

IMPORTANT! READ THE INSTRUCTIONS THOROUGHLY AND KEEP FOR FUTURE USE

It is important to use this thermometer correctly in order to get an accurate result.

Read the instructions carefully before use.

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TEMPERATURE RANGE

- The normal body temperature is a range. The normal range varies from person to person depending on age and gender and can fluctuate throughout the day. Generally, newborns or children have higher body temperature than adults, and adults have higher body temperature than the elderly. Women's body temperature are appropriately $.0.3^{\circ}\text{C}$ (0.5°F) higher than men's.
- The normal range also varies by body site. Therefore, measurements from different sites should not be compared directly. To determine if an individual is experiencing an elevated body temperature and/or having a fever, it is critical to know the individual's normal body temperature when he/she is well. Take multiple readings to obtain the normal body temperature range and note the specific body site measured, for example: forehead or eardrum temperature.

Body Part	Normal Temperature Range
Forehead	36.1°C – 37.5°C / 97.0°F – 99.5°F
Ear canal	35.8°C – 38.0°C / 96.44°F – 100.40°F
Mouth	35.5°C – 37.5°C / 95.9°F – 99.5°F
Armpit	34.7°C – 37.3°C / 94.46°F – 99.14°F
Anus	36.6°C – 38.0°C / 97.88°F – 100.40°F

This Infrared Thermometer F342 measures the human body or an object temperature based on the infrared energy emitted by the forehead or an object (such as milk and water). You can quickly get measurement results after pointing the temperature probe to the target.

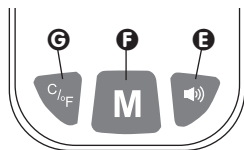
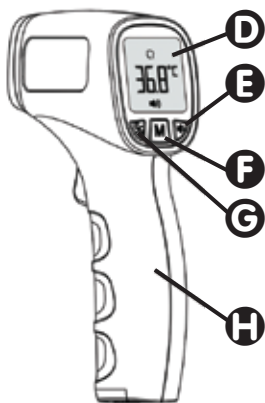
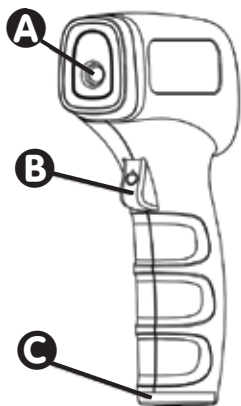
WARNING

- Keep thermometer out of reach of children.
- This item is not a toy. Do not allow children to play with it.
- This thermometer is for domestic or home use only.
- The thermometer is not intended to diagnose or treat any health problem or disease. The measurement results are for reference only.
- It is dangerous to make a self-diagnosis or self-treatment based on the obtained measurement results. Consult a physician or other medical professional.

CAUTION

- Do not take body temperature readings within 20 minutes after physical exercises.
- The ambient temperature must not be extremely high or low. To make sure accurate readings, keep the thermometer under room temperature for more than 30 minutes before use.
- Do not use the thermometer under an ambient temperature higher than 40°C (104°F) or lower than 10°C (50°F), which is beyond the operating temperature range of the thermometer.
- The temperature probe lens is fragile, handle with care.
- Do not immerse the thermometer in water or expose it to direct sunlight.
- Do not subject the thermometer to vibration or impact.
- Do not touch the tip of the temperature probe as this may damage the sensor.
- Do not disassemble the thermometer or attempt to repair it. Otherwise, the thermometer may be damaged permanently.

PARTS



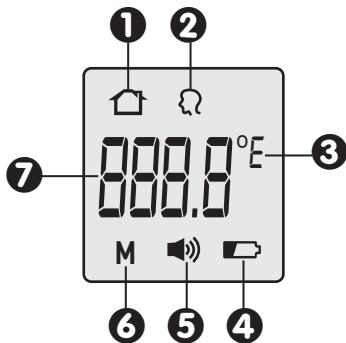
- A. IR sensor
- B. Power-on trigger / Measure button
- C. Battery cover
- D. LCD display
- E. Mute / Un-mute button
- F. Mode button
- G. Celsius / Fahrenheit Switch button
- H. Handgrip

FEATURES

- Rapid response 1 second reading
- One-click trigger action
- Large backlit display with fever alert
- Fever light and sound alert
- Silent mode option
- 20 reading memory recall
- Body or object mode
- °C / °F changeable
- 10 second auto shut- off

DISPLAY DESCRIPTION

- 1 Object temperature mode
- 2 Forehead temperature mode
- 3 Temperature unit (°C / °F)
- 4 Low power indicator
- 5 Mute / un-mute
- 6 Memory recall
- 7 Temperature value



TO USE

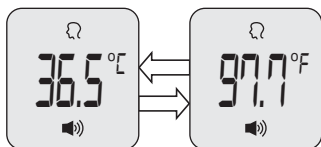


The thermometer is provided with batteries that were installed in the factory.

