

# TOUCH FREE Infrared Thermometer

# NT1G

EN



**CE**  
2797



**IP 22** RoHS REACH

EC REP

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Importer



Distributor

## INSTRUCTION MANUAL

Please read this instruction manual carefully  
before using your forehead thermometer

# Contents

Introduction .....	1
Important Information before Use .....	2
Product Identification .....	4
Description of LCD Display .....	5
Switching Between Fahrenheit or Celsius .....	6
Tips for Measuring Human Temperature .....	6
Power-On Method.....	7
Measuring Human Temperature.....	8
Low-Power Indication .....	8
Cleaning and Disinfecting.....	9
Error Codes .....	10
Troubleshooting .....	11
Technical Specification .....	13
EMC Tables.....	14
Explanation of Symbols.....	16

## **Introduction**

### **Intended Use:**

Touch Free Infrared Thermometer is intended for home use and the intermittent measurement of human body forehead temperature in people of all ages.

### **Features:**

1. Multi functions  
Human Body/ Fever Indication
2. °C/°F Switch-able Function
3. One-second Reading
4. Low-power Indicator  
Indicate for power condition and measuring range.



### **Contraindications:**

1. Scarred or compromised tissues on measurement site.
2. Patient' s skin' s on certain medication of measurement site.

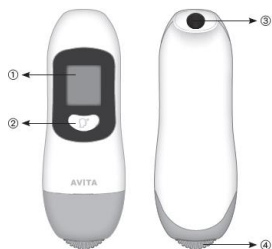
## Important Information before Use

When using this product, please be sure to follow all the notes listed below. Any action against these notices may cause injury or affect the accuracy.

1. Do not disassemble, repair, or remodel the thermometer.
2. Be sure to clean the thermometer lens each time after usage.
3. Avoid direct finger contact with the lens.
4. No modification of this equipment is allowed.
5. It is recommended that user may take 3 temperatures. If they are different, use the highest reading.
6. Do not expose the thermometer to extreme temperature, very high humidity, or direct sunlight.
7. Avoid extreme shock or dropping the device.
8. Before the measurement, patients and thermometer should stay in steady state room condition for at least 30 minutes.
9. Avoid measuring temperature in 30 minutes after exercise, bathing, or returning from outdoor.
10. To protect the environment, dispose of empty batteries at appropriate collection sites according to national or local regulations.
11. Please use the thermometer solely for its intended purpose.
12. There are no absolute body temperature standards. Keep reliable records of your personal temperature to serve as a reference for judging a fever.
13. Under any circumstances, the temperature taking result is ONLY for reference. Before taking any medical action, please consult your physician.
14. The thermometer is calibrated at the time of manufacture. If at any time you question the accuracy of temperature measurements, please contact an authorized distributor for sending calibration services, additional cost may apply for return shipping fee.

15.  CAUTION: Please keep this device away from pets, pests, and children.
16.  CAUTION: Please keep away from children and pets, because small parts may be inhaled or swallowed.
17. If any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the Member State in which the user is established.
18. If you would require any assistance during setting up, using or maintaining, please contact the manufacturer.
19. Avoid using the device near an operating cell phone or microwave oven.

## Product Identification



- 1 LCD Display
- 2 Measure Button
- 3 Measurement Sensor
- 4 Wheel

## Description of LCD Display

**M**

Memory Mode



Measuring sequence in process



Degree of measurement



Celsius Scale



Fahrenheit Scale



Power indicator



Frowning Face

(temperature is equal or higher than 38°C)



Smiling Face

(temperature is lower than 38°C)

## Switching Between Fahrenheit or Celsius

Your thermometer can display results in either degrees Celsius (°C ) or degrees Fahrenheit ( °F ).

To switch between Celsius and Fahrenheit, while the unit is on press and hold the Measure button for approximately 5 seconds in the power-on state. This will change the mode to either °C or °F

## Tips for Measuring Human Temperature

Bear in mind that the thermometer needs to have been in the room in which the measurement is taken for at least 30 minutes before use.

