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You can read the recommendations in the user guide, the technical guide or the installation guide for CASIO 4334. You'll find the answers to all your questions on the CASIO 4334 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

> **User manual CASIO 4334**
> **User guide CASIO 4334**
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Manual abstract:

, LTD. @@· For the sake of simplicity, the sample displays in this manual do not show the analog hands of the watch. · Depending on the model of your watch, display text appears either as dark figures on a light background, or light figures on a dark background. All sample displays in this manual are shown using dark figures on a light background. · 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. Countdown Timer Mode General Guide · Press C to change from mode to mode. · In any mode, press L to illuminate the display. Stopwatch Modes Press C. TimeKeeping Mode Recall Mode This watch has two stopwatch modes. See "Stopwatches" for more information. Hand Setting Mode World Time Mode Alarm Mode Timekeeping Thermometer Month Day Day of week Use the Timekeeping Mode to set and view the current time and date. This watch features separate digital and analog timekeeping. The procedures for setting the digital time and analog time are different. · See "Thermometer" for details about the thermometer.

Daylight Saving Time (DST) Setting Daylight Saving Time (summer time) advances the time setting by one hour from Standard Time. Remember that not all countries or even local areas use Daylight Saving Time. Setting the Digital Time and Date This watch is preset with UTC differential values that represent each time zone around the globe. Before setting the digital time, be sure to first set the UTC differential for your Home Time, which is the location where you normally will be using the watch. · Note that World Time mode times are all displayed based on the time and date settings you configure in the Timekeeping Mode.

llll To set the digital time and date 1. @@· Be sure to configure the correct UTC differential for your Home Time before configuring any other lll l Timekeeping Mode settings. · See the "UTC Differential/City Code List" for information about the UTC differential settings that are supported. Seconds 2. Press C to move the flashing in the sequence shown below to select other settings. llll llll Seconds Temperature Unit On/Off status Setting the Analog Time Perform the procedure below when the time indicated by the analog hands does not match the time of the digital display. To adjust the analog time 1. In the Timekeeping Mode, press C 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 D to adjust the analog setting. · Press D once to advance the hands 20 seconds. · Hold down D to advance the hands at high speed. DST UTC Differential Temperature Sensor Calibration Hour Day Minutes Month 12/24-Hour Format Year 3. When the setting you want to change is flashing, use D and B to change it as described below. Screen: To do this: Do this: Reset the seconds to 00 Toggle between Daylight Saving Time (ON) and Standard Time (OF) Specify the UTC differential Change the hour or minutes Press D. Press D. Use D (+) and B (). · To lock high speed hands movement, hold down D to start it and then press B to lock.

The hands will continue to advance for one 12-hour cycle or until you press any button to stop it. High-speed hand movement also will stop automatically after the time advances 12 hours or if an alarm (daily alarm, Hourly Time Signal, or countdown beeper) starts to sound. 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 C. Stopwatches Use D (+) and B (). Toggle between 12-hour (12H) and Press D. 24-hour (24H) timekeeping Use D (+) and B (). Change the year Change the month or day · The UTC differential setting range is 12.

0 to +14.0, in 0.5-hour units. · For information about settings other than the time and date, see the following. Temperature Sensor Calibration: "Thermometer" Temperature Unit: "Thermometer" 4. Press A to exit the setting screen. · The 12-hour/24-hour timekeeping format you select in the Timekeeping Mode is applied in all modes. · The day of the week is displayed automatically in accordance with the date (year, month, and day) settings. · When DST is turned on, the UTC differential setting range is 11.0 to +15.

0, in 0.5hour units. · Any time the seconds setting is changed, the analog hands are adjusted accordingly. · See "Daylight Saving Time (DST) Setting" below for details about the DST setting. Your watch has two stopwatch modes: a Single Stopwatch Mode and a Dual Stopwatch Mode. Both stopwatch modes measure times in 1/100-second units for the first hour, and in 1-second units after that. In both stopwatch modes, timing is possible up to 99 hours, 59 minutes, 59.99 seconds. The Single Stopwatch Mode (ST1) displays the total elapsed time and lap times for a single vehicle or runner. The Dual Stopwatch Mode (ST2) can be used to measure elapsed time for two vehicles or runners at the same time, including separate lap times and the time differential between vehicles or runners.

