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 Button operations are indicated using the letters show in the illustration. Each section of this manual provides you with the

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

General Guide

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



Timekeeping

Use the Timekeeping Mode to set and view the current



To set the time and date

R

e zone

Day 🗲

To do this:

Reset the seconds to 00

Specify the UTC offset

Change the year Change the month or day

Change the hour or minutes

Toggle between Daylight Saving Time (OR) and Standard Time (OFF)

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

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

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

To toggle the Timekeeping Mode time between DST and Standard Time

screen

Home t

described below

0.5-hour units 4. Press (A) to exit the setting screen

Screen

OF F

+ 90

10:58

2009

6-30

50

(A)

time and date

Read This Before You Set the Time and Date ! The times displayed in the Timekeeping Mode and World Time Mode are linked. Because of this, make sure you select a Home Time zone before you set the time and date

Do this

Press (D)

Press (D)

Use (D) (+) and (B) (-).

Use (D) (+) and (B) (-).

below to select other settings

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

- 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 monton to 11:59 a.m.
 With the 24-hour format, times are displayed in the range of 0:00 to 23:59, without any indicator.
 The 12-hour/24-hour timekeeping format you select in the Timekeeping Mode is applied in all other modes.

- applied in all other modes.The P indicator is not displayed when the current time is displayed in other modes.

Stopwatches

Your watch has two stopwatch modes:Stopwatch Mode (ST1) and Stopwatch Mode (ST2). Both stopwatch modes let you measure elapsed time, split times, and two finishes. The Stopwatch Mode (ST1) includes Auto-Start.

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- the display clears the split time and returns to elapsed time measurement.
- Stopwatch Mode (ST1) or Stopwatch Mode (ST2), which you enter by pressing ©.

To measure times with the stopwatch (Stopwatch Mode (ST1) and Stopwatch Mode (ST2))

Elapsed Time D Start	©	D Re-start	©	(A) Clear
Split Time	Split (SPL displayed)	A Split release	D Stop	(A) Clear
D Start	Split First runner finishes. Display time of first runner.	D Stop Second runner finishes.	A Split release Display time of second runner.	(A) Clear

About Auto-Start (Stopwatch Mode (ST1))

With Auto-Start, the watch performs a 5-second countdown, and stopwatch operation starts automatically when the countdown reaches zero. During the final three seconds of the countdown, a beeper sounds with each second.

To use Auto-Start (ST1)



- While the stopwatch screen is showing all zeros in the Stopwatch Mode, press (A).
 This displays a 5-second countdown screen.
 To return to the all zeros screen, press (A) again.
 Press (D) to start the countdown.
- When the countdown reaches zero, a tone sounds and
- Pressing (D) while the Auto-Start countdown is in progress starts the stopwatch immediately.

In the Timekeeping Mode, hold down (A) until the seconds start to flash, which indicates the setting DST indicator B A DSTON-10:55⁵⁵⁷

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Daylight Saving Time (DST)

- screen. 2. Press © to display the DST setting screen. 3. Press © to toggle between Daylight Saving Time (Gr displayed) and Standard Time (GF F displayed). 4. Press (A) to exit the setting screen. The DST indicator appears on the display to indicate that Daylight Saving Time is turned on.

A ST1 10:58 00 00 cc Mir



- Innisnes. The Stopwatch Mode (ST1) Includes Auto-Start. A display range of the stopwatch is 999 hours, 59 minutes, 59.99 seconds. A stopwatch continues to run, restarting from zero after it reaches its limit, until you stop it. A stopwatch measurement operation continues even if you exit a Stopwatch Mode. Exiting a Stopwatch Mode while a split time is frozen on the display clears the cenit time and returns to elapsed.
 - All of the operations in this section are performed in the
- 1/100 se cond

In the Timekeeping Mode, hold down (A) until the seconds start to flash, which indicates the setting screen. Press (C) to move the flashing in the sequence shown

Month Year Minutes 3. When the setting you want to change is flashing, use and to change it as

Seconds DST Home Time Zone Hour



Timekeeping Mode time *During stopwatch elapsed time measurement, shows the number of hours elapsed.

