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.

Keep the watch exposed to bright light

Battery charges in the light.

Bright Light

ill 4 4 4

LEVEL 2

LEVEL 3

LEVEL 4



The electricity generated by the solar cell of the watch is stored by a built-in 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 much as

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

ight.

You should try to keep the watch outside of your sleeve charging is reduced significantly in the same of the charging is reduced significantly in the same of the charging is reduced significantly in the charging is reduced significantly in the charging is reduced as the charging is r as much as possible. Charging is reduced significantly 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 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

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 1.7.

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.

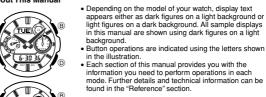
If the display of the watch is blank...
If the display of the watch is blank, it means that the watch's Power Saving function has turned off the display to conserve power.

• See "Power Saving Function" for more information.

Note that CASIO 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 malfunction.







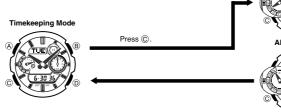


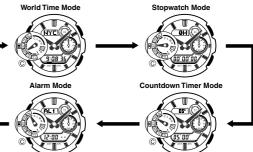
General Guide

(Converts light to

10:58

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





Radio-controlled Atomic Timekeeping

This watch receives a time calibration signal and updates its time setting accordingly.

This watch is designed to pick up the time calibration signals transmitted in Germany (Mainflingen), England (Anthorn), the United States (Fort Collins), China (Shangqiu), and Japan (Fukushima, Fukuoka/Saga).

See the information under "Signal Reception Troubleshooting" if you experience problems with time calibration signal reception.

Current Time Setting

This watch adjusts its time setting automatically in accordance with a time calibration signal. You also can perform a manual procedure to set the time and date, when

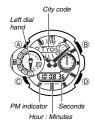
- signal. You also can periorm a manual procedure to set the time and date, when necessary.

 The first thing you should do after purchasing this watch is to specify your Home City (the city where you normally will use the watch). For more information, see "To specify your Home City".

 When using the watch outside the areas covered by the time signal transmitters, you will have to adjust the current time setting manually as required. See "To set the time and date manually" for more information about manual time settings.

 The U.S. time calibration signal can be picked up by the watch while in North America. The term "North America" in this manual refers to the area that consists of Canada. The eominental United States, and Mexico.
- Canada, the continental United States, and Mexico
- As of January 2008, China does not use Daylight Saving Time (DST). If China does go to the Daylight Saving Time system in the future, some functions of this watch may no longer operate correctly.

To specify your Home City



1. In the Timekeeping Mode, hold down (A) for about five seconds until the left dial hand points to **T1** and the city code flashes on the upper display. This is the setting

code lashes on the upper display. This is the setting screen.

2. Press ③ (east) and ⑧ (west) to select the city code you want to use as your Home City.

LIS, LON: Lisbon, London

MAD, PAR, ROM, BER, STO: Madrid, Paris, Rome,

ATH : Athens
MOW : Moscow
HKG, BJS, TPE : Hong Kong, Beijing, Taipei
SEL, TYO : Seoul, Tokyo
HNL : Honolulu

Anchorage

YVR, LAX: Vancouver, Los Angeles YEA, DEN: Edmonton, Denver MEX, CHI: Mexico City, Chicago MIA, YTO, NYC: Miami, Toronto, New York

: Halifax : St.Johns

- Press (a) twice to exit the setting screen.

 Normally, your watch should show the correct time as soon as you select your Home
 City code. If it does not, it should adjust automatically after the next auto receive
 operation (in the middle of the night). You also can perform manual receive or you
- operation (in the induced of the Inging). Total aste can be perform manual receive of you can set the time manually.

 The watch will receive the time calibration signal automatically from the applicable transmitter (in the middle of the night) and update its settings accordingly. For information about the relationship between city codes and transmitters, see "Importantt" under "Time Calibration Signal Reception" and "Transmitters".

 See the maps under "Approximate Reception Ranges" for information about the reception ranges of the watch.

Time Calibration Signal Reception

There are two different methods you can use to receive the time calibration signal: auto receive and manual receive

Auto Receive

With auto receive, the watch receives the time calibration signal automatically up to six times a day (five times for the China signal). When any auto receive is successful, the remaining auto receive operations are not performed. For more information, see "About Auto Receive".

Manual Receive

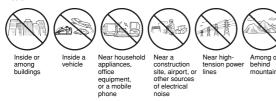
Manual receive lets you start a time calibration receive operation with the press of a button. For more information, see "To perform manual receive".