The data produced by either stopwatch mode is stored automatically in watch memory, for later recall when you need it. · When the elapsed time being kept by either of the stopwatches exceeds 99 hours, 59 minutes, 59.99 seconds, the displayed time returns to all zeros and time measurement continues from there. Elapsed time measurement continues until you reset it to all zeros. · All of the operations in this section are performed in the stopwatch modes, which you enter by pressing C.

lll lll l ll lll lll llll Seconds Hour : Minutes PM indicator To toggle the Timekeeping Mode digital time between DST and Standard Time 1.In the Timekeeping Mode, hold down A until the seconds start to flash, which indicates the setting DST indicator screen. 2. Press C once and the DST setting screen appears. lll 3.

Press D to toggle between Daylight Saving Time (ON displayed) and Standard Time (OF displayed). 4. Press A to exit the setting screen. l · The DST indicator appears on the Timekeeping, Alarm, and Hand Setting Mode screens to indicate that Daylight Saving Time is turned on. llll llll llll llll llll l ll 1 Operation Guide 4334 To select the Single Stopwatch Mode or Dual Stopwatch Mode In the Stopwatch Mode, press A to toggle the Single Stopwatch Mode and the Dual Stopwatch Mode. · You cannot toggle between the Single Stopwatch Mode and Dual Stopwatch Mode while an elapsed time operation is in progress. After pressing A to reset the elapsed time to all zeros, press A again to toggle between stopwatch modes.

· The indicator "ST1" indicates the Single Stopwatch Mode, while "ST2" indicates the Dual Stopwatch Mode. Remaining free records Recalling Stopwatch Data Log creation date You can use the Recall Mode to recall and delete stopwatch data stored in memory. · Your watch automatically creates logs for storage of stopwatch data in memory.

For information about using logs, see "Managing Memory Data". Press A. Single Stopwatch Mode Screen Stopwatch mode indicator Dual Stopwatch Mode Screen Log number Stopwatch mode in which the recalled log data was measured To recall stopwatch log data 1. Enter the Recall Mode. · The title screen of the newest log appears first when you enter the Recall Mode. 2. Use the A button to scroll through log title screens until the one for the log you want to view is on the display. · Logs are numbered from 01 (oldest) to 50. 3. Press D (+) or B () to view the log data.

L · Both the Single Stopwatch Mode screen and the Dual Stopwatch Mode screen show the number of free memory records available for storing data. The watch's memory can hold up to 50 records total, including both Single Stopwatch Mode and Dual Stopwatch Mode records. L Log title screen Recalled log data measured in the Single Stopwatch Mode (ST1) Best lap indicator Lap number of best lap Lap number Lap time Using the Single Stopwatch Mode The Single Stopwatch Mode displays the total elapsed time and lap times for a single vehicle or runner. Press D. * L L L L L Press B.

Best lap Total elapsed time ll ll ll ll Recalled log data measured in the Dual Stopwatch Mode (ST2) Best lap indicator Lap number of best lap (Measurement B) Best lap (Measurement B) Using the Dual Stopwatch Mode The Dual Stopwatch Mode can be used to measure elapsed time for two vehicles or runners at the same time, including separate lap times and the time differential between vehicles or runners. L L · During the first hour, the stopwatch displays elapsed time in minutes, seconds, and 1/100 second. After the first hour, the display changes to shows hours, minutes, and seconds. · Use the Recall Mode to view data in memory. 3.

