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!

- Warning!

 The measurement functions built into this watch are not intended for use in taking measurements that require professional or industrial precision. Values produced by this watch should be considered as reasonably accurate representations only. The longitude, lunitidal interval, 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.

 CASIO COMPUTER CO., LTD. assumes no responsibility for any loss, or any claims by third parties that may arise through the use of this watch.

About This Manual



- Button operations are indicated using the letters shown
- 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

44WT

General Guide

- Press © to change from mode to mode.
 In any mode (except when a setting screen is on the display), press ® to illuminate

6:00 8:5850 Timekeeping Mode Press © Countdown Timer Mode Alarm Mode Stopwatch Mode ALM TME 10:58₅₀

Timekeeping

Moon phase indicato Tide graph MON 6-30 10:5850

Use the Timekeeping Mode to set and view the current

- The tide graph shows tidal movements for the current date in accordance with the current time as kept in the
- Timekeeping Mode.

 The Moon phase indicator shows the current Moon phase in accordance with the current date as kept in the Timekeeping Mode.

Important!

Be sure to configure the current time and date, and your Home Site data (data for the site where you use the watch) correctly before using the functions of this watch. See "Home Site Data" for more information.

Hour: Minutes Seconds Setting the Time and Date

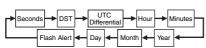
This watch is preset with UTC differential values that represent each time zone around the globe. Before setting the time, be sure to set the UTC differential for your Home Site first, which is the location where you normally will be using the watch.

Note that World Time Mode times are all displayed based on the time and date

settings you configure in the Timekeeping Mode



- 1. In the Timekeeping Mode, hold down (A) until the seconds start to flash, which indicates the setting
- Be sure to configure the correct UTC differential for
- your Home Site before configuring any other Timekeeping Mode settings. See the "UTC Differential/City Code List" for information about the UTC differential settings that are supported.
- 2. Press © to move the flashing in the sequence shown below to select other



3. When the setting you want to change is flashing, use (1) and (8) to change it as

Screen	To do this:	Do this:	
50	Reset the seconds to 00	Press D.	
UFF	Toggle between Daylight Saving Time (GR) and Standard Time (GFF)	Press D.	
+ 90	Specify the UTC differential	Use () (+) and (8) (-).	
10:58	Change the hour or minutes	Use () (+) and (B) (-).	
2008 6:30	Change the year, month or day	Use (D) (+) and (B) (-).	

- See "Daylight Saving Time (DST) Setting" below for details about the DST setting.
 The UTC differential setting range is –12.0 to +14.0, in 0.5-hour units.
 When DST is turned on, the UTC differential setting range is –11.0 to +15.0, in

- For information about Flash Alert, see "Flash Alert".

 Press (a) twice to exit the setting screen.

 The day of the week is displayed automatically in accordance with the date (year, month, and day) settings.

Tide/Moon Data Mode

- To toggle between 12-hour and 24-hour timekeeping
 In the Timekeeping Mode, press ① to toggle between 12-hour timekeeping 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
- 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) Setting
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

To toggle the Timekeeping Mode time between DST and Standard Time



- g Mode time between DST and Standard Imme
 1.In the Timekeeping Mode, hold down (a) until the
 seconds start to flash, which indicates the setting
 screen.
 2. Press (c) once and the DST setting screen appears.
 3. Press (c) to toggle between Daylight Saving Time (gr
 displayed) and Standard Time (gr F displayed).
 4. Press (c) twice to exit the setting screen.

- displayed) and standard lime (gr.F. displayed).

 4. Press (A) twice to exit the setting screen.

 The DST indicator appears on the Timekeeping, and Tide/Moon Data screens to indicate that Daylight Saving Time is turned on. In the case of the Tide/Moon Data Mode, the DST indicator appears on the Tide Data screen only.