When getting ready to receive the time calibration signal, position the watch as shown in the nearby illustration, with its 12 o'clock side facing towards a window. This watch is designed to receive a time calibration signal late at night. Because of this, you should place the watch near a window as shown in the illustration when you take it off at night. Make sure there are no metal objects nearby.



. Make sure the watch is facing the right way

Proper signal reception can be difficult or even impossible under the conditions listed



- equipment, or a mobile phone
- Signal reception normally is better at night than during the day.
 Time calibration signal reception takes from two to seven minutes, but in some cases it can take as long as 14 minutes. Take care that you do not perform any button operations or move the watch during this time.
 The time calibration signal the watch will attempt to pick up depends on its current Home City code setting as shown below.

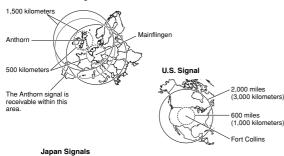
Home City Code	Transmitter	Frequency	
LON, PAR, BER, ATH,	Anthorn (England)	60.0 kHz	
LIS, MAD, ROM, STO, MOW*	Mainflingen (Germany)	77.5 kHz	
HKG, BJS	Shangqiu City (China)	68.5 kHz	
TPE, TYO, SEL	Fukushima (Japan)	40.0 kHz	
IPE, ITO, SEL	Fukuoka/Saga (Japan)	60.0 kHz	
HNL*, ANC*, LAX, DEN, CHI, NYC, YVR, YEA, MEX, MIA, YTO, YHZ, YYT	Fort Collins, Colorado (the United States)	60.0 kHz	

- The areas covered by the HNL. ANC, and MOW city codes are quite far from the time calibration signal transmitters, and so certain conditions may cause problems with signal reception.

 Calibration signal reception is disabled while a countdown timer operation is in
- progress

Approximate Reception Ranges

U.K. and German Signals





Signals are receivable in the Taiwan area when reception conditions are good



- Signal reception may not be possible at the distances that are futurer than those noted below during certain times of the year or day. Radio interference may also cause problems with reception.

 Mainflingen (Germany) or Anthorn (England) transmitters: 500 kilometers (310 miles).

 Set of the Child Charles transmitters (200 miles (4,000 kilometers)).

 - Fort Collins (United States) transmitter: 600 miles (1,000 kilometers)
- Fukushima or Fukuoka/Saqa (Japan) transmitters: 500 trilles (1,000 kilometers) Fukushima or Fukuoka/Saqa (Japan) transmitters: 500 kilometers (310 miles) Shangqiu (China) transmitter: 1500 kilometers (910 miles)

 Even when the watch is within the reception range of the transmitter, signal reception will be impossible if the signal is blocked by mountains or other geological formations between the watch and signal source.

 Signal reception is affected by weather, atmospheric conditions, and seasonal changes
- changes.

About Auto Receive
The watch receives the time calibration signal automatically up to six times a day (five times for the China signal). When any auto receive is successful, the remaining auto receive operations are not performed. The reception schedule (calibration times) depends on your currently selected Home City, and whether standard time or Daylight Saving Time is selected for your Home City.

Your Home City		Auto Receive Start Times					
	Tour Home City		2	3	4	5	6
	Standard Time Daylight Saving Time		2:00 am 3:00 am	3:00 am 4:00 am	4:00 am 5:00 am	5:00 am Midnight*	Midnight* 1:00 am*
PAR BER MAD ROM STO	Standard Time Daylight Saving Time	2:00 am 3:00 am		4:00 am 5:00 am	5:00 am Midnight*	Midnight* 1:00 am*	1:00 am* 2:00 am*
ATH	Standard Time Daylight Saving Time	3:00 am 4:00 am	4:00 am 5:00 am	5:00 am Midnight*	Midnight* 1:00 am*	1:00 am* 2:00 am*	
MOW	Standard Time Daylight Saving Time	4:00 am 5:00 am	5:00 am Midnight*		1:00 am* 2:00 am*		
BJS	Standard Time	1:00 am	2:00 am	3:00 am	4:00 am	5:00 am	
TYO TPE SEL	Standard Time	Midnight		2:00 am	3:00 am	4:00 am	5:00 am
HNL LAX DEN CHI NYC YVR YEA MIAO YHZ YYT	Standard Time and Daylight Saving Time	Midnight	1:00 am	2:00 am	3:00 am	4:00 am	5:00 am
							*Novet dos

- Note

 When a calibration time is reached, the watch will receive the calibration signal only if it is in either the Timekeeping Mode or World Time Mode. Reception is not performed if a calibration time is reached while you are configuring settings.

