## Multi-Purpose Women's Thermometer BT-16R

sophia

# Sophia Ray

# **Instructions for Use**

Thank you for purchasing this Sophia product. Please read the "cautions for safe use" in the Instructions to insure that you use it to full advantage.

#### **CAUTION:**

This Instructions for Use, English version is a translation from the original Japanese instructions, for the purpose of the end users who have difficulties to read Japanese. All warranty is based on the original Japanese instructions. WARRANTY IS EFFECTIVE ONLY IN JAPAN.

#### 注意:

この英文取扱説明書は、日本語の読めないエンドユーザーさまのための日本語版取扱説明書の英訳です。 よって、保証は日本語の取扱説明書にあるものが有効です。 保証は、日本国内のみにおいて有効です。

Manufactured and sold by: **NISHITOMO CO., LTD.** 

449-3 Hiruda, Tamaki-cho, Wataraigun Mie-prefecture, JAPAN

Should you require assistance regarding this product and its operation, please contact our customer service centre.

**Nishitomo Customer Service Centre** 

Free Phone: **0120-01-6987**JAPAN ONLY

Available from 8:30 to 12:00 from 13:00 to 17:30 (except for Saturdays, Sundays, Holidays and company holidays)

E-mail: web@nishitomo.com

Homepage: http://www.nishitomo.com/ (Japanese)

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Check the stored data . (how to recall and check the data)

# **CAUTION FOR SAFE USE**Be sure to read before using the device (page 2 to page 4)

Please read the instruction carefully to insure that you use it to full advantage. "Caution for safe use" (page 2 - page 4) helps toward correct usage and in order to prevent possible accidents, many kinds of signs are showed. The signs and its meanings are as mentioned below.



This sign means possibilities of death or injury of persons when operating wrong against this warning.



This sign means possibilities of injury of persons or material damage when operating wrong against this warning.

Ontional product



This sign means DO NOT do what follows.



This sign means DO what follows.

#### Page 2

Page 1

#### **△**WARNING

∠!\CAUTION

#### Keep the device away from the range of children's hands.

Please avoid that children take the battery cover and swallow down the battery. Consult your doctor immediately when the children have swallowed down the battery and its cover. Avoid pricking your eyes with the thermometer probe. Your eyes might be damaged.



Do not disassemble the device, do not drop it, and



Never place the device near a fire These may cause malfunctioning.



Avoid getting any water on Petit Sophia. This can result in malfunctioning

avoid hard shocks. These may cause malfunctioning



Keep Petit Sophia away from: humidity, direct sunlight, sudden changes in temperature, and dust.



Never put the thermometer probe into boiling water in order to disinfect it.



Do not hold the probe cable and swing it. This can result in malfunctioning.



Keep the device carefully to avoid accidents such as your pet might bite or swallow the battery.



Under some conditions (in the concrete building or underground), the radio-wave clock may be unable to receive the radio signal. Place your device near the window of your room to facilitate signal receiving. And if you place the device near electronic home appliances such as cell phone or personal computer, it may be unable to receive the radio signal. See the page 11 and 12 of this instruction to adjust the clock manually.

#### Page 3

This device is for measuring the basal body temperature (BBT). Never use this for any other purposes than measuring body temperature. It is, however, possible to measure your body temperature (not BBT) in the range of  $34\,^{\circ}\text{C}$  -  $42\,^{\circ}\text{C}$ 



Please measure your BBT every morning to get the precise data. Getting continuously the BBT data can secure the evaluation of the data (secured display of the fertility symbol).



This device is for helping you detect a possible pregnancy and check your bodily conditions Consult your doctor for a secure diagnosis.



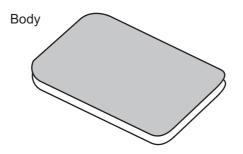
Do not throw the device or the battery into fire. The battery may explode.



Insert a new battery within 3 days after the battery symbol appears

- Be sure to use CR2032 only. Using any other batteries causes malfunctionings.
- Keep the battery out of the reach of children. If swallowed accidentally, please consult your doctor immediately. Do not recharge, short-circuit, disassemble, heat or throw the battery in fire.
- We are not responsible for deleted data due to a dead battery or other causes. We recommend that you use the data check function to take note of the data periodically. Or you can print out the stored data in accordance with the optional service on page 45 - 47.
- When disposing of battery, tape the both side(pole) of battery to insulate it. Contacting with other metals or batteries may cause heat or fire. Follow the local regulation where you live, when you dospose the battery.

#### **Contents of product**



#### Battery for inspection



1 x Coin lithium battery (inserted in the device) Please remove the protection film before use.

\* Battery life will be 6 months under normal use condition. It might be shorter because this was used for factory inspection. And it will be shorter when you often use the backlight.

Instruction for use / guarantee (back cover of this booklet)

Please make sure that you have all the contents. If some items are missing, please phone Nishitomo Service Center immediately. FREE DIAL: 0120-01-6987 (Japanese language only)

Page 5

#### Parts name

- 測温 (Start button)

Starts the measurement. Lights on at alarm time.

- 取消 (Delete button)

Cancels the operating you did.

- 確定/メニュー (Confirm/Menu button)

Calls the operating menu, and confirms the operatings.

- ◀ Left shift/呼出 (Call button)

Calls the temperature data and shift backwards the numbers.

- Right shift/Heart button

Displays the no. of days after fertile day starts and due date, and shift forwards the numbers.

- アラーム/時計設定 (Alarm/Clock setting button) Sets alarm time and receives the wave signal.

- Light button

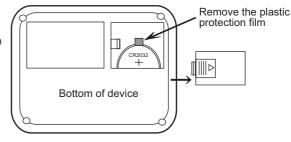
Turns on the backlight for 30 seconds.