Home Site Data

Moon phase, tide graph data, and Tide/Moon Data Mode data will not be displayed properly unless Home Site data (UTC differential, longitude and lunitidal interval) is configured correctly.

- conigured correctly.

 The UTC differential indicates the time differential with Greenwich, England.

 The letters UTC is the abbreviation for Coordinated Universal Time, which 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
- The lunitidal interval is the time elapsing between the Moon's transit over a meridian and the next high tide at that meridian. See "Lunitidal Interval" for more information. This watch displays lunitidal intervals in terms of hours and minutes.

 The "Site/Lunitidal Interval Data List" provides UTC differential and longitude
- information around the world.
- The following is the initial factory default Home Site data (Tokyo, Japan) when you first purchase the watch and whenever you have the battery replaced. Change these settings to match the area where you normally use the watch.

 UTC differential (+9.0); Longitude (East 140 degrees); Lunitidal interval (5 hours, 20 contents).

To configure Home Site data

Longitude (East/West) 1400 E

- In the Timekeeping Mode, hold down (A) until the seconds start to flash, which indicates the setting
- 2. Press © twice to display the UTC differential setting screen, and confirm that the setting is correct.

 If the UTC differential setting is not correct, use ① (+)
- and (B) (-) to change it.

 3. Press (A) to display the longitude value setting screen.

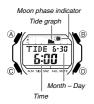
 4. Press (C) to move the flashing in the sequence shown below to select other settings.
- Lunitidal Interval

5. While the setting you want to change is flashing, use 0 and B to change it as

described below.				
Setting	Screen	Button Operations		
Longitude Value	LONG IU NO c	Use (iii) (+) and (iii) (-) to change the setting. • You can specify a value from 0° to 180°, in 1-degree units.		
Longitude (East/West)	id Do E	Use ① to switch between east longitude (£) and west longitude (₺).		
Lunitidal Interval Hours, Minutes	INT	Use ① (+) and ⑧ (-) to change the setting.		
	5:20			

6. Press (A) to exit the setting screen.

Tide/Moon Data



Tide/Moon data lets you view the Moon age and the Moon phase for a particular date, and tidal movements for a

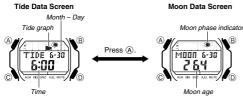
phase for a particular date, and tidal movements for a particular date and time for your Home Site.

When you enter the Tide/Moon Data Mode, the data for 6:00 a.m. on the current date appears first.

If you suspect that the Tide/Moon data is not correct for some reason, check the Timekeeping Mode data (current time, date, and Home Site settings), and make changes as required.
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, which you enter by pressing ©.

Tide/Moon Data ScreensIn the Tide/Moon Data Mode, press (a) to toggle between the Tide Data screen and the Moon Data screen.



- While the Tide Data screen is displayed, press ① to advance to the next hour.
 While the Moon Data screen is displayed, press ① to advance to the next day.
 You also can specify a particular date (year, month, day) to view its tide data and Moon data. See "To specify a date" for more information.
 When you enter the Tide/Moon Data Mode, the screen (tide data or Moon data) that
- was displayed the last time you exited the mode appears first



- 1. In the Tide/Moon Data Mode, hold down (A) until the year setting starts to flash, which indicates the setting screen.

 2. Press © to move the flashing in the sequence shown
- below to select the other settings.



- 3. While a setting is flashing, use
 (a) (-) or
 (b) (-) to change it.

 You can specify a date in the range of January 1, 2000 to December 31, 2099.
- 4. Press (a) to exit the setting screen.5. Use (a) to display either the Tide Data screen or the Moon Data screen.

World Time



World Time shows the current time in 48 cities (29 time zones) around the world.

• The times kept in the World Time Mode are

- 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 the UTC differential of your Home Site Data (Home City) and the current setting of the Timekeeping Mode time.

 Select a city code in the World Time Mode to display the current time in any particular time zone around the globe. See the "UTC Differential/City Code List" 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 ① to scroll eastwardly through the city codes



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

 1. In the World Time Mode, use ① to display the city code (time zone) whose Standard Time/Daylight Saving Time
 - setting you want to change.

