Thank you for your purchase of this Citizen watch.

Before using the watch, read this instruction manual (PDF) carefully to ensure correct use.

Caliber No. of this watch: U830

You can access the web instruction manual in addition by using the two-dimensional code or the URL: https://www.citizenwatch-global.com/support/html/en/u830/u830.html

Some models may be equipped with enhanced features and functions such as slide rules and tachymeters. To see how to use such features and functions, which is not covered with the instruction manual, and other information, access the CITIZEN support page (https://www.citizenwatch-global.com/support/).



## Safety precautions — IMPORTANT

This manual contains instructions that should be strictly followed at all times not only for optimal use, but to prevent any injuries to yourself, other persons or property. We encourage you to read the entire booklet (especially, pages 12 and 13) and understand the meaning of the following symbols:

■ Safety advisories are categorized and depicted in this manual as follows:

1 DANGER	Highly likely to cause death or serious injury
<b>⚠</b> WARNING	Can cause serious injury or death
<b>A</b> CAUTION	Can or will cause minor or moderate injury or damage

■ Important instructions are categorized and depicted in this manual as follows: (Following symbols are examples of Pictograms.)

	,	8-7
(	S	Warning (caution) symbol followed by prohibited matters.
2	<u> </u>	Warning (caution) symbol followed by instructions that should be followed or precautions that should be observed.

## **Features**



#### **■** Eco-Drive

No periodical battery replacement is needed. This watch is fueled by light.

#### Analog-digital combination watch

The hands and the liquid crystal display indication show time and other information.



## World time

Indicates the time around the world by choosing one of 29 time zones.

## ■ Chronograph

Measures up to 24 hours by 0.01 seconds.

#### ■ Alarm

You can set two times for alarm, which emits sound once or all assigned days of week.

#### **■ TIMER**

You can use a countdown timer up to 99 minutes and 59 seconds.



#### ■ Perpetual calendar

No need for monthly and leap-year date correction until December 31, 2199.

### ■ Impact detection function

Prevents the second hand from unwanted movement due to impacts and assists accurate time indication.

• "Eco-Drive" is an original technology of Citizen.

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## Before using this watch



This watch has a rechargeable cell which is charged by exposing the dial to light

Expose the dial to direct sunlight regularly to charge the watch. For details of charging, see page 9.

## **Band adjustment**

We recommend seeking the assistance of an experienced watch technician for sizing of your watch. If adjustment is not done correctly, the bracelet may unexpectedly become detached leading to loss of your watch or injury (excluding products containing the band adjustment tool).

Consult an authorized service center. Other shops may charge for, or may not provide, the service.

#### **Protective stickers**

Be sure to remove any protective stickers that may be on your watch (case back, band, clasp, etc.). Otherwise, perspiration or moisture may enter the gaps between the protective stickers and the parts, which may result in a skin rash and/or corrosion of the metal parts.

## How to use a specially designed crown/button

Some models are equipped with a specially designed crown and/or push button to prevent accidental operation.

#### Screw down crown/button

Unlock the crown/button prior to operate your watch.

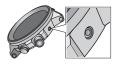
Unlock

Screw down crown	Rotate the crown counterclockwise until it releases from the case.	Push the crown in to the case. With gentle pressure towards the case, rotate the crown clockwise to secure it to the case. Be sure to tighten firmly.
Screw down push button	Rotate the locking screw counterclockwise, and loosen until it stops.	Rotate the locking screw clockwise, and tighten firmly.

Lock

#### ■ Recessed button

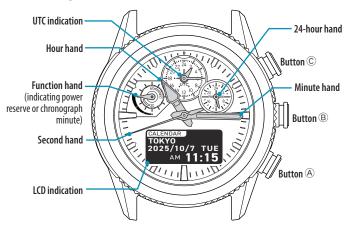
Press the button with a non-marring narrow-tipped object.



• Metal objects may cause marring or scratching of the button.

## **Component identification**

- The illustrations in this instruction manual may differ from the actual appearance of your watch.
- A solar cell is placed under the dial.



#### About time indication

This watch can show up to three times at the same time.

This water can show up to time times at the same time.		
Home time	It is time indicated with the hour, minute, second and 24-hour hands.	THE THE PARTY OF T
Local time	It is time indicated on the LCD when the mode is WORLD TIME (world time). It may be different from the home time.	WORLD TIME NEW YORK 2025/10/6 MON PM 9:15
UTC indication	It always indicates Coordinated Universal Time (UTC). The hour hand of the UTC indication move fully round in 24 hours.	(1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4

## Checking the power reserve

## For details of charging, see "Charging your watch" (page 9).

The function hand indicates power reserve amount.

 When the mode of the watch is CHRONOGRAPH (chronograph), switch it to any other mode to see the power reserve. (page 3)

#### Indication of power reserve in levels

Level	3	2	1	0
Example of power reserve indication	30	30	45	15 (S)
LCD indication	Normal	Normal	"BATTERY LOW" <b>→</b> normal	"BATTERY EMPTY" → turned off
Duration (approx.)	1 year - 10 months	10 - 4 months	4 months - 3 days	3 days
Meaning	Power reserve is sufficient.	Power reserve is OK.	Power reserve is getting low. Insufficient charge warning 1 (page 9) starts on this level.	Power reserve is not enough. Insufficient charge warning 2 (page 9) starts on this level.
	OK for normal use	2	Charge immediate	ely.



## Changing the mode

This watch features the following six modes.

- CALENDAR (time and calendar)
- WORLD TIME (world time)
- CHRONOGRAPH (chronograph)
- TIMER (timer)
- ALARM (alarm)
- SETTING (settings)

Change modes to use functions you want.

Ex.: when changing the mode from CALENDAR (time and calendar) to TIMER

Press and release the middle right button **B**. Black and white of the LCD indication is inverted.

