CASIO

Getting Acquainted

Congratulations upon your selection of this CASIO watch. To get the most out of your purchase, be sure to read this manual carefully.

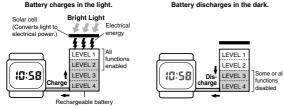
- Warning!
 The measurement functions built into this watch are not intended for taking measurements that require professional or industrial precision. Values produced by this watch should be considered as reasonable representations only.
 The Moon phase indicator and tide graph data that appear on the display of this watch are not intended for navigation purposes. Always use proper instruments and resources to obtain data for navigation purposes.
- This watch is not an instrument for calculating low tide and high tide times. The tide graph of this watch is intended to provide a reasonable approximation of tidal movements only. Note that CASIC COMPUTER CO., LTD. assumes no responsibility for any damage or loss suffered by you or any third party arising through the use of this product or its moleurcing. product or its malfunction.

Keep the watch exposed to bright light

Bright Light

- The electricity generated by the solar cell of the watch is stored by a rechargeable battery. Leaving or using the watch where it is not exposed to light causes the battery to run down. Make sure the watch is exposed to light as
- Ð Solar cell
- to run down. Make sure the watch is exposed to light as much as possible.
 When you are not wearing the watch on your wrist, position the face so it is pointed at a source of bright light.
 You should try to keep the watch outside of your sleeve or source or parallel.
- as much as possible. Charging is reduced significantly if the face is covered only partially.
- The watch continues to operate, even when it is not exposed to light. Leaving the The watch i of lines to operate, even when it is to exposed to ignit. Leaving the watch in the dark can cause the battery to run down, which will result in some watch functions to be disabled. If the battery goes dead, you will have to re-configure watch settings after recharging. To ensure normal watch operation, be sure to keep it exposed to light as much as possible.

Battery charges in the light.



General Guide

- Press © to change from mode to mode.
 In any mode (except when a setting screen is on the display), press ® to illuminate
 the displayed of the displaye Press (b) to other as a setting screen is on the display), prove (b) any mode (except when a setting screen is on the display), prove (b) and the display.
 When you return to the Timekeeping Mode, the day of the week will be displayed after the name of the site you selected. See "Tide Site Name List" for more information about the site.
 Tide/Moon Data Mode

Press (C)



Timekeeping



Press the (a) button to view the current site name setting. Use the Timekeeping Mode to set and view the current time and date.

7/10E 6-30

6:00

B

0

A

(C

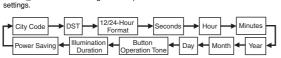
Read This Before You Set the Time and Date! This watch is preset with a number of city codes, each of which represents the time zone where that city is located Which represents the time zone where that city is located When setting the time, it is important that you first select the correct city code for your Home City (the city where you normally use the watch). If your location is not included in the preset city codes, select the preset city code that is in the same time zone as your location. • Note that all of the times for the World Time Mode city codes are disclayed in accordance with the time and codes are displayed in accordance with the time and

≦____]® ŏ-30 date settings you configure in the Timekeeping Mode. [ិ] របិ:S8 so



To set the time and date manually 1. In the Timekeeping Mode hold down (a) until the city the setting scree In the Timekeeping woode noid down (a) until the city code starts to flash, which indicates the setting screen.
 Use (i) and (ii) to select the city code you want.
 Make sure you select your Home City code before changing any other setting.
 For full information on city codes, see the "City Code Table".

Table 3. Press (C) to move the flashing in the sequence shown below to select the other



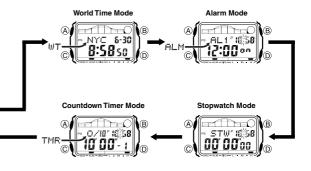
. The following steps explain how to configure timekeeping settings only

- The actual level at which some functions are disabled depends on the watch model.
 Frequent display illumination can run down the battery quickly and require charging. The following guidelines give an idea of the charging time required to recover from a single illumination operation.
- Approximately 5 minutes exposure to bright sunlight coming in through a window Approximately about 8 hours exposure to indoor fluorescent lighting Be sure to read "Power Supply" for important information you need to know when exposing the watch to bright light.

If the display of the watch is blank... If the display of the watch is blank, it means that the watch's Power Saving function has turned off the display to conserve power. • See "Power Saving Function" for more information.

About This Manual

Button operations are indicated using the letters shown in the illustration.
 Each section of this manual provides you with the information you need to perform operations in each mode. Further details and technical information can be found in the "Reference" section.



Screen:	To do this:	Do this:
TYO	Change the city code	Use (D) (east) and (B) (west).
ON	Toggle between Daylight Saving Time $(\bigcirc \square \square)$ and Standard Time $(\bigcirc \square \square \square)$.	Press D.
12H	Toggle between 12-hour $(1 \ge H)$ and 24-hour $(24 H)$ timekeeping	Press D.
SO	Reset the seconds to 00	Press D.
° 10:58	Change the hour and minutes	Use \textcircled{D} (+) and \textcircled{B} (–).
20 10 6-30	Change the year, month, or day	Use () (+) and () (-).
MUTE / KEYJA	Toggle the button operation tone between	Press D.
LT1	Toggle the illumination duration between LT1 (approximately 1.5 seconds) and LT3 (approximately 3 seconds).	Press D.
PS ON	Toggle between Power Saving on (GR) and off (GF F)	Press D.

5. Press (A) to exit the setting screen.
The day of the week is displayed automatically in accordance with the date (year, month, and day) settings.

