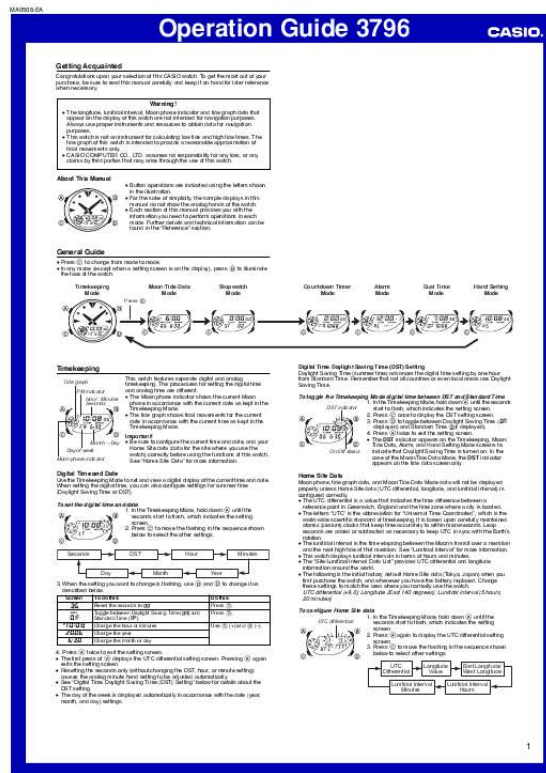




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You can read the recommendations in the user guide, the technical guide or the installation guide for CASIO 3796. You'll find the answers to all your questions on the CASIO 3796 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual CASIO 3796 User guide CASIO 3796 Operating instructions CASIO 3796 Instructions for use CASIO 3796 Instruction manual CASIO 3796



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Manual abstract:

· CASIO COMPUTER CO., LTD. assumes no responsibility for any loss, or any claims by third parties that may arise through the use of this watch. About This Manual · Button operations are indicated using the letters shown in the illustration. · For the sake of simplicity, the sample displays in this manual do not show the analog hands of the watch. · 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 C to change from mode to mode. · In any mode (except when a setting screen is on the display), press B to illuminate the face of the watch. Timekeeping Mode Press .

Moon/Tide Data Mode Stopwatch Mode Countdown Timer Mode Alarm Mode Dual Time Mode Hand Setting Mode Timekeeping Tide graph PM indicator Hour : Minutes Seconds This watch features separate digital and analog timekeeping. The procedures for setting the digital time and analog time are different. · The Moon phase indicator shows the current Moon phase in accordance with the current date as kept in the Timekeeping Mode. · The tide graph shows tidal movements for the current date in accordance with the current time as kept in the Timekeeping Mode. Important! · Be sure to configure the current time and date, and your Home Site data (data for the site where you use the watch) correctly before using the functions of this watch. See "Home Site Data" for more information. Digital Time Daylight Saving Time (DST) Setting Daylight Saving Time (summer time) advances the digital time setting by one hour from Standard Time. Remember that not all countries or even local areas use Daylight Saving Time. Month Day Day of week Moon phase indicator To toggle the Timekeeping Mode digital time between DST and Standard Time 1. In the Timekeeping Mode, hold down A until the seconds DST indicator start to flash, which indicates the setting screen.

2. Press C once to display the DST setting screen. 3. Press D to toggle between Daylight Saving Time (ON displayed) and Standard Time (OF displayed). 4. Press A twice to exit the setting screen. · The DST indicator appears on the Timekeeping, Moon/ Tide Data, Alarm, and Hand Setting Mode screens to indicate that Daylight Saving Time is turned on. In the On/Off status case of the Moon/Tide Data Mode, the DST indicator appears on the tide data screen only. Digital Time and Date Use the Timekeeping Mode to set and view a digital display of the current time and date. When setting the digital time, you can also configure settings for summer time (Daylight Saving Time or DST).

Home Site Data Moon phase, tide graph data, and Moon/Tide Data Mode data will not be displayed properly unless Home Site data (UTC differential, longitude, and lunital interval) is configured correctly. · The UTC differential is a value that indicates the time difference between a reference point in Greenwich, England and the time zone where a city is located. · The letters "UTC" is the abbreviation for "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. · The lunital interval is the time elapsing between the Moon's transit over a meridian and the next high tide at that meridian. See "Lunital Interval" for more information. · This watch displays lunital intervals in terms of hours and minutes. · The "Site/Lunital Interval Data List" provides UTC differential and longitude information around the world. · The following is the initial factory default Home Site data (Tokyo, Japan) when you first purchase the watch, and whenever you have the battery replaced.