TOKYO





2 Press and release the lower right button (a) or the upper right button (c) repeatedly to indicate a mode you want.

The LCD indication changes.

CALENDAR (time and calendar) In this mode, the home time is indicated. (page 4)

CALENDAR TOKYO 2025/10/7 TUE 11:15 AM

Button (A) | 1 Button (C)

WORLD TIME (world time) In this mode, the local time is indicated. (page **5**)

WORLD TIME **NEW YORK** 2025/10/6 PM

Button (A) | 1 Button (C)

MON

 CHRONOGRAPH (chronograph) (page **6**)

CHRONOGRAPH 00:00'00"00

Button (a) 🕽 🛊 Button (c)

• TIMER (timer) (page 6)

TIMER 03:00 03:00 00:00

Button (A) | Button (C)

• ALARM (alarm) (page 7)

**NYC** UTC

Button (A) | 1 Button (C)

• SETTING (settings) (page 8)

SETTING <<EXIT LIGHT LEVEL **HOME TIME** 

Button (A) | 1 Button (C) Go back to CALENDAR (time and calendar)

Press and release the middle right button **B**.

Black and white of the LCD indication is inverted and the mode changes to a new



• The mode is automatically changed to the one currently indicated in 5 seconds without pressing the button ®.

## Turning on the light for the LCD indication

You can use the light for the LCD indication when the mode is CALENDAR (time and calendar) or WORLD TIME (world time).

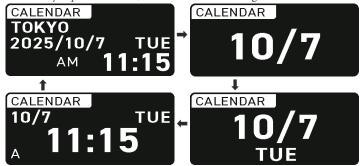
- 1 Change the mode to CALENDAR (time and calendar) or WORLD TIME (world
- 2 Press and release the lower right button (A). The light for the LCD indication is lit for 2 seconds.

## Switching the LCD indication

You can switch the LCD indication when the mode is CALENDAR (time and calendar) or WORLD TIME (world time).

- 1 Change the mode to CALENDAR (time and calendar) or WORLD TIME (world time).
- **2** Press and release the upper right button ©.
- CALENDAR (time and calendar)

Each time you press button ©, the LCD indication changes as follows.



**■** WORLD TIME (world time)

Each time you press button ©, the LCD indication changes as follows.



· When two times are shown on the display, the home time is on the left, and the local time is on the right.

## Adjusting the time and calendar

The home time will be set through the steps below.

- The local time and the time on the UTC indication are synchronously changed with adjustment of the home time.
- 1 Press and release the middle right button **B**.

Black and white of the LCD indication is inverted.

2 Press and release the lower right button @ or the upper right button © repeatedly to indicate CALENDAR (time and calendar).



**3** Press and release the middle right button **B**.

The mode changes to CALENDAR (time and calendar)



4 Press and hold the middle right button (B) for 2 seconds or more.

Black and white of the area name is inverted.

All the hands stop. The second hand stops at the 45-second position.

• The hour and minute hands may move to positions not to interrupt the view of the LCD indication before they stop.



5 Choose an area.

**To choose:** use buttons (A) and (C).

**To confirm:** press button **B**.

- Press and hold button (a) or (C) to change area names continuously.
- $\bullet$  For areas and time zones you can choose, refer to the table on page 5.
- During steps **5 9** hereafter, if you press and hold button <sup>®</sup> for 2 seconds or more or if you leave the watch for 10 minutes without any operation, "SETTING COMPLETE" appears, the settings you executed until the message appeared are applied and the setting procedure is finished.



6 Choose summer time or standard time.

**To choose:** use buttons (and (c).

**To confirm:** press button **B**.

DST ON	Summer time (1-hour forward from the standard time)
DST OFF	Standard time

 Summer time (DST, daylight saving time) is a system adopted in some countries/ areas to gain an extra daylight during summer.



7 Press and release the lower right button 0 or the upper right button 0 in accordance with a reliable time source.

The second is set to 00.



8 Press and release the middle right button ®.

The minute becomes adjustable.



9 Set time and calendar.

**To adjust:** use buttons A and C. **To confirm:** press button B.



• Set in the following order.

Minute  $\rightarrow$  hour  $\rightarrow$  year  $\rightarrow$  month  $\rightarrow$  date

 $\bullet$  Press and hold button  $\mbox{\^{a}}$  or  $\mbox{\^{c}}$  to change setting values continuously. After setting date, "SETTING COMPLETE" appears and the settings are finished.

The hands move to the time you set.

• When you set a wrong time or calendar, try again from step 4.

## **Customizing indication**

Following items are adjustable. Refer to "Adjusting settings" (page 8).

- Calendar notation (order of year/month/day)
- Language for days of week
- 12-hour/24-hour notation

