

# ***TECHNICAL INFORMATION***

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**CITIZEN QUARTZ**

**Cal. No. B870**

**Cal. No. B872**

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## §1. OUTLINE

This watch is a analog solar power watch which has a solar cell on its dial that converts the light energy into electrical energy to drive its mechanism.

## §2. SPECIFICATIONS

<b>Caliber NO.</b>		<b>B870/B872</b>
Type		Analog solar power watch
Movement size (mm)		ø28.2 x 3.8t
Accuracy (At normal temperature)		±15 sec/month (5°C to 35°C/41°F to 95°F)
IC		1 unit of C/MOS-LSI
Operating temperature		-10°C to +60°C (14°F to 140°F)
Converter		Bipolar step motor
Time adjustment		No adjustment terminal for use in market
Measurement gate		10 sec.
Display function	Time	Hour, Minute, Second
	Calendar	Date
Additional functions		Quick start function
		Insufficient charge warning function
		Time setting warning function
		Overcharging prevention function
Continuous Operating time	From full recharge to stop	Approx. 3 months
	From insufficient charge warning display to stop	Approx. 3 days
Secondary battery	Part NO.	295-40
	Remarks	Secondary battery block
Remark		Cal. B872 is made by remodeling Cal. B870 for divers

### §3. HANDLING OF WATCH

Handling and precautions for use of the watch, are the same as those of CAL. B810 which have been issued. See the Technical Information "Cal. B800/B810".

#### Time required for charge

Time required for recharging may vary according to the design (color of the dial, etc.) and operating environment.

The following table is as a rough reference.

\* The recharging time is the time when the watch is continuously exposed to radiation.

Illuminance (lux)	Environment	Time required		
		From the stop state to the one second movement	One day usage	Empty to full
500	Inside an ordinary office	22 hours	1 hours 30 minutes	320 hours
1000	60-70cm under a fluorescent light (30W)	11 hours	45 minutes	160 hours
3000	20cm under a fluorescent light (30W)	3 hours 30 minutes	15 minutes	53 hours
10000	Exterior, cloudy	1 hour	5 minutes	17 hours
100000	Exterior, summer, sunny	15 minutes	2 minutes	6 hours

Full recharging time .....The time for fully recharge from stopped.  
(Empty to full)

One day usage .....The time required for the watch to run for one day with one second interval  
movement.

### §4. PRECAUTION FOR DISASSEMBLY AND ASSEMBLY OF MOVEMENT

The basic structure of the movement is the same as that of CAL. B800 which have been in the market.

Precautions for disassembly, assembly, and handling of the movement; see Technical Information "Cal. B800/B810".

- Current consumption of the movement: Under 1.2 $\mu$ A.
- Coil resistance: 2.0k $\Omega$  - 2.4k $\Omega$ .

# **CITIZEN WATCH CO.,LTD.**

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