### NOTE:

- Attempting to take temperature readings from sites on the body other than the forehead may produce inaccurate results.
- The patient should remain still while the reading is being taken.
- Readings taken while asleep should not be compared directly to readings taken while awake, as body temperature while asleep is typically lower.
- Do not take body temperature readings within 30 minutes of being outdoors, exercising or bathing.



## Power-On Method

For the first time using, or the thermometer hasn't been used for a long time, to restore power simply scroll back and forth to gain power. When start scrolling the wheel, locate at the end of the device, the golden capacitor will store electrical power and when the thermometer detects enough power, the power indicator icon will pop up promptly. Once the power is fully charged, the thermometer will display all symbols on LCD for 1 second, then display " - - " with two beeps, means it is ready for measurement.

### Way to regenerate power:

Steadily and smoothly scroll the wheel back and forth 6-8 times at appropriate speed, allow it to generate power through kinetic force, about 30 cm each time. The thermometer is able to operate 4-5 time when it' s fully powered.



## Measuring Human Temperature

1. Position the thermometer under 3cm (around 1 inch) from the center of the patient's forehead with the sensor aimed between the eyebrows.
2. Press and release the Measure Button. As you hear a short beep means this temperature reading has been completed.
3. If the temperature measurement is below 38°C, a "Smiling Face" will appear next to the reading. If the reading is 38°C or above, a "Frowning Face" will display.

## Low-Power Indication

When the power indicator icon displayed, it means that the power is weak. Measurement can still be made at this time, but it is recommended to charge the thermometer as soon as possible. When the power indicator icon starts flashing, it indicates that the power is too weak. At this time, no measurement can be made and must charge the thermometer immediately. When the power is exhausted, the thermometer will automatically shut down.

## Cleaning and Disinfecting

For home use device disinfection, 75% alcohol (available in the pharmacy) can be used.

- **Measurement Sensor**

Clean the measurement sensor with an alcohol swab before and after each measurement.

- **Thermometer:**

Use a soft, dry cloth to clean thermometer body. Never use abrasive cleaning agents, thinners or benzene for cleaning. Do not scratch the surface of the probe lens or the display. Do not expose the thermometer to extreme temperatures, humidity, direct sunlight, or shock.

- **Wheel**

Use a soft, dry cloth to clean the wheel. Do not use water to rinse the device.

## Error Codes

When a malfunction or incorrect temperature measurement occurs, an error message will appear as described below.



Display	Cause	Solution
Hi	The temperature measured is higher than measurement range. Human mode: 43°C (109.4°F) Object mode: 100°C (212.0°F)	Operate the thermometer only between the specified temperature ranges. If necessary, clean the sensor tip. In the event of a repeated error message, contact your retailer or Customer Services.
Lo	The temperature measured is lower than measurement range. Human mode: 34°C (93.2°F) Object mode: 0°C (32.0°F)	
Err	The operating temperature is not in the range: 15°C~40°C (59°F~104°F)	Operate the thermometer only between the specified temperature ranges.

## Troubleshooting

Trouble	Probable Case	Recommended Action
Failed to power on.	Batteries are drained.	Replace with a new battery
	Batteries are not correctly aligned with terminals.	Reinsert batteries correctly.
	The thermometer is damaged.	Contact your retailer or Customer Services.
Low battery symbol appears.	Low battery.	Replace with a new battery as soon as practical
	In colder temperature batteries have weaker electrical charges.	Warm up the batteries or use the device in a warmer setting.
The measurement is abnormal or if there is any doubt on the measured result	Incorrect measure position.	Reposition the probe point center of the forehead.
	The measuring distance is too far.	Maintain a distance of 3 cm.
	The measuring is hampered by hair, perspiration, oil, sweat, makeup, etc.	Remove obstructions from forehead.
	The lens of probe is dirty.	Clean the lens according to <i>cleaning and disinfecting</i> .
	You have just come	Stay in steady state

	from extreme temperatures environment.	room at least for 30 minutes.
	The thermometer has been stored in a cold room or exposed to direct sunlight.	Put the thermometer in steady state room at least for 30 minutes.
	Measurement was taken in surface temperature mode.	Switch mode to human mode.
Power switches off automatically.	System design.	Push the power button again.
	Batteries are drained.	Replace with a new battery
	The thermometer is damaged.	Contact your retailer or Customer Services.

