

AEEE Yönetmeliğine Uygundur

3452 DI

CASIO®

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CASIO®

Module No. 3452



Quick Reference Manual
Manual de referencia rápida
Manual de Referência Rápida

快速参考说明书
快速參考說明書
دليل المرجع السريع

Congratulations upon your selection of this CASIO watch.

To ensure that this watch provides you with the years of service for which it is designed, carefully read and follow the instructions in this manual, especially the information under “Operating Precautions” and “User Maintenance”.
Be sure to keep all user documentation handy for future reference.

For a full Operation Guide and Q&A information about this product, go to the website below.



<http://world.casio.com/manual/wat/>

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Bluetooth® is a registered trademark or trademark of Bluetooth SIG, Inc. of the United States.

Your watch has a Mobile Link function that allows it to communicate with a Bluetooth® mobile phone and adjust its time settings to match those of the mobile phone.

- This product complies with or has received approval under radio laws in various countries and geographic areas. Use of this product in an area where it does not conform to or where it has not been approved under applicable radio laws may be punishable under local laws. For details, visit <http://world.casio.com/ce/BLE/>.
- Use of this product inside of an aircraft is restricted by the aviation laws of each country. Be sure to obey instructions provided by flight personnel concerning use of devices such as this product.

Charging the Watch

Your watch can be charged using solar charging or a charger.

- Use the charger in the cases below.
 - To charge quickly or to bring the watch to a full charge before going out
 - When the battery indicator shows only one or two bars, or when the watch display is blank
- If the watch will not charge because you left it with a blank display for along period contact your original retailer.



Battery indicator

Solar Charging

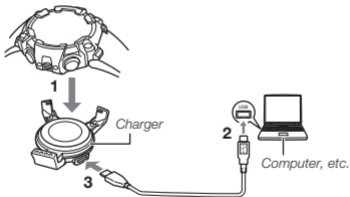
Remove the watch from your wrist and place it in a brightly lit area.

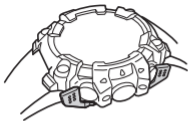
- The watch may become hot when exposed to light for charging. Take care to avoid burn injury.
- Avoid charging in locations where it is very hot.

Charging with the Charger

When charging on a desk or other work surface, keep other articles away from the charger and watch.

- Use only the charger and USB cable that comes with the watch for charging.





1. Mount the watch onto the charger.
 - Check to make sure that the watch is being securely grasped by the charger's hooks, and contact with the charger.
2. Turn on the computer or other device to be used for power, and connect the other end of the USB cable to a USB port of the device.
3. Connect the USB cable to the charger.
 - This starts charging (⚡ displayed).



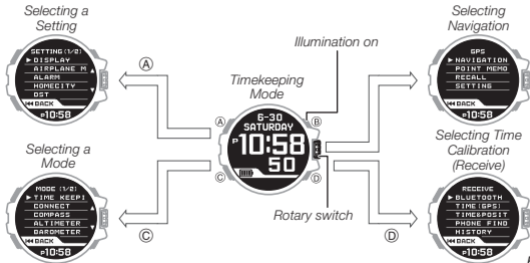
- ⚡ disappears from the display when a full charge is reached.

Important!

- Should water ever get onto the charger and/or watch while charging, immediately unplug the USB cable from the charger to stop charging.
- If charging stops part way through for some reason, remove the watch from the charger and unplug the USB cable from the charger. After confirming there are no problems, try charging again.

Using the Watch

Selecting a Function



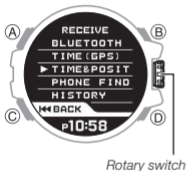
In the Timekeeping Mode, press (A), (C), or (D), or press the rotary switch and then rotate the rotary switch to select the desired function.

Press the rotary switch again to start an operation.

- To return to the Timekeeping Mode, hold down (C) for one second.
- For details, refer to the Operation Guide at the CASIO website.

Adjusting the Time Setting

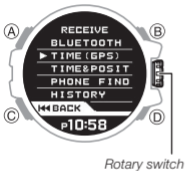
Immediately after purchasing the watch or moving to another time zone, perform a GPS signal receive operation to acquire position info.