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Countdown Timer



The countdown timer can be set within a range of one minute to 24 hours. An alarm sounds when the countdown reaches zero. The countdown timer also has an auto

repeat feature and a progress beeper that signals the progress of the countdown. All of the operations in this section are performed in the Countdown Timer Mode, which you enter by pressing

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

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

 See "To configure the countdown timer" for information about setting up the timer

Auto-repeat When auto-repeat is turned on, the countdown restarts automatically from the countdown start time when it reaches zero. When auto-repeat is turned off, the countdown stops when it reaches zero and the

display shows the original countdown start time. • Pressing ⁽ⁱ⁾ while an auto-repeat countdown is in progress pauses the current countdown. You can resume the auto-repeat countdown by pressing ⁽ⁱ⁾, or you can press ⁽ⁱ⁾ to reset to the countdown time starting value.

Countdown Timer Beeper Operations

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

- Countdown End Beeper The countdown end beeper lets you know when the countdown reaches zero. When the progress beeper is turned off, the countdown end beeper sounds for about 10 seconds, or until you press any button to stop it. When the progress beeper is turned on, the countdown end beeper sounds for about 0 accord about one second.

Progress Beeper

When the progress beeper is turned on, the watch uses beeps to signal countdown progress as described below. • Starting from five minutes before the end of the countdown, the watch emits four

- Starting from five minutes before the end of the countdown, the watch emits four short beeps at the top of each countdown minute.
 30 seconds before the end of the countdown, the watch emits four short beeps.
 The watch emits a short beep for each of the last 10 seconds of the countdown.
 If the countdown start time is six minutes or greater, the watch emits a short beep for each of the five minute point is reached. Four
- short beeps are emitted to signal when the five-minute point is reached.

To configure the countdown timer



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

Setting	Screen	Button Operation	
Hours, Minutes	0:00	Use (D) (+) and (B) (-) to change the setting.	
Auto-repeat		Press (D) to toggle auto-repeat on (<u>rep</u>) displayed) and off (<u>b)</u> displayed).	
D			

Progress Beeper Press D to toggle the progress beeper on (DN) and off (DFF).

To use the countdown time

Press (D) while in the Countdown Timer Mode to start the



Progress Beeper Auto-repeat

Press () while in the Countdown Timer Mode to Start the countdown timer. • The countdown timer operation continues even if you exit the Countdown Timer Mode. • Press () while a countdown operation is in progress to pause it. Press () again to resume the countdown. • To stop a countdown operation completely, first pause it (by pressing ()), and then press (). This returns the countdown time to its starting value.

Alarms



You can set up to five independent multi-function alarms with hour, minutes, month, and day. When an alarm is turned on, the alarm tone sounds when the alarm time is reached. One of the alarms is a snooze alarm, while the

- You can also turn on an Houry Time Signal that causes the watch to beep twice every hour on the hour. There are five alarm screens numbered FL1, AL2,
- AL3, and AL4 for the one-time alarm, a snooze alarm screen indicated by SNZ. The Hourly Time
- Signal screen is indicated by SIG.
 All of the operations in this section are performed in the Alarm Mode, which you enter by pressing ©.

Alarm Types

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

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

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

1-Month alarm

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

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

To set an alarm time



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



- To set a one-time alarm, display an alarm screen AL1, AL2, AL3, or AL4. To set the snooze alarm, display the SNZ screen.
 The snooze alarm preparts every five minutes.
 After you select an alarm, hold down (a) until the hour setting of the alarm time there are alarm.
- starts to flash, which indicates the setting screen
- This operation turns on the alarm automatically.
 Press © to move the flashing in the sequence shown below to select other settings.

