

No Touch

THERMOMETER

Model 960



Instruction Manual

Introduction

Thank you for purchasing the No Touch Thermometer, the latest technology method for measuring temperature.

About the No Touch Thermometer

The No Touch Thermometer is based on the latest infrared technology developed by Bio-Ray AG, the thermometry experts.

The No Touch Thermometer measures body temperature in a NON-INVASIVE way, with no direct contact, making it the most SAFE and HYGIENIC device.

The No Touch Thermometer is ACCURATE and meets the accuracy requirements of ASTM E-1965-98 standard.

Every thermometer is tested and examined prior to packaging.

How Does It Work

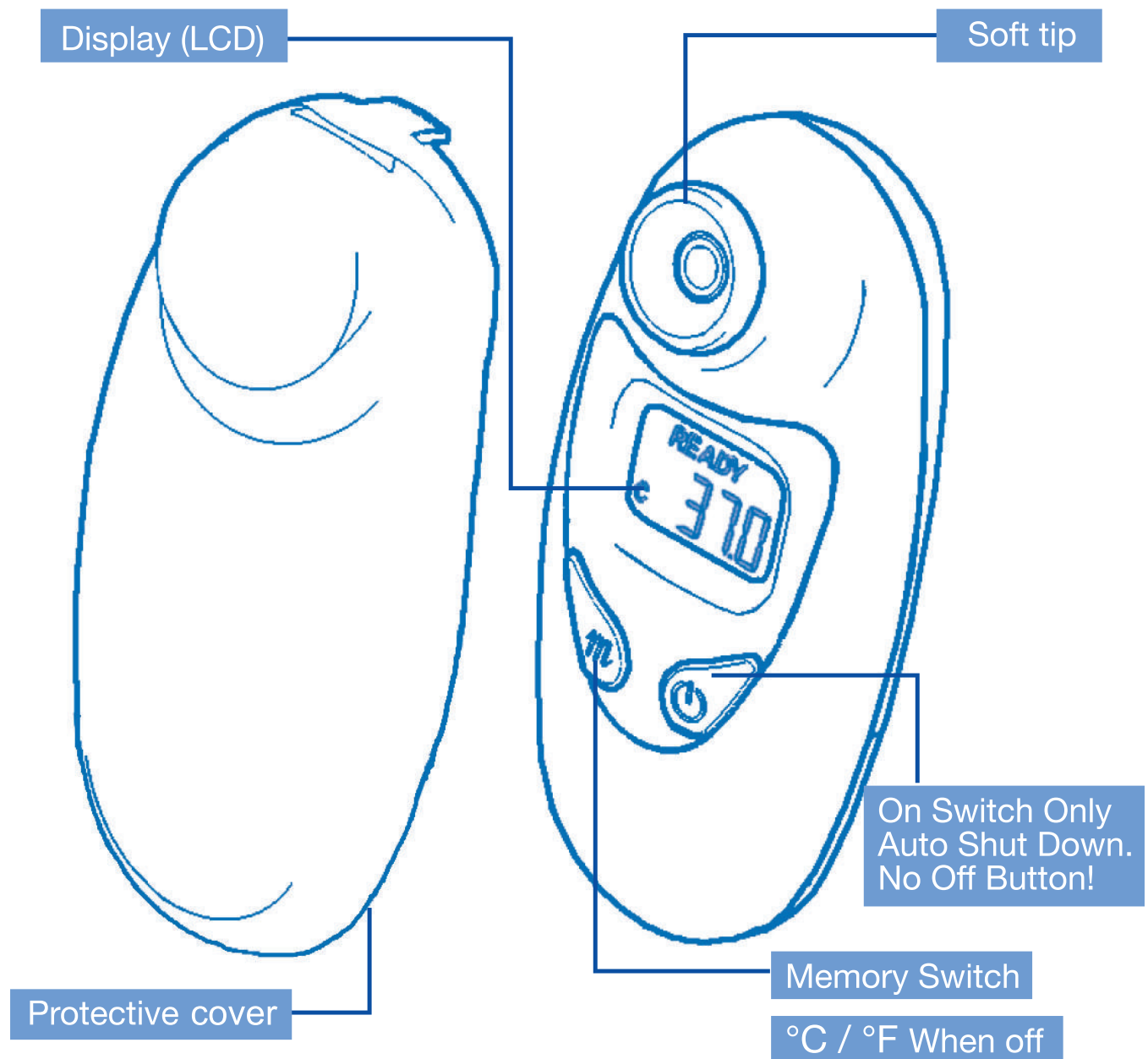
Using advanced infrared technology, the No Touch Thermometer measures the infrared heat and converts this measurement into an oral equivalent temperature.

