

17. ABOUT US

Driven by the passion for innovation, we at Dr Trust endeavour to provide our customers with the latest medical inventions with an objective to promote good health and wellness all around the world. All the medical devices and health monitors provided by Dr Trust are supported by accurate, latest and ground breaking technologies, innovated at our headquarters in NY, USA. All our products adhere to the most stringent CE and FDA guidelines and are strongly recommended by doctors and health practitioners. Our products are designed in the utmost exemplary ways to provide that their accuracy and convenience are unrivalled. The ease of their use and operation makes them even more suitable for users of all age groups.

Dr Trust strives to enhance the quality of lifestyle by providing with the most trusted and innovative health care and wellness products. Being a renowned global leader in health care products, Dr Trust ensures that our technically efficient team works dynamically and tirelessly to provide the best of the medical devices to our clients. The products that we have to offer are suitably designed for use at homes, laboratories and hospitals.

Our ground breaking solutions allow you to monitor your health in the easiest ways possible. In today's era when all of our lives are too hassled to handle, it becomes a bit difficult to pay attention to our health. But it has now become easier with the coming of the monitoring devices which can be conveniently used at homes and even on the go.

We bring to you a variety of best self medical devices, trusted and used by Doctors, medical professionals and home users all over the world.



Dr Trust®

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INSTASCAN

Forehead & Ear Thermometer **606**



Scan to View
Product Demo

www.drtrustusa.com/606

USER
INSTRUCTIONS



Thank you for purchasing the Dr Trust Instascan Forehead & Ear Thermometer-606. Please read the instruction manual carefully to observe the right usage guide before using it. Also keep this instruction guide handy for future reference.

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Dr Trust Instascan Forehead & Ear Thermometer-606 measures the body temperature through receiving the infrared energy radiation from the surface of objects. It comes with body temperature mode, and object temperature mode so that users can select the mode as per their need or choice.

The product is mainly composed with infrared temperature sensors, signal receiving processor, buttons, buzzer, LCD display, battery, etc. The measurement result directly shows on the LCD screen.

1.1. Product intended use

The infrared thermometer is intended for the measurement of human body temperature by using the infrared energy emitted from the forehead and eardrum. It ensures the safety of users with high level of speed and accuracy. The thermometer can also be used to measure the temperature of objects by detecting and measuring the emitted radiations. The device is designed to be used for home healthcare, medical institutes and many other occasions.

1.2. Safety Information

Warnings:

- The measurement results cannot replace the physician diagnosis.
- The thermometer should be placed beyond the children's reach.
- Never point the device at ones' eyes when measuring.
- Do not try to change the product factory settings.
- Use the thermometer in a stable temperature environment. If the environment temperature changes too much, for example from outdoor to indoor, please wait for about half an hour before measuring.
- After measuring extremely high or low temperature, don't measure body temperatures immediately, you should measure 10 minutes later.
- Do not dip the thermometer into any liquid.
- Don't use in high or low temperature environment for a long time.
- No collision, falling and mixing sharp objects, it is forbidden to disassemble the thermometer.
- Don't use it in strong electromagnetic interference environment.
- Avoid using the thermometer when drying the hair, drenching water, sweating and putting on skin cosmetics.
- Don't measure the temperature after doing sports, washing or in 30 minutes after dinner.

- Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the thermometer, including cables specified by the manufacturer. Otherwise, it could result in degradation of the performance of this equipment.
- No special maintenance is needed during the use process.
- Maximum laboratory error: $\pm 0.2^{\circ}\text{C}/0.4^{\circ}\text{F}$.

2. OPERATION PRINCIPLE OF DR. TRUST INSTASCAN -606 THERMOMETER

Any object in which temperature is higher than absolute zero degree will transmit some infrared radiation energy according to its own temperature. The radiation energy and its distribution per wavelength are closely associated with its surface temperature. This thermometer measures the Infrared radiations emitted by the body or object and facilitate the temperature measurement.