# Cable Operating panel Interface socket For optional interface software kit only.

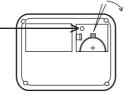
#### Page 6

#### Setting the battery

Reverse the device and slide the battery cover to open the compartment. Remove the plastic protection film. You will hear a beep and the display will appear in the LCD screen.



The small hole beside the battery \_\_\_ is for factory inspection only.
Do not prick or insert anything into it.



#### Changing the battery

Pick up the battery with a sharp stick. Insert a new battery with +(positive) pole upwards(facing to you).

\* When changing the battery, be sure to adjust the date and time of the clock.

#### Life time of the battery

The battery lasts for approx. 6 months. When the battery is low, (low battery) will appear.

Change the battery within 3 days after the low battery symbol appears.



<sup>\*</sup> The stored data does not disappear when you change the battery. However, the calendar function stops when changing the battery. Please set the time and date again after inserting a new battery. The attached battery has been used for inspection and may not last for a full 9 months.

For the details of changing battery, see page 4 carefully.

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#### Setting the date and time (Radio-controlled clock)

Radio-controlled clock can work only in Japan.
If you are out of Japan, please ingnore this function and jump to page 11
to set the date and time manually.

Month

This means the sensivity of wave reception. Place the device where all bars appears to receive the time radio wave.

1. Press theアラーム/時計設定 (Clock setting) button for 2-3 seconds.

It sounds first one beep and soon after sounds another beep. The clock starts to receive the radio signal.

2. Time signal reception symbol) will appear to indicate that the device received the radio signal properly.

Time signal reception symbol does not appear when the device did not receive the time signal properly !!

During receiving the time signal and updating time, this block(temperature graph) will scroll up & down and left & right to indicate that the device is now updating the clock time.

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1<u>6</u> 16

0

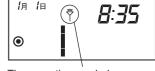
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Case when the device cannot receive the time signal

Reception of radio signals will be interferred by the conditions of your place and houses (concrete buildings and underground). For better reception, place the device near the window and away from electrical appliances, PCs or cell phones. When this happens, see page 11 - 12 for manual settings.

3. One short beep sounds 2-3 minutes later when the signal reception is complete.

When the reception is properly complete, the time signal reception symbol will appear. When the signal reception symbol does not appear, please see page 11 to set the date and time manually. Reception takes up to 10 minutes when the strength of the radio signal is not enough.



 $\bigcirc$ 

Do not place the device near cell phones, PCs and home appliances. Those may interfer the signal reception.

The reception symbol appears when proper reception was made. When the reception symbol does not appear, reception was failed.

#### The clock of this device automatically syncronizes the current time and updates it everyday.

Radio-controlled clock will automatically syncronize the time signal twice a day (2:00 am and 4:00 pm). This automatic syncronization is made sirently. When you wish to operate the device during signal reception, just do it. The device will stop the signal reception and accept your operatings. Press the Del button to stop the manual signal reception, the device will go back to clock mode. In this case, the clock is not updated.

The time signal reception symbol does not appear when the clock is not updated. Set the clock manually.

CAUTION: Adjust the date and time after you replaced the battery. Otherwise the clock remains incorrect.

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Page 9

#### Setting the date and time (manual clock) Example: 10:00 am, 1st of April, 2007

1. Press (Menu button) at normal clock mode.

"Operating guidance symbols(guidance symbols)" appear in the display.

2. Select (clock) symbol using shift button and press確定(Confirm button). (symbol blinks when selected) Enters to date & time setting mode. Year will blink.



3. Set the year using shift button and press 確定 (Confirm button).

Year is confirmed and Month will blink.

\* At first "2006" is displayed. You cannot go back before 2006. Set the year correctly for proper display in leap year.

o 2005

4. Set the month using shift button and press 確定 (Confirm button).

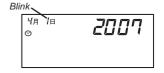
Month is confirmed and Day will blink.

\* At first "1"(January) is displayed. After 12(December), it returns to 1.



#### Page 11

- 5. Set the day using shift button and press 確定(Confirm button). Day is confirmed and Hour will blink.
- \* At first "1" is displayed. It displays 31, 30, 29 or 28(leap year) in accordance with each calendar month.



Blink

4月 1日

0

- 6. Set the hour using shift button and press 確定 (Confirm button). Hour is confirmed and Minute will blink.
  - \* The ckock is 24-hour mode.
- 7. Set the minute using shift button and press 確定(Confirm button).

Minute is confirmed and returns to clock mode(normal mode). Now the manual settings of date and time is complete.

\* After 59, it returns to 00.

If you do not operate any buttons longer than 1 minute during the setting, the display will return to initial mode.



Setting the alarm time (measuring time) Example: Alarm time at 07:00 am CAUTION: you can NOT store your basal temperature without setting the alarm time.

1. Press theアラーム/時計設定 (Clock setting) button at clock mode. It enters to the alarm setting mode.

\* When you set the alarm for the first time, "OFF" is set.

2. Set the alarm hour using shift button and press確定 (Confirm button). Alarm hour is confirmed and alarm minute will blink.

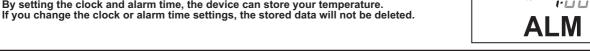
\* Alarm clock is 24-hour display.

3. Set the alarm minute using shift button and press 確定(Confirm button). Alarm minute is confirmed and it returns to clock mode(normal mode). (ring) will appear in the display when you activate the alarm.

\* It returns to 00 after 59.

By setting the clock and alarm time, the device can store your temperature.





#### Turning off the alarm time

"OFF" will blink and press確定(Confirm button).

CAUTION! The device will store the temperature only when the alarm is truned on(activated).

CAUTION! The only measurement that is stored is the one taken one hour before or after the alarm time.