Change these settings to match the area where you normally use the watch. UTC differential (+9.0); Longitude (East 140 degrees); Lunital interval (5 hours, 20 minutes) To set the digital time and date 1. In the Timekeeping Mode, hold down A until the seconds start to flash, which indicates the setting screen. 2.

Press C to move the flashing in the sequence shown below to select the other settings. Seconds Day DST Month Hour Year Minutes 3. When the setting you want to change is flashing, use B and D to change it as described below. Screen 36 DST OF P 10:08 2006 6-30 To do this: Reset the seconds to 00 Toggle between Daylight Saving Time (ON) and Standard Time (OF) Change the hour or minutes Change the year Change the month or day Do this: Press D. Press D.

Use D (+) and B (). 4. Press A twice to exit the setting screen. · The first press of A displays the UTC differential setting screen. Pressing A again exits the setting screen. · Resetting the seconds only (without changing the DST, hour, or minute setting) causes the analog minute hand setting to be adjusted automatically. · See "Digital Time Daylight Saving Time (DST) Setting" below for details about the DST setting. · The day of the week is displayed automatically in accordance with the date (year, month, and day) settings. To configure Home Site data 1. In the Timekeeping Mode, hold down A until the UTC differential seconds start to flash, which indicates the setting screen.

2. Press A again to display the UTC differential setting screen. 3. Press C to move the flashing in the sequence shown below to select other settings. UTC Differential Longitude Value East Longitude/ West Longitude Lunital Interval Minutes Lunital Interval Hours 1 Operation Guide 3796 4. When the setting you want to change is flashing, use D and B to change it as described below. Setting UTC Differential Screen Button Operations Use D (+) and B () to change the setting. · You can specify a value in the range of 12.0 to +14.0, in 0.

5-hour units. Use D (+) and B () to change the setting. · You can specify a value in the range of 0° to 180°, in 1-degree units. Use D to switch between east longitude (E) and west longitude (). Use D (+) and B () to change the setting.

Stopwatch Hours Minutes Seconds Longitude Value East Longitude/ West Longitude Lunital Interval Hours, Minutes 1/100 second · When the digital time DST setting is on, the UTC differential can be set in a range of 11.0 to +15.0 in 0.5-hour units. 5.

Press A to exit the setting screen. The stopwatch lets you measure elapsed time, split times, and two finishes. · The display range of the stopwatch is 23 hours, 59 minutes, 59.99 seconds. · The stopwatch continues to run, restarting from zero after it reaches its limit, until you stop it. · The stopwatch measurement operation continues even if you exit the Stopwatch Mode.



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· Exiting the Stopwatch Mode while a split time is frozen on the display clears the split time and returns to elapsed time measurement. · All of the operations in this section are performed in the Stopwatch Mode, which you enter by pressing C. To measure times with the stopwatch Elapsed Time Start Split Time Start Two Finishes Start Split First runner finishes. Display time of first runner.

To toggle between 12-hour and 24-hour timekeeping In the Timekeeping Mode, press D to toggle between 12-hour timekeeping and 24-hour timekeeping. · With the 12-hour format, the P (PM) indicator appears to the left of the hour digits for times in the range of noon to 11:59 p.m. and the A (AM) indicator appears to the left of the hour digits for times in the range of midnight to 11:59 a.m. · With the 24-hour format, times are displayed in the range of 0:00 to 23:59, without any indicator. · The 12-hour/24-hour timekeeping format you select in the Timekeeping Mode is applied in all other modes. · The A and P indicators are not displayed with the Timekeeping Mode time on the Countdown Timer Mode and Dual Time Mode screens. Stop Re-start Stop Clear Split (SPL displayed) Split release Stop Clear Stop Second runner finishes. Split release Display time of second runner.

Clear 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. @@@3.

Press D to advance the analog time setting by 20 seconds. @@@@High-speed hand movement continues until you press any button. @@@4. Press A to exit the setting mode. @@@@An alarm sounds when the countdown reaches zero.