#### Area and time zone

Indication	Abbreviation	Area	Time zone
UTC	UTC	Coordinated Universal Time	0
LONDON	LON	London	0
MADRID	MAD	Madrid	+1
PARIS	PAR	Paris	+1
ROME	ROM	Rome	+1
BERLIN	BER	Berlin	+1
CAIRO	CAI	Cairo	+2
ATHENS	ATH	Athens	+2
JOHANNESBURG	JNB	Johannesburg	+2
RIYADH	RUH	Riyadh	+3
TEHRAN	THR	Tehran	+3.5
DUBAI	DXB	Dubai	+4
KABUL	KBL	Kabul	+4.5
KARACHI	KHI	Karachi	+5
DELHI	DEL	Delhi	+5.5
DHAKA	DAC	Dhaka	+6
YANGON	RGN	Yangon	+6.5
BANGKOK	BKK	Bangkok	+7
SINGAPORE	SIN	Singapore	+8
HONG KONG	HKG	Hong Kong	+8
BEIJING	BJS	Beijing	+8
TAIPEI	TPE	Taipei	+8
SEOUL	SEL	Seoul	+9
TOKYO	TYO	Tokyo	+9
ADELAIDE	ADL	Adelaide	+9.5
SYDNEY	SYD	Sydney	+10
NOUMEA	NOU	Noumea	+11
AUCKLAND	AKL	Auckland	+12
SUVA	SUV	Suva	+12
MIDWAY	MDY	Midway	-11
HONOLULU	HNL	Honolulu	-10
ANCHORAGE	ANC	Anchorage	-9
VANCOUVER	YVR	Vancouver	-8
LOS ANGELES	LAX	Los Angeles	-8
DENVER	DEN	Denver	-7
MEXICO CITY	MEX	Mexico City	-6
CHICAGO	CHI	Chicago	-6
NEW YORK	NYC	New York	-5
MONTREAL	YMQ	Montreal	-5
MANAUS	MAO	Manaus	-4
R.JANEIRO	RIO	Rio de Janeiro	-3
F.NORONHA	FEN	Fernando de Noronha	-2
AZORES	PDL	Azores	-1
USER	USR	You can assign any time zo the 15-minute increments. TIME" on page 9.	ne you like in Refer to "CITY

- Values on the "Time zone" column mean time difference between UTC and the standard time of time zones.
- Countries or regions may change time zones for various reasons.

## **World time**

The LCD indication can show a time which is different from that shown with the hands (local time).

## 1 Change the mode to WORLD TIME (world time).

• For the way to change modes, see page 3.

The current time of the area set (local time) appears on the LCD indication.



#### Setting the local time

## 1 Change the mode to WORLD TIME (world time).

## 2 Press and hold the middle right button ® for 2 seconds or more.

Black and white of the area name is inverted.

All the hands stop. The second hand stops at the 45-second position.

 The hour and minute hands may move to positions not to interrupt the view of the LCD indication before they stop.



#### 3 Choose an area.

To choose: use buttons (A) and (C).

**To confirm:** press button **B**.

- Press and hold button (A) or (C) to change area names continuously.
- For areas and time zones you can choose, refer to the table on the left column.
- During steps 3 4 hereafter, if you press and hold button ® for 2 seconds or more or if you leave the watch for 10 minutes without any operation, "SETTING COMPLETE" appears, the settings you executed until the message appeared are applied and the setting procedure is finished.

#### 4 Choose summer time or standard time.

**To choose:** use buttons (A) and (C).

To confirm: press button ®.

DST ON	Summer time (1-hour forward from the standard time)
DST OFF	Standard time

"SETTING COMPLETE" appears and the settings are finished.

The hands returns to current time. The UTC indication starts again to show

#### Interchanging times indicated

The home time and the local time can be interchanged.

- 1 Change the mode to CALENDAR (time and calendar) or WORLD TIME (world time).
- 2 Press and release both the lower right button (a) and the upper right button (c) simultaneously.

The home time and local time are interchanged.

Ex.:

Home time	Local time
UTC	New York
2:15 AM, October 7, 2025	9:15 PM, October 6, 2025

Home time	Local time
New York 9:15 PM, October 6, 2025	UTC 2:15 AM, October 7, 2025

## Using the chronograph

The chronograph measures up to 24 hours by 0.01 seconds.

#### 1 Change the mode to CHRONOGRAPH (chronograph).

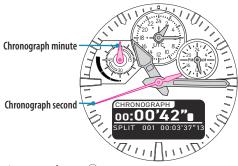
• For the way to change modes, see page 3.

The LCD indication changes to the measurement screen.



## **2** Press and release the upper right button ©.

Measurement starts.



**Start/stop:** press button ©.

Taking a split time/lap time: press button (a. (up to 999 times)

Reset: press button (A) while the chronograph is stopped. Measurement result is

- Measurement continues even after changing the mode.
- The chronograph minute hand shows 00 minutes when it points just upright; each marker means 1 minute.
- The 1000th and further split times/lap times are recorded over the oldest ones.

## The following operations stop chronograph measurement.

- · Adjusting the time and calendar
- · Adjusting world time settings
- Adjusting timer setting
- · Adjusting alarm settings
- Changing the mode to SETTING (settings) and adjusting settings

### Switching split time measurement and lap time measurement

Change it in "CHRONO MODE" in the SETTING (settings) mode. (page 8)

## Checking the measurement result

### Press and release the upper right button © during measurement. The measurement stops.

## Press and hold the middle right button (B) for 2 seconds or more.

You can see the latest 60 split/lap times three by three.

All the hands stop. The function hand indicates power reserve and the second hand stops at the 45-second position.

• The hour and minute hands may move to positions not to interrupt the view of the LCD indication before they stop.

SPLIT RECORDS 001 **00:03'37"** 003 00:10'46"78

- $\bullet$  Press the button  $\begin{tabular}{l} \textcircled{A}/\begin{tabular}{l} \textcircled{C} \end{tabular}$  to change pages.
- By pressing button <sup>®</sup>, the indicated records are displayed in a two-dimensional code and can be read with your smartphone. To go back to the previous indication, press button ® again.

## 3 Press and hold the middle right button (B) for 2 seconds or more.

The LCD indication go back to the measurement screen.

The second hand and the function hand go back to show the chronograph second and minute at the moment when measurement stopped and the other hands return to show the current time. The UTC indication starts again to show UTC.

## Using the timer

You can use a countdown timer up to 99 minutes and 59 seconds in the 1-second

The watch emits sound for 5 seconds as time you set passed.

• Press any button to stop the sound.

## 1 Change the mode to TIMER (timer).

• For the way to change modes, see page 3.