Initial Set-up

Please pull the No Touch Thermometer out of the box and always store in the protective cover while not in use, keep it in a room (not enclosed), away from children, avoid direct sunlight, fireplace heat and direct air conditioner flow.

For maximum accuracy it is recommended for the thermometer to be indoors for at least 25 minutes prior to usage.

Features



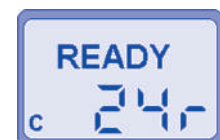
Using the No Touch Thermometer

1) The thermometer should be in the environment (indoors) where measurement will take place 25 minutes prior to measurement. If the thermometer is travelling between rooms of the same hospital ward or house, with similar room temperature, there is no need to wait 25 minutes. For best results, the person whose temperature is being taken should be in the same indoor environment (room temperature) for 5 minutes before the measurement is taken. **NOTE: The room temperature must be within the thermometer's operating range of 16°C to 36°C. If the room temperature is outside this range the LCD screen will display Er2 and the device cannot be used. Refer to Troubleshooting on page 8.**

2) Always clean the temples & forehead from sweat, makeup, etc. and wait a few minutes before measurement.

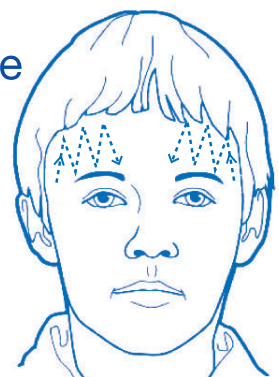
3) To remove your No Touch Thermometer from its plastic cover, hold the upper region of the device (where the plastic cover has a groove on the side) and gently pull it out.

4) Press and release the "ON" button **once only** and wait for the message "**READY**" to appear. The LCD screen displays the room temperature and the "READY" sign.



NOTE: When LCD displays READY, device is activated. There is no need to press the ON button again. Repeated pressing of the ON button, whilst device is activated, will result in error Er4.

5) Place the thermometer's soft tip above the left side of the left eyebrow (or the right side of the right eyebrow) and scan the temple region only. Move the thermometer up and down across the temple



region toward the centre of the forehead. DO NOT scan the hairline. Scan at a distance of no more than 2cm from the skin, without touching. Remove any hair and makeup prior to scanning. You can touch, it will not impact accuracy.

The thermometer will generate a gentle ticking sound indicating that the thermometer is in the process of scanning. DO NOT remove the device from the temple region during the ticking sound. The measurement is complete only after 4 beeps have sounded.

6) Read the temperature on the display.

7) Allow the No Touch Thermometer to switch off automatically (approximately 1 minute after no activity is detected). This is the ONLY way in which the thermometer can be switched off. There is no OFF button.

IMPORTANT : Avoid taking a measurement for 30 minutes after physical exercise, bathing or eating. For repeated measurements, before scanning the same person again, allow the thermometer to switch off, then wait at least 2 minutes and always scan the same temple.

DO NOT compare No Touch Thermometer readings with any other method. Tympanic (ear) thermometers in particular may show different temperature readings as you change the position of the thermometer in the ear.

The No Touch Thermometer displayed temperature is equivalent to oral temperature (an oral temperature is normally 0.5°C lower than a rectal reading and 0.5°C higher than an axillary (underarm) reading). This is based on the average population. For some people it may be different and it is recommended to learn and recognize the temple temperature while healthy.

