

Casio to Release New G-SHOCK RANGEMAN with the World's First Solar-Assisted GPS Navigation

Designed for the Ultimate in Survival Toughness;



GPR-B1000-1

Tokyo, January 9, 2018 — Casio Computer Co., Ltd. announced today the release of the latest addition to its RANGEMAN series of watches, which support the wearer even in survival situations. The new GPR-B1000 features the world's first* solar-assisted GPS navigation and will be available in two models.

* Based on a Casio survey as of January 9, 2018.

The RANGEMAN is part of the “Master of G” series of watches designed for use in the most extreme conditions. RANGEMAN watches incorporate Triple Sensor to measure compass bearing, atmospheric pressure/altitude, and temperature, based on the concept of “Survival Toughness.”

In addition to Triple Sensor, the new GPR-B1000 is capable of GPS navigation—a first for a G-SHOCK watch. The watch collects location data from GPS satellites to display the current location on a route or bearing to a destination, in real-time. The watch also saves track and point data (including longitude/latitude, altitude, and temperature) in memory.

Using Bluetooth®, the watch pairs with a smartphone to connect with the G-SHOCK Connected app, allowing the user to create routes or manage log data in the app. Tracks and point data saved in memory are displayed on a 3D map or as a timeline. The watch also receives data from time servers to keep accurate time anywhere in the world.

The GPR-B1000 features dual wireless and solar charging systems. The GPS functions are usable for up to 33 hours on a wireless charge of about five hours. Even if the battery level drops below a usable level for GPS while outdoors, solar charging can be used to resume GPS functions for a limited time. The time display is kept powered at all times using solar charging, regardless of the status of GPS functions.

The GPR-B1000 delivers toughness in construction and materials, with a dust- and mud-resistant structure and carbon fiber insert band. Designed for the ultimate in survival toughness, the GPR-B1000 is the latest evolution of G-SHOCK.

Model	Belt Color
GPR-B1000-1	Black
GPR-B1000-1B	Khaki

Main Features of the GPR-B1000

GPS Navigation

- Navigate and Log

The watch collects location data from GPS satellites to display the current location on a route or bearing to a destination, in real-time. Turn on GPS navigation to automatically record tracks with either four-second or one-minute interval recording. (Save up to 20 tracks in memory.)



Route display



Bearing to destination



Recall mode to display log data

- Backtrack

The watch helps users navigate back to where they started, using track data to display the route back to the starting point and bearing.



Outward route



Backtrack mode displays route and bearing back to starting point



- Point Memory

The user can save point data (including date/time, longitude/latitude, altitude, atmospheric pressure, and temperature) by just pushing a button. Set point icons to indicate the type of point. (Save up to 60 points.)



Save points with the push of a button

Point Memory



Recall points



Icons

Bluetooth Smartphone Pairing to Connect with G-SHOCK Connected App

- Receive data from time servers to keep accurate time anywhere in the world

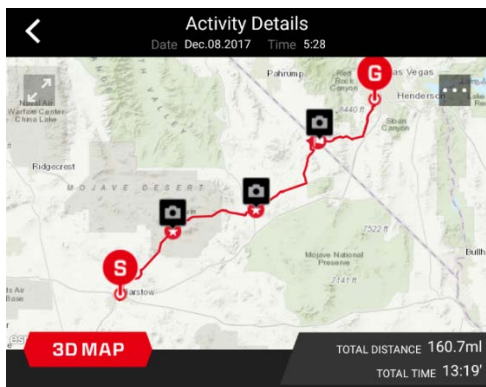
When paired with a smartphone, the watch receives data from time servers to keep accurate time anywhere in the world. Easily configure world time cities, alarms, and timers from the G-SHOCK Connected app.

- Start/End Point, Route Setting

Set the start/end points to use GPS to navigate to a destination and create routes.

- Display Tracks on 2D or 3D Maps

Display saved tracks on a 2D or 3D map in the G-SHOCK Connected app.



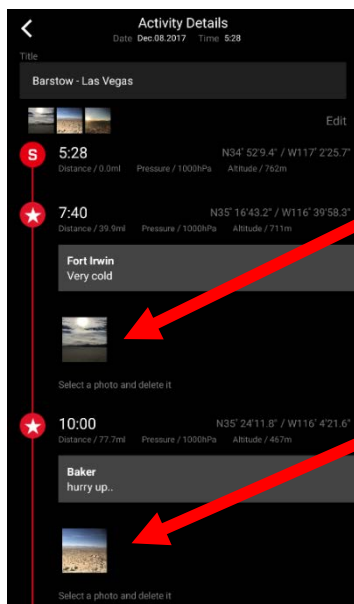
2D map display



3D map display

- Timeline display of waypoint data

Display saved waypoint data in a timeline. View photos taken with the smartphone while using GPS navigation, in the timeline.