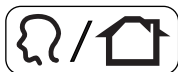
Before first use open the battery cover and remove the insulating piece.

CHOOSE CELSIUS OR FAHRENHEIT

1. Press and release Trigger **B** to turn on.
2. Press the °C/°F button **C** to switch between °C and °F.





SELECT THE MEASUREMENT MODE



Body or Object Mode

Step 1: Press the Trigger to turn on.

Step 2: Select the measurement mode using the Mode button.

- The  symbol indicates the Forehead temperature mode.
- The  symbol indicates the Object temperature mode.

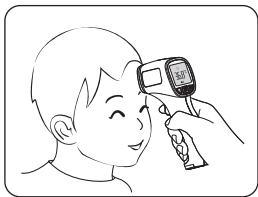



BODY TEMPERATURE MEASUREMENT



- It is important to know each individual's normal temperature when they are well. This is the only way to accurately diagnose a fever. To determine normal temperature, take multiple readings when healthy. Re-measure with a standard digital thermometer for confirmation.
- Users must be inside for 30 minutes before taking a measurement. Note: Users and the thermometer should be in the same ambient temperature for at least 10 minutes before taking a reading.
- Users should not drink, eat, or be physically active such as bathing, showering, shampooing and hair drying before/while taking the measurement. Remove hat and wait 10 minutes before taking a reading.
- Oils or cosmetics on the forehead may give a lower temperature reading than the actual one. Remove dirt from the forehead before taking a measurement. Wait at least 10 minutes after washing the forehead area before taking a reading.
- Holding a hand on the forehead for any length of time will affect the temperature reading.
- Do not take temperature over scar tissue, open sores or abrasions.
- Do not use the thermometer on a perspiring or sweating forehead, as this may affect the reading.
- Don't take a measurement while or immediately after nursing a baby.
- This thermometer is intended for home and clinical use.
- Do not take temperatures with this thermometer near places that are very hot, such as fireplaces and stoves.

During measurement, do not use a mobile phone or any other device as this may cause electromagnetic interference.



1. Aim sensor at centre of forehead.
2. Move towards the forehead to a distance of 2-3cm.
3. Press and release Trigger measure button .
4. Read the temperature on the display



5. Check Alerts


Range	Sounds	Backlight
34.9°C-37.5°C / 94.8°F-99.5°F	A long beep	Green
37.6°C-42.2°C / 99.6°F-108°F	3 short double beeps	Red

6. Clean the thermometer with a dry soft cloth, and store in a dry and well-ventilated place.
7. The thermometer automatically powers off if it is not used in 10 seconds.



OBJECT TEMPERATURE MEASUREMENT



1. Aim sensor at centre of object 2-3cm away.
2. Press and release Trigger measure button .
3. Read the temperature on the display



4. Check Alerts

Range	Sounds	Backlight
0°C-100°C / 32.0°F-212.0°F	A long beep	White


5. Clean the thermometer with a dry soft cloth, and store in a dry and well-ventilated place.
6. The thermometer automatically powers off if it is not used in 10 seconds.

M MEMORY FUNCTION

A maximum of 20 temperature readings can be recalled.

1. Turn power on.
2. Press and hold the **M** Mode button until F-1 is displayed.



3. Press the °C / °F or the  button, **1** will be shown, followed by the recorded reading.




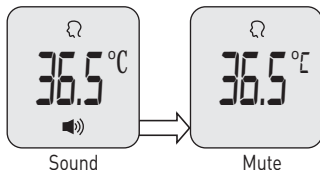
4. Press the "°C / °F button" again for the next recorded data. **2** will be shown, followed by the recorded reading.



NOTE: **1** represents the latest data.

MUTE MODE

1. Press and release Trigger to turn on.
2. Press the **Mute/un-mute** button for silent operation.
3. The  symbol is displayed in sound mode and disappears in mute mode.