### **2** Press and release the upper right button ©.

Timer countdown starts



Start/stop: press button ©

**Reset:** <u>pre</u>ss button (A) while countdown is stopped.

- The **X** icon appears during countdown.
- Countdown continues even after changing the mode.

### The following operations stop countdown.

- Adjusting the time and calendar
- Adjusting world time settings
- · Adjusting alarm settings
- Changing the mode to SETTING (settings) and adjusting settings

## Setting countdown time

## 1 Change the mode to TIMER (timer).

## 2 Press and hold the middle right button (B) for 2 seconds or more when timer countdown is stopped.

All the hands stop. The second hand stops at the 45-second position.

• The hour and minute hands may move to positions not to interrupt the view of the LCD indication before they stop.



#### 3 Set countdown time.

To set: use buttons (A) and (C).

**To confirm:** press button **(B)**.

• Set countdown time in the following order.

2nd digit of minute → 1st digit of minute → 2nd digit of second → 1st digit of second

- Press and hold button (a) or (c) to change setting values continuously.
- During setting, If you press and hold button ® for 2 seconds or more or if you leave the watch for 10 minutes without any operation, "SETTING COMPLETE" appears, the settings you executed until the message appeared are applied and the setting procedure is finished.

After setting the 1st digit of second, "SETTING COMPLETE" appears and the settings are finished.

The hands returns to current time. The UTC indication starts again to show

## **Using alarm**

You can set two times for alarm. The alarm is to be set to emit sound once or all assigned days of week.

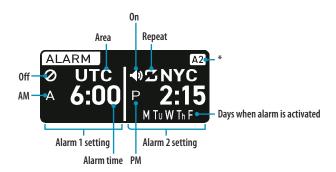
Alarm emits sound for 15 seconds as the time set comes.

• Press any button to stop the sound.

## Checking current alarm settings

#### Change the mode to ALARM (alarm).

• For the way to change modes, see page 3. The current alarm settings are indicated.



\*A1/A2: they appear when alarm 1/alarm 2 are activated.

### Checking the alarm sound

## Change the mode to ALARM (alarm).

• For the way to change modes, see page 3.

## 2 Press and hold the lower right button (a) or the upper right button (b) of the watch to move the hands continuously.

- Press and hold the lower right button (a) to monitor the sound of alarm 1.
- ess and hold the upper right button © to monitor the sound of alarm 2.

### Setting alarm

Ex.: When setting alarm 1 to emit sound at 7:20 AM of Tokyo time repeatedly.

#### 1 Change the mode to ALARM (alarm).

• For the way to change modes, see page 3.

## **2** Press and hold the middle right button **B** for 2 seconds or more.

Alarm settings become adjustable.

All the hands stop. The second hand stops at the 45-second position.

• The hour and minute hands may move to positions not to interrupt the view of the LCD indication before they stop



#### 3 Choose an alarm to set (alarm 1 or 2).

**To choose:** use buttons (A) and (C).

To confirm: press button ®.

• During steps 3 - 6 hereafter, if you press and hold button ® for 2 seconds or more or if you leave the watch for 10 minutes without any operation, "SETTING COMPLETE" appears, the settings you executed until the message appeared are applied and the setting procedure is finished.



#### Activate/deactivate the alarm.

To choose: use buttons (A) and (C).

**To confirm:** press button **B**.

ON Sound is emitted once.		Sound is emitted once.
	ON Sound is emitted in every assigned day.	
	0FF	Alarm is deactivated.

• After choosing "OFF", "SETTING COMPLETE" appears and the settings are

## 5 Choose an area (time zone) and set time to emit sound.

To choose: use buttons (A) and (C).

**To confirm:** press button **B**.



- Press and hold button (a) or (a) to change area names/setting values continuously.
- When you chose "ON" in step 4, "SETTING COMPLETE" appears and the settings

## 6 Choose days of week on which you want to activate alarm.

**To choose:** use buttons (A) and (C).

**To confirm:** press button **B**.



SU	Sunday	TH	Thursday
M0 (M)	Monday	FR (F)	Friday
TU	Tuesday	SA	Saturday
WE (W)	Wednesday		

After choosing setting for Saturday, "SETTING COMPLETE" appears and the settings are finished.

The hands returns to current time. The UTC indication starts again to show



## **Adjusting settings**

Ex.: when adjusting setting of "DATE ORDER"

#### 1 Change the mode to SETTING (settings).

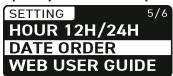
• For the way to change modes, see page 3.

All the hands stop. The second hand stops at the 45-second position.

• The hour and minute hands may move to positions not to interrupt the view of the LCD indication before they stop.



2 Press and release the lower right button (a) or the upper right button (c) repeatedly to indicate an item you want to set.



**3** Press and release the middle right button **B**.

Setting values become adjustable.



Current setting value

4 Adjust settings.

**To adujut:** use buttons (A) and (C). **To confirm:** press button (B).



 $\bullet$  To cancel adjusting setting, choose "EXIT" and press button  $\ensuremath{\mathbb{B}}.$ 

**5** Choose "EXIT" and press the middle right button <sup>®</sup> of the watch.

The mode changes to CALENDAR (time and calendar)
The hands returns to current time. The UTC indication starts again to show
UTC.

### Setting item

#### LIGHT LEVEL

Use this to check power generation amount of this watch in levels. You can see current amount/hourly amount of the last 24 hours/daily amount of the last 7 days.

• Press button @/© to change the 3 periods above.

#### HOME TIME

Use this to set the home time. For details, refer to page 4. (Initial setting: UTC)

#### **■** WORLD TIME

Use this to choose an area whose time is shown on the LCD as the local time when the mode is WORLD TIME (world time). For details, refer to page 5. (Initial setting: NEW YORK)

#### CHRONO RESULT

Use this to see measurement result of chronograph. For details, refer to page 6.