#### Selecting the sound volume of the alarm and operatings.

1. Press the (Menu button) at clock mode. It enters to the operating guidance mode.

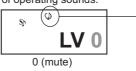
2. Select the  $\mathfrak{S}$  (sound volume setting) using shift button and press 確定(Confirm button). Selected symbol will blink. It enters to the sound volume setting display.

3. Select the sound volume using shift button and press確定 (Confirm button).

You can select 3 sound volumes of Hi(max), Lo(min) and 0(mute). The button operating sound will be minimum when Hi or Lo is selected and will be mute when 0 is selected. You can select two levels of operating sounds.







(mute) symbol will appear when you have set the mute. Lo(minimum) is set at shipping.

**OFF** 

ALM

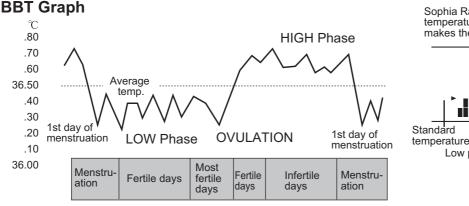
Page 14

#### **Basal Body Temperature (BBT)**

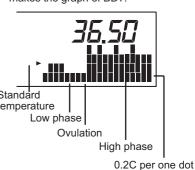
The Basal Body Temperature(BBT) is the body temperature at basal metabolism(at awakening). BBT of a woman draws clear two phases, low and high. A woman has two ovaries, in the left and right, and an ovulation occurs from each ovary alternately. This cycle varies from person to person, but the typical length of the cycle is 28 to 30 days. Measuring the BBT helps you check whether the ovaries are functioning, and to know when ovulation has occurred. The BBT of a woman goes through the low phase but shifts to the high phase during ovulation. The BBT shows a double-phase as shown in the above graph.

Yellow body hormone after ovulation causes this high temperature. The yellow body hormone increases the endometrium(inside surface of womb), as it is making a soft bed for the coming baby. This yellow body hormone will continue to secrete for approx. 3 months when you become pregnant. When, however, a pregnancy has not been achieved, the unused endometrium will come out with the menstrual bleeding. Thus a menstruation begins.

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Sophia Ray stores your basal temperature and automatically makes the graph of BBT.



#### Taking your BBT every morning

The 測温 (Start button) will iluminate green and you will hear the alarm beep at your alarm setting time

- Open the lid of device and take our the thermometer probe.
   The thermometer probe is placed in the back of device.
   (Do not pull the cable strongly)
- 2. Hold the thermometer probe under your tongue. Close your mouth and press the 測温(Start button).

Stops then alarm and starts the measurement. At start of measurement, the backlight will be on for 5 seconds.

Do not speak and open your mouth during measuring.

3. The display shows the status of measurement.

At beginning of measurement

Lo

35.24°c

"1" appears 1 min after the start, "2" appears 2 min after...

測温 (Start button) has two small round patches to easily distinguish from other buttons in a dark room.

Under your

tongue!



#### 4. Completion beep tells you the end of measurement.

You will hear the **1st beep** when your temperature is stable. And the display indicates the completion of **1st measurement**.

\* At this stage, the measurement is complete, but the 2nd completion beep will sound when 5 minutes passed after start of measurement.

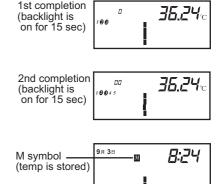
For more secured measurement, you can continue taking temperature 5 minutes after the start of measurement and will hear the **2nd beep**.

Your temperature will be automatically stored.

The 1st measurement will be stored when you stop at the 1st beep and the 2nd measurement will be stored when you stop at the 2nd beep.

The device returns to clock mode, and the **M symbol** will appear to indicate that the temperature is stored.

\* For secured measurement, stop the measurement at the 1st or 2nd and always do the same





Never hold the probe cable and swing around the device. This causes malfunctionings.

#### Page 18

#### How the alarm beep sounds

The alarm goes off for 10 minutes continouesly when not deactivated.

Press 取消 (Delete button) when the alarm goes off, to turn off the alarm and skip the measurement.

\* If you took your temperature within one hour before the alarm time, the alarm does not go off. Or when the M symbol is in the display, the alarm does not go off even if you altered the alarm time settings.

#### If the alarm beep goes off during the measurement

When during measuremnt you moved, rised or the thermometer probe falled out from your mouth, the reading becomes unstable. Intermittent beep will go off for 10 minutes to warn you of a measurement error. Press the Start button again to start from the beginning.

\* You can re-start the measurement 4 times. After the 5th error the display returns to clock mode.

And also, it returns to clock mode after the error beep went off for 10 minutes. Press the Start button after the dislpay returns to clock mode if you wish to measure.



#### Page 19

#### When you wish to delete the measurement and start again.

You can cancel the measured temperature on *that day* after the measurement is finished.

- 1. Press and hold down the 取消(Delete button) for 2 seconds.
  The measurement of today and "dEL" will blink alternately for one minute.
- 2. Press the 確定 (Confirm button) to delete the measurement of today.
- 3. Press the 測温 (Start button) to start the measurement.

(The only measurement that is stored is the one taken one hour before or after the alarm time)

If you wish to cancel this operating, press the 取消 (Delete button) during the measurement of today and "dEL" are blinking or do not any button operatings for one minute and let the symbol blink. The measurement is not deleted.

#### To achieve an accurate temperature recording.

- When the alarm beed sounds, take the temperature just as you are(on the bed). Do not rise, do not go to toilet.
  - Be sure to take temperature under your tongue.
- Do not speak, do not open your mouth while measuring.
- Be sure to set the alarm time. Without setting of the alarm, the device cannot store the data.

Page 20 - Be sure to take temperature at the alarm time.



00000

#### Inputting 1st day of menstruation

Be sure to do it at the menstruation after the start of your device.

