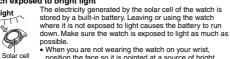
## CASIO

### 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 and keep it on hand for later reference when necessary

### Keep the watch exposed to bright light

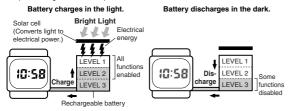




 When you are not wearing the watch on your wrist, position the face so it is pointed at a source of bright İight

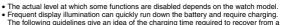
· You should try to keep the watch outside of your sleeve as much as possible. Charging is significantly reduced if the face is only partially covered.

The watch continues to operate, even when it is not exposed to light. Leaving the
watch in the dark can cause the battery to run down, which will cause 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.



#### General Guide

Press © to change from mode to mode.
In any mode, press ① to illuminate the display.



- 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 50 minutes 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.



· Depending on the model of your watch, display text appears either as dark figures on a light background, or light figures on a dark background. All sample displays in this manual are shown using dark figures on a light

- background. 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.

World Time Mode

8:58sa

PSIDE NYC

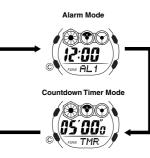
Stopwatch Mode

 $(\mathbf{R})$ 

0**0** 00°00

ØН

(Light)



STW

## Timekeeping

Timekeeping Mode

10:**58**50)

6-30

B

ſ

- Use the Timekeeping Mode to set and view the current time and date. When setting the time, you can also configure settings for the illumination duration, the 12/24-hour format, and power saving on/off. In the Timekeeping Mode, you can press (B) to change the display format as shown
- below
  - Hour : Minutes Seconds

<u>ه</u> B 10:**58**50 ©V Ø0 PSAVE 6-30 Month - Day PM indicator



#### Setting the Time and Date

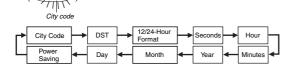
Setung the time and Date Make sure you select your Home City code before you change the current time and date settings. World Time Mode times are all displayed in accordance with the Timekeeping Mode settings. Because of this, World Time Mode times will not be correct if you do not select the proper Home City code before setting the time and date in the Timekeeping Mode.

To set the time and date

10:**58**50

/<sub>D</sub> TYÓ

1. In the Timekeeping Mode, hold down (a) until the city code starts to flash, which indicates the setting screen.
 2. Pres (b) to change the flashing contents in the sequence shown below to select other settings.



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

Screen:	To do this:	Do this:	
TYO	Change the city code	Use () (east) and () (west).	
00 DST	Toggle between Daylight Saving Time (CR) and Standard Time (CF)	Press D.	
Toggle between 12-hour (1 ΞH) and 24-hour (Ξ4H) timekeeping		Press D.	
60	Reset the seconds to	Press D.	
\$0 *	Toggle the illumination duration setting between 1.5 seconds (♦) and 2.5 seconds (♦)	Press B.	
Change the hour, minutes, or year		Use () (+) and () (-).	
6·30	Change the month or day		
on PS	Toggle Power Saving on (OR) and off (OF)	Press ()).	

See "City Code Table" for a complete list of available city codes.
 For information about settings other than the time and date, see the following.
 Illumination duration: Illumination

Power Saving: Power Saving Function 4. Press (A) to exit the setting screen.

## 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 ④ until the city code starts to flash, which indicates the setting screen.
2. Press ⑤ once to display the DST setting screen.
3. Use ③ to toggle Daylight Saving Time (GR) and Standard Time (GF).
4. Press ⑥ to exit the setting screen.

- 4. Press (A) to exit the setting screen.
  The DST indicator appears to indicate that Daylight Saving Time is turned on.

Press (C

# CASIO

#### World Time

Current time in selected city 

The World Time Mode shows you the current time in 30 cities (29 time zones) around the world. If the current time shown for a city is wrong, check your Home City time settings and make the necessary All of the operations in this section are performed in the World Time Mode, which you enter by pressing ©.



<u>>→8</u>sa

PSAVE NYC

Citv code

To view the time in another city While in the World Time Mode, press 0 to scroll through the city codes (time zones) to the east or 0 to scroll to the west. • For full information on city codes, see the "City Code Table".

- To toggle a city code time between Standard Time and Daylight Saving Time

   DST indicator

   (a)
   (b)
   (b)
   (c)
   (c
  - not displayed). Note that you cannot switch between Standard Time and Daylight Saving Time while GMT is selected as the ØD

    - The DST indicator will appear whenever you display a city code for which Daylight Saving Time is turned on.
       Note that the DST/Standard Time setting affects only the currently displayed city code. Other city codes are not effected. affected

Alarms

C



To set an alarm time

1Ž:00

P.SAVE AL1

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 ( $\Xi \perp \Xi$ ) on and off. • There are five alarms numbered FiL1 through FiL4, • There are five alarms numbered FiL1 are a person along and SNZ. You can configure SNZ as a snooze alarm

only. Alarms AL1 through AL4 can be used as one-All of the operations in this section are performed in the Alarm Mode, which you enter by pressing ©.

