Infrared Ear/ Forehead Thermometer



FN





CE X IP 22 RoHS REACH



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Importer



Distributor

INSTRUCTION MANUAL

Please read this instruction manual carefully before using your Infrared thermometer

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Introduction

Intended Use

This thermometer is intended for home use and the measurement of human body temperature in people of all ages. This thermometer takes temperatures in seconds by measuring the heat generated by the ear canal/ on the forehead.

Type of Use/ Reuse

Multiple patient multiple use

Intended User

The Patient is an intended operator.

Patient selection criteria: Handicapped persons and children are the exception of handicapped persons and children need assistance by another person to use the device.

Contraindication:

- 1. The ear is infected with otitis or suppuration.
- 2. The ear canal treated with ear drops or other medications.
- 3. Blood or drainage in ear canal.
- 4. Face and/or ear deformities
- 5. Forehead is scarred or compromised tissues
- 6. Patient' s skin is on certain medication of measurement site.

Important Information before Use

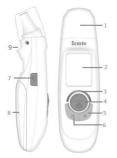
When using this product, please be sure to follow all the notes listed below. Any action against these notices may cause injury or affect the accuracy.

- 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. WARNING: 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.
- Do not expose the thermometer to extreme temperature, very high humidity, or direct sunlight.
- 7. Avoid extreme shock or dropping the device.
- Before the measurement, patients and thermometer should stay in steady state room condition for at least 30 minutes.
- 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.
- There are no absolute body temperature standards. Keep reliable records of your personal temperature to serve as a reference for judging a fever.
- 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 Avoid potential allergic reactions, please avoid the front of scanner in direct contact to patient's wound.
- CAUTION Please keep this device away from pets, pests, and children.
- 17. A CAUTION: Please keep away from children and pets, because small parts may be inhaled or swallowed.
- If you would require any assistance during setting up, using or maintaining, please contact the manufacturer.
- 19. Avoid usin9g the device near an operating cell phone or microwave oven.
- 20. 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.
- Neonatal under 6 months, the ear canal is still under development, very narrow so the temperature of the eardrum often cannot be recorded and the result displayed is often too low.
- 22. Make sure the ear canal is clean not blocked by earwax.

Product Identification



- 1 Forehead/ Cover Cap
- 2 Display
- 3 LED LIGHT
- 4 Power/Ear Measure button
- 5 SET button
- 6 Memory button
- 7 Forehead Measure button
- 8 Battery Compartment Lid
- 9 LED Flashlight

Description of LCD Display

(8-38	Date
88:88	Time
4 III	Measurement in progress
C	Temperatuer unit Celcius
۴	Temperatuer unit Fahrenheit
388.8	Degree of temperature
⊈ {	Sound symbol
0	Low battery symbol
M 38	Memory symbol and sets of records
	Object measurement
ß	Ear measurement
:	Forehead measurement

Battery Installation

When the battery is low, the battery warning symbol appears \square . It is still possible to measure temperature. The batteries shall be replaced shortly. When both the battery symbol flashes \square and "Lo" appears in the display, the batteries must be replaced immediately. If the batteries are drained, then the thermometer will switch off automatically.

NOTE:

- It is recommended to remove the batteries if the unit will not be used for an extended period of time.
- Please properly dispose of the batteries away from small children and heat.
- Batteries must be disposed of in accordance with local environmental and institutional policies.
- It is recommended not to use rechargeable, unqualified or different spec of batteries as it may damage the device or cause circuit shortcut.
- Dispose of used batteries in accordance with the applicable legal regulations. Never dispose of batteries in the normal household waste.

STEPS to change battery

- 1. Open the battery case by sliding off the cover on the back of the unit.
- 2. Remove used battery.
- 3. Replace with 2 x 1.5V LR03(AAA) alkaline batteries in designated area.

(check for the right polarity before replace with the new battery)

4. Slide the cover back on. Unit is ready for immediate use

Setting °C/°F and Date/Time

When the thermometer is used for the first time and each time the batteries are changed, the date and time are displayed in the format 1-1 00:00 during the basic set-up (after the self-test). Set each of the following settings in turn: unit in which the temperature will be displayed, date and time. To set the device, proceed in stages: Unit – year – month – day – hours – minutes After install batteries (first time use), the device performs a brief self-test: all elements of the display are shown for approx. 1 second. Following a successful self-test, the device emits two short beeps. In Standby mode, the date and time are shown and "--" is displayed.

1. Changing from Fahrenheit to Celsius

(1) Press the "SET" button for more than 3 seconds to set the °C/ °F. (2) Press the "Memory" button to confirm entry.