1. Press the (Menu button) at clock mode. It enters to the operating guidance mode.

2. Select the arphi (Input mens) using shift button and press 確定 (Confirm button).

The date of that day will blink.

3. Press the 確定 (Confirm button) during the date is blinking. Input of the 1st menstruation is complete.

\* You cannot input it on the day when you purchased the device !!! Please input the next menstruation.

Be sure to input the 1st day of menstruation each time. You can do it any time during the day. You cannot input it within 10 days from the last 1st day of menstruation.

\* When you press the 取消(Delete button) during the operating or do not any operatings for one minute, the above operatings will be canceled and the device returns to clock mode.

ORAZ GER CO BO

When 1st mens was properly recorded, the temp graph shows day 1.

#### Page 21

# **Deleting 1st day of menstruation** If you recorded incorrectly, you can delete the 1st menstruation, but only on that day.

1. Press the (Menu button) at clock mode. It enters to the operating guidance mode.

2. Select the  $\mathscr{D}$  (Deleting mens) using the shift button and press the 確定 (Confirm button).

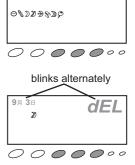
The date of that day(when you recorded 1st mens) and dEL will blink alternately.

3. Press the 確定 (Confirm button) during blinking alternately.

For deleting the input after that day

Deleting the input of 1st menstruation is NOT possible after that day. If you failed to delete it on that day, see page 23 to shift the 1st menstruation to today. After this procedure, follow the above process to delete the input.

\* Press 取消(Delete button) during each operating or do not any button operatings for one minute to cancel the operatings and return to clock mode.



#### Page 22

#### Correcting 1st day of menstruation

1. Press the (Menu button) at clock mode. It enters to the operating guidance mode.

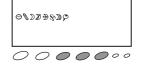
2. Select the 🕏 (Correcting mens) using the shift button and press the 確定 (Confirm button).

The date will blink for one minute.

3. Set the date you wish using the shift button during the date is blinking and press the 確定 (Confirm button).

Correcting the date of 1st menstruation is complete.

- \* The date of today does not change even though you changed the 1st day of menstruation. It is impossible to input it within 10 days from the last 1st day of menstruation, and to forward the 1st day of menstruation.
- \* Press 取消(Delete button) during each operating or do not any button operatings for one minute to cancel the operatings and return to clock mode.





After you corrected the 1st day of menstruation, the device will re-calculate the data. By this re-calculations the standard temperature and fertile days may change.

#### Page 23

#### When you failed too input the 1st day of menstruation

- 1. First input the temporary date (see page 21).
- 2. Next shift the date to the correct one (see page 23).

Correcting the date of 1st menstruation is complete.

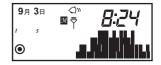
#### You may have failed to input the 1st day of menstruation.

You may have failed to input the 1st day of menstruation when the high phase continues for over 10 days and your BBT drops under the average temperature for several days. You will be informed as follows. *1* symbol wil blink and the fertile symbol 

will be displayed.

Automatic input of 1st day of menstruation. In case of the following, the 1st menstruation day is recorded automatically.

- If you set the bleeding  $\times$  for three consecutive days and 1 symbol is displayed. (That is set to the first day you recorded the bleeding memo)
- If 100 days passed without recording the 1st day of menstruation. (It will be recorded on 100th day as max. length of a cycle is 99 days.)



#### Inputting memo of bodily conditions



Bleeding at the time of menstruation and on other occasions.



Pains at the pelvic area at the time of menstruation.

Sexual intercourse

Please input this when yo have an intercourse for your family planning.

# Cervical mucus (3 levels)

Three types of cervical mucus.

Check how long the mucus stretches. First, open your legs wide and put your fingers into the vagina. When you reach the cervix of uterus(womb), take out the mucus there. Spread the mucus with the thumb and index finger. The mucus increases when the time of ovulation approaches.

Before ovulation, barely stretches.



2-3 days before ovulation, stretches1.2"-2.0"(3 - 5cm).



At the time ovulation. stretches 3.9" (10-15cm).



QCARECCE

#### Page 25



Please input this when you have a fever.



#### Medication

Please input this when you are taking cold tablets such as asprin, etc.

#### How to input the memo of bodily conditions Operate this on that day

- 1. Press the (Menu button) at clock mode. It enters to the operating guidance mode.
- 2. Select the (bodily memo) using the shift button and press the 確定 (Confirm button).

Bleeding symbol of bodily memo will blink. Press the shift button to select the symbol you wish. Selected symbol will blink.

Press the 確定 (Confirm button) during the symbol you wish is blinking. The memo symbol you wish and the "measured" symbol(M symbol) will appear and

inputting the memo is complete. \* Press 取消(Delete button) during each operating or do not any button operatings

for one minute to cancel the operatings and return to clock mode. When you could not input the memo on that day, follow the page 31

# How to delete the memo of bodily conditions when you have input the

Operate this on that day wrong memo.

1. Press the (Menu button) at clock mode. It enters to the operating guidance mode.

to record it the following day.

2. Select the  ${\color{orange} \mathbb{Q}}$  (bodily memo) using the shift button and press the 確定 (Confirm button).

The bodily memo recorded and "measured" symbol(M symbol) will blink. Press the shift button to select the symbol you wish. Selected symbol will blink.

3. Select the memo symbol you wish to delete using the shift button and press the 確定 (Confirm button).

The memo symbol you wish and the "measured" symbol(M symbol) will appear and inputting the memo is complete.

\* Press 取消(Delete button) during each operating or do not any button operatings for one minute to cancel the operatings and return to clock mode.

When you could not input the memo on that day, follow the page 31 to record it the following day.