***COMMENT:** Any distance from full contact to 2cm (1 inch) provides correct measurements.

REMEMBER: *The No Touch Thermometer should not be a substitute for any medical care.*

Body temperature

Body temperature, like blood pressure, varies from person to person and during the day it may range from 35.5°C to 37.8°C. The temple temperature is converted by the No Touch Thermometer to the commonly used oral temperature. For some people it may show some difference from their normal oral temperature, thus it is recommended to learn and recognize the forehead temperature while healthy. For continuous accurate results, measure at the same area of the temple each time a temperature is taken.

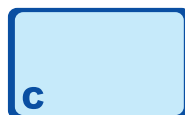
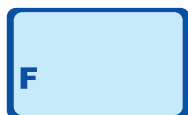
Important Notes

- When the room temperature display indicates a temperature higher than 32.0°C, one must push the ON button again to start temperature measurement.
- When pointed at a hot object the thermometer senses temperature at a distance. To avoid erroneous reading minimize the time from thermometer "READY" to measuring. Avoid direct sunlight, fireplace heat and direct air conditioner flow while taking temperature.
- Do not expose the thermometer to extreme temperatures, dust or shock.
- Do not splash with water or immerse the unit in water.
- Do not use the thermometer when having scarred skin or other skin disorders on the measured area.

Alternating between Celsius (°C) and Fahrenheit (°F)

While the No Touch Thermometer is switched off, press the “**M**” button (ie. the button on the left hand side) and the screen will show “**C**” or “**F**” according to the existing setting. To alternate between Celsius and Fahrenheit press the “**M**” button until the

desired temperature scale is displayed (ie. “C” or “F”). The next time that the No Touch Thermometer is switched on, the temperature will be displayed in the selected mode.



Memory Function

The No Touch Thermometer Memory function stores 8 measurements for 64 hours after each measurement is taken. The last reading before the thermometer turns off is stored in memory. To use the Memory function, press and release the "MEMORY" button ("M") while the thermometer is on. The LCD alternately displays the following four times: * Previous measurement.

* How many hours ago the measurement was taken.

Pressing and releasing the "MEMORY" button ("M") again will display the measurement prior to the last measurement displayed. You can read all your stored readings by continuously pressing the memory button.

Care and Maintenance

The No Touch Thermometer has an infrared sensor, which is located inside the soft tip. To avoid damage to the sensor, always store the thermometer in the protective cover while not in use. If there is dust or water inside the soft tip, gently clean with a soft tissue and allow it to dry before covering.

It is advised to occasionally clean the external part of the soft tip (without touching the sensor) with a 70% alcohol solution.

Battery Replacement

The No Touch Thermometer includes one 3V Lithium battery, already installed. Approximate battery life is five years. If the "Low Battery" symbol is displayed on the thermometer's LCD : panel or the thermometer does not function at all, immediately; replace the battery as follows:

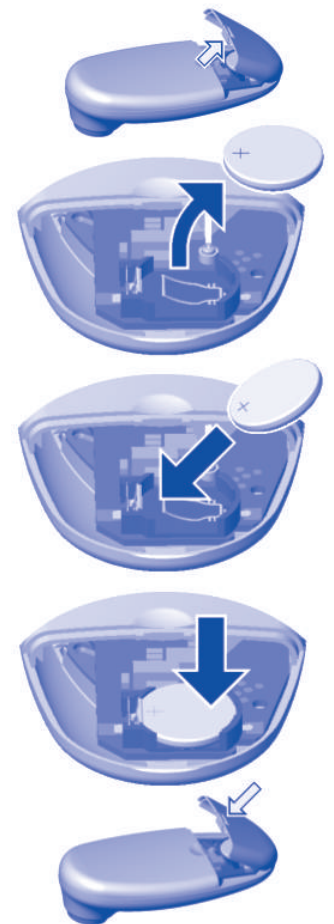
- Pull the battery cover straight back and up to remove it.
- Remove the old battery by gently pushing aside the tiny brass lever hugging the battery. This will enable the battery to become detached and pop out.
- Insert the new battery with the positive (+) side up and the negative (-) side pointed down
- Slide new battery into the battery holder ensuring that it is positioned under the tiny brass lever. Push the battery down gently until a "click" is heard.
- Replace battery cover.

