

● 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 headquarter 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 ensure 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

Non-Contact Infrared Thermometer Gun - 610

● QUICK STARTUP GUIDE ●

Step 1

Install batteries and set the temperature measurement reading to Fahrenheit or Celsius.

Step 2

Press the trigger to turn ON the laser gun.

Step 3

Aim the Gun to person's forehead or object from the distance of 3-5 cm.

Step 4

Pull the trigger to get accurate temperature reading on the gun's display with the beep sound and colour changing backlight.



1. Product Introduction

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- 3) Operating Principle
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1) Overview

Dr Trust Non-Contact Infrared Thermometer Gun – 610 measures the body temperature based on the infrared energy emitted from the forehead. Users can quickly get measurements after properly scanning the forehead. The thermometer has been carefully developed for accurate, safe, and fast temperature measurements from the forehead. Please read these instructions carefully before using this product and keep it in a safe place for future reference.

Normal body temperature is a range. The following table show that this normal range also varies by site. Therefore, readings from different site should not be directly compared. Tell your doctor what type of thermometer you used to take your temperature and on what part of the body. Also bear this in mind if you are diagnosing yourself.

Different Body Parts	Measurements
Forehead temperature	36.1°C to 37.5°C (97°F to 99.5°F)
Ear temperature	35.8°C to 38°C (96.4°F to 100.4°F)
Oral temperature	35.5°C to 37.5°C (95.9°F to 99.5°F)
Rectal temperature	36.6°C to 38°C (97.9°F to 100.4°F)
Axillary temperature	34.7°C–37.3°C (94.5°F–99.1°F)

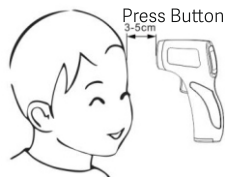


2) Structure

The thermometer consists of a shell, an LCD, a measure button, a beeper, an infrared temperature sensor, and a Microprocessor.

3) Operating Principle

The infrared temperature sensor collects infrared energy emitted by the skin surface. After being focused by a lens, the energy is converted into a temperature reading by the thermopiles and measurement circuits.



4) Indications for use

The Non-contact Infrared Thermometer is intended for the measurement of human body temperatures. The forehead mode is indicated for people of all ages.

2. FEATURES

- Non-Contact, safe and hygienic design
- Quick measurement, less than 1 second
- Accurate and reliable
- Measured spot LED tracking light
- One button easy operation
- Multi-functional
- 35 sets of memories, easy to recall
- Switching between mute and un-mute mode

- Fever alarm function, displays results in orange and red light
- Switching between °C and °F
- Auto shut-down for power-saving

3. WARNINGS AND PRECAUTIONS

1. Keep the thermometer out of reach of children under 12-year.
2. Never immerse the thermometer into water or other liquids (not water proof).
3. For cleaning and disinfecting please follow the instructions in the "Care and cleaning" section.
4. Never use the thermometer for purposes other than those it has been intended for.
5. Please follow the general safety precautions when using on children.
6. Keep the thermometer away from direct exposure to the sun and keep it in a dust-free, dry area, well-ventilated place at a temperature between 10°C (50°F)-40°C (104°F).
7. Do not use the thermometer in high humidity environments. (>95%RH)
8. Do not use the thermometer if there are signs of damage on the measuring sensor or on the instrument itself. If damaged, do not attempt to repair the instrument! Please contact a professional.
9. This thermometer consists of high-quality precision parts. Do not drop the instrument.
10. Protect it from severe impact and shock. Do not twist the instrument or the measuring sensor.



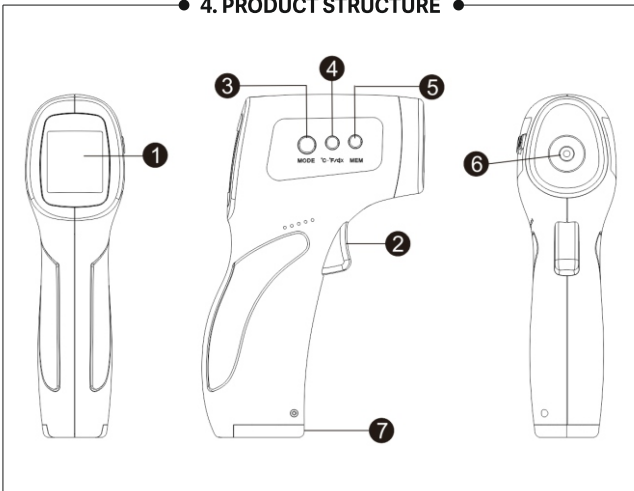
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11. Please consult your doctor if you see symptoms such as unexplained irritability, vomiting, diarrhea, dehydration, changes in appetite or activity, seizure, muscle pain, shivering, stiff neck, pain when urinating, etc., even in the absence of fever.
12. Even in the absence of fever, those who exhibit a normal temperature may still need to receive medical attention. People who are on antibiotics, analgesics, or antipyretics should not be assessed solely on temperature readings to determine the severity of their illness.
13. Temperature elevation may signal a serious illness, especially in adults who are old, frail, have a weakened immune system, or neonates and infants.
14. Please seek professional advice immediately when there is a temperature elevation and if you are taking temperature for whom are:

- Over 60 years of age (Fever may be blunted or even absent in elderly patients)
 - Having diabetes mellitus or a weakened immune system (e.g., HIV positive, cancer, chemotherapy, chronic steroid treatment, splenectomy)
 - Bedridden (e.g., nursing home patient, stroke, chronic illness)
 - A transplant patient (e.g., liver, heart, lung, kidney)
15. This thermometer is not intended for pre-term babies or small-for-gestational age babies.
 16. This thermometer is not intended to interpret hypothermic temperatures. Do not allow children to take their temperatures unattended.
 17. Use of this thermometer is not intended as a substitute for consultation with your physician or pediatrician. It is for household use only.

18. Clean the thermometer probe after each use.
19. Do not use the thermometer on newborns or for continuous temperature monitoring purposes.
20. Do not take a measurement while or immediately after nursing a baby.
21. Patients should not drink, eat, or be physically active before/while taking the measurement.

4. PRODUCT STRUCTURE

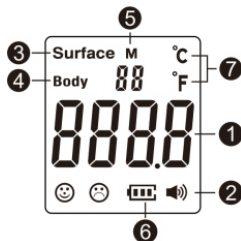


1. LCD display screen
2. Measure button
3. Mode Selections
4. Mute-unmute button (or °C/°F conversion)

5. Memory (Memory Recall)
6. Sensor
7. Battery cover

5. DISPLAY DESCRIPTION

1. Temperature value
2. Mute /Un-mute
3. Object temperature mode
4. Forehead temperature mode
5. Memory recall
6. Battery level
7. Fahrenheit / Celsius degrees

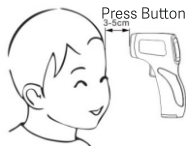


6. HOW TO USE YOUR THERMOMETER

When using the thermometer for the first time, please load the batteries.

1) Take your forehead temperature

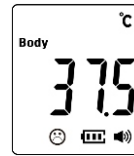
Press the Measure button to power on. Only aimed at forehead from the distance of 3-5 cm, no need of contacting skin, pressed to measure body temperature, the beep is heard, you can now read the value.



At the temperature 37.4°C and below, the green backlight turns on.



At the temperature 37.5°C and above, the red backlight turns on.



NOTE:

- The forehead measurement is an indicative reading. The measured forehead temperature can fluctuate up to 1°F/0.5°C from your actual body temperature.
- If the eyebrow area is covered with hair, sweat or dirt, please clean the area beforehand to improve the reading accuracy.
- Always check if the lens is clean.
- Always make sure the user and the thermometer will have been in the same room for at least 30 minutes prior to the measurement.

2) Take Room/Object Temperature

When the thermometer is power off, press the Mem (Memory) button for 3 seconds. Then press the Measure button to measure room/object temperature. Keep the thermometer about 3-5cm away from the object. Press and release the Measure button in 1 second, the beep is heard, you can now read the value.



3) After A Measurement

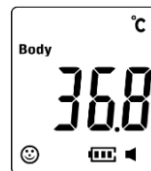
- Once the reading has been completed, remove the thermometer away from the forehead and observe temperature.
- After each measurement, you can enter the recall mode and query earlier temperature readings.
- Do not hold the thermometer for a long time, because it is sensitive to the ambient temperature.
- After each measurement, clean the temperature probe with a soft cloth, and put the thermometer in a dry and well-ventilated place.
- You should wait at least 10 seconds between each measurement.
- It is dangerous to make a self-diagnosis or self-treatment based on the obtained measurement results. For such purposes, please consult a doctor.

4) Read your Temperature

- Indicates a temperature reading. In body (human) mode.
 - 1. If $32^{\circ}\text{C} \leq T \leq 37.3^{\circ}\text{C}$ ($89.6^{\circ}\text{F} \leq T \leq 99.2^{\circ}\text{F}$), the green light will last for 3 seconds, with one long beep.
 - 2. If $37.4^{\circ}\text{C} \leq T \leq 37.9^{\circ}\text{C}$ ($99.3^{\circ}\text{F} \leq T \leq 100.3^{\circ}\text{F}$), the orange light will last for 3 seconds, with 3 short beeps, and the value in LCD flickers, which is a warning that you may have a light fever.
 - 3. If $38^{\circ}\text{C} \leq T \leq 42.9^{\circ}\text{C}$ ($100.4^{\circ}\text{F} \leq T \leq 109.2^{\circ}\text{F}$), the red light will last for 3 seconds, with 5 short beeps, and the value in LCD flickers, which is a warning that you may have a high fever.