CASIO

- 12-hour and 24-hour timekeeping
 With the 12-hour format, the P (PM) indicator appears to the left of the hour digits for times in the range of noon to 11:59 p.m. and no indicator appears to the left of the hour digits for times in the range of midnight to 11:59 a.m.
 With the 24-hour format, times are displayed in the range of 0:00 to 23:59, without one indicator of 0:00 to 23:59, without and the second sec
- any indicator. The 12-hour/24-hour timekeeping format you select in the Timekeeping Mode is applied in all other modes.

Daylight Saving Time (DST)

Daylight Saving Time (summer time) advances the time setting by one hour from Standard Time. Remember that not all countries or even local areas use Daylight Saving Time



To change the Daylight Saving Time (summer time) setting 1. In the Timekeeping Mode, hold down (a) until the city code starts to flash, which indicates the setting screen. 2. Pres (C) and the DST setting screen appears. 3. Use (D) to toggle the DST settings in the sequence shown below.

►DST off (OFF) →DST on (ON)

When the setting you want is selected, press (A) twice to exit the setting screen
 The DST indicator appears to indicate that Daylight Saving Time is turned on.

Tide/Moon Data

In the Tide/Moon Data Mode, you can see the tide for the tide site you selected at specified time and the current date's moon phase for your Home City. You can specify

- a date and view tide and moon data for that date.
 See "Moon Phase Indicator" for information about the moon phase indicator and "Tide Graph" for information about the tide graph.
 All of the operations in this section are performed in the Tide/Moon Data Mode.

It takes about two seconds to calculate tide graph data. You will not be able to

A table about the occurrence of the output of the

Tide Data

Tide Data The Tide Graph that appears first when you enter the Tide/Moon Data Mode shows the data at 6:00 a.m. for your currently selected tide site on the current date, according to the Timekeeping Mode. From there you can specify another time on the same date. If the tide data is not correct, check your Timekeeping Mode settings and correct them if necessary. See "To configure tide site settings" for more information.
If you feel that the information shown by the Tide Graph is different from actual tide conditions, you need to adjust the high tide time. See "Adjusting the High Tide Time" for more information.

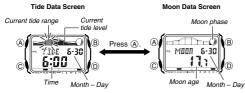
Moon Data

The moon phase and moon age information that appears first when you enter the Tide/Moon Data Mode shows the data at noon for your currently selected Home City on the current date, according to the Timekeeping Mode. After that you can specify another date to view data

- · If the moon data is not correct, check your Timekeeping Mode settings and correct them if necessa
- them if necessary. If the moon phase indicator shows a phase that is a mirror image of the actual moon phase in your area, you can use the procedure under "Reversing the Displayed Moon Phase" to change it.

Tide/Moon Data Screens

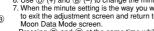
In the Tide/Moon Data Mode, press (A) to toggle between the tide data screen and the moon data screen



- When you display the Tide Data Screen, it initially shows tide data for 6:00 a.m.
 Use the Tide Data Screen to specify the Tide Data time. You can use (i) to change the displayed time in one-hour increments. The Tide Data time is scrolled within the current date only. Scrolling past midnight does not change the date.
 Use the Moon Data Screen to specify the Tide/Moon Data date. You can use (i) to change the displayed date in one-day increments. Pressing (i) will display the year of the displayed date in one-day increments. Pressing (ii) will display the year
- of the displayed date.

Adjusting the High Tide Time

Use the following procedure to adjust the high tide time within a particular date. You can find out high tide information for your area from a tide table, the Internet, or your local newsnaner



- To adjust the high tide time
 To adjust the high tide time
 In the Tide/Moon Data Mode, use (a) to display the moon Data Screen.
 Use (b) to scroll the date until one whose high tide time you want to change is displayed.
 Hold down (a) until the hour digits start to flash.
 Use (b) (+) and (b) (-) to change the hours setting.
 When the hour is the setting you want, press (b) to exit the adjustment screen and return to the Tide/Moon Data Mode, use (b) (+) and (b) (-) to change the minute setting.
 When the hour is the setting you want, press (b) to exit the adjustment screen and return to the Tide/Moon Data Mode screen.
 Pressing (b) and (b) (-) to change the minute setting.
 When the minute setting is the way you want, press (b) to exit the adjustment screen and return to the Tide/Moon Data Mode screen.
 Pressing (b) and (b) at the same time while the time adjustment screen is displayed (steps 4 through 7 above) will return the high tide time to its initial factory default setting.
 The birth tide time setting is affected by the DST
 - default setting.
 The high tide time setting is affected by the DST (summer time) setting of the Timekeeping Mode.

On some days, there are two high tides. With this watch, you can adjust the first high tide time only. The second high tide time for that day is adjusted automatically based on the first high tide time.

Reversing the Displayed Moon Phase

Reversing the Displayed Moon Phase The left-right (east-west) appearance of the Moon depends on whether the Moon is north of you (northerly view) or south of you (southerly view) as you view it. You can use the procedure below to reverse the displayed Moon phase so it matches the actual appearance of the Moon where you are located. To determine the viewing direction of the Moon, use a compass to take a direction reading of the Moon at its meridian passage. • For information about the Moon phase indicator, see "Moon Phase Indicator".



To reverse the displayed Moon phase 1. In the Tide/Moon Data Mode, hold down (A) until the hour digits start to flash. 2. Press © twice. • This will cause the Moon phase indicator to flash. This is the indicator to flash.