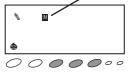
# QC18@CC180 0000000

Symbol for "measured"

0000

appears when stored.

Symbol for "measured" disappears when deleted.



#### Page 27

Page 26

#### Check the stored data How to recall and check the data stored in the device. The device stores up to 12 cycles of data.

The memory holds data of up to 12 cycles, including the record of each individual day from beginning to end, with a maximum limit of 500 days. To check the contents of each cycles, you can retrieve the cycle, one at a time, up to 12 cycles, or as many as are recorded in 500 days. When a new cycle begins and the memory already has 12 cycles, the oldest cycle is deleted from the memory. Each cycle begins with the first day of menstruation and ends with the final day before the next menstruation.

Cycle 1 (first cycl You can retrieve and check the cycle one by one, and check the temperature and memo recordings of each day

Cycle 12 (12th cycle)

Cycle day is the no. of days in a cycle counted from the 1st day of menstruation. One cycle lasts normally 28 - 30 days from the 1st day of mensruation to the next 1st day of menstruation.



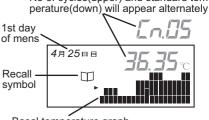
#### How to retrieve and check the data

1. Press the 呼出 (Recall button) at clock mode.

In the display screen, the **no. of cycles and standard temperature** will appear alternately, and the **1st day of menstruation**, **basal temperature and recall symbol** will appear.

\* After the 3rd cycle the standard(average) temperature will be calculated to show your own one. Until then, the standard temperature is preprogrammed to 36,50°C at factory.

When your standard temperature is calculated, the standard temperature symbol will appear on the left of display screen.



No of cycles(upper) and standard tem-

Basal temperature graph

Average temperature is the standard temperature to detect the high and low phase, and that is preprogrammed to 36.50 °C until the end of the second cycle. From the third cycle, the device begins displaying your own average temperature which is calculated from the previous data. This average temperature is your own particular one. When you skip the measurement for a few days, or when the difference between the high and low phase is unclear and too small, the device is NOT able to calculate the average temperature. Please measure your BBT every day.

Temperatures under 34.00  $^{\circ}$ C are not recorded, and the above 37.50  $^{\circ}$ C are recorded, but not used for evaluation. This is to avoid mis-calculation and calculating the temperature of fever. The temperature graph might show the low phase only or the high only, when the average temperature is not calculated.

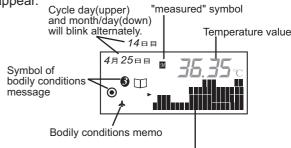
#### Page 29

# 2. Select the cycle you wish to check by using the shift button and press the 確定 (Confirm button).

The data of the last day in the cycle you chose will appear.

- Dispyal of temperature graph
  The graph you are checking will blink.
- Temperature value
- Display of date and cycle day will blink alternately
- Display of bodily conditions memo
- The memo in the day you are checking will appear

   Display of "measured" symbol
- will appear on the day when you measured
- Display of bodily conditions message symbol



3. You can check the data day by day by using the shift button

Basal temperature graph

Page 30

# \* Press 取消(Delete button) during each operating or do not any button operatings for one minute to cancel the operatings and return to clock mode.

#### Recording/deleting the bodily memo at data check mode

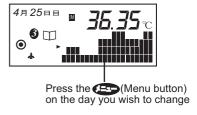
- Recall the day when you wish to record or delete the bodily memo in accordance with the procedure on page 29.
- 2. Press the (Menu button) when you enter the day. It enters the screen for recording the bodily memo.
- Select the memo symbol you wish to record or delete by using the shift button. The symbol will blink. Press the 確定 (Confirm button).

#### When you recorded

The "measured" symbol (M symbol) will blink together with the memo symbol you just recorded by the procedure.

#### When you deleted

The "measured" symbol (M symbol) will disappear when you deleted the memo.



When recorded, M symbol will appear when deleted, it will disappear.

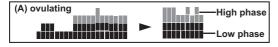


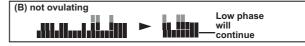
\* Press 取消(Delete button) during each operating to return to the previous stage. or do not any button operatings for one minute to cancel the operatings and return to clock mode.

#### How to utilize the basal temperature graph

#### 2. You can detect whether you ovulate or not

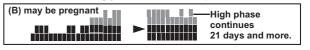
The BBT of a woman who ovulates will record a double-phase temperature, first a low then a high phase; wheareas if there is no ovulation the bi-phasic pattern does not develop. A woman in puberty may experience menstruation without ovulation because her ovarian functions are still immature. However, if a mature woman does not ovulate, or if her high temperature phase continues only for a week or so before the next menstruation begins(progesterone malfunction)she is advised to consult a physician since her ovaries may not be functioning normally. If you experience such conditions see a physicain at your earliest convenience.





Case (A): If the low phase continues for a longer time than usual, you are not pregnant but your ovulation is delayed. Hormonal imbalances, stress, other causes may delay ovulation. Or a menopause, when hormonal imbalance or insufficiencies occur, may be the reason Case (B): If the high phase continues for 21 days and more and your menstruation does not start, you may be pregnant. In this case, the symbol will inform you of that. Thus, taking your BBT will be helpful to detect the reasons.





Page 32

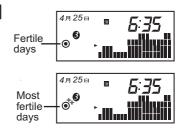
Page 31

#### Fertile days [the period when are likely to get pregnant]

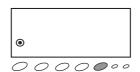
⊚ symbol indicates your fertile days, in addition, ⋄ symbol will blink to indicate the most fertile days.

This device displays ③symbol(birth control symbol) to inform you that you are at fertile days. And when you enter the *most fertile days*, in addition to the above symbol ﴿ (flash) symbol will blink. Thus, the device will inform you of the fertile days by two steps.