2. Date/Time Function

- (1) Press the "SET" button to change.
- (2) Press the "Memory" button to confirm entry.
- (3) The blinking Date, followed by Year, Hour and Minute will display. Repeat steps (1) and (2) to adjust the date/time setting.
- (4) Your unit is now ready to take a reading, or press the "Memory" button to turn the unit off.
- (5) After this process, the thermometer shows the word OFF in the display and switches off automatically.

Measuring Body Temperature in the Ear

- 1. Remove the Cover cap..
- 2. Press the Power/Measure button for 1 second to switch the thermometer on. All screen data will display on screen. Then the measurement mode flashes on screen. If the icon shows forehead mode, please press Power/Measure button again to change to ear mode. Then wait for beep sound to let you know the appliance is ready and followed by last temperature reading.
- 3. Make sure that the sensor tip and also the ear canal are clean. As the ear canal is slightly curved, you have to pull the ear slightly up and backwards before inserting the sensor tip. This is important so that the sensor tip can be pointed directly at the eardrum.
- 4. Insert the sensor tip carefully and press the Power button for 1 second.
- 5. The end of the measuring time is signaled with beep sound and the measured value appears on the display.

Measuring Body Temperature on the Forehead

- 1. The cap should be in position on the probe nozzle.
- Press the Power/Measure button. All screen data will display on screen. Then the measurement mode flashes on screen. If the icon shows ear mode, please press the Power/Measure button again to change to forehead mode. Then wait for beep sound to let you know the appliance is ready and followed by last temperature reading.
- 3. When the beep sounds to let you know the appliance is ready, press the Power/Measure button and maintain pressure.
- 4. Place the probe on your temple. Slide the probe across your forehead to the other temple, and then release pressure on button to stop temperature taking. You' II hear a beep and your temperature will come up on the screen.
- **Note:** Forehead temperature may be affected by external climatic conditions. If in doubt, do not hesitate to take your ear temperature.

Measuring Object/ Liquid Temperature

- 1. Press the "Forehead Measure" button or "Power/ Ear Measure" button for 1 second to switch the thermometer on. Following a successful self-test, the device emits two short beeps.
- 2. Then press the "Memory" and "SET" buttons simultaneously for 3 seconds to switch to the "Object Scan Mode".

The 🔊 symbol appears in the display.

- 3. Point the sensor tip towards the object or liquid (maintaining a distance of 3 cm), then take one press on "Forehead Measure" button or "Power/ Ear Measure" button to take a measurement (never immerse in liquids).
- 4. After the measurement process is complete, there comes a short beep and the measured value appears on the display.
- Please note that the displayed temperature is the measured and not the adapted surface temperature. It is not the same as the temperature.
- 6. To switch back to the thermometer mode, press the "Memory"

and "SET" buttons simultaneously for 3 seconds until the ", " symbol disappears and there is a short beep.

Memory Function

- 1. The device can recall up to 30 measurements
- 2. Press the "Memory" button. The first reading displayed is the latest measurement stored in memory.
- 3. Continue to press the "Memory" button to view the next previously stored measurement.

Cleaning and Disinfecting

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

Probe and Tip

Clean the probe and tip 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.

Error Codes

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

LCD Display	Cause	Solution
	is higher than	Operate the thermometer only between the specified
	The temperature measured is lower than 34°C (93.2°F)	temperature ranges. If necessary, clean the sensor tip. In the event of a repeated error message, contact your retailer or Customer Services.
-	I he operating temperature is not in the range 15°C~40°C (59°F~104°F)	Operate the thermometer only between the specified temperature ranges.

Trouble Shootings

Trouble	Probable Case	Recommended Action
Failed to power	Batteries are drained.	Replace with a new
on.		battery
	Batteries are not	Reinsert batteries
	correctly aligned with	correctly.
	terminals.	
	The thermometer is	Contact your retailer or
	damaged.	Customer Services.
Low battery	Low battery.	Replace with a new
symbol appears.		battery as soon as
		practical
	In colder temperature	Warm up the batteries
	batteries have weaker	or use the device in a
	electrical charges.	warmer setting.
The	Incorrect measure	Reposition the probe
measurement is	position.	point the eardrum or
abnormal or if		rescan the forehead.
there is any	The measuring	Move the probe closer
doubt on the	distance is too far.	to the measuring site.
measured result	The measuring is	Remove obstructions
	hampered by earwax,	from ear or forehead.
	hair, oil, sweat, etc.	
	The lens of probe is	Clean the lens
	dirty.	according to <i>cleaning</i>
		and disinfecting.
	You have just come	Stay in steady state
	from extreme	room at least for 30
	temperatures	minutes.
	environment.	
	The thermometer has	Put the thermometer in
	been stored in a cold	steady state room at