 2. Hold down (A) to toggle between Daylight Saving Time (DST indicator displayed) and Standard Time (DST indicator not displayed).

 The DST indicator is shown on the World Time Mode

 - The DST indicator is shown of the world fille woods screen while Daylight Saving Time is turned on.
 Note that changing the Daylight Saving Time for any city code causes the setting to be applied to all city codes.

Stopwatch



The stopwatch lets you measure elapsed time, split times, and two finishes. It also includes Auto-Start.

- and two finishes. It also includes Auto-Start.

 The display range of the stopwatch is 23 hours, 59 minutes, 59.99 seconds.

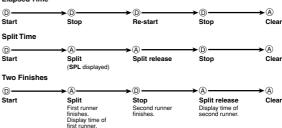
 The stopwatch continues to run, restarting from zero after it reaches its limit, until you stop it.

 The stopwatch measurement operation continues even if you exit the Stopwatch Mode.

 Exiting the Stopwatch Mode while a split time is frozen on the display clears the solit time and returns to on the display clears the split time and returns to elapsed time measurement.
- All of the operations in this section are performed in the Stopwatch Mode, which you enter by pressing ©.

To measure times with the stopwatch

Elapsed Time



About Auto-Start

With Auto-Start, the watch performs a 5-second countdown, and stopwatch operation starts automatically when the countdown reaches zero.

During the final three seconds of the countdown, a beeper sounds with each second.

To use Auto-Start



- 1. While the stopwatch screen is showing all zeros in the
- White the Subwatter Scheduler is showing an Eeros in Stopwatch Mode, press (A).

 This displays a 5-second countdown screen.

 To return to the all zeros screen, press (A) again.

 Press (D) to start the countdown.
- When the countdown reaches zero, a tone sounds and a
- stopwatch timing operation starts automatically.
 Pressing ① while the Auto-Start countdown is in progress will start the stopwatch immediately.

Countdown Timer



You can set the countdown timer within a range of one minute to 24 hours. An alarm sounds when the countdown reaches zero. The countdown timer also has an auto-repeat feature and a progress beeper that signals

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

Configuring the Countdown Timer

The following are the settings you should configure before actually using the countdown timer.

Countdown start time; Auto-repeat on/off; Progress beeper on/off

See "To configure the countdown timer" for information

about setting up the timer.

When auto-repeat is turned on, the countdown restarts automatically from the

when auto-repeat is turned on, the countdown restarts automatically from the countdown start time when it reaches zero. If left running, the countdown is repeated a total of eight times, after which it stops automatically. When auto-repeat is turned off, the countdown stops when it reaches zero and the display shows the original countdown start time.

• Pressing ① while an auto-repeat countdown is in progress pauses the current countdown. You can resume the auto-repeat countdown by pressing ①, or you can press. ② to reset to the countdown time starting value. press (A) to reset to the countdown time starting value.

Countdown Timer Beeper Operations

The watch beeps at various times during a countdown so you can keep informed about the countdown status without looking at the display. The following describes the types of beeper operations the watch performs during a countdown.

The countdown end beeper lets you know when the countdown reaches zero.

- . When the progress beeper is turned off, the countdown end beeper sounds for
- Men the progress deeper is turned on, the countdown end beeper sounds or about 10 seconds, or until you press any button to stop it.

 When the progress beeper is turned on, the countdown end beeper sounds for about one second.

Progress Beeper

When the progress beeper is turned on, the watch uses beeps to signal countdown progress as described below.

Starting from five minutes before the end of the countdown, the watch emits four short beeps at the top of each countdown minute.

30 seconds before the end of the countdown, the watch emits four short beeps.

The watch emits a short beep for each of the last 10 seconds of the countdown.