@@The alarm sounds in order to signal when the countdown reaches zero. @@@@Press D again to resume the countdown. @@@This returns the countdown time to its starting value. To set up the countdown timer 1. @@@@2. Press C to move the flashing in the sequence shown below to select other settings. Hours Minutes Auto-repeat To view the current Moon/Tide Data Mode data In the Moon/Tiyou set. @@@@When the setting you want to change is flashing, use B and D to change it as described below. Screen DST OF A 8:08 To do this: Toggle between Daylight Saving Time (ON) and Standard Time (OF) Change the hour or minutes Do this: Press D. Use D (+) and B (-).

5. Press A to exit the setting screen. · The DST indicator on the Dual Time Mode screen indicates that DST is turned on for the Dual Time Mode time. To set an alarm time 1. In the Alarm Mode, use D to scroll through the alarm screens until the one whose time you want to set is displayed. Illumination Two LEDs (light-emitting diodes) and a light guide panel illuminate the face of the watch for easy reading in the dark. · See "Illumination Precautions" for more important information. · To set a one-time alarm, display one of the screens indicated by alarm number 2 or 3. To set the snooze alarm, display the screen indicated by 1. 2.

After you select an alarm, 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 C to move the flashing in the sequence shown below to select other settings. Hour Minutes Month Day To illuminate the face of the watch In any mode (except when a setting screen is on the display), press B to illuminate the face of the watch. · You can use the procedure below to select either 1.5 seconds or 3 seconds as the illumination duration. When you press B, the illumination will remain on for about 1.5 seconds or 3 seconds, depending on the current illumination duration setting. To specify the illumination duration 1.

In the Timekeeping Mode, hold down A until the seconds start to flash, which indicates the setting screen. 2. While the seconds are flashing, press B to toggle the illumination duration between 1.5 seconds (x) and 3 seconds (). 3. Press A twice to exit the setting screen. 4. While a setting is flashing, use D (+) and B (-) to change it. · To set an alarm that does not include a month (daily alarm, monthly alarm), set x for the month. Use D and B until the x mark appears (between 12 and 1) while month setting is flashing.

· To set an alarm that does not include a day (daily alarm, 1-month alarm), set xx for the day. Use D and B until the xx mark appears (between the end of the month and 1) while the day setting is flashing. · When setting the alarm time using the 12-hour format, take care to set the time correctly as a.m. (A indicator) or p.m. (P indicator). 5. Press A to exit the setting screen. 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. Alarm Operation The alarm tone sounds at the preset time for 10 seconds, regardless of the mode the watch is in. In the case of the snooze alarm, the alarm operation is performed a total of seven times, every five minutes, until you turn the alarm off or change it to a onetime alarm. · To stop the alarm tone after it starts to sound, press any button. · Performing any one of the following operations during a 5-minute interval between snooze alarms cancels the current snooze alarm operation.

Displaying the Timekeeping Mode setting screen Displaying the alarm1 setting screen Moon Phase Indicator The Moon phase indicator of this watch indicates the current phase of the Moon as shown below. (part you cannot see) Moon Phase Indicator Moon Age Moon Phase 0.0 - 1.8 27.7 - 29.5 1.9 - 5.5 5.6 - 9.2 9.3 - 12.9 13.0-16.6 16.7- 20.

2 New First Full Moon Quarter Moon (Waxing) 20.3-23.9 24.0-27.6 Last Quarter (Waning) Moon phase (part you can see) To test the alarm In the Alarm Mode, hold down D to sound the alarm. To turn Alarms 2 and 3, and the Hourly Time Signal on and off 1. In the Alarm Mode, use D to select a one-time alarm (alarm number 2 or 3) or the Hourly Time Signal (:00). 2. Press A to toggle it on and off. · Turning on a one-time alarm (2 or 3) displays the alarm on indicator on its screen.

· Turning on the Hourly Time Signal displays the hourly time signal on indicator. Alarm on indicator · The alarm on (ALM) indicator and Hourly time Signal on (SIG) indicator are displayed in all modes. · The Moon phase indicator shows the Moon as viewed at noon from a position in the Northern Hemisphere looking south. Note that at times the image shown by the Moon phase indicator may differ from that of the actual Moon in your area. · The left-right orientation of the Moon phase is reversed when viewing from the Southern Hemisphere or from a point near the equator.

Moon Phases and Moon Age The Moon goes through a regular 29.53-day cycle.