1. In the Timekeeping Mode, press (D).
2. Rotate the rotary switch to select **"TIME&POSITION (GPS)"**.
3. While outdoors in a location where the sky above is clearly visible, point the watch's face straight up.
4. Press the rotary switch.
 - This starts GPS signal reception. After location info is acquired, **"ADJUSTED"** appears on the display along with the current time in your current location.
 - Location info acquisition takes anywhere from about 40 to 80 seconds. In some cases it can take as long as 13 minutes.

Configuring Time Settings

After acquiring location info, use the procedure below to configure time settings.



1. In the Timekeeping Mode, press (D).
2. Rotate the rotary switch to select "**TIME (GPS)**".
3. While outdoors in a location where the sky above is clearly visible, point the watch's face straight up.
4. Press the rotary switch.
 - This starts GPS signal reception. After time info is acquired, "**ADJUSTED**" appears on the display along with the current time.
 - Time adjustment takes anywhere from about 10 to 65 seconds. In some cases it can take as long as 13 minutes.

Using a Phone to Configure Time Settings

For details visit the website below.

<http://world.casio.com/manual/wat/>

GPS Navigation

You can get even more from the navigation functions of your watch by linking with the phone app. For example, you could do the actions below.

- Mountain climb using a route plan that you created with the app.
- Track your jogging route with the watch and then transfer it to the phone for viewing with the app.

For information about installing the application, refer to the Operation Guide at the CASIO website.

Specifications

Accuracy: ± 15 seconds a month (no adjustment by signal information)

Basic Functions: Hour, minute, second, month, day, day of the week
a.m./p.m.(P)/24-hour timekeeping
Full Auto Calendar (2000 to 2099)

Mobile Link:

Auto time adjustment

Auto Daylight Saving Time (summer time) switching

Phone finder

Communication Specifications:

Bluetooth®

Frequency band: 2400 to 2480MHz

Maximum transmission: 0dBm (1mW)

Range: Up to 2 meters (Depends on environment.)

GPS Navigation:

Track log acquisition

Measurement intervals: Intermittent (each minute, non-stop for approximately 24 hours)/Continual (every few seconds, non-stop for approximately four or five hours)

Elapsed time measurement

Log usage conditions

Display of straight-line distance to goal, start, waypoints*

Display of direction to goal, start, waypoints*

Goal specification (by recall from point memory)

Route navigation*

Backtrack

Point memory (time, year/month/day, latitude/longitude, altitude, barometric pressure, temperature)

Point memory icon specification

Track display switching (zoom out, zoom in)

* Waypoints are enabled only when settings are configured with the app.

Digital Compass:

Measuring range: 0° to 359°

Compass calibration (3-point calibration, magnetic declination angle)

60-second continuous measurement, Bearing Memory

Barometer:

Measuring and display range: 260 to 1,100 hPa (or 7.65 to 32.45 inHg)

Measuring unit: 1 hPa (or 0.05 inHg)

Auto measurement interval: 2 hours

Calibration, Barometric pressure graph, Barometric pressure change indicator

Thermometer:

Measuring and display range: -10.0°C to 60.0°C (or 14.0°F to 140.0°F)

Measuring unit: 0.1°C (or 0.2°F)

Calibration

Altimeter:

Measuring range: -700 to 10,000 m (or -2,300 to 32,800 ft.)

Measuring unit: 1 m (or 5 ft.)

Display Range: -10,000 to 10,000 m (or -32,800 to 32,800 ft.)

Measuring interval: 2 minutes/5 seconds

Reference altitude setting

Altitude differential measurement: -3,000 to +3,000m (or -9,840 to 9,840 ft.)

Sensor Accuracy:

- Direction

Measurement accuracy: Within $\pm 10^\circ$

Assured accuracy temperature range: -10°C to 60°C (14°F to 140°F)

- Temperature

Measurement accuracy: Within $\pm 2^\circ\text{C}$ ($\pm 3.6^\circ\text{F}$)

Assured accuracy temperature range: -10°C to 60°C (14°F to 140°F)

- Pressure

Measurement accuracy: Within ± 3 hPa (0.1 inHg)

(Altitude measurement accuracy: Within ± 75 m (246 ft.))

Assured accuracy temperature range: -10°C to 40°C (14°F to 104°F)

Sunrise/Sunset: Sunrise/sunset time display, Day select

Tide/Moon:*

Tide level (Tide Graph), Moon phase, Moon age,
Day select, Time select (Tide Graph only)

* Requires configuration of app settings.