- If the countdown start time is six minutes or greater, the watch emits a short beep for each second of the final 10 seconds before the five-minute point is reached. Four short beeps are emitted to signal when the five-minute point is reached.

CASIO

To configure the count



- 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
- 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 (B) and (D) to change it as

Setting	Screen	Button Operation			
Hours, Minutes	0:00	Use (a) (+) and (b) (-) to change the setting.			
Auto-repeat		Press ① to toggle auto-repeat on ([
Progress Beeper		Press ① to toggle the progress beeper on (☐M) and off (☐FF).			

- To specify a countdown start time of 24 hours, set **C-00**.

 Press (a) to exit the setting screen.

 You also can perform steps 1 and 2 of the above procedure whenever you need to view the current auto-repeat and progress beeper settings.

To use the countdown times



- Press ① while in the Countdown Timer Mode to start the countdown timer.

 The countdown timer operation continues even if you exit the Countdown Timer Mode.

- Press () while a countdown peration is in progress to pause it. Press () again to resume the countdown. To stop a countdown operation completely, first pause it (by pressing (ii)), and then press (ii). This returns the countdown time to its starting value.

Alarms



You can set up to three independent multi-function alarms with hour, minutes, month, and day. When an alarm is turned on, the alarm tone sounds when the alarm time is tended on, the alarm size a snooze alarm, while the other two are one-time alarms.

You also can turn on an Hourly Time Signal that causes the people of the causes the people of the cause of the cause

the watch to beep twice every hour on the hour.

• There are three alarm screens numbered Fil. 1 and

- ALE for the one-time alarm, a snooze 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 ©.

Alarm Types

The alarm type is determined by the settings you make, as described below.

Set the hour and minutes for the alarm time. This type of setting causes the alarm to sound everyday at the time you set.

Date alarm

Set the month, day, hour and minutes for the alarm time. This type of setting causes the alarm to sound at the specific time, on the specific date you set.

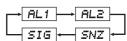
Set the month, hour and minutes for the alarm time. This type of setting causes the alarm to sound everyday at the time you set, only during the month you set. · Monthly alarm

Set the day, hour and minutes for the alarm time. This type of setting causes the alarm to sound every month at the time you set, on the day you set.

To set an alarm time



1. In the Alarm Mode, use ① to scroll through the alarm screens until the o displayed.



- To set a one-time alarm, display an alarm screen AL 1 or AL≥. To set the snooze alarm, display the SN≥ screen.
 The snooze alarm repeats every five minutes.

 2. After you select an alarm, hold down ② until the hour setting of the alarm time starts to flash, which indicates the setting screen.
 This operation turns on the alarm automatically.

 3. Press ③ to move the flashing in the sequence shown below to select other settings.



4. While a setting is flashing, use (D) and (B) to change it as described below

Screen	To do this:	Do this:
iciüü	and minutes	Use ((+) and (8) (-). •With the 12-hour format, set the time correctly as a.m. or p.m. (P indicator).
••••	Change the month and day	To set an alarm that does not include a month and/or day, set + for each setting.

Press (A) to exit the setting screen.

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.

 To stop the alarm tone after it starts to sound, press any button.

 Performing any one of the following operations during a 5-minute interval between snooze alarms cancels the current snooze alarm operation.

 Displaying the Timekeeping Mode setting screen

 Displaying the SNZ setting screen

To test the alarm
In the Alarm Mode, hold down ① to sound the alarm.

To turn an alarm on and off



- 1. If the Marin Mode, use ⊕ to Select an aarm.
 2. Press (B to toggle it on and off.

 Turning on a alarm (AL 1, AL ≥, or ≤NZ) displays the alarm on indicator on its Alarm Mode screen.

 In all modes, the alarm on indicator is shown for any alarm the time works the words.
- alarm that is currently turned on
- The alarm on indicator flashes while the alarm is sounding.
- The snooze alarm indicator flashes while the snooze alarm is sounding and during the 5-minute intervals between alarms.

on indicator

To turn the Hourly Time Signal on and off



e signa

- Signal (SIG).