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During each cycle, the Moon appears to wax and wane as the relative positioning of the Earth, Moon, and Sun changes. The greater the angular distance between the Moon and the Sun, the more we see illuminated. * The angle to the Moon in relation to the direction at which the Sun is visible from the Earth. This watch performs a rough calculation of the current Moon age starting from day 0 of the moon age cycle. @@In the Alarm Mode, use D to select Alarm 1. 2. @@@@The current tide is indicated by the arrow that has a tail. Site/Lunitidal Interval Data List Site Anchorage Bahamas Baja, California Bangkok Boston Buenos Aires Casablanca Christmas Island Dakar Gold Coast Great Barrier Reef, Cairns Guam Hamburg Hong Kong Honolulu Jakarta Jeddah Karachi Kona, Hawaii Lima Lisbon London Los Angeles Maldives Manila Mauritius Melbourne Miami Noumea Pago Pago Palau Panama City Papeete Rio De Janeiro Seattle Shanghai Singapore Sydney Tokyo Vancouver Wellington *Based on data as of 2003. UTC Differential Standard DST/ Time Summer Time 9.0 8.0 5.0 4.0 7.

0 6.0 +7.0 +8.0 5.0 4.0 3.0 2.0 +0.0 +1.0 +14.
 0 +15.0 +0.0 +1.0 +10.0 +11.
 0 +10.0 +11.0 +10.0 +11.0 +1.
 0 +2.0 +8.0 +9.0 10.0 9.0 +7.0 +8.0 +3.0 +4.0 +5.

0 +6.0 10.0 9.0 5.0 4.0 +0.0 +1.0 +0.0 +1.0 8.
 0 7.0 +5.0 +6.0 +8.0 +9.
 0 +4.0 +5.0 +10.0 +11.0 5.
 0 4.0 +11.0 +12.0 11.0 10.0 +9.0 +10.0 5.0 4.0 10.

0 9.0 3.0 2.0 8.0 7.0 +8.0 +9.0 +8.0 +9.0 +10.
 0 +11.0 +9.0 +10.0 8.0 7.

0 +12.0 +13.0 Longitude 149°W 77°W 110°W 101°E 71°W 58°W 8°W 158°W 17°W 154°E 146°E 145°E 10°E 114°E 158°W 107°E 39°E 67°E 156°W 77°W 9°W 0°E 118°W 74°E 121°E 57°E 145°E 80°W 166°E 171°W 135°E 80°W 150°W 43°W 122°W 121°E 104°E 151°E 140°E 123°W 175°E Lunitidal Interval 5:40 7:30 8:40 4:40 11:20 6:00 1:30 4:00 7:40 8:30 9:40 7:40 4:50 9:10 3:40 0:00 6:30 10:10 4:00 5:20 2:00 1:10 9:20 0:10 10:30 0:50 2:10 7:30 8:30 6:40 7:30 3:00 0:10 3:10 4:20 1:20 10:20 8:40 5:20 5:10 4:50 Low Tide (Rising Tide) High Tide (Falling Tide) Low Tide Tidal Movements Tides are the periodic rise and fall of the water of oceans, seas, bays, and other bodies of water caused mainly by the gravitational interactions between the Earth, Moon and Sun. Tides rise and fall about every six hours. The tide graph of this watch indicates tidal movement based on the Moon's transit over a meridian and the lunitidal interval.

The lunitidal interval differs according to your current location, so you must specify a lunitidal interval in order to obtain the correct tide graph readings. · The tide graph displayed by this watch is based on the current Moon age. Remember that the margin for error of the Moon age displayed by this watch is ±1 day. The greater the error in a particular Moon age, the greater the error in the resulting tide graph. Lunitidal Interval Theoretically, high tide is at the Moon's transit over the meridian and low tide is about six hours later. Actual high tide occurs somewhat later, due to factors such as viscosity, friction, and underwater topography. Both the time differential between the Moon's transit over the meridian until high tide and the time differential between the Moon's transit over the meridian until low tide are known as the "lunitidal interval". When setting the lunitidal interval for this watch, use the time differential between the Moon's transit over the meridian until high tide. 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 alarm, Hourly Time Signal, and Countdown Timer Mode alarm 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 C to toggle the button operation tone on (not displayed) and off (displayed). · Holding down C to turn the button operation tone on or off also causes the watch's current mode to change. · The indicator is displayed in all modes when the button operation tone is turned off. Auto Return Features · 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. · If you leave the watch in the Moon/Tide Data, Alarm or Hand Setting Mode for two or three minutes without performing any operation, it automatically changes to the Timekeeping Mode. 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. Timekeeping · 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 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. 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. 4 .



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