\* This symbol will disappear a few days after entering the high phase. It may appear again when after that your temperature lowers under the standard temperature.



Press and hold the Heart button to display the no. of days after entering the fertile days. (the time during this symbol appears)



Display of fertile days is calculated by combination of Knaus-Ogino, basal temperature and cervical mucus methods (when you input the mucus only).

PLEASE USE THIS INFORMATION AS A REFERENCE ONLY. WE TAKE NO RESPONSIBILITIES FOR THE RESULTS.

#### Page 33

#### Display of the flash symbol

This indication will appear from the 3rd cycle from your new purchase. And when the device cannot detecet your ovulation, it will not appear. If your menstural cycle is not stable, actual ovulation day and the day of flash symbol will not same.

#### Display of the fertile day symbol

At an early stage since you started measuring, Sophia Ray cannot detect your ovulation due to lack of data. The following should happen.

- On the 1ST CYCLE after starting BBT measurement(no input of 1st day of menstruation), the fertile symbol appears everyday.
- On the 2ND CYCLE after starting BBT measurement (one input of 1st day of menstruation), the fertile symbol appears everyday from the 6th day of that cycle.
- From the 3RD CYCLE after starting BBT measurement, the fertile days are detected by the stored data.
- \* The fertile symbol may appear during the period of the menstruation.

Should one of the following happen, Sophia Ray cannot detect your ovulation, therefore the fertile symbol does not appear properly

- If you forget to input the 1st day of menstruation.
- If your temperature shift(from low to high phase) is too small.
- If you often skip the daily measurement.

If your menstrual cycle is not stable, you are not ovulating or you skip often the measurement, the fertile day symbol continues to be "on". When you record the 1st day of menstruation during 4 (flash) symbol is blinking, it blinks on that day. During the 4 (flash) symbol is blinking, the backlight ilumination of display screen changes from GREEN to ORANGE colour.

#### Page 34

#### **Predicted ovulation**

1. Press the (Menu button) at clock mode. The memo items will appear in the display screen.

2. Select the  $\mathop{\mathcal{P}}$  symbol(predicted ovulation) using the shift button. Press the 確定 (Confirm button). The symbol will blink.

The date of the predicted ovulation will blink for one minute.

\* "-- -- will appear on the top left of screen when it is over the ovulation in that cycle. On the next cycle, the date of predicted ovulation will appear there.

This appears when it's over the predicted ovulation.

Predicted

ovulation

(month/day)

QCARECCEO

· 1月 25日

) *0 0 0 0 0 0* 0 0

c

This indication can be available after the 3rd cycle

Page 35

\* Press 取消(Delete button) during each operating, or do not any button operatings for one minute to cancel the operatings and return to clock mode.

#### **Next menstruation (predicted menstruation)**

1. Press the (Menu button) at clock mode. The memo items will appear in the display screen.

2. Select the ② symbol(predicted ovulation) using the shift button. Press the 確定 (Confirm button). The symbol will blink.

The date of the predicted menstruation will blink for one minute.

QCOCCE CC PO

000000

This indication can be available after the 3rd cycle

<sup>\*</sup> Press 取消(Delete button) during each operating, or do not any button operatings for one minute to cancel the operatings and return to clock mode.

## 🌹 (Heart) symbol tells you a possible pregnancy

You might be pregnant if the high phase continues for over 21 days after the low phase. Sophia Ray informs you of that with (heart) symbol.

#### About the Heart symbol indication

- The heart symbol can appear beginning with the second cycle after you begin to use Sophia Ray.
- If you set the 1st day of menstruation for a new cycle, the heart symbol will disappear.
- If your BBT data is very irregular, the heart symbol can appear on the days on which you could be fertile, for reasons of protection.



If the high phase continues for over 21 days, this appears. But, it may not appear depending on the temperature shift from low to high phase.

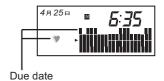
When yellow body hormone(progesterone) is secreted after ovulation, this raises a woman's BBT. If conception does not occur, the next menstruation will begin after 14 days. In general, if the high phase continues more than 21 days, a woman could be pregnant. Petit Sophia informs you of a possible pregnancy by the heart symbol beginning with the 21st day. The BBT will drop down beginning with the 13-14th week of pregnancy, until this the high phase will continue. The BBT changes particular to women can be used for health care even after a conception is confirmed. When you detect any irregularity on your BBT or feel an abnormal body condition, we recommend you to consult your doctor at your earliest convenience.

#### Page 37

#### Due date (when the heart symbol appears)

When the Heart symbol appears, press and hold the Heart button at clock mode to display the due date.

\* Due date is calculated from the stored temperature data. Please use this for your reference only.



#### About the Heart symbol and Due data

If the Sophia Ray was not able to detect the ovulation on the current cycle, the Heart symbol does not appear even though you are pregnant.

It is not able to detect the ovulation if the temperature shift from low to high phase is too small or you often skip the daily measurement.

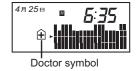
It is very important for the health care of you and your baby to detect a possible pregnancy at an early stage. When a pregnancy is detected, we recommend you to consult your doctor immediately.

#### Page 38

## **★** Doctor symbol tells you a possibility of your bodily abnormalities

Based on the stored data and the memo recordings, the doctor symbol will appear for 3 days to warn you that you might need to consult a doctor.

The doctor symbol will appear beginning with the 2nd cycle after you begin the use of the device. Your daily stored temperature data and memo recordings enable the device to detect your bodily abnormalities.



#### Doctor symbol will appear:

- For 3 days after the heart symbol appears.
- When your temperature drops lower than average for 2 days in succession after the heart symbol appears.
- When you record bleeding, cramps or mucus in the memo starting 3 days after your high phase begins.
   When bleeding is recorded in the memo for over 10 days.
- When you set the 1st day of menstruation after fewer than 7 days from the entry of high phase.