->	Hour	┝╼	Minutes	->	Month	->	Day	
								· .

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

Screen	To do this:	Do this:
12:00	Change the hour and minutes	Use () (+) and () (-). • With the 12-hour format, set the time correctly as a.m. or p.m. (P indicator).
	Change the month and day	 To set an alarm that does not include a month and/or day, set - for each setting.

5. Press A to exit the setting screen.

Alarm Operation

The alarm tone sounds at the preset time for 20 seconds, regardless of the mode the watch is in. In the case of the snooze alarm, the alarm operation is performed a total of seven times, every five minutes, until you turn the alarm off.

- Timekeeping Mode time. To stop the alarm tone after it starts to sound, press any button
- To stop the adaptinit ofter after in starts to sound, press any bottom. Performing any one of the following operations during a 5-minute interval between snoze alarms cancels the current snoze alarm operation. *Displaying the Timekeeping Mode setting screen Displaying the SNZ setting screen*

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

To turn an alarm on and off B SNZ 1:00 ИD

> ze alarm indicato

> > SIG <u>n n 1. 1. 1. 1</u>

A

- FL-4) displays the alarm on indicator on its Alarm Mode screen.
- In all modes, the alarm on indicator is shown for any
- In an induse, the adam of indicator is shown for any alarm that is currently turned on.
 The alarm on indicator flashes while the alarm is sounding.
 The snocze alarm indicator flashes while the snocze alarm
- is sounding and during the 5-minute intervals between alarms.

To turn the Hourly Time Signal on and off 1. In the Alarm M B

- 1. In the Alarm Mode, use (1) to select the Hourly Time Signal (SIG). 2. Press (A) to toggle it on and off.
- - The Hourly Time Signal on indicator is shown on the display in all modes while this function is turned on.
- :00 /D . Hourly time on indicator signal

. . In the Alarm Mode, use ① to select an alarm. . Press ④ to toggle it on and off. Turning on a alarm (SNZ, 워드 1, 워드코, 워드크, or 2



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World Time

City cod +WTA B NYC 6-30 8:58 so C രി rrent time and date ir

the zone of the selected city code

To toggle a city code time l



World Time shows the current time in 48 cities (29 time zones) around the world. • All of the operations in this section are performed in the World Time Mode, which you enter by pressing C

To view the time for another city code In the World Time Mode, press (1) to scroll eastwardly through city codes. • For full information about city codes, see the "City Code

- Table". If the current time for a city is wrong, check your Timekeeping Mode time and time zone settings and make necessary changes.
- 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
- (inite 201e) whites standard inite/Dayight Saving Time setting you want to change.
 2. Hold down (A) for about one second to toggle Daylight Saving Time (DST displayed) and Standard Time (DST not displayed).
 The DST indicator is 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
- Note that the DST/Standard Time setting affects only the currently displayed city code. Other city codes are not affected

Illumination



Auto light switch indicator

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

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

To illuminate the display

- In any mode, press (a) to turn on illumination. The above operation turns on illumination regardless of the current auto light switch
- You can use the procedure below to select either 3 seconds or 5 seconds as the illumination duration. When you press (B), the illumination will remain on for about 3 seconds or 5 seconds, depending on the current illumination duration setting.

To specify the illumination duration

In the Timekeeping Mode, hold down

 antil the seconds start to flash, which indicates the setting



While the seconds are flashing, press (B) to toggle the setting between 3 seconds (*) and 5 seconds (*). Press (A) to exit the setting screen.

About the Auto Light Switch

While the auto light switch is enabled, illumination turns on whenever you position your wrist as described below in any mode.

Moving the watch to a position that is parallel to the ground and then tilting it towards you at 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 watch using the auto light switch. Be especially careful when running or engaged in any other activity that can result in accident or injury. Also take care that sudden illumination by the auto light switch does not startle or distract others accord using the second start of the second start
- when you are wearing the watch, make sure that its auto light switch is turned off before riding on a bicycle or operating a motorcycle or any other motor vehicle. Sudden and unintended operation of the auto light switch can create a distraction, which can result in a traffic accident and serious personal injury.