To stop elapsed time measurement and reset, press A. L Press D. * One second later Press B. Lap number of best lap (Measurement A) L Best lap (Measurement A) Lap number Lap time To perform a Dual Stopwatch Mode operation The table below shows how to time two vehicles or Measurement B runners (Measurement A and Measurement B). · The lower display shows Measurement A, while the upper display shows Measurement B. · In the Dual Stopwatch Mode, you can start timing from either Measurement A or Measurement B. L L Lap time * Measurement A The best lap time is for the best time in the newest log only. The Best Lap Time screen is the one that has the best lap indicator. Start first elapsed time. Measurement A Press D.

Measurement B Press B. Measurement B Lap Time Lap number ll Display lap time screen. Press D. Press B. Start other elapsed time. Press B. Press D. Display lap time of other elapsed time. Press B. Press D.

Reset elapsed time to all zeros. Press A. To delete stopwatch data 1. In the Recall Mode, use A to scroll through log title screens until the one for the log you want to delete is on the display. · Displaying lap time data (not the log title screen), deleting the data also will delete the log that contains the data.

2. Hold down B and D until the watch beeps and "CLR" stops flashing on the display. · This will delete all of the data in the currently selected log. · Deleting the newest log also will delete the best lap time data. ll l ll lll ll ll ll lll l ll ll Measurement A Lap Time Lap time screen Measurement B Lap Time lll lll ll Measurement A and Measurement B differential · The lap number for the current displayed lap time (A or B) appears in the center left of the display, and the applicable lap time appears in the upper or lower display.

The other display (upper or lower) shows elapsed time measurement. · After about 10 seconds, the display will change automatically to timing of the next lap. · Each press of D or B during elapsed time measurement stores the applicable lap number and lap time in memory. · Lap numbers are displayed in the range of 01 to 99. After lap 99, pressing D does not display a lap time (elapsed time continues without stopping). · After starting Measurement A or Measurement B elapsed time measurement and then starting the other time's elapsed time measurement displaying a lap time for one of the times will display the other time's lap time and the difference between Measurement A and Measurement B. After about 5 seconds, the display will change automatically to timing of the next lap. · After you press one of the buttons own Timer Mode screen while this function is turned on. · Frequent use of auto-repeat and the alarm can run down battery power. Auto light switch on 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 towards your face. · The auto light switch must be turned on (indicated by the auto light switch on indicator) for it to operate. @ @ @ @ @ @ @ @ @ @ @ @ @ · This operation turns on the alarm automatically. 2. @ @ 3. While a setting is flashing, use D (+) and B () to change it. @ @ (A indicator) or p.m. (P indicator). 4. @ 2. @ @ @ @ · Note that changing the Daylight Saving Time for any city code causes the setting to be applied to all city codes. l ll To turn the auto light switch on and off In the Timekeeping Mode, hold down D for about three seconds to toggle the auto displayed) and off (not displayed). light switch on ( ) is on the display in all modes while the auto · The auto light switch on indicator (light switch is turned on. · In order to protect against running down the battery, the auto light switch will turn off automatically about six hours after you turn it on.

Repeat the above procedure to turn the auto light switch back on if you want. · Illumination is always disabled (regardless of the current auto light switch setting) while an alarm is sounding. Reference Alarm Off Signal Off Alarm On Signal Off Alarm Off Signal On Alarm On Signal On 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. Stopwatch Modes The following describes how to perform data storage and measurement in the stopwatch modes.

Alarm Off Signal Off Alarm On Signal Off Alarm Off Signal On Alarm On Signal On synchronized with the time being kept in the Timekeeping Mode.

If you feel that there is an error in any World Time Mode time, check the UTC differential of your Home Time and the current setting of the Timekeeping Mode time. · Select a city code in the World Time Mode to display the current time in any particular time zone around the globe. See the "UTC Differential/City Code List" for information about the UTC differential settings that are supported. · All of the operations in this section are performed in the World Time Mode, which you enter by pressing C. Managing Memory Data Pressing the D button in the Single Stopwatch Mode or the D or B button in the Dual Stopwatch Mode to start a new elapsed time measurement operation creates a new log in memory. A new log is created each time you start a new elapsed time measurement operation. A log contains a log title screen, and records of all the lap times that are recorded during elapsed time measurement. · The capacity of the watch's memory is 50 records. · If you are adding records to the only log in memory and watch memory becomes full, adding another record causes the oldest record in the log to be deleted automatically to make room for the new record.