## Technical Specification

- **Measuring range :**  
Human Body : 34°C~43°C (93.2°F~109.4°F)
- **Calibration Accuracy:**  
Human Body :  $\pm 0.2^{\circ}\text{C}(\pm 0.4^{\circ}\text{F})$ : from 34°C~43°C (93.2°F~109.4°F)
- **Display resolution :** 0.1°C (0.1°F)
- **Operating environment :**  
15°C~40°C (59°F ~ 104°F)   
with relative humidity 15% to 95% (non condensing)  
Atmospheric pressure: 700~1060 hPa
- **Storage/ Transportation environment :**  
-25 to 55 °C(-13 to 131 °F)   
with relative humidity 15% to 95% (non condensing)
- **Atmospheric pressure:** 700~1060 hPa
- **Weight :** approx. 95.5g
- **Dimensions :**  
approx. 136.53mm×41.85mm×37.73mm (L×W×H)
- **Operation Distance :** 3 cm
- **Reference body site:** Ear temperature
- **Shelf Life :** 3 years
- **Battery Operation Time:**  
about 90 minutes (Depends on different brand of batteries.)
- **For Customer Service**  
To obtain further service please contact AViTA Corp. for the address of the repair location. Enclose the Proof of Purchase. Include \$10.00 USD for the return shipping and handling. Include a letter, with your name, address, phone number, and description of the specific problem. Pack the product carefully to prevent damage in transit. Because of possible loss in transit, we recommend insuring the product with return receipt requested.

## EMC Tables

**NT1G** is intended for use in the electromagnetic environment specified below. The customer or the user of **NT1G** must make sure that it is used in such an environment.

Guidance and manufacturer' s declaration - Electromagnetic emissions

Phenomenon	Professional healthcare facility environment a)	HOME HEALTHCARE ENVIRONMENT a)
Conducted and radiated RF MISSIONS	CISPR 11 Group 1 Class A (Not BLE Function) Group 2 Class A (With BLE Function)	CISPR 11 Group 1 Class B (Not BLE Function) Group 2 Class B (With BLE Function)
Harmonic distortion	Not applicable (Note: Power by Battery or DC Input) Only the AC input needs to be tested	
Voltage fluctuations and flickering	Not applicable (Note: Power by Battery or DC Input) Only the AC input needs to be tested	

a) The equipment is suitable for use in Home Health Environments and Professional Health Care Environments limited to patient rooms and respiratory treatment facilities in hospital or clinics. The more restrictive acceptance limits of Group 1 Class B (CISPR 11) have been considered and applied. The equipment is suitable for use in the mentioned environments when directly connected to the Public Mains Network.

b) The test is not applicable in this environment unless the ME EQUIPMENT and ME SYSTEM used will be connected to the PUBLIC MAINS NETWORK and the power input is otherwise within the scope of the Basic EMC standard.










Guidance and manufacturer' s declaration - Electromagnetic immunity - Enclosure port








Phenomenon	Basic EMC standard or test method	Immunity test levels	
		Professional healthcare facility environment	HOME HEALTHCARE ENVIRONMENT
ELECTROSTATIC DISCHARGE	IEC 61000-4-2	± 8kV contact ± 2 kV, ±4kV ±, ±8 kV, ±15 kV air	
Radiated RF EM fields	IEC 61000-4-3	a)	10 V/m b) 80MHz - 2.7 GHz 80% AM at 1kHz