5) Switching between mute and un-mute

When the thermometer is turned on, keep short pressing the Mute-un mute button for less than 1 second, to switch from un-mute to mute.



6) Checking 35 sets of memory data

When the thermometer is turned on, by short pressing the Mem to go to the memory mode, press this button again to check the 35 sets of memories one by one. If no value, it will display “—M”.

7) °C/°F conversion

When the thermometer is turned on, keep long pressing the Mute-unmute button for 5 seconds, to change the °C/°F.

8) To turn off

The thermometer will shut down automatically after 15 seconds of no use. Or you can keep pressing the Measure button for 6 seconds.

Caution

1. All memory records will loss when you uninstall or reinstall the battery.
2. All settings will come to default when uninstall the battery. If need to adjust the settings, please power on the thermometer and make the new settings.

9) Battery Replacement

1. Slide the battery cover off along the marked direction. Put two AAA batteries correctly into the compartment.
2. Remove the batteries if the thermometer will not be used for more than two months.



7. TIPS OF TAKING TEMPERATURE CORRECTLY

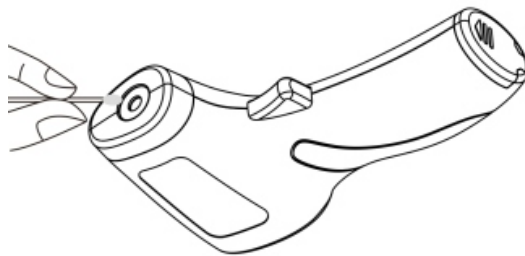
1. It is important to know everyone's normal temperature when they are well. This is the only way to accurately diagnose a fever.
2. Record readings twice a day (early morning and late afternoon). Take the average of the two temperatures to calculate normal oral equivalent temperature. Always take the temperature in the same location since the temperature readings may vary from different locations on the forehead.
3. A child's normal temperature can be as high as 99.9°F (37.7) or as low as 97.0°F (36.11). Please note that this unit reads 0.5°C (0.9°F) lower than a rectal digital thermometer.
4. Holding the thermometer for too long in the hand before taking a measurement can cause the device to warm up. This means the measurement could be incorrect.
5. Patients and the thermometer should stay in steady-state room condition for at least 30 minutes.
6. Before placing the thermometer sensor onto the forehead, remove dirt, hair, or sweat from the forehead area. Wait 10 minutes after cleaning before taking measurement.
7. Use an alcohol swab to carefully clean the sensor and wait for 5 minutes before taking a measurement on another patient. Wiping the forehead with a warm or cool cloth may impact your reading. It is advised to wait 10 minutes before taking a reading.
8. In the following situations it is recommended that 3-5 temperatures in the same location be taken and the highest one taken as the reading:
 - Newborn infants in the first 100 days.
 - Children under three years of age with a compromised immune system and for whom the presence or absence of fever is critical.

- When the user is learning how to use the thermometer for the first time until he/she has familiarized himself/herself with the instrument and obtains consistent readings.

8. CARE AND CLEANING



Use an alcohol swab or cotton swab moistened with 70% alcohol to clean the thermometer casing and the measuring probe. After the alcohol has completely dried out, you can take a new measurement.





Ensure that no liquid enters the interior of the thermometer. Never use abrasive cleaning agents, thinners or benzene for cleaning and never immerse the instrument in water or other cleaning liquids. Take care not to scratch the surface of the LCD screen.



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9. ERROR AND TROUBLESHOOTING

Symptom	Possible Cause	Description & Solution
Failed to power on.	The battery level is too low.	Replace with a new battery
	Polarities of the batteries are reversed.	Ensure the batteries are in the right position
	The thermometer is damaged	Contact professional or dealer
The reading is too low	The lens of the probe is dirty.	Clean the lens with a cotton swab.
	The distance of the item and target is too far	Keep the thermometer in contact with forehead or put the probe into the Ear Canal.
	You have just come from a cold environment	Stay in a warmer room for at least 30 minutes before taking a reading
The reading is too high	You have just come from a hot environment.	Stay in an adequately cool room for at least 30 minutes before taking a reading
	The ambient temperature is not in range.	3 short beeps and red backlit for 3 seconds. Take a measurement under an ambient
	Memory Error	3 short beeps and red backlit for 3 seconds. Contact dealer.

	In body (human) mode, T > 42.9°C (109.2°F)	3 short beeps and red backlit for 3 seconds.
	In body (human) mode, T < 32°C (89.6°F)	3 short beeps and red backlit for 3 seconds.
	2.5V ± 3% ≤ power voltage ≤ 2.6V ± 3%	The battery level is low, it suggests you replace the battery, but you can continue to use it.
	The power voltage is lower than 2.5V ± 3%.	It will turn off automatically after 30 seconds. Please replace with a new battery.