· If you are adding records to a log when there are multiple logs in memory and watch memory becomes full, adding another record causes the oldest log in memory and all of its records to be deleted automatically to make room for new records. How stopwatch data is stored The following table shows how stopwatch data is stored when you perform stopwatch button operations. Single Stopwatch Mode data Data Storage Description Stopwatch Button Operation From all-zeros, press D to start. Press D to display lap time. Press A to stop elapsed time measurrement and reset. Creates a new log (ST1). Stores the date the button was pressed, and the log number. Creates a new record with each button operation. Stores the lap time and total elapsed time at the point the button is pressed. Resets the elapsed time to all zeros without recording data.

Dual Stopwatch Mode data Data Storage Description Stopwatch Button Operation Creates a new log (ST2). Stores the date the button was From all-zeros, press D or B to pressed, and the log number. start. Press D or B to Creates a new record with each button operation. Stores the lap display lap time. time the point the button is pressed. Press A to stop elapsed time measurement and reset. Resets the elapsed time to all zeros without recording data. 3 Operation Guide 4334 · A reading is taken during each even-numbered minute. · You can select either Celsius (°C) or Fahrenheit (°F) units for the thermometer screen.

See "To specify the temperature display unit" for more information. · The thermometer screen displays temperature values in 0.1°C units (or 0.2°F units). · The display range of the thermometer screen is 10.0°C to 60.0°C (or 14.0°F to 140.0°F). · You can calibrate temperature sensor if you feel that the displayed temperature values are not correct.

See "Temperature Sensor Calibration" for more information. Important! · Temperature measurements are affected by your body temperature (while you are wearing the watch), direct sunlight, and moisture. To achieve more accurate temperature measurement, remove the watch from your wrist, place it in a well ventilated location out of direct sunlight, and wipe all moisture from the case. It takes approximately 20 to 30 minutes for the case of the watch to reach the actual surrounding temperature. Thermometer Illumination Precautions · The electro-luminescent panel that provides illumination loses power after very long use. · Illumination may be hard to see when viewed under direct sunlight. · The watch may emit an audible sound whenever the display is illuminated. This is due to vibration of the EL panel used for illumination, and does not indicate malfunction. · Illumination turns off automatically whenever an alarm sounds. · Frequent use of illumination runs down the batteries.

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. More than 15 degrees too high Temperature Sensor Calibration The temperature sensor built into the watch is calibrated at the factory and normally requires no further adjustment. If you notice serious errors in the temperature readings produced by the watch, you can calibrate the sensor to correct the errors.

Important! Calibrating the temperature sensor can incorrectly result in incorrect readings. read The following carefully before doing anything. · Compare the readings produced by the watch with those of another reliable and accurate thermometer. · If adjustment is required, remove the watch from your wrist and wait for 20 or 30 minutes to give the temperature of the watch time to stabilize. · 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 keep the watch pointed towards your face. To calibrate the temperature sensor 1. @@2. Press C nine times to display the temperature sensor calibration screen. ll l 3. Use D (+) and B () to change the calibration value. · You can change the value in 0.1ºC (0.2ºF) steps, in a range of ±10ºC (±18ºF).