- is the indicator switching screen. 3. Press ① to toggle the Moon phase indicator between
- the southerly view (indicated by N I ≤).
 Northerly view: Moon is north of you.
- Southerly view. Moon's notified you.
 Southerly view. Moon is south of you.
 When the Moon phase indicator setting is the way you want, press (a) to exit the switching screen and return to the Tide/Moon Data Mode screen.

World Time



- World Time shows the current time in 48 cities (31 time
- The times the current time in 46 clues (s) time zones) around the world.
 The times kept in the World Time Mode are synchronized with the time being kept in the Timekeeping Mode. If you feel that there is an error in any World Time Mode time, check to make sure you have the correct city selected as your Home City. Also check to make sure that the current time as shown in the Timekeeping in the in encoder.
- Circle to that we suble that the Current time as shown in the Timekeeping Mode is correct.
 Select a city code in the World Time Mode to display the globe. See the "City Code Table" for information about the UTC differential settings that are supported.
 All of the operations in this section are performed in the World Time Mode, which you enter by pressing ©.

To view the time in another city While in the World Time Mode, press (i) (eastward) to scroll through the city codes (time zones). ime zones). Pressing the () and (B) at the same time will jump to the UTC time zone



- To toggle a city code time between Standard Time and Daylight Saving Time 1. In the World Time Mode, press (1) to display the city code (time zone) whose Standard Time/Daylight Saving Time setting you want to change. 2. Hold down (2) to toggle between Daylight Saving Time (DST indicator displayed) and Standard Time (DST indicator and financed)
 - indicator not displayed). The DST indicator is shown on the World Time Mode
 - Ine DS1 indicator is shown on the word line wode screen while Daylight Saving Time is turned on.
 Note that the Standard Time/Daylight Saving Time setting affects only the currently displayed city code. Other city codes are not affected.
 Note that you cannot switch between Standard Time and Daylight Saving Time while UTC is selected as the city code.
 - city code

Alarms



- The Alarm Mode gives you a choice of four one-time alarms and one snooze alarm. Also use the Alarm Mode to turn the Hourly Time Signal (SIG) on and off.
- (51G) on and off.
 There are five alarm screens numbered FL1, FL2, FL3 and FL4 for the one-time alarm, and a snoze alarm screen indicated by SNZ. The Hourly Time Signal screen is indicated by SIG.
 All of the operations in this section are performed in the Alarm Mode, which you enter by pressing ©.

(Hour : Minutes) set an alarm time



1. In the Alarm Mode, use (1) to scroll through the alarm screens until the one whose time you want to set is displayed.



- To set a one-time alarm, display alarm screen RL1, RL2, RL3 or RL4. To set the snoze alarm, display the SNZ screen.
 The snoze alarm repeats every five minutes.
 After you select an alarm, hold down (A) until the hour setting of the alarm time starts to flash, which indicates the setting screen.
 This operation turns on the alarm automatically.
 Press (C) to move the flashing between the hour and minute settings.
 While a setting is flashing, use (C) (+) and (B) (-) to charge it.
 With the 12-hour format, set the time correctly as a.m. or p.m. (P indicator).

- 5. Press (A) to exit the setting screen.

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Alarm Operation

- Alarm Operation The alarm tone sounds at the preset time for 10 seconds, regardless of the mode the watch is in. In the case of the snooze alarm, the alarm operation is performed a total of seven times, every five minutes, until you turn the alarm off. Alarm and Hourly Time Signal operations are performed in accordance with the Timekeeping Mode time.
- Imekeeping Mode time. To stop the alarm tone after it starts to sound, press any button. Performing any one of the operations below during a 5-minute interval between snooze alarms cancels the current snooze alarm operation. Displaying the Timekeeping Mode setting screen Displaying the StMZ setting screen

To test the alarm In the Alarm Mode, hold down (D) to sound the alarm.



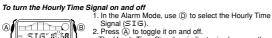
SIG" 16 38

:00 on

Hourly time signal on indicator

11.1 In the Alarm Mode, use ① to select an alarm. 2. Press ④ to toggle it on and off. ● Turning on a alarm (卍し1, 凡二2, 凡二3, 氏上4 or ≦N乙) displays the alarm on indicator on its Alarm Mode screen In all modes, the alarm on indicator is shown for any alarm that currently is turned on.The alarm on indicator flashes while the alarm is

- The snozze alarm indicator flashes while the alarm is alarm is sounding and during the 5-minute intervals between alarms.



- The Hourly Time Signal on indicator is shown on the display in all modes while this function is turned on.

Stopwatch

- TT C ß TW" 18 58 00'00'oo Seconds 1/100 s Mir
- The stopwatch lets you measure elapsed time, split times, and two finishes. The display range of the stopwatch is 59 minutes, 59.99
 - ര
 - The display range or the stopwatch is 59 minutes, 59.95 seconds.
 The stopwatch continues to run, restarting from zero after it reaches its limit, until you stop it.
 The stopwatch measurement operation continues even if you exit the Stopwatch Mode.
 Exiting the Stopwatch Mode while a split time is frozen to be sold to be sold time and returns to be sold. on the display clears the split time and returns to
 - elapsed time measurement. All of the operations in this section are performed in the
 - atch Mode, which you enter by pressing C

To measure times with the stopwatch

Elapsed Time				~
$0 \longrightarrow$	0	· (D)	• 0	A
Start	Stop	Re-start	Stop	Clear
Split Time				
$\bigcirc \longrightarrow$	$\land \longrightarrow$	\land \longrightarrow	$0 \longrightarrow$	A
Start	Split (SPL displayed)	Split release	Stop	Clear
Two Finishes				
$\bigcirc \longrightarrow$	$A \longrightarrow$	$0 \longrightarrow$	$A \longrightarrow$	A
Start	Split First runner finishes. Display time of first runner.	Stop Second runner finishes.	Split release Display time of second runner.	Clear

Countdown Timer



Dual timers can be set with two different starting times. The watch can be configured so the two timers alternate, so when one reaches the end of its countdown, the other timer starts. You can specify a "number of repeats" value, which controls how many times the two-timer countdown operation is performed (1 = once, 2 = twice, etc.). The starting time of each timer can be set in five-second steps up to 99 minutes, 55 seconds. You can specify up to 10 repeats. The watch emits a short beep whenever either of the timers reaches the end of its countdown during an ongoing timer operation. The watch emits a 5-second beep when the end of the final timer operation (specified by the number of repeats) is reached.

