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



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.

It is not exposed to light causes the battery to run down. Make sure the watch is exposed to light as much as possible. • When you are not wearing the watch on your wrist, position the face so it is pointed at a source of bright light. • You should try to keep the watch outside of your sleeve 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 reconfigure 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 5 minutes exposure to bright sunlight coming in through a window Approximately 50 minutes exposure to indoor fluorescent lighting

 Be sure to read "Power Supply" for important information you need to know when exposing the watch to bright light.

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

• See "Power Saving Function" for more information.

About This Manual



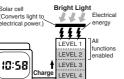
- Depending on the model of your watch, display text appears either as dark figures on a light background, or light figures on a dark background. All sample displays in this manual are shown using dark figures on a light In this manual are shown using dark figures on a light background.

 Button operations are indicated using the letters shown in the illustration.

 Most of the display examples in this manual show only the digital display, without the analog hands.

 Each section of this manual provides you with the information with the profession of the

- information you need to perform operations in each mode. Further details and technical information can be found in the "Reference" section.

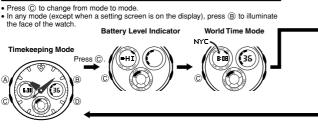


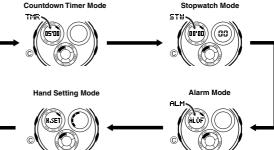
Battery charges in the light.



Battery discharges in the dark

General Guide





Radio-controlled Atomic Timekeeping



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

Supported time calibration signals: Germany (Mainflingen), England (Rugby), United States (Fort Collins), Japan

Current Time Setting

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

- perform 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 when using the watch outside the areas covered by the line signal rathstitutes, you will have to adjust the current time setting manually as required. See "Timekeeping" 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 continental United States, and Mexico
- The analog time of this watch is synchronized with the digital time. Because of this, the analog time setting is automatically adjusted whenever you change the digital setting. See "Analog Timekeeping" for more information.



any one of the city codes shown in the table below is selected as your Home City.

	German/U.K. Signal			Japan Signal		U.S. Signal			
City	City	City	City	City	City	City	City	City	City
Code	Name	Code	Name	Code	Name	Code			Name
LIS	Lisbon	ATH	Athens	HKG	Hong Kong				Winnipeg
LON	London	MOW	Moscow	BJS	Beijing	ANC	Anchorage	CHI	Chicago
MAD	Madrid			TPE	Taipei	YVR	Vancouver	MIA	Miami
PAR	Paris			SEL	Seoul	LAX	Los Angeles	YTO	Toronto
ROM	Rome			TYO	Tokyo	YEA	Edmonton	NYC	New York
BER	Berlin					DEN	Denver	YHZ	Halifax
STO	Stockholm					MEX	Mexico City	YYT	St. Johns

3. Press (A) 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 can also perform manual receive or 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 "Home City Codes and Transmitters"
- City Codes and Iransmitters".

 Under factory default settings, auto receive is turned off for all of the following city codes: MOW (Moscow), HKG (Hong Kong), BJS (Beijing), HNL (Honolulu), and ANC (Anchorage). For details about turning on auto receive for these city codes, see "To turn auto receive on and off".

 You can disable time signal reception, if you want. See "To turn auto receive on and off" for more information.

 See the maps under "Reception Ranges" for information about the reception ranges of the watch
- of the watch.
- If you are in an area that does not use Daylight Saving Time (summertime), turn off the DST setting.

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. 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. 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













phone noise

Signal reception normally is better at night than during the day.

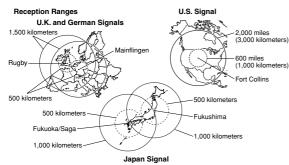
Time calibration signal reception takes from two to seven minutes, but in some cases it can take as long as 14 minutes. Take care that you do not perform any button operations or move the watch during this time.

The time calibration signal the watch will attempt to pick up depends on its current Home City code setting as shown below. If you use the watch in Japan or Europe (each of which has two different transmitter locations), it will try to receive the time calibration signal from one of the transmitters in your current location. If it cannot receive the signal, it will then try to receive the time calibration signal from the other transmitter.