Proximity fields from RF wireless communications equipment	IEC 61000-4-3	<p>COMPLIANT</p> <p>NOTE: Further information about distances to be maintained between portable and mobile RF communications equipment (transmitters) and the <b>NT1G</b> can be requested from supplier using the contact information provided in this manual. However, it is advisable to keep the equipment at an adequate distance of, at least, 0.5 m from mobile phones or other RF communications transmitters to minimise possible interference.</p>
RATED power frequency magnetic fields.	IEC 61000-4-8	<p>30 A/m c) 50 Hz or 60 Hz</p>
<p>a) The equipment is suitable for use in Home Health Environments and Professional Health Care Environments limited to patient rooms and respiratory treatment facilities in hospital or clinics. The more restrictive IMMUNITY acceptance limits have been considered and applied.</p> <p>b) Before modulation is applied.</p> <p>c) This test level assumes a minimum distance of at least 15 cm between the ME EQUIPMENT or ME SYSTEM and sources of power frequency magnetic fields.</p>		

## Explanation of Symbols

	The CE marking with the Registration Number of the Notified Body. This denotes the compliance of Regulation (EU) 2017/745
	Medical Device
	Manufacturer
	Authorized representative in the European Community
	Date of manufacture (YYMMDD or YYYY-MM)
	Batch code (YYMMWWWW)
	Serial number (YYMWWWWXXXXX)
	Keep dry
	Temperature limit

	Humidity limitation
	Atmospheric pressure limitation
	Caution
	Consult the instruction for use
	Disposal information: Should you wish to dispose of the article, do so in accordance with current regulations. Details are available from your local authority. WEEE 2012/19/EU Directives
RoHS	This product fulfilling the requirements of the RoHS Directive 2011/65/EU.
REACH	This product fulfilling the requirements of the REACH Directive EC 1907/2006 and its amendments, do not contain Substances of Very High Concern in concentration above the limit of 0.1 %. No substance(s) is/are present in the parts of the product above the concentration of 0.1 % weight by weight.
	Stand-by
	Device classification type BF

<p><b>IP 22</b></p>	<p>This product meets the basic safety and essential performance requirements indicated in the IP22 conditioning test (protection against solid foreign objects of 12.5mm <math>\varnothing</math> and greater and against vertically falling water drops when enclosure tilted up to 15°)</p>																			
	<p>The empty, completely flat batteries must be disposed of through specially designated collection boxes, recycling points or electronics retailers. You are legally required to dispose of the batteries.</p>																			
	<p>Importer</p>																			
	<p>Distributor</p>																			
	<p>Model Number</p>																			
	<p>Country of Manufacturer</p>																			
	<table border="1"> <thead> <tr> <th colspan="3" data-bbox="260 758 967 786">Unique Device Identifier</th> </tr> <tr> <th data-bbox="260 786 335 825">AI</th> <th data-bbox="335 786 671 825">Data Element</th> <th data-bbox="671 786 967 825">Data Type/Format</th> </tr> </thead> <tbody> <tr> <td data-bbox="260 825 335 863">(01)</td> <td data-bbox="335 825 671 863">Device Identifier(GTIN)</td> <td data-bbox="671 825 967 863">Numeric</td> </tr> <tr> <td data-bbox="260 863 335 902">(11)</td> <td data-bbox="335 863 671 902">Manufacturing Date</td> <td data-bbox="671 863 967 902">Numeric: YYMMDD</td> </tr> <tr> <td data-bbox="260 902 335 941">(10)</td> <td data-bbox="335 902 671 941">Lot Number</td> <td data-bbox="671 902 967 941">Alphanumeric</td> </tr> <tr> <td data-bbox="260 941 335 986">(21)</td> <td data-bbox="335 941 671 986">Serial Number</td> <td data-bbox="671 941 967 986">Alphanumeric</td> </tr> </tbody> </table>		Unique Device Identifier			AI	Data Element	Data Type/Format	(01)	Device Identifier(GTIN)	Numeric	(11)	Manufacturing Date	Numeric: YYMMDD	(10)	Lot Number	Alphanumeric	(21)	Serial Number	Alphanumeric
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(10)	Lot Number	Alphanumeric																		
(21)	Serial Number	Alphanumeric																		
	<p>Keep away from sunlight</p>																			

Electronic IFU available at <http://www.avita.com.tw>

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