 2. Press (a) to toggle it on and off.

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

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

- 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 about using illumination.

To illuminate the display manually

- In any mode, press ® to turn on illumination.

 The above operation turns on illumination regardless of
- the current auto light switch setting
- You 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

ecify the illumination duration



- In the Timekeeping Mode, hold down (A) until the seconds start to flash, which indicates the setting
- 2. While the seconds are flashing, press (B) to toggle the setting between 1.5 seconds (*) and 3 seconds (*).

 3. Press (*) twice 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.

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 startle or distract others around you.

 When you are wearing the watch, make sure that its auto light switch is turned of the form of the startle or distract or d
- 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 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
- In order to protect against running down the battery, the auto light switch will turn off automatically approximately six hours after you turn it on. Repeat the above procedure to turn the auto light switch back on if you want.

Reference

Moon F

Moon F

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

The Moon phase indicator of this watch indicates the current phase of the Moon as shown below



(part you cannot see) — Moon phase (part you can see)								e)
Phase tor					\bigcirc	0		
Age	0.0 - 1.8 27.7 - 29.5	1.9 - 5.5	5.6 - 9.2	9.3 - 12.9	13.0-16.6	16.7-20.2	20.3 - 23.9	24.0 - 27.6
Phase	New Moon		First Quarter		Full Moon		Last Quarter	

(Waning)

- The Moon phase indicator shows the Moon as viewed at noon from a position in the Northern Hemisphere looking south. Note that at times the image shown by the Moon phase indicator may differ from that of the actual Moon in your area.

 The left-right orientation of the Moon phase is reversed when viewing from the Southern Hemisphere or from a point near the equator.

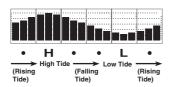
(Waxing)

Moon Phases and Moon Age
The Moon goes through a regular 29.53-day cycle. During each cycle, the Moon appears to wax and wane as the relative positioning of the Earth, Moon, and Sun changes. The greater the angular distance between the Moon and the Sun,* the more we see illuminated.

* The angle to the Moon in relation to the direction at which the Sun is visible from the Farth

Earlii. This watch performs a rough calculation of the current Moon age starting from day 0 of the moon age cycle. Since this watch performs calculations using integer values only (no fractions), the margin for error of the displayed Moon age is \pm 1 day.

level. The current tide level is indicated by the displayed graphic segment.



Tides are the periodic rise and fall of the water of oceans, seas, bays, and other Tides are the periodic rise and fall of the water of oceans, 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 lunitidal interval differs according to your current location, so you must specify a lunitidal interval in order to obtain the correct tide graph readings. The tide graph displayed by this watch is based on the current Moon age. Remember that the margin for error of the Moon age displayed by this watch is ± 1 day. The greater the error in a particular Moon age, the greater the error in the resulting title graph. resulting tide graph.

Theoretically, high tide is at the Moon's transit over the meridian and low tide is about Inederectain, ingli tole is at the moon's transit over the mendian 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 "lunitidal interval". When setting the lunitidal interval for this watch, use the time differential between the Moon's transit over the meridian until high tide.

When Flash Alert is turned on, the illumination flashes for the alarms, the Hourly Time Signal, the countdown alarm, and stopwatch auto start.

To turn Flash Alert on and off



- I. In the Timekeeping Mode, hold down (A) for about two seconds until the current time flashes on the display. This is the setting screen.
 Press (©) eight times to display the Flash Alert setting.
- 3. Press

 to toggle Flash Alert on (55 m displayed) and

- 3. Press () to toggle Flash Alert on (೨೨㎡, displayed) and off (- - displayed).
 4. Press () twice to exit the setting screen.
 The Flash Alert setting you select with the above procedure is applied in all modes.
 When Flash Alert is on, ⟨೨೪㎡ appears on the timekeeping screen for about one second whenever you after the Stowatch Countdown Timer or Alert Mode. enter the Stopwatch, Countdown Timer, or Alarm Mode,

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, the

alarms, the Hourly Time Signal, the countdown alarm, and stopwatch auto start all operate normally.