Home City Codes and Transmitters

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

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



. Signal reception may not be possible at the distances noted below during certain times of the year or day. Radio interference may also cause problems with recep Mainflingen (Germany) or Rugby (England) transmitters: 500 kilometers (310

Fort Collins (United States) transmitter: 600 miles (1,000 kilometers)

- Fukushima or Fukuoka/Saga (Japan) transmitter: 500 trilles (1,000 kilometers) Fukushima or Fukuoka/Saga (Japan) transmitters: 500 kilometers (310 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. See the information under "Signal Reception Troubleshooting" if you experience problems with time calibration signal reception.

About Auto Receive

The watch receives the time calibration signal automatically up to six times a day. 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

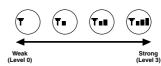
Your Home City		Auto Receive Start Times					
-		1	2	3	4	5	6
LIS, LON	Standard Time	1:00 am	2:00 am	3:00 am	4:00 am	5:00 am	Midnight next day
	Daylight Saving Time	2:00 am	3:00 am	4:00 am	5:00 am	Midnight next day	1:00 am next day
MAD, PAR, ROM, BER, STO	Standard Time	2:00 am	3:00 am	4:00 am	5:00 am	Midnight next day	1:00 am next day
	Daylight Saving Time	3:00 am	4:00 am	5:00 am	Midnight next day	1:00 am next day	
ATH	Standard Time	3:00 am	4:00 am	5:00 am		1:00 am next day	
	Daylight Saving Time	4:00 am	5:00 am	Midnight next day		2:00 am next day	
MOW	Standard Time	4:00 am	5:00 am			2:00 am next day	
	Daylight Saving Time	5:00 am	Midnight next day			3:00 am next day	
HKG, BJS, TPE, SEL, TYO	Standard Time	Midnight	1:00 am	2:00 am	3:00 am	4:00 am	5:00 am
HNL, ANC, YVR, LAX, YEA, DEN, MEX, YWG, CHI, MIA, YTO, NYC, YHZ, YYT	Standard Time Daylight Saving Time	Midnight	1:00 am	2:00 am	3:00 am	4:00 am	5:00 am

- When a calibration time is reached, the watch will receive the calibration signal only
- When a calinoration time is reached, the watch will receive the calination 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). 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 one to five minutes everyday when the time in the Timekeeping Mode reaches each of the calibration times. Avoid
- The watch receives the calibration signal not rule to in the fillinutes everyday when the
 time in the Timekeeping Mode reaches each of the calibration times. Avoid
 performing any button operation within five minutes before or after any one of the
 calibration times. Doing so can interfere with correct calibration.
 Remember that reception of the calibration signal depends on the current time in the
 Timekeeping Mode. The receive operation will be performed whenever the display
 shows any one of the calibration times, regardless of whether or not the displayed
 time actually is the correct time. time actually is the correct time.
- Calibration signal reception is disabled while a countdown timer operation is in progress.

About the Receiving Indicator
The receiving indicator shows the strength of the calibration signal being received. For best reception, be sure to keep the watch in a location where signal strength is strongest

Receiving indicator





- Use the receiving indicator as a guide for checking signal strength and for finding the best location for the watch during signal receive operations.
- Even in an area where signal strength is strong, it takes about 10 seconds for signal reception to stabilize enough for the receiving indicator to indicate signal strength.



During signal reception, a transmitter indicator will flash to show you which signal is currently being received by the watch. After signal reception is complete, the indicator of the transmitter from which the signal was received will ne transmitter from which the signal was received wi emain on, without flashing.

The following shows the meaning of each of the transmitter indicator names.

JP40: Fukushima (Japan)
JP60: Fukuoka/Saga (Japan)
US60: Fort Collins, Colorado (the United States)

- - GE77.5: Mainflingen (Germany)
- UK60: Rugby (England)
- The transmitter indicator turns off automatically at the start of the first auto receive operation of a new day. The time of the first auto receive operation of a new day depends on your currently selected Home City.