Stopwatch:

Measuring unit: 1 second

Measuring range: 999 hours 59 minutes 59 seconds (1000 hours)

Measurement accuracy: $\pm 0.0006\%$

Split times

Countdown Timer:

Setting unit: 1 minute

Measuring unit: 1 second

Measuring range: 24 hours

World Time:

Displays current time in UTC +39 cities (39 time zones)*

Auto Daylight Saving Time (summer time) setting

* Time zone data may change when the watch connects with a phone.

Other: Power Saving, LED light, Selectable light duration, Full Auto Light, Charge level indicator, Button confirmation tone enable/disable, Airplane Mode, 4 alarms (with snooze)

Batteries: One chargeable battery

Battery Operating Time:

Using GPS

Intermittent Receive: Approximately 33 hours maximum

Continual Receive: Approximately 20 hours maximum

• Other functions continue operating for about 2 months after the GPS limits above.

Not Using GPS

Approximately 1.4 years

Charger: Operating temperature: 5°C to 35°C (41°F to 95°F)

Power Consumption: 5.0 VDC Approximately 0.9 W

Included Accessories: Charger, Micro USB cable

- When unboxing, check to make sure that everything is included. If something is missing, contact your original retailer.

For open source information, visit the CASIO website.

<http://world.casio.com/manual/wat/>

Operating Precautions

Water Resistance

- The information below applies to watches with WATER RESIST or WATER RESISTANT marked on the back cover.

		Water Resistance Under Daily Use	Enhanced Water Resistance Under Daily Use		
			5 Atmospheres	10 Atmospheres	20 Atmospheres
Marking	On watch front or on back cover	No BAR mark	5BAR	10BAR	20BAR
Example of Daily Use	Hand washing, rain	Yes	Yes	Yes	Yes
	Water-related work, swimming	No	Yes	Yes	Yes
	Windsurfing	No	No	Yes	Yes
	Skin diving	No	No	Yes	Yes

- Do not use your watch for scuba diving or other types of diving that requires air tanks.

- Watches that do not have WATER RESIST or WATER RESISTANT marked on the back cover are not protected against the effects of sweat. Avoid using such a watch under conditions where it will be exposed to large amounts of sweat or moisture, or to direct splashing with water.
- Even if a watch is water resistant, note the usage precautions described below. Such types of use reduce water resistance performance and can cause fogging of the glass.
 - Do not operate the crown or buttons while your watch is submersed in water or wet.
 - Avoid wearing your watch while in the bath.
 - Do not wear your watch while in a heated swimming pool, sauna, or any other high temperature/high humidity environment.
 - Do not wear your watch while washing your hands or face, while doing housework, or while performing any other task that involves soaps or detergents.
- After submersion in seawater, use plain water to rinse all salt and dirt from your watch.
- To maintain water resistance, have the gaskets of your watch replaced periodically (about once every two or three years).

- A trained technician will inspect your watch for proper water resistance whenever you have its battery replaced. Battery replacement requires the use of special tools. Always request battery replacement from your original retailer or from an authorized CASIO service center.
- Some water-resistant watches come with fashionable leather bands. Avoid swimming, washing, or any other activity that causes direct exposure of a leather band to water.
- The inside surface of the watch glass may fog when the watch is exposed to a sudden drop in temperature. No problem is indicated if the fogging clears up relatively quickly. Sudden and extreme temperature changes (such as coming into an air conditioned room in the summer and standing close to an air conditioner outlet, or leaving a heated room in the winter and allowing your watch to come into contact with snow) can cause it to take longer for glass fogging to clear up. If glass fogging does not clear up or if you notice moisture inside of the glass, immediately stop using your watch and take it to your original retailer or to an authorized CASIO service center.
- Your water-resistant watch has been tested in accordance with International Organization for Standardization regulations.