3. PRODUCT KEY FEATURES

- Non Contact or Contact-type infrared thermometer;
- Forehead, ear temperature, dual modes of measurement;
- Clear and softy LCD display with high definition dual color backlight;
- Fever alarm function (default alarm value is 38.0°C and above);
- Capacity of storing 32 sets measurements;
- Dual temperature units: $^{\circ}\text{C}$ and $^{\circ}\text{F}$ optional;
- Automatic shut-down and power-saving;

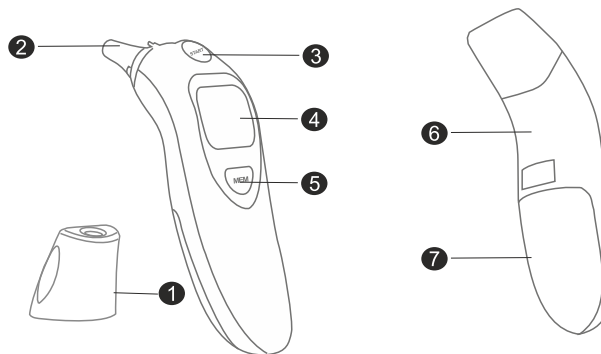
4. TECHNICAL PARAMETERS

Measurement method	Non Contact or Contact-Type
Measure range	Body: $32^{\circ}\text{C}\sim 42.9^{\circ}\text{C}$ ($89.6^{\circ}\text{F}\sim 109.2^{\circ}\text{F}$)
	Object: $0^{\circ}\text{C}\sim 100^{\circ}\text{C}$ ($32^{\circ}\text{F}\sim 212^{\circ}\text{F}$)
Measurement accuracy	Body: Within $35^{\circ}\text{C}\sim 42^{\circ}\text{C}$: $\pm 0.2^{\circ}\text{C}$ (0.4°F)
	Beyond: $35^{\circ}\text{C}\sim 42^{\circ}\text{C}$: $\pm 0.3^{\circ}\text{C}$ (0.54°F)
	Object: $\pm 1^{\circ}\text{C}/1.8^{\circ}\text{F}$

Operating environment	Temperature: $16^{\circ}\text{C}\sim 35^{\circ}\text{C}$ ($60.8^{\circ}\text{F}\sim 95^{\circ}\text{F}$) Moisture: RH $\leq 85\%$ (Non-condensing condition)
Storage environment	Temperature: $-20^{\circ}\text{C}\sim 55^{\circ}\text{C}$ ($-4^{\circ}\text{F}\sim 131^{\circ}\text{F}$) Moisture: RH $\leq 90\%$ (Non-condensing condition)
Display resolution	$0.1^{\circ}\text{C}/0.1^{\circ}\text{F}$
Voltage	DC 1.5VX2
Power consumption	When off $< 6\mu\text{W}$ When measuring $< 45\text{mW}$
Auto power-off	Automatic shutdown without any operation in about 30 seconds
Dimensions	$152\times 44\times 30\text{mm}$ (length x width x height)
Weight	About 72g (battery not included)
Product accessories	2x AAA batteries and 1x User Manual

5. KEY COMPONENTS OF THE THERMOMETER

1. Protective Cover
2. Infrared Probe
3. Start/ Measuring key
4. LCD display
5. Memories key and Conversion key and Sound key
6. Handle
7. Battery Cover

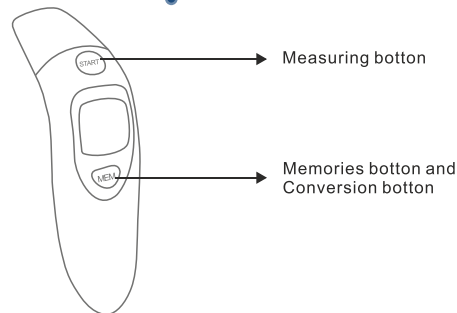


Note: Unplug or plug the Protective cover, to switch the measuring Mode (forehead and ear mode).