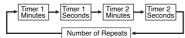
Countdown End Beeper The countdown end beeper lets you know when the countdown reaches zero. The beeper stops after about 5 seconds or when you press any button.

To configure the countdown timer



 While the countdown start time is on the display in the Countdown Timer Mode, hold down (A) until the current countdown start time starts to flash, which indicates the contine record. If the countdown start time is not displayed, use the

- procedure under "To use the countdown limer" to display it. 2. Press (© to move the flashing in the sequence shown below to select other settings.

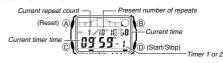


3. When the setting you want to change is flashing, use (1) and (B) to change it as described below

Setting	Screen	Button Operation
Minutes, Seconds	00 [°] 00″	Use \textcircled{D} (+) and \textcircled{B} (-) to change the setting.
Number of Repeats	/1	Use \textcircled{D} (+) and \textcircled{B} (-) to change the setting.

To disable either timer, set 00'00" as its countdown start time 4. Press (A) to exit the setting screen.

To use the countdown timer



- Press ⁽ⁱ⁾ while in the Countdown Timer Mode to start the countdown timer. The countdown is performed by alternating between Timer 1 and Timer 2. A short beep is emitted to signal a changeover from one timer to the other. Pressing ⁽ⁱ⁾ while a countdown timer is stopped resets it to the start time specified by you. Press ⁽ⁱ⁾ to pause a countdown. Press ⁽ⁱ⁾ again to resume. The watch emits a 5-second beep when the end of the final timer operation (specified by the number of repeats) is reached. Even if you exit the Countdown Timer Mode, the countdown timer operation continues and the watch beeps as required. To stop a countdown operation completely, first pause it (by pressing ⁽ⁱ⁾), and then press ⁽ⁱ⁾. This returns the countdown time to its starting value.

Illumination



This watch has an EL (electro-luminescent) panel that causes the entire display to glow for easy reading in the dark. The watch's auto light switch turns on illumination automatically when you angle the watch towards your face.

The auto light switch must be turned on (indicated by the auto light switch on indicator) for it to operate.
 See "Illumination Precautions" for other important information about using illumination.

Auto light switch on indicator

To illuminate the display manually In any mode (except when a setting screen is on the display), press (B) to turn on illumination. . The above operation turns on illumination regardless of the current auto light switch

setting Vou can use the procedure below to select either 1.5 seconds or 3 seconds as the illumination duration. When you press (B), the illumination will remain on for about 1.5 seconds or 3 seconds, depending on the current illumination duration setting.



 To specify the illumination duration

 1. In the Timekeeping Mode, hold down (a) until the display contents start to flash. This is the setting screen.

 2. Press (C) 10 times until the current illumination duration setting (LT1 or LT3) appears.

- 3. Press D to toggle the setting between LT1 (approximately 1.5 seconds) and LT3 (approximately
 - 3 seconds). 4. Press (A) to exit the setting screen.

About the Auto Light Switch

Turning on the auto light switch causes illumination to turn on, whenever you position your wrist as described below in any mode. Note that this watch features a "Full Auto EL Light", so the auto light switch operates only when available light is below a certain level. It does not turn on the backlight under bright light.

Moving the watch to a position that is parallel to the ground and then tilting it towards you more than 40 degrees causes illumination to turn on. • Wear the watch on the outside of your wrist.



Warning!

- Always make sure you are in a safe place whenever you are reading the display of the watch using the auto light switch. Be especially careful when running or engaged in any other activity that can result in accident or injury. Also take care that sudden illumination by the auto light switch does not
- Also take care that sudden informination by the auto light switch does not startle or distract others around you. When you are wearing the watch, make sure that its auto light switch is turned off before riding a bicycle or operating a motorcycle or any other motor vehicle. Sudden and unintended operation of the auto light switch can create a distraction, which can result in a traffic accident and serious personal injury.

To turn the auto light switch on and off In the Timekeeping Mode, hold down (B) for about three seconds to toggle the auto light switch on (auto light switch on indicator displayed) and off (auto light switch on

int switch on (auto light switch on indicator displayed) and on (auto light switch on ndicator not displayed). The auto light switch on indicator is on the display in all modes while the auto light switch is turned on.

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Power Supply

This watch is equipped with a solar cell and a rechargeable battery that is charged by the electrical power produced by the solar cell. The illustration shown below shows how you should position the watch for charging.

Example: Orient the watch so its face is

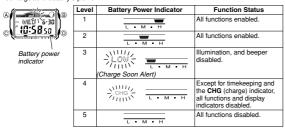
- Example: Orient the watch so its face is pointing at a light source.
 The illustration shows how to position a watch with a resin band.
 Note that charging efficiency drops when any part of the solar cell is blocked by
- any part of the solar control control of the control of t

Solar cell

Important!