 Autor receive of the calibration signal is designed to be performed early in the morning, while you sleep (provided that the Timekeeping Mode time is set correctly).
- morning, while you sleep (provided that he inhexeeping Mode time is set corrections). Before going to bed for the night, remove the watch from your wrist, and put it in a location where it can receive the signal easily.

 The watch receives the calibration signal for two to 14 minutes everyday when the time in the Timekeeping Mode reaches a calibration time. Do not perform any butto operation within 14 minutes before or after the calibration times. Doing so can interfere with correct calibration.
- Remember that reception of the calibration signal depends on the current time in your Home City, as kept in the Timekeeping Mode.



To perform manual receive

1. Place the watch on a stable surface so its 12 o'clock

financing towards a window.

- 1. Prace the water of a static surface so its 12 0 clock side is facing towards a window.

 2. In the Timekeeping Mode, hold down (a) for about two seconds until the watch beeps.

 3. The digital display will go blank, and the left dial hand will move to R (READY). This indicates that the watch is getting ready for time calibration signal reception.

 See the information under "Signal Reception Troubleshooting" if you experience problems.
- Troubleshooting" if you experience problems.

 The left dial hand will move to **W (WORK)** and stay there
- while actual reception is in progress.

 If signal reception is unstable during reception, the left dial hand may move between W (WORK) and

R (READY)



ERF(

W (WORK)

. The hour and minute hands continue to keep time

- normally.

 Time calibration signal reception takes from two to 7 minutes, but in some cases it can take as long as 14 minutes. Take care that you do not perform any button operations or move the watch during this time.

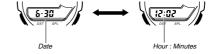
 When signal receive operation is successful, GET appears on the upper display and the lower display shows the time and date of the successful operation. The watch will adjust its time setting in accordance for The watch will adjust its time setting in accordance to
- The watch will adjust its time setting in accordance to with the information provided by the signal.

 The watch will return to the Timekeeping Mode if you press (a) or if you do not perform any operation for about one or two minutes.

 ERR will appear on the upper display if the receive operation is not successful. The watch will not adjust its time setting in this case. Press (a) to return to the Timekeening Mode. Timekeeping Mode.

To interrupt a receive operation and return to the Timekeeping Mode, press any

To check the latest signal reception results In the Timekeeping Mode, press (a) to view the last successful receive time and date. Press (a) again to return to the previous screen.



Signal Reception Troubleshooting
Check the following points whenever you experience problems with signal reception.

Problem	Probable Cause	What you should do
I can't receive a time calibration signal.	You performed some button operation during the auto receive operation. The watch is not in the Timekeeping Mode or World Time Mode. The watch is in a location where the signal cannot be received for some reason. A countdown timer operation is in progress. Radio interference is often present during the day time, which can interfere with calibration signal reception.	Perform manual signal receive at night or wait until the next auto signal receive operation is performed. Enter the Timekeeping Mode or World Time Mode and try again. Enter the Countdown Timer Mode and stop the countdown. Check to make sure the watch is in a location where it can receive the signal.
Time setting is incorrect following signal reception.	If the time is one hour off, the DST setting may be incorrect. The Home City code setting is not correct for the area where you are using the watch. The home position of the hands is off.	Change the DST setting to Auto DST. Select the correct Home City code. Enter the home position adjustment mode and adjust the home position.

For further information, see "Important!" under "Time Calibration Signal Reception" and "Radio-controlled Atomic Timekeeping Precautions".

World Time



World Time shows the current time in 48 cities (29 time

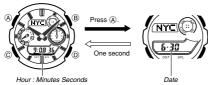
- world Time shows the current time in 46 cities (29 time zones) around the world. A simple operation swaps your Home City with the currently selected World Time city.

 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 site cleant of some themselves.
- any word in the mode time, cricks 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 Mode is correct.

 Select a city code in the World Time Mode to display the current time in any particular time zone around the globe. See the "City Code Table" for information about the UTC offset settings that are supported.
- All of the operations in this section are performed in the World Time Mode, which you enter by pressing (C)

To view the current time in another time zone
In the World Time Mode, use ① to scroll through available city codes (time zone).
Holding down the button scrolls at high speed.

When the city code (time zone) you want is selected, you can press ④ to display the date. After about one second, the watch will resume regular timekeeping.



To toggle a city code time b



DST indicator

- 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
- code (time zone) whose standard inher/baylight Sav Time setting you want to change.

 2. Hold down (a) for about three seconds 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 screen while Daylight Saving Time is turned on.