To perform manual receive

Receiving



Receive successful





- 1. Enter the Timekeeping Mode.
 2. Place the watch on a stable surface so its 12 o'clock side is facing towards a window.
 3. Hold down (1) for about two seconds until the Receiving Indicator appears on the display.
 The indicator of the transmitter whose signal the watch is the transmitter will fleeb.
- In endicator of the transmitter whose signal the watch is attempting to receive will flash.
 Time calibration signal reception takes from two to 14 minutes. Take care that you do not perform any button operations or move the watch during this time.
 If the receive operation is successful, the reception date and time appear on the display, along with the GET indicator. The indicator of the transmitter whose signal the watch received will also be indicated.
- the watch received will also be indicated. The watch will enter the Timekeeping Mode if you press

 or if you do not perform any button operation for about one or two minutes.
- . If the current reception fails, the display shows the ERR
- indicator.
 The watch will enter the Timekeeping Mode without changing the time setting if you press (i) or if you do not perform any button operation for about one or two

On/Off status



- In the Timekeeping Mode, press
 to display the Last Signal screen.
 - Signal screen.

 2. Hold down (a) until the current auto receive setting (ON or OFF) start to flash. This is the setting screen.

 Note that the setting screen will not appear if the currently selected Home City is one that does not support time calibration reception.

 3. Press (a) to toggle auto receive on (ON) and off (OFF).

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

 For information about city codes that support signal

 - For information about city codes that support signal receive, see "To specify your Home City

To check the latest signal reception results



In the Timekeeping Mode, press ① to display the Last Signal screen.

- When receive is successful, the display shows the time and date that receive was successful. · · indicates that none of the reception operations were successful.
 To return to the Timekeeping Mode, press ①.

CASIO

Signal Reception Troubleshooting

eck the following points whenever you experience problems with signal reception.

Problem	Probable Cause	What you should do
	The watch is not in the Timekeeping Mode. Your current Home City is not one of the following: LIS, LON, MAD, PAR, ROM, BER, STO, ATH, MOW, HKG, BJS, TPE, SEL, TYO, HNL, ANC, YVR, LAX, YEA, DEN, MEX, YWG, CHI, MIA, YTO, NYC, YHZ, or YYT	Enter the Timekeeping Mode and try again. Select LIS, LON, MAD, PAR, ROM, BER, STO, ATH, MOW, HKG, BJS, TPE, SEL, TYO, HNL, ANC, YVR, LAX, YEA, DEN, MEX, YWG, CHI, MIA, YTO, NYC, YHZ, or YYT as your Home City.
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.	Change the DST setting to Auto DST. Select the correct Home City code.

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



- The World Time Mode digitally displays the current time in 48 cities (29 time zones) around the world.

 If the current time shown for a city is wrong, check your Home City time settings and make the necessary changes.
- The watch will perform a signal reception even if it is in the World Time Mode when a calibration time is the World I lime Mode when a calibration time is reached. If this happens, the World Time Mode time settings will be adjusted in accordance with the Timekeeping Mode's Home City time.

 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 through the city codes (time zones) to the east.
• For full information on city codes, see the "City Code Table"



- 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 ② to toggle Daylight Saving Time (DST indicator displayed) and Standard Time (DST indicator and displayed).
- Note that you cannot use the World Time Mode to change the DST setting of the Home City code you currently have selected in the Timekeeping Mode. See "To change the Daylight Saving Time (summer time) setting" for information about turning the Home City code DST setting on and off.
 The DST indicator will appear on the display whenever you display a city code for which Daylight Saving Time is turned on.
 Note that the DST/Standard Time setting affects only the currently displayed city code. Other city codes are not affected.

Countdown Timer



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

- Calibration signal reception (both auto and manual) is disabled while a countdown timer operation is in
- progress.
 All of the operations in this section are performed in the Countdown Timer Mode, which you enter by pressing

To set the countdown start time

- 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
- If the countdown start time is not displayed, use the procedure under "To use the strain and the setting screen."
- countdown timer" to display it.

 2. While a setting is flashing, use ① (+) and ⑧ (-) to change it.

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

To use the countdown times

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

 When the end of the countdown is reached, the alarm sounds for 10 seconds or until you stop it by pressing any button. The countdown time is automatically reset to its
- you sup in by pressing any outcome the counterwhile is automatically leser to its starting value after the alarm stops.

 Press ① while a countdown operation is in progress to pause it. Press ① again to resume the countdown.
- To completely stop a countdown operation, first pause it (by pressing (10)), and then press (10). This returns the countdown time to its starting value.

Stopwatch



The stopwatch lets you measure elapsed time, split times, and two finishes.