#### ■ TIMER

Use this to set countdown time. For details, refer to page **6**. (Initial setting: 3 minutes)

#### ■ ALARN

Use this to adjust settings for alarm. For details, refer to page 7. (Initial settings: 0:00 AM, off for both alarm 1 and alarm 2)

#### HAND POSITION

Use this to check and correct the reference position of the hands. For details, refer to page 11.

#### CHRONO MODE

Use this to choose which to take while chronograph measurement, split time or lap time.

SPLIT Choose this to take and show split time. (Initial setting)	
LAP	Choose this to take and show lap time.

#### DAY LANGUAGE

Use this to set language for showing days of week in the modes of CALENDAR (time and calendar) and WORLD TIME (world time).

ENGLISH	English (Initial setting)
JAPANESE	Japanese
SPANISH	Spanish
GERMAN	German
FRENCH	French
ITALIAN	Italian
PORTUGUESE	Portuguese
CHINESE	Chinese

#### ■ SFI FCT CITY

Use this to show/hide area names on the area list which appears when choosing an area.

(Initial setting: showing all)



#### CITY TIME

Use this to assign a time zone to "USER (USR)". You can assign any time zone you like in the 15-minute increments to the standard time and summer time. (Initial setting:  $\pm 0$  for both the standard time and summer time)

#### 1 Assign a time zone for the standard time.

**To adjust:** use buttons (a) and (c). **To confirm:** press button (b).

#### 2 Assign a time zone for summer time.

To adjust: use buttons (a) and (c).

**To confirm:** press button **B**.

#### **■ HOUR 12H/24H**

Use this to switch time notation between 12-hour and 24-hour.

12-HOUR	12-hour notation (Initial setting)
24-HOUR	24-hour notation

#### DATE ORDER

Use this to choose calendar notation (order of year/month/day).

YYYY/MM/DD	Year, month, date (Initial setting)
MM/DD/YYYY	Month, date, year
DD/MM/YYYY	Date, month, year

#### **■ WEB USER GUIDE**

Use this to show the two-dimensional code for accessing the instruction manual PDF through reading it with your smartphone.

#### **■ INFORMATION**

Use this to see firmware version and other information of this watch.

#### **■ RESET SETTINGS**

Use this to return the setting values of the items above to the initial.

## **Charging your watch**

This watch has a solar cell under the dial and stores the power generated by the cell in its built-in rechargeable cell.

The cell is charged by exposing the dial to light such as direct sunlight or fluorescent lamps.

For optimal performance, be sure to:

- Put the watch in a location where the dial is exposed to bright light such as by the window even when it is not used.
- Expose its dial to direct sunlight for 5 or 6 hours at least every week.
- Avoid leaving it in dark places for long periods of time.

#### CAUTION

- Do not charge the watch at a high temperature (about 60°C (140°F) or higher) as doing so may cause movement malfunction.
- If the watch is obscured from light by long sleeves frequently, supplemental charging may be needed to ensure continual operation.
- The watch stops charging automatically after finishing (overcharging prevention function). The function prevents damage to performance of the watch and rechargeable cell due to overcharging.

## When the watch reaches a low charge state (insufficient charge warning function)

The watch tells you insufficient charge as below. Be sure to fully charge your watch immediately as outlined below.

#### Insufficient charge warning 1

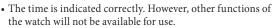
When the watch is left without any operation for 10 seconds, the LCD indication is turned off. By pressing any button, the LCD indication returns to normal after showing "BATTERY LOW" for 3 seconds.

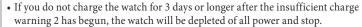
• The time is indicated correctly. The other functions are also available.

## Insufficient charge warning 2

The LCD indication is turned off. By pressing any button, the LCD indication shows "BATTERY EMPTY" for 3 seconds and is turned off again.

The second hand moves once every 2 seconds (two-second interval movement).





## Charging time by environment

Below are the approximate charging times when exposing to light continuously. Please use this table as a reference only.

		Charging time (approx.)			
Environment	Illuminance (lx)	To work for one day	To start working normally when the cell is discharged	To become fully charged when the cell is discharged	
Outdoors (sunny)	100,000	3 minutes	5 hours	18 hours	
Outdoors (cloudy)	10,000	25 minutes	40 hours	_	
20 cm (7- 7/8 inches) away from a fluorescent lamp (30 W)	3,000	1.5 hours	_	_	
Interior lighting	500	8 hours	_	_	

 Exposing to direct sunlight is recommended to charge your watch. A fluorescent lamp or interior lighting does not have sufficient illumination to charge the rechargeable cell efficiently.

# ■ Duration without additional charging after charging the watch fully About 1 year

## Power save function

The hands stop and the LCD indication is turned off automatically to save power when the watch has been kept in a dark place for a certain period of time and it cannot generate power.

• The watch works normally even while saving power.

## Canceling the power save function

The power save status ends and the hands return to normal indication as the watch is operated or the dial is exposed to light and power generation starts.



## Troubleshooting

• When your watch still has problems even after trying remedies below, consult an authorized service center.