- To turn the auto light switch on and off In the Timekeeping Mode, hold down (B) for about three seconds to toggle the auto light switch on (auto light switch indicator displayed) or off (auto light switch indicator not displayed). The auto light switch indicator is on the display in all modes while the auto light switch in diversed on
- switch is turned on.In order to protect against running down the battery, the auto light switch turns off
- automatically approximately six hours after you turn it on.

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

Graphic Area

The information shown in the graphic area depends on the current mode.



• The following table shows the information that appears in graphic area.

Mode	Graphic Area
Timekeeping	Timekeeping Mode seconds
World Time	Timekeeping Mode seconds
Stopwatch (ST1 and ST2)	Sweeps from left to right
Countdown Timer	Sweeps from right to left
Alarm	No indication

Flash Alert



When Flash Alert is turned on, the illumination flashes for the alarms, the Hourly Time Signal, the countdown alarm, and stopwatch (ST1) auto start.



To turn Flash Alert on and off

- To turn Flash Alert on and off In the Timekeeping Mode, hold down (1) for about three seconds to toggle Flash Alert on (Flash Alert indicator displayed) or off (Flash Alert indicator not displayed). Illumination flashes twice when you turn Flash Alert on and once when turn Flash Alert off. While Flash Alert is turned on, the Flash Alert indicator complexee the disedue in all modes.
- remains on the display in all modes. Note that pressing (D) to toggle Flash Alert on or off will also switch timekeeping between 12-hour and 24-hour
- format.

Button Operation Tone



The button operation tone sounds any time you press one of the watch's buttons. You can turn the button operation tone on or off as desired. Even if you turn off the button operation tone, the alarms, the Hourly Time Signal, the countdown alarm,

and stopwatch auto start all operate normally

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

- Holding down (C) to turn the button operation tone on or off also causes the watch's
- Holding down go to fail the state of th turned off

Auto Return Features

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

Scrolling

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

Initial Screens

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

- Timekeeping
 Resetting the seconds to GG 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 GG without changing the minutes.
 The year can be set in the range of 2000 to 2099.
- The watch's built-in full automatic calendar makes allowances for different month lengths and leap years. Once you set the date, there should be no reason to change it except after you have the watch's battery replaced.

World Time

All World Time Mode times are calculated from the current Home City time in the

- Timekeeping Mode using UTC offset values.
 The seconds count of the World Time is synchronized with the seconds count of the Timekeeping Mode.
 The UTC offset is a value that indicates the time difference between a reference
- point in Greenwich, England and the time zone where a city is located. The letters "UTC" is the abbreviation for "Coordinated Universal Time", which is the world wide scientific standard of timekeeping. It is based upon carefully maintained atomic (cesium) clocks that keep time accurately to within microseconds. Leap seconds are added or subtracted as necessary to keep UTC in sync with the Earth's

Illumination Precautions

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

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



 Illumination may not turn on if the factor light switch relative.
 Illumination may not turn on if the face of the watch is more than 15 degrees above or below parallel. Make sure that the back of your hand is parallel to the ground.
 Illumination turns off after the prese illumination duration (see "To specify the illumination duration"), even if you keep the watch pointed towards your face.
 Static electricity or magnetic force can interfere with proper operation of the auto light switch. If illumination does not turn on, try moving the watch back to the starting position (parallel with the ground) and then tilt it back towards you again. If this does not work, drop your arm all the way down so it hangs at your side, and then arm all the way down so it hangs at your side, and then bring it back up again.

Under certain conditions, illumination may not turn on until about one second after you turn the face of the watch towards you. This does not necessarily indicate malfunction of the auto light switch.
You may notice a very faint clicking sound coming from the watch when it is shaken back and forth. This sound is caused by mechanical operation of the auto light switch, and does not indicate a problem with the watch.