- The display range of the stopwatch is 59 minutes, 59.99
- The display range of the stopwatch is 59 minutes, 59.99 seconds.
 The stopwatch continues to run, restarting from zero after it reaches its limit, until you stop it.
 Exiting the Stopwatch Mode while a split time is frozen on the display clears the split time and returns to elapsed time measurement.
- The stopwatch measurement operation continues even
- if you exit the Stopwatch Mode.

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

To measure times with the stopwatch

Elapsed Time Start Ston Re-start Ston Split Time Split release Start Split (Sandisplayed) Two Finishes (D) Split First runner finishes. Display time of first runner. Split release Display time of second runner

Alarm

On/Off status 2 seconds ALÓN∢) 1:00) Press D When the alarm is turned on, the alarm sounds when the alarm time is reached. You can also turn on an Hourly Time Signal, which will cause the watch to beep twice

- every hour on the hour.

 When the alarm is turned on, the alarm screen alternates between ALON (alarm on) and the current alarm time (hour and minutes). When the alarm is off, ALOF (alarm off) remains on the alarm screen.
- All of the operations in this section are performed in the
- Alarm Mode, which you enter by pressing ⑤.

 Pressing ⑥ in the Alarm Mode toggles betwe alarm screen and Hourly Time Signal screen.

(4 OF) Hourly Time Signal Screen

To set the alarm time



- 1. In the Alarm Mode, press (1) to display the alarm
- 1. If the harm mode, processore the screen.
 2. Hold down (A) until the hour setting of the alarm time starts to flash, which indicates the setting screen.

 This operation automatically turns on the alarm.

 3. Press (©) to move the flashing between the hour and minute settings.

 4. While a setting is flashing, use (E) (+) and (B) (-) to change it.

- When setting the alarm time using the 12-hour format, take care to set the time correctly as a.m. (no indicator) or p.m. (**P** indicator).

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

Alarm Operation

The alarm sounds at the preset time for about 10 seconds, regardless of the mode the

- valutins in.

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

 Alarm and Hourly Time Signal operations are performed in accordance with the Timekeeping Mode digital time.

To test the alarm

In the Alarm Mode, hold down (1) to sound the alarm.



- To turn the alarm and the Hourly Time Signal on and off

 On/Off status

 1. In the Alarm Mode, press ① to select the alarm or the Hourly Time Signal screen.

 2. Press ② to toggle the currently selected function on (All Hopking and off (All Gisplayed))

 - (ON displayed) and off (OF displayed).

 The alarm on indicator and the Hourly Time Signal on indicator remain on the display in all modes while these functions are turned on.

Alarm on indicator Illumination



An LED (light-emitting diode) and light guide panel illuminate the digital display for easy reading in the dark.

• See "Illumination Precautions" for other important

To turn on illumination

In any mode (except when a setting is on the display), press B to illuminate the display.

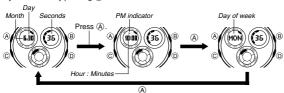
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Timekeeping

- Use the Timekeeping Mode to set and view the current time and date. This section also explains how to manually set the current date and time.

 When setting the time, you can also configure settings for the illumination duration and the 12/24-hour format.

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



• Pressing (D) in the Timekeeping Mode will display the Last Signal screen



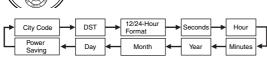
Setting the Digital Time and Date Manually
Make sure you select your Home City code before you change the current time and
date settings. World Time Mode times are all displayed in accordance with the
Timekeeping Mode settings. Because of this, World Time Mode times will not be
correct if you do not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



- To set the current digital time and date manually

 City code

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



3. When the setting you want to change is flashing, use ① to change it as described

Screen:	To do this:	Do this:
TYO	Change the city code	Press (D) (east).
Cycle between Daylight Saving Time (ON), Standard Time (OFF), and Auto DST (AUTO)		Press D.
12H Toggle between 12-hour (12H) and 24-hour (24H) timekeeping		Press D.
35 Reset the seconds to 00		Press D.
Change the hour or minutes		Press ① (+).
20 OB	Change the year	
5,30	Change the month or day	
PSOH Toggle Power Saving on (PSON) and off (PSOF)		Press D.

- See "City Code Table" for a complete list of available city codes.