## ■ Movement of a hand seems strange

Symptom	Remedies	Page
The second hand moves once every two seconds.	Insufficient charge warning function is active. Power reserve of the watch is nearly empty. Charge immediately.	9
The second hand does not move.	The second hand stops while the mode is CHRONOGRAPH (chronograph) and measurement stops.	6
	The second hand points 45 seconds and stops when the mode is SETTING (settings) or during time and calendar adjustment.	_
No hands move.	Charge the watch under direct sunlight until the second hand moves normally.	9
	The hands stop when the mode is SETTING (settings) or during time and calendar adjustment. The second hand points 45 seconds and stops. The hour and minute hands may stop at positions not to interrupt the view of the LCD indication.	_
The hands start quick movement suddenly.	After finishing setting, the hands may move quickly until they show the current time.	_
	The power save function is canceled. Wait until the current time is displayed.	9
Cannot check the power reserve.	The mode is CHRONOGRAPH (chronograph).	2

## ■ Time/calendar is abnormal.

Symptom	Remedies	Page
	The hands stop when the mode is SETTING (settings) or during time and calendar adjustment. The second hand points 45 seconds and stops. The hour and minute hands may stop at positions not to interrupt the view of the LCD indication.	_
Time/calendar is incorrect.	Check the area setting.	4
	Check the summer time (DST) setting. Switching summer time and standard time must be executed manually there.	4
	Adjust the time and calendar.	4
	Check and correct the reference position of the hands.	11
The time indicated with the hands and that shown on the LCD indication are different.	The hands and the LCD indication may show different times when the mode is WORLD TIME (world time).	5
	Check and correct the reference position of the hands.	11

## LCD indication

Symptom	Remedies	Page
The LCD indication is turned off.	Insufficient charge warning function is active. Power reserve of the watch is nearly empty. Charge immediately.	9

## **■** World time

Symptom	Remedies	Page
The area you want to choose is not shown on the list.	Use "SELECT CITY" of settings to show the area you want.	9
What is "USER (USR)"?	To "USER (USR)", you can assign any time zone you like in the 15-minute increments. Use it when the time zone of your area does not exist on the list.	9

## Chronograph

Symptom	Remedies	Page
The chronograph unexpectedly stops.	Changing the mode to SETTING (settings) to execute settings stops chronograph measurement.	6
The second hand does not point 00 seconds even after resetting chronograph.	Check and correct the reference position of the hands.	11

## **TIMER**

Symptom	Remedies	Page
The timer unexpectedly stops.	Changing the mode to SETTING (settings) to execute settings stops timer countdown.	6

## Alarm

Symptom	Remedies		
No alarm sound is	Try alarm sound check. If no sound is emitted, consult an authorized service center.		
emitted.	For checking alarm setting. Check alarm settings. The Al A2 icons appear when alarm 1/alarm 2 are activated.	7	
Alarm sound is emitted unexpectedly.	Check area setting of alarm settings.	7	

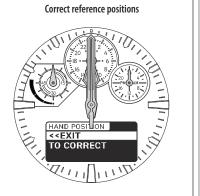
## Checking and correcting the reference position

Check whether reference position is correct when the hands and the LCD indication show different time in the CALENDAR (time and calendar) mode or the second hand does not point 00 seconds even after resetting chronograph.

## What is the reference position?

The base position of all hands to indicate time correctly.

- Function hand: just upright
- Hour, minute and second hands: 0 hour 00 minute 00 second
- 24-hour hand: 24
- UTC indication: 00 hour 00 minute



1 Change the mode to SETTING (settings).

• For the way to change modes, see page 3.



2 Press and release the lower right button 🕙 or the upper right button 🛈 repeatedly to choose "HAND POSITION" and press the middle right button 🖲.



The hands start to move to the current reference positions.

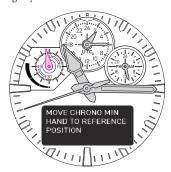
#### 3 Check the reference positions of them referring to the illustration above.

• Press buttons (a) and (a) at the same time to check the position of the hand beneath the minute hand. After pressing them, the minute hand slightly move away and you can see the position of the hand. Press buttons (a) and (a) at the same time again to move the minute hand back.

	Press and release the middle right button ${}^{\circledR}$ to proceed to step ${\bf 7}$ and finish the procedure.
Wrong	Proceed to step <b>4</b> and correct the reference position.

Press and release the lower right button (a) or the upper right button (b) repeatedly to choose "TO CORRECT" and press the middle right button (b).

The function hand slightly moves and the hand becomes adjustable.



- 5 Press and release the lower right button S or the upper right button S repeatedly to adjust the reference position of the hand and press the middle right button B.
  - Press and hold button (a) or (c) to move the hand continuously.

#### 6 Repeat step 5.

- Adjust the reference position in the following order.
   Function hand → UTC indication → hour, minute and 24-hour hands → second hand
- When adjusting the UTC indication, the minute hand temporarily moves away not to interrupt view of the indication.
- If you press and hold button 

   ® for 2 seconds or more during adjustment, "SETTING COMPLETE" appears and the current positions of the hands are set as their reference position.

After adjusting the reference position of the second hand, "SETTING COMPLETE" appears and adjustment is finished.

7 Press and release the lower right button (a) or the upper right button (c) repeatedly to choose "EXIT" and press the middle right button (B).

The mode changes to CALENDAR (time and calendar)

#### All Reset

When the watch does not work properly, you can reset all the settings. If the power reserve is insufficient, charge the watch first.

Be sure to perform the following operations after All Reset.

1 Correct the reference positions.

After All Reset, the watch is in the reference position adjustment mode. Refer to step  ${\bf 5}$  and after on page 11.

**2** Adjust the time and calendar.

See page 4.

1 Press and hold the lower right button (a), the middle right button (b) and the upper right button (c) at the same time for 4 seconds or more and release them.

The LCD indication is turned off and all reset is performed. Wait until movement of the hands stops.

## ■ The setting values after All Reset

Time	0 hours 00 minutes 00 seconds
Day, date, month and year	January 01, 2024 (Monday)
Time zone setting	UTC
Summer time/ standard time	Standard time in all areas
World time	New York

## Eco-Drive watch handling precautions

#### <Always Make Sure to Recharge Frequently>

- Long sleeves may inhibit light transmission to your watch. This may result in your watch loosing charge. In these cases supplemental charging may be necessary.
- When you take off the watch, try to place it in as bright a location as possible. This will ensure
  optimal operation.