- Storing the watch for long periods in an area where there is no light or wearing it in such a way that it is blocked from exposure to light can cause rechargeable battery power to run down. Be sure that the watch is exposed to bright light whenever
- possible.
 This watch uses a rechargeable battery to store power produced by the solar cell, so regular battery replacement is not required. However, after very long use, the rechargeable battery may lose its ability to achieve a full charge. If you experience problems getting the rechargeable battery to charge fully, contact your dealer or CASIO distributor about having it replaced.
- CASIO distributor about having it replaced. Never try to remove or replace the watch's rechargeable battery yourself. Use of the wrong type of battery can damage the watch. All data stored in memory is deleted, and the current time and all other settings return to their initial factory defaults whenever battery power drops to Level 5 and when you have the battery replaced. Turn on the watch's Power Saving function and keep it in an area normally exposed to bright light when storing it for long periods. This helps to keep the rechargeable battery from onion dead
- battery from going dead.

Battery Power Indicator and Recover Indicator The battery power indicator on the display shows you the current status of the rechargeable battery's power.



- The flashing LOW indicator at Level 3 tells you that battery power is very low, and that exposure to bright light for charging is required as soon as possible.
 At Level 5, all functions are disabled and settings return to their initial factory defaults. Once the battery reaches Level 2 after falling to Level 5, reconfigure the

- belauts. Orice the battery reaches Level 2 after failing to Level 5, reconfigure the current time, date, and other settings.
 The watch's Home City code setting will change automatically to TYO (Tokyo) whenever the battery drops to Level 5.
 Display indicators reappear as soon as the battery is charged from Level 5 to Level 2.
 Leaving the watch exposed to direct sunlight or some other very strong light source can cause the battery level. The correct battery level should be indicated after a few minutes.



minutes

 Performing illumination, or beeper operations during a Performing infimitation, or beeper operations during a short period may cause the recover indicator to appear on the display. After some time, battery power will recover and the recover indicator will disappear, indicating that the above functions are enabled again.

- If the recover indicator appears frequently, it probably means that remaining battery power is low. Leave the watch in bright light to allow it to charge.

Recover indicato **Charging Precautions**

Charging preclautions Certain charging conditions can cause the watch to become very hot. Avoid leaving the watch in the areas described below whenever charging its rechargeable battery. Also note that allowing the watch to become very hot can cause its liquid crystal display to black out. The appearance of the LCD should become normal again when the watch returns to a lower temperature.

Warning!

Warning:
Leaving the watch in bright light to charge its rechargeable battery can cause it to become quite hot. Take care when handling the watch to avoid burn injury.
The watch can become particularly hot when exposed to the following conditions for long periods.
On the dashboard of a car parked in direct sunlight
Too close to an incandescent lamp
Under direct sunlight

· Under direct sunlight

Charging Guide The following tab

The following table shows the amount of time the watch needs to be exposed to light each day in order to generate enough power for normal daily operations.

Exposure Level (Brightness)	Approximate Exposure Time
Outdoor Sunlight (50,000 lux)	5 minutes
Sunlight Through a Window (10,000 lux)	24 minutes
Daylight Through a Window on a Cloudy Day (5,000 lux)	48 minutes
Indoor Fluorescent Lighting (500 lux)	8 hours

For details about the battery operating time and daily operating conditions, see the "Power Supply" section of the Specifications.

Stable operation is promoted by frequent exposure to light

Recovery Times

The table below shows the amount exposure that is required to take the battery from one level to the next.

Exposure Level	Approximate Exposure Time							
(Brightness)	Level 5	Level 4	Level 3	Level 2	Level 1			
Outdoor Sunlight (50,000 lux)		2 hours		20 hours	6 hours			
Sunlight Through a Window (10,000 lux)		8 hours		99 hours	27 hours			
Daylight Through a Window on a Cloudy Day (5,000 lux)		15 hours						
Indoor Fluorescent Lighting (500 lux)		172 hours						

The above exposure time values are all for reference only. Actual required exposure times depend on lighting conditions

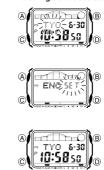
Tide Site Name

Selecting the Tide Site Name

- The tide site names you can select depend on your current Home City setting. Select tide site names in the Timekeeping Mode. After configuring the settings for your Home City, press (A) once to display the tide site name selection screen.

Note that the tide sites you can select are those located in the same time zone as your Home City. They are not necessarily located near your Home City.

To configure tide site settings



1. In the Timekeeping Mode, hold down (A) for about two seconds until the city code starts to flash. This is the Seconds until the colly code starts to inastit. This is the setting screen.
 The watch will exit the setting screen automatically if you do not perform any operation for about two or three minutes.

2. Press (A) once to display the tide site name selection

The current tide site name will be on the display and

- I he current tide site name will be on the display and SET will flash.
 Use () (forward) and () (back) to scroll through the tide site names until the one you want is displayed.
 If the tide site name is longer than four characters, the name will scroll from right to left on the display.
- name will scroll from right to left on the display. A tide site that does not have any data assigned to it displays the name "USER". When all of the settings are the way you want, press to exit the setting screen. The tide graph in the Timekeeping Mode shows information for the site you select here. The tide exit excert from which the UTC 4

- ര The tide site candidates are those with the UTC differential as the current Home City. If you cannot find the site you want, you can select "USER".
 Only "USER" sites may be available for some cities.
- Setting an accurate high tide time will allow the watch to produce accurate tide Setting an accurate high idea when "USER" is selected as the site, make sure that you input an accurate high tide time.
 Only a "USER" site can be selected while UTC is selected as the Home City.