 Auto DST (AUTO) can be selected only while LIS, LON, MAD, PAR, ROM, BER, STO, ATH, MOW, HKG, BJS, TPE, SEL, TYO, HNL, ANC, YYR, LAX, YEA, DEN, MEX, YWG, CHI, MIA, YTO, NYC, YHZ, or YYT is selected as the Home City code. For more information, see "Daylight Saving Time (DST)" below.

 For information about settings other than the time and date, see the following. Power Saving: Power Saving Function

 Press (A) to exit the setting screen.

Daylight Saving Time (DST)

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

Standard Time. Remember that not all countries or even local areas use Daylight Saving Time.

The time calibration signals transmitted from Mainflingen (Germany), Rugby (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.

The calibration signals transmitted from Fukushima and Fukuoka/Saga (Japan) do not include summer time data.

The default DST setting is Auto DST (AUTO) whenever you select LIS, LON, MAD, PAR, ROM, BER, STO, ATH, MOW, HKG, BJS, TPE, SEL, TYO, HNL, ANC, YVR, LAX, YEA, DEN, MEX, YWG, 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 is probably 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) until the city code starts to flash, which indicates the setting screen.

 2. Press (a) cnce and the DST setting screen appears.

 3. Use (b) to cycle through the DST settings in the sequence shown below.



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

Analog TimekeepingThe analog time of this watch is synchronized with the digital time. The analog time setting is adjusted automatically whenever you change the digital time.

- The hands for the analog timepiece move to adjust to a new setting whenever any of the following occurs.
- the following occurs.

 When you change the digital time setting manually
 When the digital time setting is changed by time calibration signal reception
 When you change the Home City code and/or DST setting
 If the analog time does not match the digital time for any reason, use the procedure described under "To adjust the analog time" to match the analog setting to the digital setting.
- Whenever you need to adjust both the digital and the analog time settings manually,
- make sure you adjust the digital setting first.
 Depending on how much the hands have to move in order to adjust to the digital time, it may take some time before they stop moving.



- In the Timekeeping Mode, press © six times to enter the Hand Setting Mode.
- 2. Hold down (a) until the current digital time starts to flash, which indicates the setting screen.

 3. Use (i) and (ii) to adjust the analog setting as described below.

When you want to do this:	Perform this button operation:
Move the hand setting forward 20 seconds	• Press ①.
Move the hand setting a short way forward at high speed	Hold down (i). Release (ii) when the hands reach the setting you want.
Move the hand setting a long way forward at high speed	While holding down ① to move the hands at high speed, press ② to lock the high-speed hand movement. To stop the hand movement, press any button. Hand movement stops automatically if the hour hand makes one full (12-hour) revolution.

- 4. Press (a) to exit the setting screen.The minute hand will be adjusted slightly to match the seconds when you exit the setting screen
- To return to the Timekeeping Mode, press ©.

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

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



- Important!
 Storing the watch for long periods in an area where there is no light or wearing it in such a way that it is blocked from exposure to light can cause rechargeable battery power to run down. Make sure that the watch is normally exposed to bright light whenever possible.
- whenever possions.

 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.
- Never try to remove or replace the watch's special battery yourself. Use of the wrong
- never rry to remove or repiace the watchs special battery yourself. Use of the wrong type of battery can damage the watch.
 The current time and all other settings return to their initial factory defaults whenever battery power drops to Level 5 and when you have the battery replaced.
 Turn on the watch's Power Saving function and keep it in an area normally exposed to bright light when storing it for long periods. This helps to keep the rechargeable battery from going dead.

To check the current battery level
Press © to display the battery level indicator.

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

Level	Battery Level Indicator	Function Status
1	■HI	All functions enabled.
2	■MID	All functions enabled.
3	(Charge Soon Alert)	Alarm, hourly time signal, illumination and time calibration signal reception disabled.
4	(Charge Soon Alert)	All functions disabled.
5		All functions, including timekeeping, disabled and initialized.

- The flashing Low indicator (L) at Level 3 and the flashing charge indicator (C) at
- The flashing Low indicator (L) at Level 3 and the flashing charge indicator (C) at Level 4 tell you that battery power is very low, and that exposure to bright light for charging is required as soon as possible.

 At Level 5, all functions are disabled and settings return to their initial factory defaults. Functions are enabled once again after the rechargeable battery is charged, but you need to set the time and date, after the battery reaches Level 4 (indicated by the flashing charge indicator (C)) from Level 5. You will not be able to configure any of the other settings until the battery reaches Level 3 (no charge indicator) after dropping to Level 5.