Swapping your Home City and World Time City
You can use the procedure below to swap your Home City and World Time city. This changes your Home City to your World Time city, and your World Time city to your Home City. This capability can come in handy when you frequently travel between two cities in different time zones.

- cities in different time zones.

 If your current World Time city supports receipt of a time calibration signal, making it your Home City enables calibration signal reception.

 For information about which cities support time calibration signal reception, see "To specify your Home City".

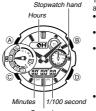
- To swap your Home City and World Time city

 1. In the World Time Mode, use ① to select the World Time city you want.

 2. Hold down ② and ③ until the watch beeps.

 This will make the World Time city (which you selected in step 1), your Home City. At the same time, it changes the Home City you had selected prior to step 2 your World Time city.
- After swapping the Home City and World Time city, the watch stays in the World Time Mode with the city that was selected as the Home City prior to step 2 now displayed as the World Time city.

Stopwatch

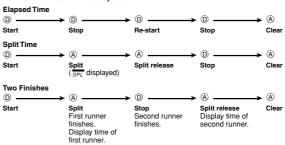


The stopwatch lets you measure elapsed time, split times,

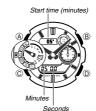
- The digital display range of the stopwatch is 23 hours.
- The digital display range of the stopwatch is 23 hours, 59 minutes, 59.99 seconds.
 The stopwatch continues to run, restarting from zero after it reaches its limit, until you stop it.
 The stopwatch hand will function as a 1/20-hand during the first second of an elapsed time operation. After that, it will function as a second hand until the first mittel elapses. After that it will function as a minute hand.
- Whenever an elapsed time operation is stopped, the stopwatch hand will indicate the current seconds count. 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 split
- time and returns to elapsed time measurement.

 All of the operations in this section are performed in the Stopwatch Mode, which you

To measure times with the stopwatch



Countdown Timer



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

- You also can select auto-repeat, which automatically restarts the countdown from the original value you set
- All of the operations in this section are performed in the Countdown Timer Mode, which you enter by pressing

- To use the countdown timer

 Press (i) while in the Countdown Timer Mode to start the countdown timer.

 When the end of the countdown is reached and auto-repeat is turned off, 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.

 When auto-repeat is turned on, the countdown will restart automatically without pausing when it reaches zero. The alarm sounds to signal when the countdown reaches zero. The countdown is repeated up to eight times, and then stop.

 The number of the current repeat (1 to 8) is shown in the lower display.

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

 To stop a countdown timer operation completely, first pause it (by pressing (ii)), and

- ullet To stop a countdown timer operation completely, first pause it (by pressing lacktriangle), and then press ullet. This returns the countdown time to its starting value.



- To configure countdown start time and auto-repeat settings

 1. While the countdown start time is on the display in the Countdown Timer Mode, hold down (a) for about three seconds until the minute setting of the 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 countdown timer" to display it.

 2. Press © to move the flashing in the sequence shown below, and select the setting you want to change.



- 3. Perform the following operations, depending on which setting is currently selected
- 4. Press (a) to exit the setting screen.

 The auto-repeat on indicator (b) is displayed on the Countdown Timer Mode screen while this function is turned on.

 Frequent use of auto-repeat and the alarm can run down battery power.

Alarms



(Hour : Minutes)

When an alarm is turned on, the alarm tone sounds when the alarm time is reached. One of the alarms is a snooze alarm, while the other four are one-time alarms

- alarm, while the other four are one-time alarms. You also can turn on an Hourly Time Signal that causes the watch to beep twice every hour on the hour.

 There are five alarm screens numbered FiL 1, FiL≥, FiL⊇ and FiL 4 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 ©

et an alarm time



In the Alarm Mode, use
 to scroll through the alarm screens until the one whose time you want to set is

- To set a one-time alarm, display an alarm screen AL1, AL2, AL3 and AL4. To set the snooze alarm, display the SNZ screen.
 • SIG is the hourly time signal setting.
 • The snooze alarm repeats every five minutes.
- 2. After you select an alarm, hold down (A) for about three seconds until the hour Arter you select an alarm, nold down (a) for about three seconds until the setting of the alarm time starts to flash, which indicates the setting screen.
 This operation turns on the alarm automatically.
 Press (a) to move the flashing between the hour and minute settings.
 While a setting is flashing, use (b) (+) and (B) (-) to change it.
 Press (a) to exit the setting screen.

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

- watch is in. In the case of the shocke alarm, the alarm of pertainn 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 current time in your Home City, as kept in the Timekeeping Mode.