Reference

This section contains more detailed and technical information about watch operation. It also contains important precautions and notes about the various features and functions of this watch.

Moon Phase Indicator



The Moon phase indicator of this watch indicates the current phase of the Moon as shown below. It is based on the view of the left side of the moon at meridian transit from the northern hemisphere of the Earth. If the appearance of the Moon phase indicator is reversed from the actual thereas under the transit description of the sector. the actual Moon as viewed from your location, you can use the procedure under "To reverse the displayed Moon phase" to change the indicator.

(part you cannot see)	Moon phase (part you can see)	

Moon Phase Indicator								\bigcirc
Moon Age	28.7-29.8 0.0-0.9	1.0-2.7	2.8-4.6	4.7-6.4	6.5-8.3	8.4-10.1	10.2-12.0	12.1-13.8
Moon Phase	New Moon				First Quarter (Waxing)			

Moon phase (part you can see) - (part you cannot see)

Moon Phase Indicator	\bigcirc	\bigcirc		٢				
Moon Age	13.9-15.7	15.8-17.5	17.6-19.4	19.5-21.2	21.3-23.1	23.2-24.9	25.0-26.8	26.9-28.6
Moon Phase	Full Moon				Last Quarter (Waning)			

Tidal Movements

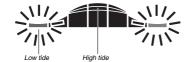
Tides are the periodic rise and fall of the water of oceans, seas, bays, and other Notes are the periodic has and half of the water of occaris, seas, bays, and other bodies of water caused mainly by the gravitational interactions between the Earth, Moon and Sun. Tides rise and fall about every six hours. The Tide Graph of this watch indicates tidal movement based on the Moon's transit over a meridian and the lunitidal interval. The Tide Graph calculates and graphically represents current tide conditions in your currently selected site or USER site based on longitudes, lunar day length, and lunitidal interval preset in watch memory, and on high tide times specified by you.

Tide Graph

The Tide Graph graphically represents the current tide condition using one of three patterns that represent spring tide, intermediate tide, and neap tide, as shown below

Tide Name	Graph	Description
Spring Tide		Large difference between high tide and low tide. Occurs a few days before and after a New Moon and Full Moon.
Intermediate Tide		Medium difference between high tide and low tide.
Neap Tide		Small difference between high tide and low tide. Occurs a few days before and after the first quarter and last quarter of a half moon.

The Tide Graph flashes as shown below to indicate the tide range



. The segments on either end of the Tide Graph flash during high tide.

l unitidal Interval

Lunitidal Interval Theoretically, high tide is at the moon's transit over the meridian and low tide is about six hours later. Actual high tide occurs somewhat later, due to factors such as viscosity, friction, and underwater topography. Both the time differential between the moon's transit over the meridian until high tide and the time differential between the moon's transit over the meridian until low tide are known as the "unitidal interval". Tides data is calculated using the lunitidal intervals preset for each site.

Button Operation Tone



The button operation tone sounds any time you press one of the watch's buttons. You can turn the button operation tone on or off as desired. Even if you turn off the button operation tone, alarms, the Hourly Time Signal, and other beepers all operate normality normally

To turn the button operation tone on and off



- tion tone on and off
 In the Timekeeping Mode, hold down (a) until the city code starts to flash, which indicates the setting screen.
 Press (b) nine times until the current button operation tone setting (KEY4 or N/ITE) appears.
 Press (c) to toggle the setting between KEY4 (tone on) and MIITE (tone off).
 Press (c) to exit the setting screen.
 The mute indicator is displayed in all modes when the button operation tone is turned off.

Power Saving Function



When turned on, the Power Saving function enters a sleep state automatically whenever the watch is left in an area for a certain period where it is dark. The table below shows how watch functions are affected by the Power Saving function.

Elapsed Time in Dark Display Operation Blank, with Power Saving All functions enabled, except for the display Beeper tone, illumination, and display 60 to 70 minutes Blank, with Power Saving Blank, with Power Saving 6 or 7 days indicator not flashing are disabled.

Wearing the watch inside the sleeve of clothing can cause it to enter the sleep state.
 The watch will not enter the sleep state between 6:00 AM and 9:59 PM. If the watch
 is already in the sleep state when 6:00 AM arrives, however, it will remain in the

sleep state

- To recover from the sleep state Perform any one of the following operations. Move the watch to a well-lit area.

Press any button. Angle the watch towards your face for reading.

To turn Power Saving on and off



On/Off status

 In the Timekeeping Mode, hold down (A) until the city code starts to flash, which indicates the setting screen.
 Press (C) 11 times until the Power Saving on/off screen approximation of the start of the setting screen start of th appears. 3. Press D to toggle Power Saving on (I I) and off

(0FF)

(UFF).
4. Press (A) to exit the setting screen.
The Power Saving indicator is on the display in all modes while Power Saving is turned on.

Auto Return

Scrolling

If you do not perform any operation for about two or three minutes while a setting screen (with a flashing setting) is on the display, the watch will exit the setting screen automatically.

The (B) and (D) are used in various modes and setting screens to scroll through data on the display. In most cases, holding down these buttons during a scroll operation scrolls at high speed.

Initial Screens

When you enter the World Time Mode or Alarm Mode, the data you were viewing when you last exited the mode appears first.