## **CAUTION** Recharging Precautions

- Do not charge the watch at a high temperature (about 60°C (140°F) or higher) as doing so may cause the movement to malfunction.
- Charging the watch too close to a light source which generates a large amount of heat such as an incandescent lamp or halogen lamp. When charging under an incandescent lamp, be sure to leave 50 cm (20 inches) or more between the lamp and the watch to avoid exposing the watch to excessive heat.
- Charging the watch in a location where the temperature may become extremely high such as on the dashboard of a vehicle.



#### <Replacement of Rechargeable Cell>

This watch utilizes a special rechargeable cell that does not require periodical replacement.
 However power consumption may increase after using the watch for a number of years due to wear of internal components and deterioration of oils. This may cause stored power to be depleted at a faster rate.

## WARNING Handling of Rechargeable Cell

- The rechargeable cell should never be removed from the watch. If for any reason it becomes necessary
  to remove the rechargeable cell from the watch, keep out of the reach of children to prevent accidental
  swallowing. If the rechargeable cell is accidentally swallowed, consult a doctor immediately.
- Do not dispose of the rechargeable cell with ordinary garbage. Please follow the instructions of your municipality regarding collection of batteries to prevent the risk of fire or environmental contamination.

## **!** WARNING Use Only the Specified Battery

• Never use a battery other than the rechargeable cell specified for use in this watch. Although the watch structure is designed so that it will not operate when another type of battery is installed, if a conventional watch battery or other type of battery is installed in the watch and the watch is recharged, there is the risk of overcharging which may cause the battery to rupture. This can cause damage to the watch and injury to the wearer. When replacing the rechargeable cell, always make sure to use the designated rechargeable cell.

## **Water resistance**

## WARNING Water resistance

- Refer to the watch dial and/or the case back for the indication of the water resistance of your watch. The
  following chart provides examples of use for reference to ensure that your watch is used properly. (The
  unit "1bar" is roughly equal to 1 atmosphere.)
- WATER RESIST(ANT) ×× bar may also be indicated as W.R.×× bar.
- Non-water resistant models are not designed to come into contact with any moisture. Take care not to
  expose a watch with this rating to any type of moisture.
- Water resistance for daily use (to 3 atmospheres) means the watch is water resistant for occasional accidental splashing.
- Upgraded water-resistance for daily use (to 5 atmospheres) means that the watch may be worn while swimming, but is not to be worn while skin diving or scuba diving.
- $\bullet$  Upgraded water-resistance for daily use (to 10/20 atmospheres) means that the watch may be worn while skin diving, but not while scuba diving or saturated diving using helium gas.

	Indication		1	Water-related use				
Name	Dial or Case back	Specification	Minor exposure to water (washing face, rain, etc.)	Swimming and general washing work	Skin diving, marine sports	Scuba diving using an air tank	Saturation diving using helium gas	Operate the crown or button when the watch is wet
Non-water resistant	-	Non-water resistant	NO	NO	NO	NO	NO	NO
Everyday-use water resistant watch	WATER RESIST	Water-resistant to 3 atmospheres	ОК	NO	NO	NO	NO	NO
Upgraded	W. R. 5 bar	Water-resistant to 5 atmospheres	ок	ок	NO	NO	NO	NO
everyday use water resistant watch	W. R. 10 bar W. R. 20 bar	Water-resistant to 10 and 20 atmospheres	ОК	ок	ок	NO	NO	NO

## Precautionary items and usage limitations

## **AUTION** To Avoid Injury

- Be particularly careful when wearing your watch while holding a small child, to avoid injury.
- $\bullet \ \ \text{Be particularly careful when engaged in strenuous exercise or work, to avoid injury to yourself and others.}$
- Do NOT wear your watch while in a sauna or other location where your watch may become excessively hot, since there is the risk of burns.
- Be careful when putting on and taking off your watch, since there is a risk of damaging your fingernails, depending on the manner in which the band is fastened.
- $\bullet$  Take off your watch before going to bed. It may cause an unexpected injury or a rash.

#### ! CAUTION Precautions

- Always use the watch with the crown pushed in (normal position). If the crown is of the screw lock-type, make sure it is securely locked.
- Do not operate (use the crown and/or buttons) the watch when it is wet. Water may enter the watch causing damage to vital components.
- If water enters the watch or the watch fogs up and does not clear up even after a long time, consult your dealer or an authorized service center for inspection and/or repair.
- Even if your watch has a high level of water resistance, please be careful of the following.
- If your watch is immersed in sea water, rinse thoroughly with fresh water and wipe with a dry cloth.
- Do not pour water from a tap directly onto your watch
- Take off your watch before taking a bath.
- If seawater enters the watch, place the watch in a box or plastic bag and immediately take it in for repair.
   Otherwise, pressure inside the watch will increase, and parts (crystal, crown, push button, etc.) may come off.

## !CAUTION When Wearing Your Watch

#### <Band>

- Leather bands and rubber (urethane) bands will deteriorate over time due to perspiration or dirt. In addition, they are made of natural material and will be worn, deformed and discolored over time. It is recommended to replace with a new one periodically.
- The durability of a leather band may be affected when wet (fading, peeling of adhesive), owing to the properties of the material. Moreover, wet leather may cause a rash.
- Do not stain a leather band with substances containing volatile materials, bleach, alcohol (including cosmetics). Discoloration and premature aging may be occurred. Ultraviolet light such as direct sunlight may cause discoloration or deformation.
- $\bullet$  It is recommended to take off the watch if it gets wet, even if the watch itself is water-resistant.
- Do not wear the band too tightly. Try to leave enough space between the band and your skin to allow
  adequate ventilation.
- The rubber (urethane) band may be stained by dyes or soil present in or on clothing or other accessories.
   Since these stains may not be removable, caution is required when wearing your watch with items that tend to easily transfer color (articles of clothing, purses, etc.). In addition, the band may be deteriorated by solvents or moisture in the air. Replace with a new one when it has lost elasticity or become cracked.
- $\bullet$  Please request adjustment or repair of the band in the following cases:
- You notice an abnormality with the band due to corrosion.
- The pin of the band is protruding.
- We recommend seeking the assistance of an experienced watch technician for sizing of your watch. If
  adjustment is not done correctly, the bracelet may unexpectedly become detached leading to loss of your
  watch or injury (excluding products containing the band adjustment tool).
- Consult an authorized service center. Other shops may charge for, or may not provide, the service.