6. DISPLAY ICONS DEFINITION

Icon Definition	Icon	Definition
Numerical display	8888	Measuring temperature value display
Electrical prompt	▼	Low battery indication
Measuring mode	👤	Forehead temperature mode
	👂	Ear temperature mode
	🏠	Object temperature mode
Temperature Unit	°F or °C	Celsius degree; Fahrenheit degree
		The icon means can convert between °F and °C
Memory Symbol	M	Memorized measure data
Sound indication	🔊	buzzer is on, with prompt sound
	🔇	buzzer is off, no prompt sound
▲		Warning
⚡		General compulsion
⊘		General prohibition
⚠		Important warning information indicating that users need to refer to the manual
🕒		Don't dispose with household waste after use
🏭		Manufacturer
🚰		BF type application device
📖		Read the operation manual before use
☔		Keep dry
📈		Upward
🚑		Fragile, handle with care
Ip22		2 Protected against solid foreign objects of 12,5 mm Ø and greater; 2 If keep the thermometer in 15 degree angle, it still can prevent the water drop.

7. FUNCTION KEYS



Function Button	Functional description
Measuring Button	Press to measure
Memories Button	Press to get the latest 20 sets memories temp.
Conversion Button	Keep pressing to adjust °C / °F, when setup
Shutdown Button	Keep pressing the Button, device will power off
Sound Button	Keep pressing the Button, voice will close or open up

8. SETTINGS

A: Temperature unit setting:

When power off, press the memory key for 5s until the "°C" or "°F", display. Press the memory key one more time to change into another unit.

Note: The default temperature unit is "°C". The setting will come back to the default when uninstall the battery.

B: Memory Mode:

When power off, press the Memory key to check the latest 32 sets of measured values in the selected mode in order 1,2,3 and so on.

Note: The record will be deleted when the batteries are uninstalled.

C: Voice Setting:

When power on, keep pressing the Memory key for 4s, it beeps one time; voice will close or open.


Note:

The sound key can be set on/off per the environment condition. e.g. it can be off when silence is appreciated.

D: Shutdown:

When power on, keep pressing the Memory key for about 8s, it will power off.

9. MEASURING METHOD**9.1. Forehead Temperature Measurement**

- Install the batteries to power on the thermometer. Make sure the screen should display “” before each measurement.
- Hold the thermometer and point the device to the forehead.
- Press & hold the start/ measurement key and scan the forehead.
- When buzzer beeps, the temperature will display on the LCD screen.
- Keep the probe cover Non-contacting the forehead during the measurement.

Note:

- The probe cover should be there before starting the forehead measurement.
- Keep the probe clean, otherwise, it may affect the measurement accuracy.

**9.2. Ear Temperature Measurement**

- Take off the probe or mode conversion cover and insert the probe into the ear.
- Press the measuring key to measure temperature directly.
- When the buzzer beeps, the temperature will display on the screen.

Note:

- Do not push hard into the ear to avoid hurting the eardrum.
- Make sure that the probe cover is taken off to measure the temperature in the Ear mode

**9.3. The Object Temperature Measurement**

- Install the batteries and press the memory key for 10 seconds until the screen show all symbols with the object temperature mode on the left side of the screen.

- Point the thermometer to the object, keep the probe 3~5mm to the object.
- Press the measuring key to measure directly, when the buzzer beeps, the temperature will display on the screen.

Note

Make sure that the cover of mode conversion is taken off and converted to the Ear and the object mode.

Caution

- All operation should do when the thermometer is powered on;
- All memory records will loss when uninstall the battery.
- All settings will come to default when uninstall the battery. If need adjust the settings, please power on and make the new settings.
- The thermometer will power off automatically after 30s without any operation.
- When the measurement value is between 37.5-37.9°C, it is considered low fever, advice to consult the doctor.
- When there is any wound in the ear measurement area, please do not use this thermometer to measure the temperature to avoid aggravating the severity of the wound.
- Don't push hard into the ear to avoid hurting the eardrum.
- Always keep the battery beyond the child's reach.
- The measurement result from the thermometer is only for reference.

Note:**Colour Fever Alarm Function**

- When the measured temperature value is 38°C or above, the thermometer will send out as alarm and the backlight will be red while the other value is green. When the measurement value is between 37.5-37.9°C, it is considered low fever, advice to consult the doctor. If no alarm when used, please check whether the sound function is turn off.