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



- After you select an alarm, hold down (a) until the hour setting of the alarm time starts to flash, which indicate the setting screen.
   This operation automatically turns on the alarm.
   Use (a) to move the flashing between the hour and the setting screen the start of the set of the
- minute settings.

- 4. While a setting is flashing, use 0 (+) and 0 (-) to change it. 5. Press 0 to exit the setting screen. When setting the alarm time using the 12-hour format, take care to set the time correctly as a.m. (no indicator) or p.m. (**P** indicator).

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, or until you turn the alarm off. • Pressing any button stops the alarm tone operation. • Performing any one of the following operations during a 5-minute interval between snooze alarm cenzoels the current encore alarm operation.

- snooze alarms cancels the current snooze alarm operation
- Displaying the Timekeeping Mode setting screen Displaying the snooze alarm setting screen

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

#### To turn an alarm on and off

Snooze alarm indicator 2



Mode screen. Turning on the snooze alarm (SNZ) displays the alarm on indicator and snooze alarm

- In all modes, the alarm on indicator and shoze alarm indicator on its Alarm Mode screen.
   In all modes, the alarm on indicator is shown for any alarm that is currently turned on. When the snooze alarm is on, the snooze alarm indicator is displayed in all
- modes. The alarm on indicator flashes while the alarm is
- sounding.The snooze alarm indicator flashes during the 5-minute
- intervals between alarms

### To turn the Hourly Time Signal on and off

Hourly time signal on indicato

- :**0**. ØD 6 or SIG
- Signal on and off
  In the Alarm Mode, use (1) to select the Hourly Time Signal (5:1:5).
  Press (2) to toggle it on (Hourly Time Signal on indicator displayed) and off (Hourly Time Signal on indicator not displayed).
  The Hourly Time Signal on indicator is displayed in all modes when the Hourly Time Signal is turned on.

**Countdown Timer** 



You can set the countdown timer within a range of one to 60 minutes. An alarm sounds when the countdowr

All of the operations in this section are performed in the Countdown Timer Mode, which you enter by pressing (C).

## Minutes 1/10 second To set the countdown start time 1. 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 setting screen. If the countdown start time is not displayed, use the procedure under "To use the
- a the coundown start time is not aspaged, use the proceed coundown time? to display it.
  While a setting is flashing, use (1) (+) and (1) (-) to change it.
  Press (A) to exit the setting screen.

- To use the countdown timer Press (b) while in the Countdown Timer Mode to start the countdown timer.
- When the end of the countdown rimer whole to start the countdown rimer.
  When the end of the countdown is reached, the alarm sounds for 10 seconds or until you stop it by pressing any button. The countdown time is automatically reset to its starting value after the alarm stops.
  Press (i) while a countdown operation is in progress to pause it. Press (i) again to the store of the s
- resume the countdown.
- To completely stop a countdown operation, first pause it (by pressing <sup>(D)</sup>), and then press <sup>(B)</sup>. This returns the countdown time to its starting value.

#### Stopwatch



- The stopwatch lets you measure elapsed time, split times, and two finishes. The display range of the stopwatch is 23 hours, 59 minutes, 59.99 seconds.
- - The stopwatch continues to run, restarting from zero
  - The stopwatch continues to run, restarting from zero after it reaches its limit, until you stop it.
    Exiting the Stopwatch Mode while a split time is frozen on the display clears the split time and returns to elapsed time measurement.
    The stopwatch measurement operation continues even if you exit the Stopwatch Mode.
    All of the operations in this section are performed in the Stopwatch Mode, which you enter by pressing ©.
- 1/100 nd

## To measure times with the stopwatch

### Elapsed Time

©	>D	<b>→</b> 0	→D	→®
Start	Stop	Re-start	Stop	Clear
Split Time				
©	<b>→</b> ®	<b>→</b> ®	→D	→®
Start	Split (SPL displayed)	Split release	Stop	Clear
Two Finishes				
0	▶B	>0	→®	→®
Start	Split First runner finishes. Display time of first runner.	Stop Second runner finishes.	Split release Display time of second runner.	Clear

#### Illumination



Auto light indicator

The 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 automatically illuminates the display when you angle the watch towards

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

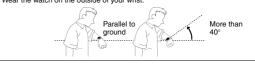
- To turn on illumination manually In any mode, press ① to illuminate the display. You can specify 1.5 seconds or 2.5 seconds as the illumination duration. See "To set the time and date" for
- The above operation turns on illumination regardless of the current auto light switch setting.

## About the Auto Light Switch

vitch

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 illuminate the display under bright light.