Caution: Replace only with the following battery types:







Mitsubishi	CR 2032
Renata	CR 2032
Energizer	CR 2032
Varta	CR 2032
Ever~ady / Ucar	CR 2032
Toshiba	CR 2032

The use of other types of batteries may present a risk of fire or explosion.

Caution: Battery may explode if mistreated. Do not recharge, disassemble, heat above 100°C, or incinerate. Used batteries should be disposed of properly.



Troubleshooting

Display	Meaning	Action
	There is a general failure of the thermometer's function	Reset the thermometer by pushing the "ON" and "M" buttons simultaneously for 3 seconds. If the thermometer still does not work, replace the battery with a new one as described above. If the thermometer still does not work after the replacement of the battery, send the thermometer for repair.
	The room temperature is not within the thermometer's operating range of 16°C to 36°C "L" – lower than 16°C "H" – higher than 36°C	Place the thermometer in a room with the temperature range of 16°C to 36°C. Wait 30 minutes before taking a new reading
	The temperature has not been taken correctly. For example, temperature measurement has already started but the user may have directed the thermometer out of the recommended area (eg. directing to the hair), or the speed of moving the thermometer exceeds the response speed of the detector therefore resulting in an erroneous measurement.	Repeat measurement moving more slowly up and down the temple region up to a maximum distance of 2cm away from the skin. See pg 3 for more information on Using the No Touch Thermometer.
	The temperature taken is not within the range of human body temperature of 34,6°C to 42,4°C	Repeat the reading and wait until a beep indicates that the thermometer can be removed.
	The battery voltage is low. Only a few readings may be taken, then it is necessary to replace the battery.	Repeat the reading and wait until a beep indicates that the thermometer can be removed.
	The battery voltage is low. No more readings can be taken.	Replace the old battery with a new battery.
The thermometer does not work or respond. No display or fixed display.	The thermometer should be reset or the battery replaced.	Reset the thermometer by pushing the "ON" and the "M" buttons simultaneously for 3 seconds, or replace the old battery with a new battery. If the thermometer still does not work, contact the retailer or the manufacturer.

Note: In case of any error Buzzer sounds one beep duration 1s

Technical Specification

Temperature measurement range: 34.6°C-42.4.°C.

Operating temperature range: 16.0°C-36.0°C.

Laboratory accuracy: $\pm 0.2^{\circ}\text{C}$. Clinical accuracy:

Clinical Bias: -0.02.C

Clinical Repeatability: $<0.2^{\circ}\text{C}$

Accuracy according to ASTM E-1965-98 standard.

Clinical accuracy characteristics and procedures are available on request.

Battery: one 3V Lithium Battery CR 2032.

Classification according to safety regulation EN60601-1:

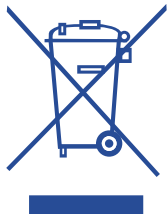
1. Internally powered equipment.

2. Type BF Applied Part. ril

3. Continuous Operation.



See instruction manual.



Do not dispose of this product as a normal urban refuse. Dispose of it at an appropriate differentiated refuse collection point.

Limited 24 Months Warranty

No Touch Thermometers warrants this product against any defects that are due to faulty material or workmanship for a period of 24 months. The guarantee does not apply to damage resulting from improper use.

In no event shall No Touch Thermometers be liable for any special, incidental, indirect or consequential damages in connection with the purchase or use of this product or costs over the original cost of the product.

Should repair be needed within the warranty period, send the unit to NoTouch Thermometers Australia, 11 Evans Street Burwood, Vic, 3125, Australia. No Touch Thermometers reserves the right to replace defective products with the most comparable product currently available.

This warranty applies when used for normal household or professional use in accordance with the Instruction Manual and excludes the battery and damage to the product resulting from accident or damage resulting from misuse.

The limited warranty extends only to consumers who purchase the NoTouch Thermometer in Australia, New Zealand and the South Pacific region provided it is a unit imported by No Touch Thermometers Australia.

In order for warranty claims to be honoured, the consumer upon request must provide a purchase receipt to prove date and place of purchase.



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