To turn the button operation tone on and off In any mode (except when a setting screen is on the display), hold down © to toggle the button operation tone on (mute indicator not displayed) and off (mute indicator

- Holding down © to turn the button operation tone on or off also causes the watch's current mode to change.
 The mute indicator is displayed in all modes when the button operation tone is turned off.

Auto Return Features

- If you leave the watch in the Alarm Mode or Tide/Moon Data Mode for two or three minutes without performing any operation, it changes to the Timekeeping Mode automatically.
- If you leave a screen with flashing digits on the display for two or three minutes without performing any operation, the watch exits the setting screen automatically.

Scrolling
The (B) and (D) buttons 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.

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

- Resetting the seconds to BB 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
- causes the finnites to be increased by 1. In the range of 00 to 29, the seconds are reset to 60 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.

World Time

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

 All World Time Mode times are calculated from the current time in the Timekeeping
- Mode using UTC time differential values.

 The UTC differential is a value that indicates the time difference between a
- The UTC differential is a value that indicates the time difference between a reference point in Greenwich, England and the time zone where a city is located. The letters UTC is the abbreviation for Coordinated Universal Time, which 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

- 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 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 more than 15 degrees above or below parallel. Make sure that the back of your hand is parallel to the ground. Illumination turns off in about 1.5 seconds 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 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 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 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.

UTC Differential/City Code List

PPG HNL ANC YVR SFO	Pago Pago	Differential	Other major cities in same time zone	
HNL ANC YVR SFO		-11.0		
ANC YVR SFO	Honolulu	-10.0	Papeete	
YVR SFO	Anchorage	-09.0	Nome	
SFO	Vancouver			
	San Francisco	-08.0	Las Vegas, Seattle/Tacoma, Dawson City	
LAX	Los Angeles	00.0	Las vegas, Seattle/Tacoma, Dawson Oity	
DEN	Denver	-07.0	Edmonton, El Paso	
MEX	Mexico City			
CHI	Chicago	-06.0	Houston, Dallas/Fort Worth, New Orleans, Winnipeg	
MIA	Miami		Montreal, Detroit, Boston.	
NYC	New York	-05.0	Panama City, Havana, Lima, Bogota	
ccs	Caracas	-04.0	La Paz, Santiago, Port Of Spain	
YYT	St. Johns	-03.5	La r az, carriago, r ori or opani	
RIO	Rio De Janeiro	-03.0	Sao Paulo, Buenos Aires, Brasilia, Montevideo	
RAI	Praia	-01.0	odo i dalo, Bacillo i ilico, Bidolia, Monteviaco	
LIS	Lisbon			
LON	London	+00.0	Dublin, Casablanca, Dakar, Abidjan	
BCN	Barcelona			
PAR	Paris		Association Alabam Hamburg Frankfust Wasses Mandrid	
MIL	Milan	+01.0	Amsterdam, Algiers, Hamburg, Frankfurt, Vienna, Madrid,	
ROM	Rome	+01.0	Stockholm	
BER	Berlin			
ATH	Athens			
JNB	Johannesburg			
IST	Istanbul	+02.0	Helsinki, Beirut, Damascus, Cape Town	
CAI	Cairo	+02.0	neisinki, beliut, Damascus, Cape Town	
JRS	Jerusalem			
MOW	Moscow			
JED	Jeddah	+03.0	Kuwait, Riyadh, Aden, Addis Ababa, Nairobi	
THR	Tehran	+03.5	Shiraz	
DXB	Dubai	+04.0	Abu Dhabi, Muscat	
KBL	Kabul	+04.5	Abu Bilabi, Wuscat	
KHI	Karachi			
MLE	Male	+05.0		
DEL	Delhi	+05.5	Mumbai, Kolkata, Colombo	
DAC	Dhaka	+05.5	Mullibal, Nolkata, Colombo	
BGN		+06.0		
BKK	Yangon		Phnom Penh, Hanoi, Vientiane, Jakarta	
SIN	Bangkok Singapore	+07.0	rillioni renn, nanoi, vientiane, Jakarta	
		.00.0	Kuala Lumaur Tainai Manila Davih Illaanha	
HKG BJS	Hong Kong	+08.0	Kuala Lumpur, Taipei, Manila, Perth, Ulaanbaatar	
SEL	Beijing			
TYO	Seoul	+09.0	Pyongyang	
	Tokyo			
ADL	Adelaide	+09.5	Darwin	
GUM	Guam	+10.0	Melbourne, Rabaul	
SYD	Sydney			
NOU	Noumea	+11.0	Port Vila	
WLG	Wellington		Christchurch, Nadi, Nauru Island	