Trouble	Probable Case	Recommended Action
	room or exposed to direct sunlight.	least for 30 minutes.
	Measurement was taken in incorrect mode.	Switch to proper 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

- Range of Measurement : Human Body: 34°C – 43°C (93.2°F – 109.4°F)
- Measuring accuracy : Human Body: 34°C - 43°C (93.2°F - 109.4°F) ±0.2°C (0.4°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°C - 55°C (-13°F ~+131°F) with relative humidity 15% to 95% (non-condensing) Atmospheric Pressure: 700~1060 hPa
- Display resolution : 0.1°C
- Power supply: 2 x 1.5V LR03(AAA) alkaline
- Auto switch-off in 60 seconds without operation \bigcirc
- Memory: 30 sets
- Weight : approx. 65g (without batteries)
- Dimensions : approx. 131.3 x 38 x 30.7 mm (L×W×H)
- 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

TC/15 is intended f	for use in the ele	octromagnetic	environment specified	
below The custon	ner or the user o	of TS45 must m	ake sure that it is used	
in such an enviror				
Guidance and ma	nufacturer's de	eclaration - Ele	ctromagnetic emissions	
Phenomenor	Professio	onal healthcare	HOME HEALTHCARE	
	facility e	environment a)		
Conducted and	CISPR 11		CISPR 11	
radiated RF MISSI	ONS Group 1 (Function)	Class A (Not BL	E Group 1 Class B (Not BLE Function)	
		, Class A (With	Group 2 Class B (With	
	BLE Funct		BLE Function)	
Harmonic distorti				
		(Note: Power by Battery or DC Input)		
	Only the	AC input needs	s to be tested	
Voltage fluctuations Not applicable				
and flickering		(Note: Power by Battery or DC Input)		
		AC input needs		
a) The equipment is suitable for use in Home Health Environments and				
Professional Healt	th Care Environn	nents limited to	o patient rooms and	
			ics. 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 sta		input is other	mise within the scope of	
		eclaration - Ele	ctromagnetic immunity	
- Enclosure port				
Phenomenon	Basic EMC	c EMC Immunity test levels		
	standard or	Professional	HOME HEALTHCARE	
	test method	healthcare	ENVIRONMENT	
		facility		
		environment		
ELECTROSTATIC	IEC 61000-4-2	± 8kV contact	-	
DISCHARGE			±, ±8 kV, ±15 kV air	
Radiated RF EM	IEC 61000-4-3	a)	10 V/m b) 80MHz - 2.7	
fields			GHz 80% AM at 1kHz	

Proximity fields from RF wireless communications equipment	IEC 61000-4-3	COMPLIANT NOTE: Further information about distances to be maintained between portable and mobile RF communications equipment (transmitters) and the TS45 can be requested from supplier using the contact information provided in this manual. However, it is advisable to keep the electromechanical aerosol equipment at an adequate distance of, at least, 0.5 m from mobile phones or other RF communications transmitters to minimise possible interference.
RATED power frequency magnetic fields.	IEC 61000-4-8	30 A/m c) 50 Hz or 60 Hz
Professional Healt respiratory treatm IMMUNITY accep b) Before modula	th Care Environr nent facilities in l tance limits have tion is applied.	se in Home Health Environments and nents limited to patient rooms and hospital or clinics. The more restrictive e been considered and applied. um distance of at least 15 cm between

the ME EQUIPMENT or ME SYSTEM and sources of power frequency magnetic fields.

Explanation of Symbols

CE 2797	The CE marking with the Registration Number of the Notified Body. This denotes the compliance of Regulation (EU) 2017/745
MD	Medical Device
	Manufacturer
EC REP	Authorized representative in the European Community
~~	Date of manufacture (YYYY-MM-DD or YYYY-MM)
LOT	Batch code (YYMMWWWW)
SN	Serial number (YYMWWWXXXXX)
Ť	Keep dry
X	Temperature limit

<u></u>	Humidity limitation
	Atmospheric pressure limitation
\triangle	Caution
6	Consult the instruction for use
X	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.
U	Stand-by
Ŕ	Device classification type BF

IP 22	This product meets the basic safety and essential performance requirements indicated in the IP22 conditioning test (protection against solid foreign objects of 12.5mm \emptyset and greater and against vertically falling water drops when enclosure tiled up to 15°)
) X	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.
	Importer
	Distributor
#	Model Number
	Country of Manufacturer
UDI	Unique Device Identifier
×	Keep away from sunlight

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

TS45P-22700AV 2022.12.22