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



# CASIO

#### Warning!

- varning: Always make sure you are in a safe place whenever you are reading 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 startle or distract others around you.
- When you are wearing the watch, make sure that its auto light switch is turned off before riding on 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 any mode, hold down () for about two seconds to toggle the auto light switch on (auto light switch indicator displayed) and off (auto light switch indicator not displayed). • The auto light switch indicator remains in all modes while the auto light switch is turated to a standard stan turned or

## Power Supply

This watch is equipped with a solar cell and a special rechargeable battery (secondary 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.

Solar cell

- Example: Orient the watch so its face is pointing at a light source.
  The illustration shows how to position

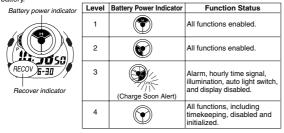
- The illustration shows how to positic a watch with a resin band.
   Note that charging efficiency drops when any part of the solar cell is blocked by clothing, etc.
   You should try to keep the watch outside of your sleeve as much as possible. Charging is significantly reduced if the face is only partially croured covered.



- 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. Make sure that the watch is normally exposed to bright light whenever possible.
- This watch uses a special rechargeable battery to store power produced by the solar This watch uses a special 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 special rechargeable battery to fully charge, contact your dealer or CASIO distributor about having it replaced.
  Never try to remove or replace the watch's special battery yourself. Use of the wrong type of battery can damage the watch.
  The current time and all other settings return to their initial factory defaults whenever battery power drops to Level 4 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 form going dead.

#### **Battery Power Indicator and Recover Indicator**

The battery power indicator shows you the current power level of the rechargeable battery.



- The flashing charge indicator (CHG) at Level 3 tells you that battery power is very
- The flashing charge indicator (CHG) 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 4, all functions are disabled and settings return to their initial factory defaults. Functions are enabled once again after the rechargeable battery is charged, but you need to set the time and date, after the battery reaches Level 3 (indicated by the flashing charge indicator) from Level 4. You will not be able to configure any of the other settings until the battery reaches Level 2 (no charge indicator) after dropping to Level 4.
   Leaving the watch in direct sunlight or some other very strong light source can cause the battery ower indicator to momentarily show a reading that is binder than the actual
- Learning the watch in others sumight or some other very strong light source can cause it battery power indicator to momentarily show a reading that is higher than the actual battery level. The correct battery power indicator should appear after a few minutes. If you use the light or alarms a number of times during a short period, the recover indicator (**RECOV**) appears and the following operations become disabled until battery power recovers. Illumination Beener tone

Beeper tone

After some time, battery power will recover and the recover indicator will disappear, indicating that the above functions are enabled again

Charging Precautions 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

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

#### Charging Guide

After a full charge, timekeeping remains enabled for up to about 11 months. • 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.

each day in order to generate enough power for normal daily operations.		
Exposure Level (Brightness)	Approximate Exposure Time	
Outdoor Sunlight (50,000 lux)	4 minutes	
Sunlight Through a Window (10,000 lux)	19 minutes	
Daylight Through a Window on a Cloudy Day (5,000 lux)	29 minutes	
Indoor Fluorescent Lighting (500 lux)	5 hours	

Since these are the specs, we can include all the technical details.
 Display on 18 hours per day, sleep state 6 hours per day
 1 illumination operation (1.5 seconds) per day

- 10 seconds of alarm operation per day Stable operation is promoted by frequent charging

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 4	Level 3	Level 2	Level 1
Outdoor Sunlight (50,000 lux)	2 hours		22 hours	6 hours
Sunlight Through a Window (10,000 lux)	5 hours		109 hours	30 hours
Daylight Through a Window on a Cloudy Day (5,000 lux)	9 hours		220 hours	61 hours
Indoor Fluorescent Lighting (500 lux)	101 hours			

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

#### 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

## **Power Saving Function**



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

Power saving indicator

Elapsed Time in Dark		
60 to 70 minutes	Blank, with Sleep indicator ( <b>P.SAVE</b> ) flashing	All functions enabled, except for the display
6 or 7 days	Blank, with Sleep indicator ( <b>P.SAVE</b> ) not flashing	Beeper tone, backlight, and display 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 10:59 PM. If the watch is already in the sleep state when 6:00 AM arrives, however, it will remain in the sleep state when 6:00 AM arrives. the sleep state



 In the Timekeeping Mode, hold down (A) until the city code starts to flash, which indicates the setting screen.
 Press (C) nine times until the Power Saving on/off screen appears.

Press (b to toggle Power Saving on (gn) and off (gr).
 Press (à to exit the setting screen.
 The Power Saving indicator (PSAVE) is on the display in all modes while Power Saving is turned on.