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

 The watch's Home City code setting will change automatically to TYO (Tokyo) whenever the battery drops to Level 5.

 If you are using the watch in North America or Europe, you will need to change the Home City code setting to match your location whenever the battery drops to Level 5.

 If you love the illumination or alarms a number of times during a short period, the hands of the watch will stop. Battery Level Indicator will show "R" at this time. Also, the following operations will become disabled until battery power recovers. Illumination

 Beeper tone

 Time calibration signal reception

Beeper tone

Time calibration signal reception

After some time, battery power will recover and the above functions will be enabled

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

Leaving the watch in bright light to charge its rechargeable battery can cause it Leaving the watch in bright ingit to charge its rechargeable battery can caust 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 7 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

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

 - 10 minutes of signal reception per day
- Stable operation is promoted by frequent exposure to light.

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

Exposure Level	Approximate Exposure Time					
(Brightness)	Level 5	Level 4	Level 3	Level 2	Level 1	
Outdoor Sunlight (50,000 lux)	2 hours			25 hours	6 hours	
Sunlight Through a Window (10,000 lux)	7 hours			94 hours	22 hours	
Daylight Through a Window on a Cloudy Day (5,000 lux)		10 hours		152 hours	35 hours	
Indoor Fluorescent Lighting (500 lux)		126 hours			-	

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

Reference

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

Power Saving Function

Power saving indicato



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

Elapsed Time in Dark	Displa	Operation
60 to 70 minutes	Blank, with Power Saving indicator (🗳) flashing	All functions enabled, except for the display
6 or 7 days	Blank, with Power Saving indicator () not flashing	Beeper tone, illumination, and display disabled Analog timekeeping stopped at 12 o'clock Auto receive disabled

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

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



- To turn Power Saving on and off
 On/Off status
 1. In the Timekeeping Mode, hold down (a) until the city code starts to flash, which indicates the setting screen.
 2. Press (a) nine times until the Power Saving on/off
 - 2. Press () Initial survey of the screen appears.
 3. Press () to toggle Power Saving on (PSON) and off

 - (FSSF):
 4. Press (Â) to exit the setting screen.
 The Power Saving indicator (♣) is on the display in all modes while Power Saving is turned on.

Button Operation Tone

Button Operation Tone
In any mode (except when a setting screen is on the display), hold down © for about
three seconds to toggle the button operation tone on and off. The button operation
tone off indicator ("") is displayed while the tone is turned off.

Even if the button operation tone is turned off, the daily alarm and countdown timer
alarm continue to sound when required.

Auto Return Features

- Auto Herum Features

 If you leave the watch in the Alarm or Hand Setting Mode, or with the Battery Level indicator displayed for two or three minutes without performing any operation, it automatically returns to the Timekeeping Mode.

 If you leave the watch with a flashing setting on the display for two or three minutes without performing any operation, the watch automatically exits the setting screen.

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 through the data at high speed.

Initial Screens

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

- Radio-controlled Atomic Timekeeping Precautions

 Strong electrostatic charge can result in the wrong time being set.

 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 inspecible.
- · Even if the time calibration signal is received properly, certain conditions can cause
- Even if the time calibration signal is received properly, certain conditions can cause
 the time setting to be of 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 automatically update the date and day of the week 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.

 Normally, the signal reception date shown by the Last Signal screen is the date data included in the received time calibration signal. When only time data is received, however, the Last Signal screen shows the date as kept in the Timekeeping Mode at the time of signal reception. If you are in an area where proper time calibration signal reception is impossible, the watch keeps time within ±15 seconds a month at normal temperature.

 If you have problems with proper time calibration signal reception or if the time setting is wrong after signal reception, check over current city code, DST (summer
- setting is wrong after signal reception, check your current city code, DST (summer time), and auto receive settings.

- Resetting the seconds to 00 while the current count is in the range of 30 to 59 causes the minutes to be increased by 1. In the range of 00 to 29, the seconds are reset to 00 without changing the minutes.

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

 The year can be set in the range of 2000 to 2099.

 The watch's built-in full automatic calendar makes allowances for different month lengths and leap years. Once you set the date, there should be no reason to change it except after you have the watch's battery replaced or when battery power drops to Level 5.