 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 되어고 setting screen

Snooze alarm indicator Alarm on



In the Alarm Mode, use (1) to select an alarm.

- 2. Press (A) to toggle it on and off.

 Turning on a alarm (AL1, AL2, AL3, AL4 or
- Firming on a alarm (HL 1, HL 2, HL 3, HL 4) or SNZ displays the alarm on indicator on its Alarm Mode screen.

 In all modes, the alarm on indicator is shown for any alarm that is currently turned on.

 The alarm on indicator flashes while the alarm is according to the screen of the
- sounding.
- The snooze alarm indicator flashes while the snooze alarm is sounding and during the 5-minute intervals between alarms.

- To turn the Hourly Time Signal on and off

 Hourly time signal on indicator on indicator 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



An LED (light-emitting diode) illuminates the face of the watch 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

To illuminate the display manuallyIn any mode (except when a setting screen is on the display), press [®] to turn on the illumination for about one

second.

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

About the Auto Light Switch

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 LED 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.

- The auto light switch is always disabled, regardless of its on/off setting, when any
- one of the following conditions exists.

 -While an alarm is sounding
 -While a signal receive operation is in progress

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 account of the property of the proper
- 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

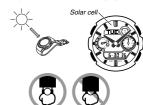
The auto light switch on indicator is on the display in all modes while the auto light switch is turned on.

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.

Example: Orient the watch so its face is

- Example: Orient the watch so its face:
 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
- 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 reduced significantly if the face is covered only partially.



- 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
- power to run down, be suite that the water to suppossible.

 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 charge fully, contact your dealer or CASIO distributor about having it replaced.

 The state of the second of the watch's special battery yourself. Use of the wrong

- 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.

 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 (C) 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 hattery from poing dead battery from going dead

Battery Power Indicator and Power Recovery Mode indicator

The battery power indicator indicates you the current status of the rechargeable battery's power.

Level	Battery Power Indicator	Function Status
1 (H)		All functions enabled.
2 (M)		All functions enabled.
3 (L)	(Charge Soon Alert)	Auto and manual receive, illumination, and beeper disabled.
4 (C)		Except for timekeeping, all functions and display indicators disabled.
5 (C)		All functions disabled.

- The flashing LOW indicator at Level 3 (L) tells you that battery power is very low
- The hashing LOW indicator at Level 3 (L) tells you find batterly power is very low, and that exposure to bright light for charging is required as soon as possible.
 At Level 5 (C), all functions are disabled and settings return to their initial factory defaults. Once the battery reaches Level 2 (M) after falling to Level 5 (C), reconfigure the current time, date, and other settings.
 Display indicators reappear as soon as the battery is charged from Level 5 (C) to Level 2 (M).
- Level 2 (M).

 The watch's Home City code setting will change automatically to TYO (Tokyo) whenever the battery drops to Level 5 (C). With this Home City code setting, the watch is configured to receive the time calibration signals of Japan. If you are using the watch in North America or Europe, or China you will need to change the Home City code setting to match your location whenever the battery drops to Level 5 (C).

 Leaving the watch exposed to direct sunlight or some other very strong light source can cause the battery power indicator to show a reading temporarily that is higher than the actual battery level. The correct battery level should be indicated after a few minutes.





- Overuse of display illumination or the beeper can cause the R (Recover) indicator to appear in the upper display, which indicates that the watch is in the battery power recovery mode. Face illumination, the alarm, the countdown timer alarm, time signals, and all hand operations are disabled in the power recovery mode. The watch continues to keep time internally, so normal timekeeping and function will resume as soon as battery power recovers to normal levels, which is indicated when the R indicator (isappears hen the R indicator disappears
- which the H indicator disappears.

 If R (recover) appears frequently, it probably means that remaining battery power is low. Leave the watch in bright light for some time to allow it to charge.

Charging Precautions

Critain 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 six 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

Exposure Level (Brightness)	Approximate Exposure Time
Outdoor Sunlight (50,000 lux)	8 minutes
Sunlight Through a Window (10,000 lux)	30 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

Exposure Level	Approximate Exposure Time					
(Brightness)	Level 5	Level 4	Level 3	Level 2	Level 1	
Outdoor Sunlight (50,000 lux)		2 hours		21 hours	6 hours	
Sunlight Through a Window (10,000 lux)	6 hours		78 hours	21 hours		
Daylight Through a Window on a Cloudy Day (5,000 lux)	10 hours		126 hours	34 hours		
Indoor Fluorescent Lighting (500 lux)		106 hours				

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

Timekeeping

You can adjust the Home Time city data and time in the Timekeeping Mode manually. You also can simultaneously display the current time in one other time zone, by specifying a Dual Time City.