10. SPECIFICATIONS

Product Type	Dr Trust Non-Contact Infrared Thermometer Gun – 610	
Power supply	DC1.5V×2	
Measurement range	Forehead: 32.0°C–42.9°C (89.6°F–109.2°F)	
	Object: 0°C–100°C (32°F–212°F)	
Accuracy (Laboratory)	Body (human) mode	±0.2°C/±0.4°F
	Object mode	±1.0°C/1.8°F
Display resolution	0.1°C/0.1°F	
Automatic shut down	10s ± 1s	



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Memory	35 groups of measured temperature.
Operational conditions	Temperature:10°C-40°C(50°F-104°F)/ Humidity: 15-95%RH, non-condensing Atmospheric pressure: 86-106kPa
Battery	2*AAA, can be used for more than 3000times
Weight & Dimension	88.2g (without battery), 161×43×68mm

11. EMC INFORMATION

Guidance and manufacturer 's declaration-electromagnetic emissions		
The Dr Trust Non-Contact Infrared Thermometer Gun – 610 is intended for using in the electromagnetic environment specified below. The customer or the user of the iCheck Ear and Forehead Thermometer should assure that it is used in such an environment.		
Product Type	Compliance	Electromagnetic environment-guidance
RF emissions CISPR 11	Group 1	The iCheck Ear and Forehead Thermometer 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 CISPR 11	Class B	The Dr Trust Non-Contact Infrared Thermometer Gun – 610 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 emissions IEC 61000-3-2	N/A	
Voltage fluctuations /flicker emissions IEC 61000-3-3	N/A	

Guidance and manufacturer's declaration-electromagnetic immunity			
The Dr Trust Non-Contact Infrared Thermometer Gun – 610 is intended for use in the electromagnetic environment specified below. The customer or the user of the thermometer should assure that it is used in such an environment.			
Immunity test	IEC60601test level	Compliance level	Electromagnetic environment-guidance
Electrostatic discharge (ESD) IEC61000-4-2	±2, ±4, ±6kVfor Contact discharge ±2, ±4,±8kV Air discharge	±2, ±4, ±6kVfor Contact discharge ±2, ±4,±8kV Air discharge	Floors should be wood, concrete, or ceramic tile. If floors are covered with synthetic material, the relative humidity should beatleast30%



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Electrical fast transient/burst IEC61000-4-4	±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 IEC61000-4-5	±1 kV line(s) to line(s) ±2 kV line(s) to	N/A	Mains power quality should be that of typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations in power supply input lines IEC 61000-4-11	<5%UT (>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%	N/A	Mains power quality should be that of a typical commercial or hospital environment. If the user of the Dr Trust Non-Contact Infrared Thermometer Gun – 610 requires continued operation during power mains interruptions, it is recommended that the infrared thermometer be powered from an uninterrupted power supply or a battery
Power frequency (50/60Hz) Magnetic field IEC61000-4-8	3A/m	3A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment
NOTEUT is the a.c. mains voltage prior to application of the test level.			

Guidance and manufacturer's declaration-electromagnetic immunity			
The Dr Trust Non-Contact Infrared Thermometer Gun – 610 is intended for use in the electromagnetic environment specified below. The customer or the user of the infrared thermometer should assure that it is used in such an environment.			
Immunity test	IEC60601test level	Compliance level	Electromagnetic environment-guidance
Conducted RF IEC 61000-4-6	3Vrms150kHz to 80MHz	N/A	Portable and mobile RF communications equipment should be used no closer to any part of the Dr Trust Non-Contact Infrared Thermometer Gun – 610 including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance d=1.2 P



Radiate d RF IEC 61000-4-3		3V/m	<p> $d=1.2 \sqrt{P}$ 80MHz to 800MHz $d=2.3 \sqrt{P}$ 800MHz to 2.5MHz 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>
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NOTE 1 At 90MHz and 800MHz, 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.

a) 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 thermometer is used exceeds the applicable RF compliance level above, the thermometer should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the thermometer.

b) Over the frequency range 150kHz to 80MHz, field strengths should be less than 3V/m.

Recommended separation distances between portable and mobile RF communications equipment and the Dr Trust Non-Contact Infrared Thermometer Gun – 610

The Dr Trust Non-Contact Infrared Thermometer Gun – 610 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of this thermometer can help in preventing electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Dr Trust Non-Contact Infrared Thermometer Gun – 610 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		
	150kHz to 80MHz d =1.2 P	80MHz to 800MHz d =1.2 P	800MHz to 2.5GHz d =2.3 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.

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Product Demo Video

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