



GRAVITYMASTER

GPW-1000 Quick Operation Guide

Module No. **5410**

Absolute Toughness, Universal Accuracy

THE WORLD'S FIRST*1 GPS ATOMIC SOLAR HYBRID*2



*1 As of September 2014, CASIO investigation
*2 Equipped with CASIO's original solar power-generation system and GPS (Global Positioning System: global satellite positioning system) for determining the current location and employing time-calibration signals received by radio wave to correct the time.



GPS ATOMIC SOLAR HYBRID

Dual Dial World Time

DLC*-coated bezel

Carbon-fiber insert band

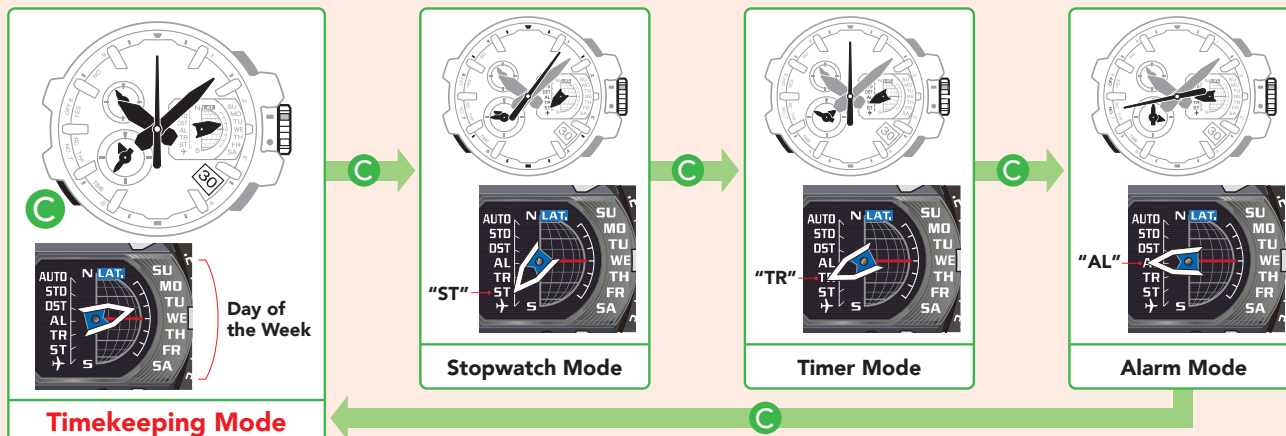
High-brightness LED light

Fine resin frame

*DLC (diamond-like carbon) coating: This coating technology increases the surface hardness of structural materials through application of a hard amorphous carbon film composed of carbon and hydrogen.

Selecting a Mode

The mode changes with each press of **C**.



Important!

- Holding down **C** for 2 seconds or longer returns the display to the Timekeeping Mode.
- Holding down the button for 4 seconds or longer in any setting enables mode switching or cancellation.



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Operating the GPS ATOMIC SOLAR HYBRID

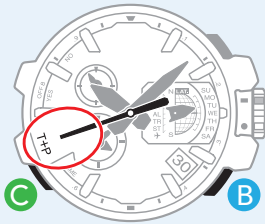
The world's first GPS ATOMIC SOLAR HYBRID system

GPS satellite signal reception method

*The AUTO DST (Daylight Saving Time) function assures receipt of the precise time anywhere in the world based on high-resolution GPS map data with 500 m accuracy.

I Initiating reception

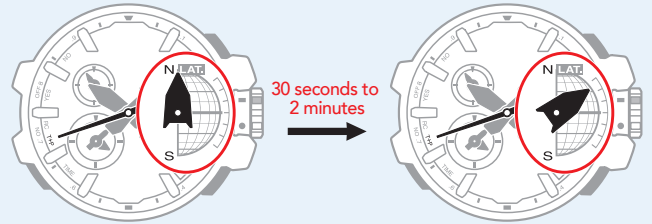
- Hold down **B** for 3 seconds or longer until the second hand moves to the "T+P" position. Remove your finger from the button.



To receive time data only, align the second hand with the "TIME" indication by holding down **B** for 1 second.

II During and after reception

- Once data reception from GPS satellites begins, the mode hand draws a half circle several times. After the mode hand stops momentarily at the 12 o'clock position, reception is completed and the approximate latitude is indicated.



Important!

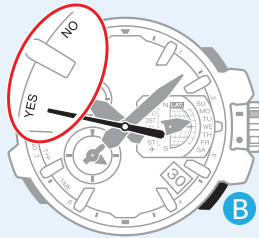
- GPS reception begins upon entry into the Timekeeping Mode.
- To return to the Timekeeping Mode, hold down **C** for 2 seconds.
- Conduct this operation only when necessary in order to conserve energy.

Important!

When positioning information is received, the current location is automatically configured as the home city and the time and date are displayed automatically.

III Checking reception results

- Press **B**. The second hand indicates "YES" (succeeded) or "NO" (failed).



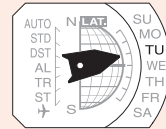
Important!

If the time or date is adjusted manually after successful time-calibration signal reception, the second hand indicates "NO" (incorrect).

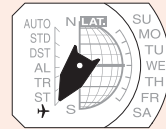
[About the In-Flight mode]

In aircraft and other places where radio wave reception is prohibited or restricted, hold down **C** for 4 seconds or longer to switch to the In-Flight mode. (Repeat the operation to cancel.)

Timekeeping Mode



In-Flight Mode



Important!

Neither GPS nor standard time radio waves can be received in the In-Flight mode.

Conducting GPS satellite radio wave reception

[Automatic GPS satellite radio wave reception]

Automatic reception is enabled when the following conditions are met:

- 1 In-Flight mode is cancelled.
- 2 Timekeeping Mode is selected.
- 3 GPS radio wave reception is conducted automatically when the dial is struck by direct daylight continuously for 1~2 minutes during the hours from 6:00 a.m. to 10:00 p.m.

Time data is received from GPS satellites and the time is corrected (within 7 seconds ~ 1 minute).



Important!

Once reception has been conducted successfully, automatic reception will not be repeated on the same day.

Conducting standard time radio wave reception from one of six transmission stations worldwide (North America, Europe, China, Japan x2)

[Automatic standard time radio wave reception] (Automatic standard time radio wave reception is prioritized in standard time radio wave reception areas.)

Automatic reception is enabled in standard time radio wave reception areas when the following conditions are met:

- 1 In-Flight mode is cancelled.
- 2 Timekeeping Mode is selected.
- 3 Standard time radio wave reception is conducted automatically between the hours of 0:00 to 5:00 a.m. and the time is corrected (within 2~10 minutes).

If terrestrial standard time radio waves cannot be received, time data is received automatically from GPS satellites and the time is corrected (within approximately 7 seconds~1 minute).

*Energy-efficient GPS reception is possible in the vicinity of windows and in other environments with good radio wave reception.



Important!

Once reception has been conducted successfully, automatic reception will not be repeated on the same day.