Band

- Tightening the band too tightly can cause you to sweat and make it difficult for air to pass under the band, which can lead to skin irritation. Do not fasten the band too tightly. There should be enough room between the band and your wrist so you can insert your finger.
- Deterioration, rust, and other conditions can cause the band to break or come off of your watch, which in turn can cause band pins to fly out of position or to fall out. This creates the risk of your watch falling from your wrist and becoming lost, and also creates the risk of personal injury. Always take good care of your band and keep it clean.
- Immediately stop using a band if you even notice any of the following: loss of band flexibility, band cracks, band discoloration, band looseness, band connecting pin flying or falling out, or any other abnormality. Take your watch to your original retailer or to a CASIO service center for inspection and repair (for which you will be charged) or to have the band replaced (for which you will be charged).

Temperature

- Never leave your watch on the dashboard of a car, near a heater, or in any other location that is subject to very high temperatures. Do not leave your watch where it will be exposed to very low temperatures. Temperature extremes can cause your watch to lose or gain time, to stop, or otherwise malfunction.
- Leaving your watch in an area hotter than +60°C (140°F) for long periods can lead to problems with its LCD. The LCD may become difficult to read at temperatures lower than 0°C (32°F) and greater than +40°C (104°F).

Impact

- Your watch is designed to withstand impact incurred during normal daily use and during light activity such as playing catch, tennis, etc. Dropping your watch or otherwise subjecting it to strong impact, however, can lead to malfunction. Note that watches with shock-resistant designs (G-SHOCK, BABY-G, G-MS) can be worn while operating a chain saw or engaging in other activities that generate strong vibration, or while engaging in strenuous sports activities (motocross, etc.)

Magnetism

- Though operation of your watch normally is not affected by magnetism, its accuracy may be affected if the watch itself becomes magnetized. Also, very strong magnetism (from medical equipment, etc.) should be avoided because it can cause malfunction of your watch and damage to electronic components.

Electrostatic Charge

- Exposure to very strong electrostatic charge can cause your watch to display the wrong time. Very strong electrostatic charge even can damage electronic components.
- Electrostatic charge can cause the display to go blank momentarily or cause a rainbow effect on the display.

Chemicals

- Do not allow your watch to come into contact with thinner, gasoline, solvents, oils, or fats, or with any cleaners, adhesives, paints, medicines, or cosmetics that contain such ingredients. Doing so can cause discoloration of or damage to the resin case, resin band, leather, and other parts.

Storage

- If you do not plan to use your watch for a long time, thoroughly wipe it free of all dirt, sweat, and moisture, and store it in a cool, dry place.

Resin Components

- Allowing your watch to remain in contact with other items or storing it together with other items for long periods while it is wet can cause color on resin components to transfer to the other items, or the color of the other items to transfer to the resin components of your watch. Be sure to dry off your watch thoroughly before storing it and make sure it is not in contact with other items.
- Leaving your watch where it is exposed to direct sunlight (ultraviolet rays) for long periods or failure to clean dirt from your watch for long periods can cause it to become discolored.
- Friction caused by certain conditions (strong external force, sustained rubbing, impact, etc.) can cause discoloration of painted components.
- If there are printed figures on the band, strong rubbing of the printed area can cause discoloration.

- Leaving your watch wet for long periods can cause fluorescent color to fade. Wipe the watch dry as soon as possible after it becomes wet.
- Semi-transparent resin parts can become discolored due to sweat and dirt, and if exposed to high temperatures and humidity for long periods.
- Daily use and long-term storage of your watch can lead to deterioration, breaking, or bending of resin components. The extent of such damage depends on usage conditions and storage conditions.

Leather Band

- Allowing your watch to remain in contact with other items or storing it together with other items for long periods while it is wet can cause the color of the leather band to transfer to the other items or the color of the other items to transfer to the leather band. Be sure to dry off your watch thoroughly with a soft cloth before storing it and make sure it is not in contact with other items.

- Leaving a leather band where it is exposed to direct sunlight (ultraviolet rays) for long periods or failure to clean dirt from a leather band for long periods can cause it to become discolored.

CAUTION: Exposing a leather band to rubbing or dirt can cause color transfer and discoloration.

Metal Components

- Failure to clean dirt from metal components can lead to formation of rust, even if components are stainless steel or plated. If metal components exposed to sweat or water, wipe thoroughly with a soft, absorbent cloth and then place the watch in a well-ventilated location to dry.
- Use a soft toothbrush or similar tool to scrub the metal with a weak solution of water and a mild neutral detergent, or with soapy water. Next, rinse with water to remove all remaining detergent and then wipe dry with a soft absorbent cloth. When washing metal components, wrap the watch case with kitchen plastic wrap so it does not come into contact with the detergent or soap.