#### Auto Return Features

If you leave the watch in the Alarm Mode for two or three minutes without performing any operation, it automatically returns to the Timekeeping Mode.
 If you leave the watch with a flashing setting on the display for two or three minutes

- without performing any operation, the watch automatically exits the setting screen.

## Scrolling

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

#### Initial Screens

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

## *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

## CASIO

#### 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 day of the week is automatically displayed in accordance with the date (year, the second - month, and day) settings.
- month, and day) settings.
  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 or when battery power drops to Level 4.
  The current time for all city codes in the Timekeeping Mode and World Time Mode is calculated in accordance with the Greenwich Mean Time (GMT) differential for each city, based on your Home City time setting.
- GMT differential is calculated by this watch based on Universal Time Coordinated
- GMT differential is calculated by this watch based on control (UTC\*) data.
   UTC is the world-wide scientific standard of timekeeping. It is based upon carefully maintained atomic (cesium) clocks that keep time accurately to within microseconds. Leap seconds are added or subtracted as necessary to keep UTC in sync with the Earth's rotation. The reference point for UTC is Greenwich, England.

## 12-hour/24-hour Timekeeping Formats

- 12-nour/24-nour IImekeeping Formats
  The 12-hour/24-hour timekeeping format you select in the Timekeeping Mode is also applied in all other modes.
  With the 12-hour format, the PM indicator (P) appears on the display for times in the range of noon to 11:59 p.m. and no indicator appears 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 any indicator.

#### Illumination Precautions

- · The electro-luminescent panel that provides illumination loses power after very long use.
- Illumination may be hard 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 Illumination automatically turns off whenever an alarm sounds.
  Frequent use of illumination runs down the battery.

- Auto light switch precautions
- The auto light switch is turned off automatically whenever battery power is at Level
- Wearing the watch on the inside of your wrist, movement of your arm, or vibration of your arm can cause frequent activation of the auto light switch and illumination of the display. To avoid running down the battery, turn off the auto light switch whenever engaging in activities that might cause frequent illumination.
   Note that wearing the watch under your sleve while the auto light switch is turned
- on can cause frequent illumination of the display and can run down the battery.
- More than 15 degrees too high



Illumination of the uspay and can that down the battery.
Illumination may not turn on if the face of 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 the prese tillumination duration (see 'To set the time and date'), even if you keep the watch pointed towards your face.
Static electricity or magnetic force can interfere with proper operation of the auto light 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 towards you again. bring it 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.

## **City Code Table**

City Code	City	GMT Differential	Other major cities in same time zone
		-11.0	Pago Pago
HNL	Honolulu	-10.0	Papeete
ANC	Anchorage	-09.0	Nome
LAX	Los Angeles	-08.0	San Francisco, Las Vegas, Vancouver, Seattle/Tacoma, Dawson City
DEN	Denver	-07.0	El Paso, Edmonton
СНІ	Chicago	-06.0	Houston, Dallas/Fort Worth, New Orleans, Mexico City, Winnipeg
NYC	New York	-05.0	Montreal, Detroit, Miami, Boston, Panama City, Havana, Lima, Bogota
CCS	Caracas	-04.0	La Paz, Santiago, Port Of Spain
RIO	Rio De Janeiro	-03.0	Sao Paulo, Buenos Aires, Brasilia, Montevideo
		-02.0	
		-01.0	Praia
GMT		+00.0	Dublin, Lisbon, Casablanca, Dakar, Abidjan
LON	London	+00.0	
PAR	Paris	+01.0	Milan, Rome, Madrid, Amsterdam, Algiers, Hamburg,
BER	Berlin	+01.0	Frankfurt, Vienna, Stockholm
ATH	Athens		Helsinki, Istanbul, Beirut, Damascus,
CAI	Cairo	+02.0	Cape Town
JRS	Jerusalem		
JED	Jeddah	+03.0	Kuwait, Riyadh, Aden, Addis Ababa, Nairobi, Moscow
THR	Tehran	+03.5	Shiraz
DXB	Dubai	+04.0	Abu Dhabi, Muscat
KBL	Kabul	+04.5	
KHI	Karachi	+05.0	Male
DEL	Delhi	+05.5	Mumbai, Kolkata
DAC	Dhaka	+06.0	Colombo
RGN	Yangon	+06.5	
BKK	Bangkok	+07.0	Jakarta, Phnom Penh, Hanoi, Vientiane
HKG	Hong Kong	+08.0	Singapore, Kuala Lumpur, Beijing, Taipei, Manila, Perth, Ulaanbaatar
SEL	Seoul		Pyongyang
TYO	Tokyo	+09.0	
ADL	Adelaide	+09.5	Darwin
SYD	Sydney	+10.0	Melbourne, Guam, Rabaul
NOU	Noumea	+11.0	Port Vila
WLG	Wellington	+12.0	Christchurch, Nadi, Nauru Island

· Based on data as of June 2004.