10. REPLACEMENT OF BATTERIES

- The battery life is approx. 3000 readings one year and 90 minutes when in constant use.
- Open the battery cover and remove the old battery.
- Put in new battery and take care of the direction of the electrodes.

Caution

1. When not used for 1 month, please take out the battery to prevent leakage. It is forbidden to put waste battery in the fire.
2. According to local regulations, properly handle the waste batteries to avoid pollution.

11. CLEANING AND MAINTENANCE

Please keep the inner cavity of the sensors and probes clean, otherwise it may affect the measurement accuracy.

Cleaning Methods

- The device only needs routine cleaning, and period or times can be decided according to user's need.
- For surface cleaning, use a clean soft cloth or cotton swab stick moistened with a little medical alcohol or water to wipe the dirt.
- For probe and sensor inner cavity cleaning, use clean soft cloth dipped with a little medical alcohol to gently wipe the probe at the top of the inner cavity or sensors, and do not use until the alcohol completely evaporates.
- No Special maintenance is needed to the use process. Please contact to our customer support for further queries.

Monitor Disinfection

- Switch off the monitor and disconnect it from the power line.
- Wipe the display screen using a soft, clean cloth dampened with the disinfectant solution.
- Wipe the exterior surface of the equipment using a soft cloth dampened with the disinfectant solution.
- Wipe off the disinfectant solution with a dry cloth after disinfection if necessary
- Dry the monitor for at least 30 minutes in a ventilated and cool place.

Warning

- Please keep the inner cavity of the sensors and probes clean, otherwise it will affect the measuring accuracy.
- If you spill liquid on the probe sensor or LCD, or they are accidentally immersed in liquid, contact your service personnel or service engineer.
- Before cleaning or disinfection make sure that the device is switched off and disconnected from the power line.
- After cleaning with isopropyl alcohol, allow the thermometer to air dry.
- Use a soft, dry cloth to clean the thermometer body and LCD display.
- Do not use abrasive cleaners. Never submerge this thermometer in water or any other liquid.

12. TROUBLESHOOTING

Table 4

Diagnosis	Solution
The screen shows "Lo" or "Hi"	1. Check the measurement object. It is unable to ensure the measurement of the forehead blowing, dripping, sweating, and with cosmetics. 2. Check the operation environment. Environment changes will greatly influence the measurement. If the temperature change is too big or the thermometer tests target of low temperature immediately after being switched from a high temperature measuring. It's better to use after 10 minutes to achieve a new heat balance. 3. Check the measure distance.
Buttons have no response	1. Load and unload the battery 2. Check if the setting is in the progress
No display or display abnormal	Unload the batteries and load again
No prompt voice	Check if the voice setting is closed
Power off when open	Check the battery, load and unload the battery again

Table 5

Guidance and manufacturer's declaration-electromagnetic emissions		
The Dr Trust Instascan Forehead & Ear Thermometer-606 is intended for using in the electromagnetic environment specified below. The customer or the user of the Dr Trust Instascan Forehead & Ear Thermometer-606 should assure that it is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment-guidance
RF emissions GB 4824	Group 1	The Dr Trust Instascan Forehead & Ear Thermometer-606 uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause and interference in nearby electronic equipment.
RF emissions GB 4343.1	Class B	The Dr Trust Instascan Forehead & Ear Thermometer-606 is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic radiation GB 17625.1	N/A	
Voltage fluctuations /flicker emissions GB 17625.2	N/A	


Table 6

Guidance and manufacturer's declaration-electromagnetic immunity			
The Dr Trust Instascan Forehead & Ear Thermometer-606 is intended for use in the electromagnetic environment specified below. The customer or the user of the Dr Trust Instascan Forehead & Ear Thermometer-606 should assure that it is used in such an environment.			
Immunity tes	IEC60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±6kV Contact discharge ±8kV air discharge	±6kV Contact discharge ±8kV air discharge	30% Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%