When the doctor symbol appears and you feel any bodily abnormalities, we recommend you to consult your doctor.

During the period when the doctor symbol appears, the backlight of the screen changes from GREEN to ORANGE.

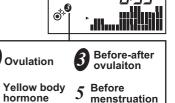
During

menstruation

#### Page 39

#### Next menstruation (predicted menstruation)

The bodily condition goes through 5 phases during the course of a cycle. By paying attention to these one can access the most effective times for dieting and skin care. With the display in the time mode, an index number below the time and to the left tells in which phase your body is at present.



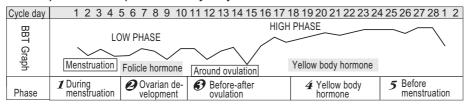
4月25日

These indications will appear from the 2nd cycle. And also they will not be displayed when the Heart symbol appears because a possible pregnancy means that you are not on any phase 1 to 5. (in this case, "5" continues to be on the display until the Heart symbol appear)

And if your temperature cuve does not show a clear bi-phase, phase 3 might be always displayed.

And also, "4" may appear after "2" beyond "3". "1" may blink when "4" or "5" appears on the display.

#### Temperature Graph and Bodily Rhythm



For your effective dieting

The effective time

The most effective times to lose weight by dieting are during the roughly two weeks of phases 2-3, i.e. the ovarian development and peri-ovulation times. After menstruation before the next measure that the lost in the lost before the next menstruation the body tends naturally to return to its basic weight. It is during this time one's sense of good feeling and the bodily condition itself combine to make it the prime time for reducing weight. Bodily metabolism begins in top condition at this time, simple gymnastics and care in eating are effective.

The least effective time

The least effective times to lose weight are during phases 1,4 and 5. During about 7-10 days before the expected menstruation and during that, the bodily metabolism is sluggish, the physical condition begins insecure, the body tend to swell and take on weight. Even if you diet hard at this time, do not expect too much success. It's good to relax during this time and to wait for the next phases to slim.

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#### Matching skin care with one's bodily rhythm

During menstruation

One's metabolism is sluggish, the skin becomes oily, acne or rashes tend to break out. This is not a good time to change your basic make up materials. Give your skin a rest during this phase.

Yellow body hormone

Similar to the phase 1, the metabolism becomes less active and the skin becomes oily, acne and rashes tend to break out. And also the skin becomes sensitive for UV light. Give your skin a rest during this phase.

Ovarian development The skin tends to be soft, tender, and glowing. Metabolism is in prime condition and new cells are produced. It's a good time to test a change of cosmetics to try something

Before men struation

Same as phase 4. Your mental condition becomes unstable, and skin goes to a bad condition. Constipation migh be possible during this phase. Pay your attention to the nutrition, try to take much of Vitamin B6, Magnesium and fibre. Do not take too much water.

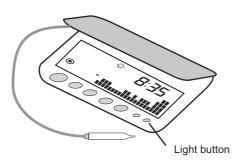
Before-after

ovulation

Three days before and after ovulation, the skin is in its best and most beautiful condition. It's the perfect time to check the skin and to shave one's face. However, some people's skin become super-sensitive at this time.

#### Page 42

#### Backlight of the display screen



Press the light button to illuminate the screen for 30 seconds.

Two colours of the backlight inform you: Green: you are in normal condition Orange: you are in the most fertile days and the doctor symbol is on.

\* The backlight does not illuminate when you are measuring, during the device is receiving the radio time signal and when you press and hold the heart button.

Please use this backlight in a dark room. Day time and in a bright room, you cannot use this function to full advantage. If you frequently turn on the backlight, the battery life will be shorter.

#### Page 43

#### Deleting all data and once again using the device from the beginning.

You can initialize the device, that is you can delete the date settings, temperature data, bodily memo recordings, 1st day of menstruation, etc.

- 1. Remove the battery first.
- 2. Press確定 (Confirm button) and simultaneously insert the battery. "C L r n" will appear and "n" will blink.
- 3. Let "y" blink using the shift button and press <sup>傩定</sup>(Confirm button). By the above operating, all the data is competely deleted. It is impossible to return. If you stop to delete the data, press確定(Confirm button) during the "n" blinks or press 取消 (Delete button) after the above operating 2 to cancel the operating.
- \* Press 取消(Delete button) during each operating, or do not any button operatings for one minute to cancel the operatings and return to clock mode.

 $CLr_{\setminus}$ 

Press and hold 確定 (Confirm button) and insert the battery. "n" blinks at

"CLrn" display

**CLrn** 

Let "y" blink using the shift button and press 確定 (Confirm button). Now all data is deleted.

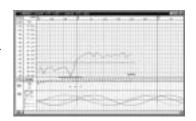
When you use the device again after deleting all the data, please do the basic settings, such as the month/day, clock and alarm time.

#### "MADONNA" Personal Computer Software Kit

You can transfer the stored data from your Sophia Ray to your personal computer.

- Store accurate temperature records and other data for long-term usage. This is especially useful for fertility treatment.
- 2. Display your basal body temperature on the screen to review it.
- 3. Calculate the length of your progesterone period, which is useful for fertility treatment.
- 4. Print out your basal body temperature data.
- 5. Use it for teaching purposes in school.

You can order at your local drug store or home appliance store. MADONNA software kit is not displayed at store shelf.



MADONNA software kit is available **only in Japanese version**. If you have Japanese windows in your PC, you may use this. However, we do not guarantee that you can use it out of Japan.

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#### Check your personal computer

It can be used for Windows 95, 98, 2000, Me and XP. Macintosh cannot be used.

#### Check the type of your computer cable

Find the cable socket for peripheral instruments on the back or front side of your computer.

