Thank you very much for purchasing the CITIZEN digital forehead and ear thermometer.

**intended use:** The infrared ear/forehead thermometer can measure the infrared heat generated by ear/central forehead area and surrounding tissues to reflect patient's body temperature accurately.

**intended operator:** At least 11 years old (5 years intensive reading experience), no maximum.

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**safety precautions:**

Be sure to read the following instructions before using the device.

**warning:** Indicates a potentially hazardous situation which may result in death or serious injury.

- Consult your physician before using the device. Do not use measurement results for self-diagnosis and self-treatment. Always consult your physician.
- Keep the battery out of reach of children as they could choke on it.
- Should a child swallow the battery, there is a risk of chemical burns, perforation of the mucous membrane and other complications that could lead to death. It is therefore important to seek immediate medical attention to remove the battery.
- If the battery fluid gets in your eyes or on your skin, rinse it off with water immediately and then receive treatment from your physician.
- Do not use the device on persons suffering from otitis externa, tympanitis and other ear infections as it may aggravate the symptoms.
- Clean and disinfect the probe after use.
- Do not use the device by force when inserting the probe as there is a risk of injury.
- Do not use the device if the probe tip or other parts have been damaged.
- Do not use the device in the vicinity of flammable gases such as those used in a hospital. Otherwise, it could ignite the gases and cause an explosion.
- Do not use the device in enriched oxygen environments such as a hospital's hyperbaric chamber or oxygen tent. It could ignite the oxygen and cause a fire.

**caution:** Indicates a potentially hazardous situation which may result in injury or property damage. The property damage refers to consequential damage to buildings, household belongings, livestock, and pets.

- Do not attempt to disassemble, repair or modify the device.
- Do not shake holding the probe tip. Do not forcibly bend the probe tip or expose it to strong impact.
- Use the device only to measure human body temperature.
- Do not expose the device to water.
- Be sure to insert the battery so that the + and - poles are oriented correctly.
- Do not use device near a mobile phone, other devices that emit electromagnetic fields or in high electromagnetic environment. This could cause malfunction.

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**how to measure correctly in the ear measurement mode**

All objects radiate heat. This device consists of a probe with a built-in infrared sensor that measures body temperature by detecting the heat radiated by the eardrum and surrounding tissue. Figure 4 shows the tortuous anatomy of a normal ear canal. As shown in Figure 5, hold the ear canal tip or pull it back at an angle or pull it straight back to straighten out the ear canal. The shape of the ear canal differs from individual, check before measurement. Accurate temperature measurements make it essential to straighten the ear canal so that the probe tip directly faces the eardrum.

**taking the temperature of children or infants**

- Look deep into the ear before slowly inserting the probe.
- Insert the probe into a narrow ear canal so that it faces the eardrum and completely closes off the entrance of the canal.

**displaying measurements stored in memory**

This device stores the last 9 body temperature measurements together with their dates and the measurement modes used (ear or forehead) to enable later confirmation.

1. Press the Power ON/MEMORY switch to turn on the device. After the buzzer beeps, press the Power ON/MEMORY switch again and the most recent measurement and *E* (Memory symbol) will appear.

2. Press the Power ON/MEMORY switch again to display the measurement prior to the most recent measurement.

* The device will automatically return to measurement mode if left inactive for about 10 seconds.

**deleting measurements in memory**

- Individual measurements cannot be deleted.
- In power-off mode, hold down both the SCAN button and the Power ON/MEMORY switch (for about 3 sec) to delete all measurements in memory.
**Replacing the battery and precaution**

**When the symbol appears, replace the battery as soon as possible.**

- **Replacing the battery**
  1. **Open the battery compartment**
     - Turn over the device and press the battery cap upwards to open the battery compartment. (Figure 11)
     - If it is difficult to open, insert a pointed (non-metallic) object in the hole beside the battery cap and press to push it open.
  2. **Use the pointed (non-metallic) object to remove the battery.** (Figure 11)

**Other Functions**

Clock function

Date and time can be set. When the measurement value and date and time of measurement are stored.

Setting method:

1. Press the Power ON/MEMORY switch and the buzzer beeps to indicate the power is on.
2. Hold the Power ON/MEMORY switch for about 3 seconds and the SET symbol will start to blink on the LCD screen indicating it has entered the time setting mode. (Figure 6)
3. Press the SCAN button and the 24 symbol will start to blink indicating you can select between the 12-hour and 24-hour clock.
4. Press the SCAN button to select "PM (12-hour clock) or "24 "(24-hour clock). (Figure 7)
   * The PM symbol is not displayed between 0 AM and 11 PM.
5. Press the Power ON/MEMORY switch to set hour " → min → year → month → day" in indicated order.

When the respective symbol on the LCD screen starts to blink during settings, use the SCAN button to select and the Power ON/MEMORY switch to determine. Then the next symbol will start to blink, repeat operation in step (4).

**Surface temperature measurement mode**

This device can be used to measure the surface temperature of liquid or solid object.

(Example: water, milk, etc.)

**Operation description**

1. Before making a measurement, make sure the probe tip is clean and not damaged.
2. When the power is on, press the MODE switch twice to enter the surface temperature measurement mode.
3. Press the SCAN button and the surface temperature of the object will appear in about 1 second.
4. Hold the device 1 cm or 2 cm from the object whose temperature you want to measure to obtain an accurate measurement.
5. After pressing the probe switch, the device and probe tip will be heated to render the probe cap into position. Change the probe tip in front of the object to prevent from obtaining accurate measurements. Make sure that the plus pole of the battery faces upwards. (Figure 12)

**Maintenance and Storage Methods**

- After use, wipe clean the device, the probe and probe tip using tissue or soft cloth. Do not use clothing, detergents, solvents or other substances to clean the probe.
  - This is important without changing the measurement results.
- Clean using an ultrasonic cleaning device. [Damage may result]
- Do not clean using a detergent, thinner, benzine or alcohol. Do not wash the device in water or submerge in water.
- Do not submerge the device in disinfectant or other cleaning agent. [Damage may result]
- Do not store the device in a location with an increase in temperature.
- Do not store the device in a location exposed to direct sunlight, high temperature, high humidity or a location that is excessively dusty.
- Do not store the device in a location subject to temperature fluctuations.
- Do not store the device in a location where chemicals are also stored or where gas is generated.

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