- For information about selecting a Dual Time City, see "To specify the Dual Time City"
 Pressing

 In the Timekeeping Mode will cycle the lower display between the
- screens shown below.



Read This Before You Set the Time and Date!

Read Inis 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. 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 city codes and Dual Time City are displayed in accordance with the time and date settings you configure for the Timekeeping Mode.



- To set the time and date manually

 1. In the Timekeeping Mode, hold down (a) for about five seconds until the left dial hand points to T1 and the city code flashes on the upper display. This is the setting

 - Screen.
 Substitute of 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"

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



4. When the timekeeping setting you want to change is flashing, use D or B to change it as described below.

Screen:	To do this:	Do this:
TYO	Change the city code	Use (west).
OFF	Cycle between Auto DST (취임TB), Daylight Saving Time (마시) and Standard Time (마두).	Press ①.
12H	Toggle between 12-hour (1 ≥H) and 24-hour (≥4H) timekeeping	Press D.
50	Reset the seconds to an	Press D.
°10:58	Change the hour and minutes	Use () (+) and () (-).
2009 <i>6·30</i>	Change the year, month, or day	
PS OA	Toggle between Power Saving on (GFF)	Press (D).

- 5. Press (A) twice to exit the setting screen.
 For details about the Daylight Saving Time setting, see "To change the Daylight Saving Time (summer time) setting". For information about Power Saving, see "To turn Power Saving on and off".
- turn Power Saving on and orthogonal Auto DST (RIJTE) can be selected only while LIS, LON, MAD, PAR, ROM, BER, STO, ATH, MOW, TPE, SEL, TYO, HNL, ANC, YUR, LAX, YER DEN, MEX, CHI, MIA, YTO, NYC, YHZ, or YYT is selected as the Home City code. For more information, see "Daylight Saving Time (DST)" below. The day of the week is displayed automatically in accordance with the date (year, morth, and day) cetting.
- month, and day) settings

- 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
- with the 24-hour format, times are displayed in the range of 0.00 to 25.39, while 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

Standard I Ime. Hemember that not all countries or even local areas use Daylight Saving Time.

The time calibration signals transmitted from Mainflingen (Germany), Anthorn (England), or Fort Collins (the United States) include both Standard Time and DST data. When the Auto DST setting is turned on, the watch switches between Standard Time and DST (summer time) automatically in accordance with the signals.

- Though the time calibration signal transmitted by the Fukushima and Fukuoka/Saga, Japan transmitters include summer time data, summer time currently is not
- Japan transmitters include summer time data, summer time currently is not implemented in Japan (as of 2008).

 The default DST setting is Auto DST (AlUTII) whenever you select LIS, LON, MAD, PAR, ROM, BER, STO, ATH, MOW, TYO, ANC, YUR, LAX, YER DEN, MEX, CHI, MIA, YTO, NYC, YHZ, or YYT as your Home City code.

 If you experience problems receiving the time calibration signal in your area, it probably is best to switch between Standard Time and Daylight Saving Time
- (summer time) manually



- To change the Daylight Saving Time (summer time) setting

 1. In the Timekeeping Mode, hold down (A) for about five seconds until the left dial hand points to T1 and the city code flashes on the upper display. This is the setting
 - screen.

 2. Press © and the DST setting screen appears.

 3. Use © to cycle through the DST settings in the sequence shown below.
 - Auto DST (AUTII) DST off (CFF) DST on (CN)

4. 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. **Dual Time**

Dual Time lets you display the current time in another time zone called your "Dual Time City", in addition your Home City's current time. This feature is very handy for business professionals and others who need to keep track of the current time in two

For information about how to display the current time in the Dual Time City in the lower display, see "Timekeeping



- To specify the Dual Time City

 1. In the Timekeeping Mode, hold down (a) for about five seconds until the left dial hand points to T1 and the city code flashes on the upper display.

 2. Press (a) again. The left dial hand will move to T2 and the current Dual Time City code will start to flash on the upper display. This is the Dual Time City selection screen. screen. 3. Use $\textcircled{\ \ }$ (eastward) and $\textcircled{\ \ \ \ }$ (westward) to scroll through
 - - the available city codes.

 See the "City Code Table" for information about city
 - 4. Press (A) to exit the setting screen.