USB port

USB Madonna Model no: US-02 R\$232C (9 pins)

Petit Madonna Model no: MD-02

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MADONNA software kit is available **only in Japanese version**. If you have Japanese windows in your PC, you may use this. However, we do not guarantee that you can use it out of Japan.

**Optional Service** 

Print our service Data Shuttle "Hikyaku" (=postman) charged service

For those who does not have a personal computer.

- 1. You send a request to Nishitomo Service Centre
- 2. Nishitomo sends the Data Shuttle "Hikyaku" to you.
- 3. You copy the stored data to the data shuttle and send ti back to Nishitomo.
- 4. Nishitomo prints out your data copied in the data shuttle and send them to you.

Data Shuttle "Hikyaku" is available **only in Japan.**If you accept Japanese but live out of Japan, you are unable to enjoy this optional service. We ask for your kind understanding.

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#### When something happened

No display	Inserted the battery correctly? Is battery not low?	See page 7and 8
Alarm does not sound	Make sure whether you have set the alarm time. Loudness adjusted to zero	See page 13 See page 14
Beep during measurement	Error buzz for wrong measurement	See page 19
Display of "out of range"	During measurement <b>Lo</b> or <b>Hi</b> may appear. (Lo appears when lower than 34C, Hi appears when over 42C)	
1 symbol blinks and ⊚ lights up.	Did you for sure input the 1st day of menstruation?	See page 24
When it is already in a new cycle	1st day of menstruation was automatically recorded.	See page 24
symbol does not disappear	Due to not enough data since start of use.	See page 34
	Battery is low, Please change the battery.	See page 8

#### Maintenance

To clean the thermometer probe, use tissue paper moistened with water or wipe it with a soft cotton cloth soaked in cleanser, then dry it. Clean the device itself with a cotton cloth.



NEVER use a flammable liquid(thinner or benzene). NEVER disinfect the thermometer probe with a boiling water.

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#### **After Service and Guarantee**

#### CAUTION: The GUARANTEE is effective ONLY in Japan. When you buy the Sophia device in Japan and use it in a foreign country, you use it at your own risk.

The guarantee is valid for one year from the date of purchase.

The service centre will do repairs in accordance with the contents of the guarantee. See the document for details.

Repair after expire of the guarantee period

After one year of guarantee had expired, consult the service centre for repairs if necessary. The centre will do the repairs for pay in accordance with the request of the customer.

On issues not clear

Consult with the store of purchase or with our service centre. (you can email in English)

#### **Product Specification**

\* Design, specifications etc. are subject to change without prior notice.

Voltage:

Power:

Graph display:

Woman's electronic thermometer BT-16 Name for sale: Woman's thermometer Sophia Ray BT-16R Nick name: Measurement method: Five minute measurement in two phases

with thermistor, peak holding method with

zero gradient. 34.00 to 40.00 ℃

Measurement range: +/-0.05°C (35.00-38.00°C) +/-0.1°C (34.00-34.99°C & 38.01-40.00°C) Accuracy:

Details of display: 4 digits, 0.01°C range

DC 3Volts (1 x CR2032) Approx. 2mA(when measuring) Approx.  $30 \,^{\mu}$  A(when on OFF) + 5 to +  $40 \,^{\circ}$ C - 20 to +  $60 \,^{\circ}$ C Operating temperature: Storage temperature:

Size: 90mm x 22mm x 74mm Weight:

Approx. 94 grammes (incl. battery) Coin lithium battery, 1 x CR2032 Attachment:

Instructions for Use

view of 20 days display (4 levels)

**EMS Compliance** 

This product is complied with the EMC standard JIS T 0601-1-2: 2002 Medical device approval no.: 218AGBZX00032000 (JAPAN)

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#### Conditions of Guarantee

Even during the duration of the guarantee, a charge for repairs will be made in the following cases.
 a) If it was used wrongly, or if it was damaged or broken by reconstructing it or by repairing it badly.
 b) If the damage was caused after purchase by dropping, moving, shipping, etc.
 c) If the harm or damage was caused by fire, earthquake, flood, lightning, or other natural causes, or by public turmoil, or by the wrong electric voltage, or by other external cause.

d) If it was used for purposes other than described in the manual.

e) If this certificate is not presented, or if the date of purchase, name of purchaser, and specification of the place or purchase are not filled out in this certificate, or if the contents were altered. f) For the parts of consumption.

g) If the damage was done by causes other than the device itself.

2. In case you move, consult in advance the store where you purchased the device.

3. If by reason of purchase by mail, or other you cannot entrust a dealer for repair, please consult directly with the manufacturer.

4. This certificate is effective only in Japan.

5. Because this certificate cannot be re-issued, please preserve it carefully.
6. This certificate guarantees repair of the instrument without cost during the time specified and under the conditions mentioned. If after the specified time expired there is any question about repair please inquire at the store where you purchased it, or at the service centre of the manufacturer as listed in the manual, as this certificate puts on no limitations on the legal rights of the purchaser.

#### Page 50

#### Certificate of Guarantee

#### CAUTION

This is just a translation of the Certificate of Guarantee for the purpose of showing, what is mentioned. Only the original Japanese one is effective. Please fill out the original Japanese one in the user's manual. DO NOT USE THIS SECTION FOR GUARANTEE.

The guarantee will not be available if you did not fill in this form.

Model No. : BT-016, Woman's electronic thermometer	Duration of guarantee	1 YEAR
★ Your Name		
★ Your address	•	
<b>*</b> Telep	ohone	
Reference only	/	
★ Name and address of the store where you purchased		
<b>★</b> Da	ate of purchase	
(d	ay) (mont	th) (year)

Without filling ★ section the guarantee will not be effective. Be sure to fill them out in the oirginal Japanese one