Timekeeping

- Timekeeping
 Resetting the seconds to 00 while the current count is in the range of 30 to 59 causes the minutes to be increased by 1. In the range of 00 to 29, the seconds are reset to 00 without changing the minutes.
 The year can be set in the range of 2000 to 2099.
 The watch's built-in full automatic calendar makes allowances for different month lengths and leap years. Once you set the date, there should be no reason to change it except after you have the watch's battery replaced.
 The current time for all city codes in the Timekeeping Mode and World Time Mode is calculated in accordance with the Coordinated Universal Time (UTC) for each city, based on your Home City time setting.

- based on your Home City time setting.

World Time

The seconds count of the World Time is synchronized with the seconds count of the Timekeeping Mode.

Illumination Precautions

- . The electro-luminescent panel that provides illumination loses power after very long use
- Illumination may be difficult to see when viewed under direct sunlight. The watch may emit an audible sound whenever the display is illuminated. This is due to vibration of the EL panel used for illumination, and does not indicate malfunction.
- Illumination turns off automatically whenever an alarm sounds.
 Frequent use of illumination runs down the battery.

Auto light switch precautions • Avoid wearing the watch on the inside of your wrist. Doing so causes the auto light switch to operate when it is not needed, which shortens battery life. If you want to wear the watch on the inside of your wrist, turn off the auto light switch feature.



• Illumination may not turn on if the face of the watch is

- Intuinitation that has been on the watch is more than 15 degrees above or below parallel. Make sure that the back of your hand is parallel to the ground.
 Illumination turns off after a preset amount of time (1.5 or 3 seconds), even if you keep the watch pointed towards your face.
- Static electricity or magnetic force can interfere with proper operation of the auto Ight switch. If illumination does not turn on, try moving the watch back to the starting position (parallel with the ground) and then tilt it back toward you again. If this does not work, drop your arm all the way down so it hangs at your side, and then bring it back up oreginations.
- back up again. Under certain conditions, illumination may not turn on until about one second after you turn the face of the watch towards you. This does not necessarily indicate malfunction of the auto light switch.
- You may notice a very faint clicking sound coming from the watch when it is shaken back and forth. This sound is caused by mechanical operation of the auto light switch, and does not indicate a problem with the watch.

Specifications

Accuracy at normal temperature: ± 15 seconds a month Timekeeping: Hour, minutes, seconds, p.m. (P), month, day, day of the week Time format: 12-hour and 24-hour

I me format: 12-hour and 24-hour Calendar system: Full Auto-calendar pre-programmed from the year 2000 to 2099 Other: Home City code (can be assigned one of 48 city codes); Standard Time / Daylight Saving Time (summer time); Checking a Tide Site **Tide/Moon Data:** Moon phase indicator for specific date; Tide level for specific date and time Other: High tide time adjustment; Moon phase reversal **World Time:** 48 cities (31 time zones) Other: Dight Saving Time/Emoderd Time.

Other: Daylight Saving Time/Standard Time Alarms: 5 daily alarms (four one-time alarms; one snooze alarm); Hourly Time Signal Stopwatch: Measuring unit: 1/100 second Measuring capacity: 59' 59.99" Measuring modes: Elapsed time, split time, two finishes

- Countdown Timer:
- Soundown Timer: Number of timers: 2 (one set) Setting unit: 5 seconds Range: 99 minutes 55 seconds each timer Countdown unit: 1 second Number of repeats: 1 to 10

S-second time up beeper Illumination: EL (electro-luminescent panel); Full Auto Light Switch; Selectable illumination duration Other: Button operation tone on/off

 Power Supply: Solar cell and one rechargeable battery Approximate battery operating time: 11 months (from full charge to Level 4) under the following conditions:

 • Watch not exposed to light

 • Internal timekeeping

 • Display on 18 hours per day, sleep state 6 hours per day

 • 1 illumination operation(1.5 second) per day

 • 10 seconds of alarm operation per day

CASIO.

City Code Table

City Code	City	UTC Offset/ GMT Differential
PPG	Pago Pago	-11
HNL	Honolulu	-10
ANC	Anchorage	-9
YVR	Vancouver	-8
LAX	Los Angeles	-0
YEA	Edmonton	-7
DEN	Denver	-/
MEX	Mexico City	-6
CHI	Chicago	-0
NYC	New York	-5
SCL	Santiago	-4
YHZ	Halifax	-4
YYT	St. Johns	-3.5
RIO	Rio De Janeiro	-3
FEN	Fernando de Noronha	-2
RAI	Praia	-1
UTC		
LIS	Lisbon	0
LON	London	
MAD	Madrid	
PAR	Paris	
ROM	Rome	+1
BER	Berlin	
STO	Stockholm	
ATH	Athens	
CAI	Cairo	+2
JRS	Jerusalem	

City Code	City	UTC Offset/ GMT Differential
MOW	Moscow	+3
JED	Jeddah	+3
THR	Tehran	+3.5
DXB	Dubai	+4
KBL	Kabul	+4.5
KHI	Karachi	+5
DEL	Delhi	+5.5
KTM	Kathmandu	+5.75
DAC	Dhaka	+6
RGN	Yangon	+6.5
BKK	Bangkok	+7
SIN	Singapore	
HKG	Hong Kong	+8
BJS	Beijing	+0
TPE	Taipei	
SEL	Seoul	+9
TYO	Tokyo	+9
ADL	Adelaide	+9.5
GUM	Guam	+10
SYD	Sydney	+10
NOU	Noumea	+11
WLG	Wellington	+12

Based on data as of December 2009.
The rules governing global times (UTC offset and GMT differential) and summer time are determined by each individual country.