Specifications

Accuracy at normal temperature: ±15 seconds a month

Accuracy at nonline temperature: ±15 seconds a month Timekeeping: Hour, minutes, seconds, p.m. (P), month, day, day of the week Time format: 12-hour and 24-hour Calendar system: Full Auto-calendar pre-programmed from the year 2000 to 2099 Other: Home Time zone (selectable in 0.5-hour increments in the range of -12.0 to +14.0); Daylight Saving Time (summer time)/Standard Time

+14.0): Daylight caving time (control, and point) Stopwatch (ST1) Measuring unit: 1/100 second Measuring capacity: 999:59'59.99" Measuring modes: Elapsed time, split time, two finishes Other: Auto-Start

Stopwatch (ST2)

topwatch (S12) Measuring unit: 1/100 second Measuring capacity: 999:59'59.99'' Measuring modes: Elapsed time, split time, two finishes

Countdown Timer

Measuring unit: 1 second

Input range: 1 minute to 24 hours (1-minute increments and 1-hour increments) Other: Auto-repeat timing; Progress beeper Alarms: 5 multi-function* alarms (four one-time alarms; one snooze alarm);

Hourly Time Signal "Alarm, date alarm, 1-month alarm, monthly alarm "Alarm type: Daily alarm, date alarm, 1-month alarm, monthly alarm World Time: 48 cities (29 time zones) Other: Daylight Saving Time/Standard Time

Illumination: EL (electro-luminescent panel); Selectable illumination duration; Auto Light Switch Other: Button operation tone on/off, Flash alert, Low temperature resistance $(-20^\circ\text{C}/\text{-}4^\circ\text{F})$

Battery: One lithium battery (Type: CR2025) Approximately 3 years on type CR2025 (20 seconds of alarm operation per day (with flash alert), one countdown timer operation (with progress beeper and flash alert) per week, one stopwatch operation (with auto start and flash alert) per week, 5 seconds of illumination per day)

City Code Table

City Code	City	UTC Offset/ GMT Differential	City Code	City	UTC Offset/ GMT Differential
PPG	Pago Pago	-11	NIC	Nicosia	+2
HNL	Honolulu	-10	HEL	Helsinki	
ANC	Anchorage	-9	CAI	Cairo	
LAX	Los Angeles	-8	JRS	Jerusalem	
DEN	Denver	-7	MOW	Moscow	+3
MEX	Mexico City	-6	JED	Jeddah	
CHI	Chicago		THR	Tehran	+3.5
NYC	New York	-5	DXB	Dubai	+4
CCS*	Caracas	-4	KBL	Kabul	+4.5
YYT	St. Johns	-3.5	KHI	Karachi	+5
RIO	Rio De Janeiro	-3	DEL	Delhi	+5.5
BUE	Buenos Aires		DAC	Dhaka	+6
RAI	Praia	-1	RGN	Yangon	+6.5
LON	London	0	BKK	Bangkok	+7
DKR	Dakar		SIN	Singapore	+8
MAD	Madrid	+1	HKG	Hong Kong	
PAR	Paris		BJS	Beijing	
MCM	Monte Carlo		PER	Perth	
ROM	Rome		SEL	Seoul	+9
BER	Berlin		TYO	Tokyo	1
STO	Stockholm		ADL	Adelaide	+9.5
ATH	Athens	+2	SYD	Sydney	+10
JNB	Johannesburg		NOU	Noumea	+11
ANK	Ankara		WLG	Wellington	+12

Based on data as of March 2008

based on data as of March 2008.
 The rules governing global times (UTC offset and GMT differential) and summer time are determined by each individual country.
 In December 2007, Venezuela changed its offset from -4 to -4.5. Note, however, that this watch displays an offset of -4 (the old offset) for the CCS (Caracas, Venezuela) city code.

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