Electrical fast transient/burst IEC 61000-4-4	±2 kV for a.c. power lines ±1 kV for d.c. power lines	N/A	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1 kV line(s) to line(s) ±2 kV line(s) to earth	N/A	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short	<5%UT	N/A	N/A
interruptions and voltage variations in power supply input lines GB/T 17626.11	(>95 dip in UT) for 0.5 cycle 40% UT (60% dip in UT) for 5 cycles 70% UT (30% dip in UT) for 25 cycles <5% UT (>95% dip in UT for 5 s	N/A	Mains power quality should be that of a typical commercial or hospital environment. If the user of the Dr Trust Instascan Forehead & Ear Thermometer-606 requires continued operation during power mains interruptions, it is recommended that the Dr Trust Instascan Forehead & Ear Thermometer-606 be powered from an uninterruptible power supply or a battery
Power frequency magnetic field (50/60Hz) GB/T 17626.8	3 A/m	3 A/m, 50/60Hz	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment
NOTE UT is the a.c. mains voltage prior to application of the test level.			

Table 7

Guidance and manufacturer's declaration-electromagnetic immunity			
The Dr Trust Instascan Forehead & Ear Thermometer-606 is intended for use in the electromagnetic environment specified below. The customer or the user of the Dr Trust Instascan Forehead & Ear Thermometer-606 should assure that it is used in such an environment.			
Immunity tes	IEC60601 test level	Compliance level	Electromagnetic environment - guidance

RF transmission GB/T 17262.6	3 Vrms 150kHz - 80MHz	N/A	Portable and mobile RF communications equipment should be used no closer to any part of the Dr Trust Instascan Forehead & Ear Thermometer-606 including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.
RF radiation GB/T 17262.3	3 V/m 80MHz - 2.5GHz	3 V/m	<p>$d = 1.2 \sqrt{P}$ 80MHz to 800MHz</p> <p>$d = 2.3 \sqrt{P}$ 800MHz to 2.5GHz Here P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance level in each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol:</p> <p style="text-align: center;">  </p>
<p>NOTE 1 At 90MHz and 800MHz, the higher frequency range applies.</p> <p>NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p>			
<p>Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the Dr Trust Instascan Forehead & Ear Thermometer-606 is used exceeds the applicable RF compliance level above, the Dr Trust Instascan Forehead & Ear Thermometer-606 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the Dr Trust Instascan Forehead & Ear Thermometer-606.</p>			

Recommended separation distances between portable and mobile RF communications equipment and the product			
The Dr Trust Instascan Forehead & Ear Thermometer-606 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Dr Trust Instascan Forehead & Ear Thermometer-606 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Dr Trust Instascan Forehead & Ear Thermometer-606 as recommended below, according to the maximum output power of the communications equipment.			
Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter M		
Rated maximum output power	150kHz to 80MHz $d = 1.2 \sqrt{P}$	80MHz to 800MHz $d = 1.2 \sqrt{P}$	800MHz to 2.5GHz $d = 2.3 \sqrt{P}$
0.01	0.01	0.12	0.23
0.1	0.1	0.38	0.73
1	1	1.2	2.3
10	10	3.8	7.3
100	100	12	23
For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.			
NOTE 1 At 80MHz and 800MHz, the separation distance for the higher frequency range applies.			
NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			

14. STORAGE

Do not store the thermometer in the following types of places. Doing so may damage the thermometer.

- Wet locations.
- Locations with high heat and humidity or those that are exposed to direct sunlight.
- Areas close to heating equipment, dusty locations, or environments
- Where there are high salt concentrations in the air.

15. MEASUREMENT NOTES

Always hold the thermometer by its handle.

- Point the thermometer toward the targeted area or object whose temperature is to be measured.
- Keep in mind that it will take up to 30 minutes for the sensor to stabilize if going from ambient temperatures to a much higher (or lower) temperature measurement.
- This is not recommended for measuring shiny or polished surfaces temperature.
- It cannot measure through transparent surfaces such as glass.
- Before measuring in object mode, be sure to clean surfaces that are covered with frost, oil, grime, etc.

16. CUSTOMER SUPPORT

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