Tide Site Name List

City Code	Tide	Site	City Code	Tide	Site
LIS	NEWQUAY,GBR	U.K.	ADL	VICTOR	AUSTRALIA
LON	ABERDEEN,GBR	U.K.		HARBOR	
	KILLALA BAY, IRL	IRELAND		USER	
	PENICHE,POR	PORTUGAL	GUM	NOOSA HEADS	AUSTRALIA
	CASCAIS, POR	PORTUGAL	SYD	BUNDALL	AUSTRALIA
	FUNCHAL,	MADEILA		POINT DANGER	AUSTRALIA
	MADEIRA			TWEED RIVER	AUSTRALIA
	LAS PALMAS	GRAN CANARIA		BYRON BAY	AUSTRALIA
	CASABLANCA,	MOROCCO		BALLINA	AUSTRALIA
	MAR			SYDNEY	AUSTRALIA
	SAFI,MAR	MOROCCO		ULLADULLA	AUSTRALIA
	DAKAR,SEN	SENEGAL		LORNE	AUSTRALIA
	USER			HOBART	AUSTRALIA
MAD	BOUCAU,FRA	FRANCE		GUAM	GUAM
PAR	PORTUGALETE,	SPAIN		USER	COMM
ROM	ESP		NOU	NOUMEA	NEW CALEDO
BER	GIJON,ESP	SPAIN	1100	USER	NEW CALLOO
STO	MARSEILLE, FRA	FRANCE	14/1 0		FIJI ISLANDS
510	PALERMO, ITA	ITALY	WLG	SUVA,FIJ	
	USER			RAGLAN,NZL	NEW ZEALAN
ATH	CAPE TOWN, RSA	SOUTH AFRICA		USER	
CAI	DURBAN,RSA	SOUTH AFRICA	PPG	PAGO PAGO	AMERICAN
JRS					SAMOA
102	MOSSEL BAY, RSA	SOUTH AFRICA		USER	
	USER		HNL	HONOLULU	U.S.A.
MOM	TOLANARO,MAD	MADAGASCAP		WAIALUA BAY,	U.S.A.
-		WADAGASCAR		OAHU	
JED	USER			KAHULUI,MAUI	U.S.A.
THR	USER			HILO BAY,	U.S.A.
DXB	LE PORT, REUNION	REUNION		HAWAII	
				NAWILIWILI,	U.S.A.
	PORT LOUIS, MRI	MAURITIUS		KAUAI PAPEETE.TAHITI	
	USER			,	IAHIII
KBL	USER			USER	
KHI		MALDIVES	ANC	USER	
кні	MALE, MALDIVES	MALDIVES	YVR	SAN FRANCISCO	U.S.A.
	USER		LAX	MONTEREY	U.S.A.
DEL		SRI LANKA		PORT SAN LUIS	U.S.A.
DEL	GALLE,SRI	SHILANKA		SANTA BARBARA	U.S.A.
1/714	USER			PORT HUENEME	U.S.A.
KTM	USER	-		SANTA MONICA	U.S.A.
DAC	USER			L.A.HARBOR	U.S.A.
RGN	USER			NEWPORT BAY	U.S.A.
BKK	PHUKET	THAILAND		LA JOLLA	U.S.A.
	TELUK DALAM, NIAS	INDONESIA		ENSENADA, MEX	MEXICO
				USER	
	PULAU TELO, INA	INDONESIA	YEA	USER	-
	SIBERUT, INA	INDONESIA	DEN	USER	
			MEX	MANZANILLO, MEX	MEXICO
	NORTH PAGAI, INA	INDONESIA	CHI		COSTA RICA
	TANJUNG	INDONESIA		USER	0001/1110/1
	PRIOK	INDONESIA	NYC	ATLANTIC CITY	U.S.A.
	USER			VIRGINIA BEACH	U.S.A.
SIN	BENOA,BALI	INDONESIA			
HKG	AMPENAN,	INDONESIA		PORT CANAVERAL	U.S.A.
BJS	LOMBOK	INDOMESIA		MIAMI HARBOR	
	COWARAMUP	AUSTRALIA		KINGSTON, JAM	JAMAICA
TPE	FREMANTLE	AUSTRALIA		BALBOA,PAN	PANAMA
				PUERTO	EQUADOR
	CATANDUANES, PHI	I TILIFFINES		LOPEZ,ECU	
	SIARGAO,PHI	PHILIPPINES		PUERTO	PERU
	USER	IILII I IINLO		CHICAMA	
SEL		JAPAN		USER	
-	ENOSHIMA		SCL	SANTO DOMINGO	
TYO	SHIMODA	JAPAN	YHZ	SAN JUAN,PUR	PUERTO RIC
	SHIKINEJIMA	JAPAN		BRIDGETOWN	BARBADOS
	OMAEZAKI	JAPAN		VALPARAISO,CHI	CHILE
	IRAGO	JAPAN		USER	
	WAKAYAMA	JAPAN	YYT	USER	
	KANNOURA	JAPAN	RIO	RIO DE	BRAZIL
	HOSOSHIMA	JAPAN		JANEIRO	
	NISHINOOMOTE			SANTOS	BRAZIL
	NAZE	JAPAN		USER	
	NAHA	JAPAN	FEN	F.D.NORONHA	BRAZIL
				USER	
		ΙΔΡΔΝ		JOOLIN	
	SENDAI	JAPAN		PONTA	AZORES
	SENDAI SOMA	JAPAN	RAI	PONTA DELGADA	AZORES
	SENDAI		RAI	PONTA DELGADA USER	AZORES

• For information about city names, see the City Code Table.

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