Bacteria and Odor Resistant Band

- The bacteria and odor resistant band protects against odor generated by the formation of bacteria from sweat, which ensures comfort and hygiene. In order to ensure maximum bacteria and odor resistance, keep the band clean. Use an absorbent soft cloth to thoroughly wipe the band clean of dirt, sweat, and moisture. A bacteria and odor resistant band suppresses the formation of organisms and bacteria. It does not protect against rash due to allergic reaction, etc.

Liquid Crystal Display

- Display figures may be difficult to read when viewed from an angle.

Watch with Data Memory

- Allowing the battery to go dead, replacing the battery, or having your watch repaired can cause all data in watch memory to be lost. Note that CASIO COMPUTER CO., LTD. assumes no responsibility for any damages or losses caused by data lost due to malfunction or repair of your watch, replacement of the battery, etc. Be sure to keep separate written copies of all important data.

Watch Sensors

- A watch sensor is a precision instrument. Never try to take it apart. Never try to insert any objects into the openings of a sensor, and take care to ensure that dirt, dust, or other foreign matter does not get into it. After using your watch where it has been immersed in saltwater, rinse it thoroughly with fresh water.

Note that CASIO COMPUTER CO., LTD. assumes no responsibility for any damage or loss suffered by you or any third party arising through the use of your watch or its malfunction.

User Maintenance

Caring for Your Watch

Remember that you wear your watch next to your skin, just like a piece of clothing. To ensure your watch performs at the level for which it is designed, keep it clean by frequently wiping with a soft cloth to keep your watch and band free of dirt, sweat, water and other foreign matter.

- Whenever your watch is exposed to sea water or mud, rinse it off with clean fresh water.
- For a metal band or a resin band with metal parts, use a soft toothbrush or similar tool to scrub the band with a weak solution of water and a mild neutral detergent, or with soapy water. Next, rinse with water to remove all remaining detergent and then wipe dry with a soft absorbent cloth. When washing the band, wrap the watch case with kitchen plastic wrap so it does not come into contact with the detergent or soap.
- For a resin band, wash with water and then wipe dry with a soft cloth. Note that sometimes a smudge like pattern may appear on the surface of a resin band. This will not have any effect on your skin or clothing. Wipe with a cloth to remove the smudge pattern.

- Clean water and sweat from a leather band by wiping with a soft cloth.
- Not operating a watch crown, buttons, or rotary bezel could lead to later problems with their operation. Periodically rotate the crown and rotary bezel, and press buttons to maintain proper operation.

Dangers of Poor Watch Care

Rust

- Though the metal steel used for your watch is highly rust-resistant, rust can form if your watch is not cleaned after it becomes dirty.
 - Dirt on your watch can make it impossible for oxygen to come into contact with the metal, which can lead to breakdown of the oxidization layer on the metal surface and the formation of rust.
- Rust can cause sharp areas on metal components and can cause band pins to fly out of position or to fall out. If you ever notice any abnormality immediately stop using your watch and take it to your original retailer or to an authorized CASIO service center.

- Even if the surface of the metal appears clean, sweat and rust in crevasses can soil the sleeves of clothing, cause skin irritation, and even interfere with watch performance.

Premature Wear

- Leaving sweat or water on a resin band or bezel, or storing your watch in an area subject to high moisture can lead to premature wear, cuts, and breaks.

Skin Irritation

- Individuals with sensitive skin or in poor physical condition may experience skin irritation when wearing a watch. Such individuals should keep their leather band or resin band particularly clean. Should you ever experience a rash or other skin irritation, immediately remove your watch and contact a skin care professional.

Battery

- The special rechargeable battery used by your watch is not intended to be removed or replaced by you. Use of a rechargeable battery other than the special one specified for your watch can damage your watch.
- The rechargeable (secondary) battery is charged when the solar panel is exposed to light and by charging with the charger, so it does not require regular replacement as the primary battery requires. Note, however, that long use or operating conditions can cause the capacity or charging efficiency of the rechargeable battery to deteriorate. If you feel that the amount of operation provided by charging is too short, contact your original retailer or CASIO service center.