#### <Temperature>

• The watch may stop or the function of the watch may be impaired in extremely high or low temperature. Do not use the watch in places where the temperature is outside the operating temperature range as stated in the specifications.

## <Magnetism>

Analog quartz watches are powered by a step motor that uses a magnet. Subjecting the watch to strong
magnetism from the outside can cause the motor to operate improperly and prevent the watch from
keeping time accurately.

Do not allow the watch to come into close proximity to magnetic health devices (magnetic necklaces, magnetic elastic bands, etc.) or the magnets used in the latches of refrigerator doors, clasps used in handbags, the speaker of a cell phone, electromagnetic cooking devices and so on.

#### <Strong Shock>

Avoid dropping the watch or subjecting it to other strong impact. It may cause malfunctions and/or
performance deterioration as well as damage to the case and bracelet.

#### <Static Electricity>

 The integrated circuits (IC) used in quartz watches are sensitive to static electricity. Please note the watch may operate erratically or not at all if exposed to intense static electricity.

#### <Chemicals, Corrosive Gasses and Mercury>

Do not use the watch in environment with chemicals or corrosive gasses. If paint thinner, benzene or
other solvents or products containing these solvents (including gasoline, nail-polish remover, cresol,
bathroom cleaners and adhesives, water repellent, etc.) are allowed to come into contact with the watch,
they may discolor, dissolve or crack the materials. Be careful when handling these chemicals. Contact with
mercury such as that used in thermometers may also cause discoloration of the band and case.

#### < Protective Stickers:

Be sure to remove any protective stickers that may be on your watch (case back, band, clasp, etc.).
 Otherwise, perspiration or moisture may enter the gaps between the protective stickers and the parts, which may result in a skin rash and/or corrosion of the metal parts.



#### **A**CAUTION Always Keep Your Watch Clean

- Rotate the crown while it is pressed in fully and press the buttons periodically so they do not become stuck due to accumulations of foreign matter.
- The case and band of the watch come into direct contact with the skin. Corrosion of the metal or accumulated foreign matter may result in black residue coming from the bracelet when exposed to moisture or perspiration unnoticed soiling such as that caused by perspiration. Be sure to keep your watch
- The case and band of the watch come into direct contact with the skin. In rare circumstances, accumulated dirt, foreign matter may cause irritation with the skin. If you think there is something wrong, discontinue wearing the watch immediately and consult your physician.

  In the case of accumulation of sweat or dirt on a metal band or case, clean thoroughly using a brush and neutral detergent. In the case of a leather or rubber (urethane) band, wipe clean using a dry cloth.
- Leather bands may become discolored by perspiration or dirt. Always keep your leather band clean by

#### **Caring for Your Watch**

- Wipe any dirt or moisture such as perspiration from the case and crystal with a soft cloth.
- $\bullet$  For a metallic, plastic or rubber (urethane) watchband, wash any dirt off with water. Remove the small amounts of dirt trapped between the crevices of the metallic band with a soft brush.
- For a leather band, wipe off dirt using a dry cloth.
- If you will not be using your watch for an extended period of time, carefully wipe off any perspiration, dirt or moisture and store in a proper location, avoiding locations subject to excessively high or low temperatures and high humidity.

#### When Luminous Paint is used for your watch

The paint on the dial and hands helps you with reading the time in a dark place. The luminous paint stores light (daylight or artificial light) and glows in a dark place.

It is free from any radioactive substance or any other material harmful to a human body or environment.

- The light emission gradually becomes weaker as time passes
- The duration of the light ("glow") will vary depending on the brightness, types of and distance from a light source, exposure time, and the amount of the paint.
- The paint may not glow and/or may dissipate quickly if exposure to light was not sufficient.

## **Specifications**

Model	U830	Туре	Solar-powered analog-digital combination watch			
Timekeeping accuracy	Average monthly accuracy: ±15 seconds when worn at normal operation temperatures (between +5°C - +35°C (+41°F - +95°F)					
Operating temperature range	-10°C (14°F) to +60°C (140°F)					
Display functions	Analog section  Time: Hours, minutes, seconds, 24-hour, UTC indication  Chronograph: minute, second  Power reserve: 4 levels  Digital section  Time: hour, minute, area (time zone)  Calendar: year, month, date, days of week  Chronograph  Timer  Alarm  Settings					
Duration	<ul> <li>After charged fully, the watch runs without additional charging: About 1 year</li> <li>When power save functions all the day: About 3 years</li> <li>Power reserve after insufficient charge warning 2 began: About 3 days</li> </ul>					
Battery	Rechargeable cell (manganese dioxide lithium cell), 1pc.					
Additional functions	Solar power function Power generation amount indication function Overcharging prevention function Insufficient charge warning function Power reserve indication Power save function Perpetual calendar (until December 31, 2199) World time (43 areas including 29 time zones) Time difference assigning function Chronograph (up to 24 hours in 0.01-second increments). Countdown timer (up to 99 minutes 59 seconds in 1-second decrement) Alarm function (alarm 1/2) Alarm monitor function Impact detection function  LED lamp					

Specifications and contents are subject to change without prior notice.