The calibration value shows Calibration value ``--.-'' when the setting is outside the allowable range. l ll · Static electricity or magnetic force can interfere with proper operation of the auto light switch. If illumination does not turn on, try moving the watch back to the starting position (parallel with the ground) and then tilt it back toward you again. If this does not work, drop your arm all the way down so it hangs at your side, and then bring it back up again. · Under certain conditions, illumination may not turn on until about one second after you turn the face of the watch towards you. This does not necessarily indicate malfunction of the auto light switch. · You may notice a very faint clicking sound coming from the watch when it is shaken back and forth. This sound is caused by mechanical operation of the auto light switch, and does not indicate a problem with the watch. ll UTC Differential/City Code List City Code PPG HNL ANC YVR SFO LAX DEN MEX CHI MIA NYC CCS YYT RIO RAI LIS LON BCN PAR MIL ROM BER ATH JNB IST CAI JRS MOW JED THR DXB KBL KHI MLE DEL DAC RGN BKK JKT* SIN* HKG BJS SEL TYO ADL GUM SYD NOU WLG TBU · To return the calibration value to its default (no calibration, indicated by ``- -''), press D and B at the same time.

@@@@4. @@@@2. Press C 10 times to display the temperature unit setting screen. l ll ll 3. Use D to switch between Celsius (°C) and Fahrenheit (°F). · The initial factory default and the initial default after battery replacement is Celsius (°C). Temperature unit l ll l ll 4. After configuring the setting you want, press A to exit the setting screen. · The temperature display unit setting you select also is applied to temperature values that are already stored in memory. Auto Return Feature · If you leave a screen with flashing digits on the display for two or three minutes without performing any operation, the watch saves any settings you have made up to that point and exits the setting screen automatically.

· The watch will change to the Timekeeping Mode automatically if you do not perform any operation in the Recall Mode, Alarm Mode, or Hand Setting Mode for two or three minutes. Button Operation Tone In any mode (except when a setting screen is on the display), hold down C 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. Data and Setting 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 through the data at high speed. · 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. · With the 12-hour format, the P (PM) indicator appears on the display for times in the range of noon to 11:59 p.m.

and the A (AM) 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. · 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 batteries replaced. · The UTC differential is a value that indicates the time difference between a reference point in Greenwich, England and the time zone where a city is located. · 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 rotation.

Timekeeping World Time · The seconds count of the World Time is synchronized with the seconds count of the Timekeeping Mode. · All World Time Mode times are calculated from the current time in the Timekeeping Mode using UTC time differential values. llll l l ll City Pago Pago Honolulu Anchorage Vancouver San Francisco Los Angeles Denver Mexico City Chicago Miami New York Caracas St. Johns Rio De Janeiro Praia Lisbon London Barcelona Paris Milan Rome Berlin Athens Johannesburg Istanbul Cairo Jerusalem Moscow Jeddah Tehran Dubai Kabul Karachi Male Delhi Dhaka Yangon Bangkok Jakarta Singapore Hong Kong Beijing Seoul Tokyo Adelaide Guam Sydney Noumea Wellington Nuku'Alofa UTC Differential 11.0 10. 0 09.0 08.0 07.0 06.0 05.

0 04.0 03.5 03.0 01.0 +00.0 Other major cities in same time zone Papeete Nome Las Vegas, Seattle/Tacoma, Dawson City Edmonton, El Paso Huston, Dallas/Fort Worth, New Orleans, Winnipeg Montreal, Detroit, Boston, Panama City, Havana, Lima, Bogota La Paz, Santiago, Port Of Spain Sao Paulo, Buenos Aires, Brasilia, Montevideo Dublin, Casablanca, Dakar, Abidjan Amsterdam, Algiers, Hamburg, Frankfurt, Vienna, Madrid, Stockholm +01.0 +02.0 Helsinki, Beirut, Damascus, Cape Town +03.0 +03.5 +04.

0 +04.5 +05.0 +05.5 +06.0 +06.5 +07.0 +08.0 +09.0 +09.5 +10.

0 +11.0 +12.0 +13.0 Kuwait, Riyadh, Aden, Addis Ababa, Nairobi Shiraz Abu Dhabi, Muscat Mumbai, Kolkata Colombo Phnom Penh, Hanoi, Vientiane Kuala Lumpur, Taipei, Manila, Perth, Ulaanbaatar Pyongyang Darwin Melbourne, Rabaul Port Vila Christchurch, Nadi, Nauru Island · Based on data as of June 2005. * The sequence of these city codes is SIN JKT.

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