 The current time for all city codes in the Timekeeping Mode and World Time Mode is
- The current time for all city codes in the Timekeeping Mode and World Time Mode is calculated in accordance with the Greenwich Mean Time (GMT) differential for each city, based on your Home City time setting.

 The times for the Timekeeping Mode and all the city codes of the World Time Mode are calculated in accordance with each city's UTC differential.

 The UTC differential is a value that indicates the time difference between a set of the Company of the Company

- The letters "UTC" is the abbreviation for "Universal Time Coordinated", 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 rotation.

- 12-hour/24-hour Timekeeping Formats

 The 12-hour/24-hour timekeeping format you select in the Timekeeping Mode is also applied in all other modes.

 With the 12-hour format, the PM indicator (P) appears on the display for times in the range of noon to 11:59 p.m. and no indicator appears for times in the range of midnight to 11:59 a.m.
- With the 24-hour format, times are displayed in the range of 0:00 to 23:59, without any indicator.

Illumination Precautions

- Illumination may be hard to see when viewed under direct sunlight.
 Illumination automatically turns off whenever an alarm sounds.
 Frequent use of illumination runs down the battery.

City Code Table

0.1	ı	OME			
City Code	City	GMT Differential	Other major cities in same time zone		
PPG	Pago Pago	-11.0			
HNL	Honolulu	-10.0	Papeete		
ANC	Anchorage	-09.0	Nome		
YVR	Vancouver	00.0	San Francisco, Las Vegas,		
LAX	Los Angeles	-08.0	Seattle/Tacoma, Dawson City, Tijuana		
YEA	Edmonton		FID. FI . O.		
DEN	Denver	-07.0	El Paso, Edmonton, Culiacan		
MEX	Mexico City				
YWG	Winnipeg	-06.0	Houston, Dallas/Fort Worth, New Orleans		
CHI	Chicago	1			
MIA	Miami				
YTO	Toronto	-05.0	Montreal, Detroit, Miami, Boston,		
NYC	New York	1	Panama City, Havana, Lima, Bogota		
CCS	Caracas				
YHZ	Halifax	-04.0	La Paz, Santiago, Port Of Spain		
YYT	St. Johns	-03.5			
RIO	Rio De Janeiro	-03.0	Sao Paulo, Buenos Aires, Brasilia, Montevideo		
RAI	Praia	-01.0	Cao i adio, Edonico i inco, Eracina, Montevidos		
LIS	Lisbon	01.0			
LON	London	+00.0	Dublin, Casablanca, Dakar, Abidjan		
MAD	Madrid				
PAR	Paris	-			
ROM	Rome	+01.0	Milan, Amsterdam, Algiers, Hamburg, Frankfurt, Vienna		
BER	Berlin	+01.0			
STO	Stockholm	-			
ATH	Athens				
CAL	Cairo	+02.0	Helsinki, Istanbul, Beirut, Damascus, Cape Town		
JRS	Jerusalem	+02.0	Kuwait, Riyadh, Aden, Addis Ababa, Nairobi		
MOW	Moscow				
JED	Jeddah	+03.0			
THR		+03.5	Shiraz		
DXB	Tehran Dubai	+03.5	Abu Dhabi, Muscat		
			ADU DITADI, MUSCAL		
KBL KHI	Kabul Karachi	+04.5 +05.0	Male		
	Marachi Delhi		Mumbai, Kolkata, Colombo		
DEL		+05.5	Mullibal, Nolkata, Colollibo		
DAC	Dhaka	+06.0			
RGN	Yangon	+06.5			
BKK	Bangkok	+07.0	Jakarta, Phnom Penh, Hanoi, Vientiane		
HKG	Hong Kong				
BJS	Beijing	+08.0	Singapore, Kuala Lumpur, Manila, Perth, Ulaanbaatar		
TPE	Taipei				
SEL	Seoul	+09.0	Pyongyang		
TYO	Tokyo		, ,, ,		
ADL	Adelaide	+09.5	Darwin		
GUM	Guam	+10.0	Melbourne, Rabaul		
SYD	Sydney				
NOU	Noumea	+11.0	Port Vila		
WLG	Wellington	+12.0	Christchurch, Nadi, Nauru Island		

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