CASIO

Hand Home Position Correction

The hour and minute hands of the watch can be thrown off by exposure to strong magnetism or impact. The watch is designed to perform hour and minute hand correction automatically every hour in order to correct variation within the range of -55 minutes to +5 minutes

- You can trigger auto hour and minute hand position correction manually, if you want.
 If the variation is greater than –55 minutes to +5 minutes, you can trigger auto hand position correction manually or perform correction of the hour and minute hand
- home positions manually. If the dial hands are off, you will need to correct their home positions manually



To trigger the auto hand home position correction manually
In the Timekeeping Mode, hold down ① for about six seconds, until H-SET starts flashing on the upper display.

• Note that H-SET will appear on the upper display about

- three seconds after you depress (1), but you should not release the button until **H-SET** starts flashing. The
- release the outcomment and its starts masning. The flashing H-SET indicates that auto hour and minute hand home position correction has started.

 Auto hour and minute hand home position correction takes about three and a half minutes to complete. Do not perform any other watch operation during that time.
- The watch will return to the Timekeeping Mode automatically after auto correction is
- Timer Mode or while a countdown timer operation is in progress.

 To interrupt an ongoing auto correction, press ①. This will return to the Timekeeping Mode.



- To adjust the home positions manually

 1. In the Timekeeping Mode, hold down ① for about three seconds, until H-SET appears on the upper display.

 The dial hands are in their correct home positions when the left dial hand moves to C (CHG) and the stopwatch hand moves to 60. If they don't, use ③ to adjust the left dial hand position and ⑥ to adjust the stoowatch hand oosition. stopwatch hand position
 - After confirming that both dial hands are in their correct home positions, press ©

 - nome positions, press (©).

 This will change to hour hand and minute hand home position manual correction.

 The hour and minute hands are in their correct home positions if they are pointing to 12 o'clock. If they are not

 - required.

 Pressing © here will return to the setting at the beginning of step 2.

 3. After everything is the way you want, press (A) to return to the Timekeeping Mode.

 After you complete the home position adjustment
 - procedure, place the watch in a location that allows good time calibration signal reception, and then a manual receive operation. See "To perform manual receive" for more information



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.



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

Elapsed Time in Dark	Hands and Display	Operation	
60 to 70 minutes	Left dial hand: PS; Stopwatch hand: "60"; Other hands: Normal; Display: Blank	All functions enabled, except for displays	
6 or 7 days	Left dial hand: PS; Other hands: Stopped at 12 o'clock; Display: Blank	Auto receive, beeper tone, illumination, and display 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

To recover from the sleep state

Perform any one of the following operations.

• Move the watch to a well-lit area.

To turn Power Saving on and off



1. In the Timekeeping Mode, hold down (A) for about five seconds until the left dial hand points to T1 and the city code flashes on the upper display. This is the setting

- screen.

 2. Press © nine times until the Power Saving on/off
- screen appears. 3. Press D to toggle Power Saving on ($(\mbox{\it II} \mbox{\it II} \mbox{\it I})) and off$
- 4. Press (A) twice to exit the setting screen.

Radio-controlled Atomic Timekeeping Precautions

- Strong electrostatic charge can cause the time setting to be thrown off.

 The time calibration signal bounces off the ionosphere. Because of this, such factors as changes in the reflectivity of the ionosphere, as well as movement of the ionosphere to higher altitudes due to seasonal atmospheric changes or the time of day may change the reception range of the signal and make reception temporarily
- Even if the time calibration signal is received properly, certain conditions can cause
- to Even if the time calibration signal is received properly, certain conditions can cause the time setting to be off by up to one second.

 The current time setting in accordance with the time calibration signal takes priority over any time settings you make manually.

 The watch is designed to update the date and day of the week automatically for the period January 1, 2000 to December 31, 2099. Setting of the date by the time calibration signal cannot be performed starting from January 1, 2100.
- . This watch can receive signals that differentiate between leap years and non-leap
- years.

 Though this watch is designed to receive both time data (hour, minutes, seconds) and date data (year, month, day), certain signal conditions can limit reception to time data only.
- If you are in an area where proper time calibration signal reception is impossible, the
- watch keeps the time with the precision noted in "Specifications".

 If you have problems with proper time calibration signal reception or if the time setting is wrong after signal reception, check your current city code, DST (summer
- The Home City setting reverts to the initial default of T'Y'O (Tokyo) whenever the battery power drops to Level 5 (C) or when you have the rechargeable battery replaced. If this happens, change the Home City to the setting you want.

The time calibration signal received by this watch depends on the currently

- The time calibration signal received by this watch depends on the currently selected Home City code.

 When a U.S. time zone is selected, the watch receives the time calibration signal transmitted from the United States (Fort Collins).