Solar and Wireless Charging

The GPR-B1000 is equipped with dual wireless and solar charging systems to support activities in the outdoors. GPS navigation is usable for approximately 33 hours on a wireless charge of about five hours. If the battery becomes depleted, GPS functions can be resumed by charging the watch in bright light. (GPS functions are usable for one hour on a solar charge of approximately four hours in 50,000 lux conditions.) Regardless of the status of GPS functions, solar charging keeps the time display powered at all times.

Ceramic Case Back—A First for G-SHOCK

The watch uses a ceramic case back to support wireless charging and high-sensitivity GPS reception. The case back uses a 2.0 mm thick ceramic material, making the watch shock-resistant and waterproof down to 200 meters.

Tough Construction to Withstand Harsh Conditions

The watch is designed to withstand harsh conditions with dust- and dirt-proof, mud-resistant construction, low-temperature resistance down to -20°C (-4°F), a carbon fiber insert band, and sapphire crystal.



GPR-B1000-1



GPR-B1000-1B

Specifications

Construction		Shock-resistant; low-temperature resistance (-20°C / -4°F); mud-resistant
Water Resistance		200 meters
GPS Signal Frequency		1575.42 MHz
GPS Signal Reception		Time-calibration (auto* ¹ , manual); acquisition of position information (manual) *1 GPS signals are received automatically when the watch recognizes they are available in the area.
Communication Specifications	Communication Standard	Bluetooth® low energy
	Signal Range	Up to 2 m (may differ depending on surrounding conditions)
GPS Navigation		Activity logs (up to 20 logs), track display (wide area map/magnified map switching), start-to-destination direct distance, bearing to destination, destination setting from Point Memory recordings, backtrack, activity time measurement, log use status
Point Memory		Up to 60 sets of point data (time, date, longitude/latitude, altitude, atmospheric pressure, temperature), point icons
Digital Compass		Measures and displays direction as one of 16 points; measuring range: 0° to 359°; measuring unit: 1°; 60 seconds continuous measurement; bidirectional calibration and magnetic declination correction; bearing memory (records and display one set of degree and direction); graphical display of north, south, east and west; auto horizontal compensation
Barometer		Measuring range: 260 hPa to 1,100 hPa (7.65 inHg to 32.45 inHg); measuring unit: 1 hPa (0.05 inHg); atmospheric pressure tendency graph (past 48 hours graph display); atmospheric pressure tendency alarm (arrow indicates significant pressure changes)
Altimeter		Measuring range: -700 m to 10,000 m (-2,300 ft. to 32,800 ft.); measuring unit: 1 m (5 ft.); relative altitude readings (-3,000 m to 3,000 m); altitude tendency graph
Thermometer		Measuring range: -10°C to 60°C (14°F to 140°F); measuring unit: 0.1°C (0.2°F)

World Time	39 cities (39 time zones ^{*2} , daylight saving on/off) and Coordinated Universal Time; auto summer time (DST) switching <small>*2 May be updated when connected to a smartphone.</small>
Stopwatch	1 second; measuring capacity: 999:59'59; measuring modes: elapsed time, split time
Countdown Timer	Measuring unit: 1 second (maximum 24 hours)
Alarm	4 daily alarms (with snooze alarm)
Other Functions	Mobile Link functions (world time: over 300 cities, auto time adjustment, One-Touch Time Adjustment, easy watch setting, phone finder, route setting and log data management in GPS navigation, tide graph, moon data); day and date display; full auto-calendar; auto LED backlight with afterglow: 1.5/3.0 seconds; battery level indicator; 12/24-hour format; airplane mode; button operation tone on/off; sunrise/sunset time display
Power Source	Solar powered system (solar-charging system), charging system compatible with wireless chargers (requires device with Type-A USB terminal)
Continuous Operation	With GPS use <ul style="list-style-type: none"> • NORMAL (Intermittent reception): approx. 33 hours • HIGH RATE (Continuous reception): approx. 20 hours <small>*Approx. two months more for non-GPS functions</small> Without GPS use About 29 months with the power-saving function ^{*3} ON after full charge <small>*3 Power-saving after a certain period in a dark location</small>
Size of Case	60.3 × 57.7 × 20.2 mm
Total Weight	Approx. 142g

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