Based on data as of June 2007.

Site/Lunitidal Interval Data List

		fferential		Lunitidal Interval	
Site	Standard	DST/	Longitude		
	Time	Summer Time			
Anchorage	-9.0	-8.0	149°W	5:40	
Bahamas	-5.0	-4.0	77°W	7:30	
Baja, California	-7.0	-6.0	110°W	8:40	
Bangkok	+7.0	+8.0	101°E	4:40	
Boston	-5.0	-4.0	71°W	11:20	
Buenos Aires	-3.0	-2.0	58°W	6:00	
Casablanca	+0.0	+1.0	8°W	1:30	
Christmas Island	+14.0	+15.0	158°W	4:00	
Dakar	+0.0	+1.0	17°W	7:40	
Gold Coast	+10.0	+11.0	154°E	8:30	
Great Barrier Reef, Cairns	+10.0	+11.0	146°E	9:40	
Guam	+10.0	+11.0	145°E	7:40	
Hamburg	+1.0	+2.0	10°E	4:50	
Hong Kong	+8.0	+9.0	114°E	9:10	
Honolulu	-10.0	-9.0	158°W	3:40	
Jakarta	+7.0	+8.0	107°E	0:00	
Jeddah	+3.0	+4.0	39°E	6:30	
Karachi	+5.0	+6.0	67°E	10:10	
Kona, Hawaii	-10.0	-9.0	156°W	4:00	
Lima	-5.0	-4.0	77°W	5:20	
Lisbon	+0.0	+1.0	9°W	2:00	
London	+0.0	+1.0	0°E	1:10	
Los Angeles	-8.0	-7.0	118°W	9:20	
Maldives	+5.0	+6.0	74°E	0:10	
Manila	+8.0	+9.0	121°E	10:30	
Mauritius	+4.0	+5.0	57°E	0:50	
Melbourne	+10.0	+11.0	145°E	2:10	
Miami	-5.0	-4.0	80°W	7:30	
Noumea	+11.0	+12.0	166°E	8:30	
Pago Pago	-11.0	-10.0	171°W	6:40	
Palau	+9.0	+10.0	135°E	7:30	
Panama City	-5.0	-4.0	80°W	3:00	
Papeete	-10.0	-9.0	150°W	0:10	
Rio De Janeiro	-3.0	-2.0	43°W	3:10	
Seattle	-8.0	-7.0	122°W	4:20	
Shanghai	+8.0	+9.0	121°E	1:20	
Singapore	+8.0	+9.0	104°E	10:20	
Sydney	+10.0	+11.0	151°E	8:40	
Tokyo	+9.0	+10.0	140°E	5:20	
Vancouver	-8.0	-7.0	123°W	5:10	
Wellington	+12.0	+13.0	175°E	4:50	
Based on data as of 2003	1				

Based on data as of 2003