 When a Japanese time zone is selected, the watch receives the time calibration signal transmitted from Japan (Fukushima and Fukuoka/Saga).

 When a European time zone is selected, the watch receives the time calibration signals transmitted from Germany (Mainflingen) and England (Anthorn).

 When a China time zone is selected, the watch receives the time calibration signals transmitted from China (Shangqiu City).

 When your Home City is LIS, LON, MAD, PAR, ROM, BER, STO, ATH, MOW (which can receive both the Anthorn and Mainflingen signals), the watch first tries to pick up the signal it last successfully received. If that fails, it tries the other signal. For the first receive after you select your Home City, the watch tries the nearest signal the first receive after you select your Home City, the watch tries the nearest signal first (Anthorn for LIS, LON, Mainflingen for MAD, PAR, ROM, BER, STO, ATH, and

Auto Return Features

- 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.
 The watch will return to the Timekeeping Mode automatically if you do not perform any operation for two or three minutes in the Alarm Mode.

High-Speed Movement

The
 and
 buttons are used to change the hand setting in various setting modes. In most cases, holding down these buttons will start high-speed movement of the applicable hand(s).

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

 Resetting the seconds to £2 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 £3 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 when battery power drops to Level 5 (C).

 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.

Illumination Precautions

- Illumination may be hard to see when viewed under direct sunlight.

 Illumination turns off automatically 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 4 (C)
- (v). 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.

More than 15 degrees



- 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 one second, even if you
- ep 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
- 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 (with no signal calibration)
Digital Timekeeping: Hour, minutes, seconds, p.m. (P), month, day, day of the week
Time 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); Simultaneous Home Time/Dual Time
indication
Analog Timekeeping: Hour minutes (head to the contraction)

Indication

Analog Timekeeping: Hour, minutes (hand moves every 10 seconds)

Time Calibration Signal Reception: Auto receive 6 times a day (Remaining auto receives cancelled as soon as one is successful) (five times for the China

receives cancelled as soon as one is successful) (five times for the China signal), Manual receive Receivable Time Calibration Signals: Mainflingen, Germany (Call Sign: DCF77, Frequency: 77.5 kHz); Anthorn, England (Call Sign: MSF, Frequency: 60.0 kHz); Fort Collins, Colorado, the United States (Call Sign: MWB, Frequency: 60.0 kHz); Fukushima, Japan (Call Sign: JJY, Frequency: 40.0 kHz); Fukushay/Saga, Japan (Call Sign: JY, Frequency: 60.0 kHz); Shanqqiu City, Henan Province, China (Call Sign: BPC, Frequency: 68.5 kHz)

World Time: 48 cities (29 time zones)
Other: Daylight Saving Time/Standard Time; Home City/World Time City Swapping Stopwatch:
Measuring unit: 1/100 second
Measuring capacity: 23:59' 59.99"
Measuring modes: Elapsed time, split time, two finishes
Countdown Timer:

Countdown Timer:

Measuring unit: 1 second
Input range: 1 minute to 60 minutes (1-minute increments)
Other: Auto-repeat timing
Alarms: Four one-time alarms; one snooze alarm; Hourly Time Signal
Illumination: LED (light-emitting diode); Auto Light Switch
Other: Power Saving; Auto hour and minute hand home position correction each hour

Power Supply: Solar cell and one rechargeable battery
Approximate battery operating time: 6 months (from full charge to Level 5 (C))
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 seconds) per day
• 10 seconds of alarm operation per day
• 4 minutes of signal reception per day

Frequent use of illumination runs down the battery. Particular care is required when using the auto light switch.

City Code Table

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

City Code	City	UTC Offset/ GMT Differential
ATH	Athens	
CAI	Cairo	+2
JRS	Jerusalem	
MOW	Moscow	+3
JED	Jeddah	+3
THR	Tehran	+3.5
DXB	Dubai	+4
KBL	Kabul	+4.5
KHI	Karachi	+5
DEL	Delhi	+5.5
DAC	Dhaka	+6
RGN	Yangon	+6.5
BKK	Bangkok	+7
SIN	Singapore	
HKG	Hong Kong	
BJS	Beijing	+8
TPE	Taipei	
SEL	Seoul	0
TYO	Tokyo	+9
ADL	Adelaide	+9.5
GUM	Guam	40
SYD	Sydney	+10
NOU	Noumea	+11
WLG	Wellington	+12

- Based on data as of March 2008.
 The rules governing global times (GMT differential and UTC offset) and summer time are determined by each individual country.

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