed so that the calendar changes once in 24 hours.
  - Turn the hand past the 12 o'clock marker to determine whether the watch is set for the A.M. or P.M. period. If the calendar changes, the time is set for the A.M. period. If the calendar does not change, the time is set for the P.M. period. Turn the crown slowly, checking that the hour hand moves at one-hour intervals.
- When setting the minute hand, pull out the crown all the way to turn the minute hand. Advance the hand 4 to 5 minutes ahead of the desired time and then turn it back to the exact minute.
- When setting the time, make sure that the second hand is moving at one-second intervals.
- It is necessary to adjust the date at the end of February and 30-day months.
- When setting the date, pull out the crown to the first click and turn it to rotate the hour hand until the date changes. The date advances one day by turning the hour hand two full rotations clockwise, while the date is set back one day by turning the hour hand two full rotations counterclockwise.

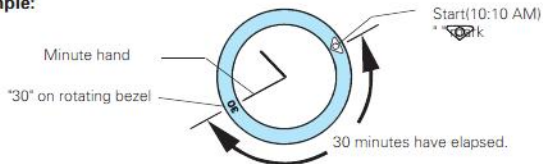
## ROTATING BEZEL

The rotating bezel can show the elapsed time up to 60 minutes. By setting it before diving, you can know how many minutes you are underwater.

- To prevent accidental rotation, the rotating bezel is so designed that rotation becomes harder in water. Also for safety's sake, it rotates only counterclockwise, so that the time measured is never shorter than the actual elapsed time.

- Turn the rotating bezel to align its "0" mark with the minute hand.  
\* The rotating bezel rotates with clicks. With each click, it turns half a minute.
- To know the elapsed time, read the number on the rotating bezel that the minute hand points to.

**Example:**



## TO PRESERVE THE QUALITY OF YOUR WATCH

- Repair of diver's watches requires special expertise and equipment. If you find that your diver's watch is malfunctioning, therefore, never attempt to repair it but immediately send it to a nearby SEIKO Service Center.

### ■ TEMPERATURES



Your watch works with stable accuracy within a temperature range of 5° C and 35° C (41° F and 95° F). Temperatures over 60° C (140° F) may cause battery leakage or shorten the battery life. Do not leave your watch in very low temperatures below -10° C (+14° F) for a long time since the cold may cause a slight time loss or gain. However, the above conditions will be corrected when the watch returns to normal temperature.

### ■ MAGNETISM



Your watch will be adversely affected by strong magnetism. Keep it away from close contact with magnetic objects.

### ■ CHEMICALS



Be careful not to expose the watch to solvents, mercury, cosmetic spray, detergents, adhesives or paints. Otherwise, the case, bracelet, etc. may become discolored, deteriorated or damaged.

### ■ PERIODIC CHECK



It is recommended that the watch be checked once every 2 to 3 years by an AUTHORIZED SEIKO DEALER or SERVICE CENTER to ensure that the case, crown, gasket and crystal seal remain intact.

### ■ CARE OF CASE AND BRACELET



To prevent possible rusting of the case and bracelet, wipe them periodically with a soft dry cloth.

### ■ SHOCKS & VIBRATION



Be careful not to drop your watch or hit it against hard surfaces.

### ■ PRECAUTION REGARDING CASE BACK PROTECTIVE FILM



If your watch has a protective film and/or a sticker on the case back, peel them off before using your watch.

## LUMIBRITE™

LumiBrite is a luminous paint that is completely harmless to human beings and the natural environment, containing no noxious materials such as radioactive substances.

LumiBrite is a newly-developed luminous paint that absorbs the light energy of sunlight or artificial light in a short time and stores it to emit light in the dark.

For example, if exposed to a light of more than 500 lux for approximately 10 minutes, LumiBrite can emit light for 5 to 8 hours.

Please note, however, that, as LumiBrite emits the light it stores, the luminance level of the light decreases gradually over time. The duration of the emitted light may also differ slightly depending on such factors as the brightness of the place where the watch is exposed to light and the distance from the light source to the watch.

When you make a dive in dark water, LumiBrite may not emit light unless it has absorbed and stored light sufficiently.

Before diving, therefore, be sure to expose the watch to light under the conditions specified above, so that it fully absorbs and stores light energy. Otherwise, use the watch together with an underwater flashlight.

#### < Reference data on luminance >

- (A) Sunlight
  - [Fine weather]: 100,000 lux
  - [Cloudy weather]: 10,000 lux
- (B) Indoor (Window side during daytime)
  - [Fine weather]: more than 3,000 lux
  - [Rainy weather]: less than 1,000 lux
  - [Cloudy weather]: 1,000 to 3,000 lux
- (C) Lighting apparatus (40-watt daylight fluorescent light)
  - [Distance to the watch: 1 m]: 1,000 lux
  - [Distance to the watch: 3 m]: 500 lux (average room luminance)
  - [Distance to the watch: 4 m]: 250 lux

\* "LUMIBRITE" is a trademark of SEIKO HOLDINGS CORPORATION.

## SPECIFICATIONS

- |   |                                       |  |
|---|---------------------------------------|--|
| 1 | Frequency of crystal oscillator ..... | 32,768 Hz (Hz = Hertz...Cycles per second)   |
| 2 | Loss/gain (Monthly rate) .....        | Less than 15 seconds at normal temperature range<br>(Between 5 ° C and 35 ° C) (Between 41 ° F and 95 ° F) |
| 3 | Operational temperature range .....   | Between -10 ° C and + 60 ° C (Between 14 ° F and 140 ° F)  |
| 4 | Display system                        |  |
|   | Calendar indication .....             | Date is displayed.   |
|   | Time indication .....                 | 4 hands (hour, minute, second, and 24-hour hands)  |
| 5 | Driving system.....                   | Step motor   |
| 6 | Power reserve                         |  |
|   | Full charge .....                     | Approximately 6 months   |
| 7 | Additional function.....              | Power reserve indicator, energy depletion forewarning<br>function and overcharge prevention function       |
| 8 | IC (Integrated Circuit).....          | C-MOS-IC, 1 piece  |
| 9 | Rechargeable battery.....             | Button type, 1 piece   |

\* The specifications are subject to change without prior notice for product improvement.