TO CHANGE FEVER ALERT LEVEL

1. Turn power on.
2. Press and hold the **M Mode button** until **F-1** is displayed.



3. Press the **Mode button** and **F-2** is displayed.

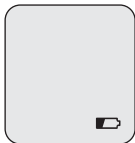


4. Press the **°C / °F** or the  button. The fever alert threshold is displayed. The threshold value increments by 0.1°C/°F every time the **°C/°F** button is pressed, and decrements by 0.1°C/°F every time the  button is pressed. The tunable range is 35.0°C–42.0°C (95.0°F–107.6°F).

Note - The default fever alert threshold is 37.6°C.



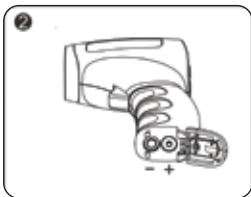
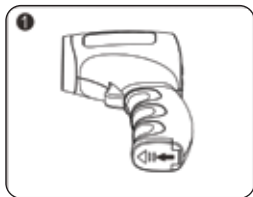
REPLACING BATTERIES



If the low-battery symbol is displayed on the screen, replace the batteries.

Requires: 2x AAA (DC 3V)

1. Slide the battery cover off along the marked direction.
2. Insert the 2x AAA batteries into the compartment correctly following + - direction.
3. Close cover.



WARNING

- Rechargeable batteries can NOT be used.
- Do not mix alkaline and standard batteries.
- Do not throw batteries in a fire as they may explode.
- Keep batteries away from children
- Remove the batteries if the thermometer will not be used for more two months.

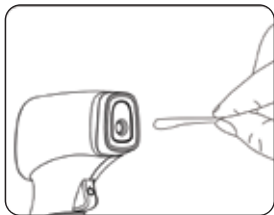
Caution: Protect the environment by not disposing of this product with household waste.
Check your local authority for recycling advice and facilities.



CARE AND MAINTENANCE

To Clean:

1. Remove batteries
2. Clean the lens of the temperature probe with a dry cotton swab.
Do not use tissue paper.
3. Wipe body of thermometer with soft, slightly damp cloth and mild detergent.
Do not immerse in water.
Do not use corrosive cleaners.



To Disinfect:



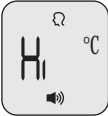

Follow above using Isopropyl alcohol solution (concentration: 70%).
Do not microwave, use hot steam or ultraviolet light to disinfect.

MAINTENANCE

Before each use check the thermometer for any signs of damage or wear.
Store in a dry, dust free, well ventilated location.
Remove batteries if not to be used for a long time.

TROUBLESHOOTING


Problem	Possible Cause	Solution
The thermometer fails to power on.	Low battery	Change the batteries.
	Polarities of the batteries are reversed.	Make sure that the batteries are installed correctly.
	The thermometer is damaged.	Contact the manufacturer.
"Er1" is displayed.	The ambient temperature is lower than 10°C (50.0°F) or higher than 40°C (104°F).	Take a measurement under an ambient temperature between 10°C (50.0°F) and 40°C (104°F).
The temperature reading is lower than the typical body temperature range.	The lens of the temperature probe is dirty.	Clean the lens using a cotton swab.
	The distance between the temperature probe and the target is too long.	Move the thermometer closer to the target.
	The thermometer is used within 30 minutes after being taken from a cold environment.	Wait for more than 30 minutes after the thermometer is moved into the measurement environment.
The temperature reading is higher than the typical body temperature range.	The temperature probe is damaged.	Contact the manufacturer.

Error information		
	<p>The ambient temperature is higher than 40.0°C (104.0°F) or lower than 10.0°C (50.0°F).</p>	<p>A long beep and a red backlight for 3 seconds.</p>
	<p>An error occurs when data is being read from or written to the memory, or the temperature correction is not complete.</p>	<p>A long beep and a red backlight for 3 seconds.</p>
	<p>In Object mode, a temperature reading of more than 100°C (212.0°F).</p> <p>In Forehead mode, a temperature reading of more than 42.2°C (108.0°F)</p>	<p>A long beep and a green backlight for 3 seconds.</p>
	<p>In Object mode, a temperature reading of less than 0°C (32.0°F)</p> <p>In Forehead mode, a temperature reading of less than 34.9°C (94.8°F)</p>	<p>A long beep and a green backlight for 3 seconds.</p>

SPECIFICATIONS

Product Name	Infrared Thermometer
Product Model	(#342)
Power Supply Mode	Internal power supply
Operating Voltage	DC 3V
Battery Model	AAA x 2
Operating Mode	Continuous operating
Display	Segment LCD
Measure time	About 1 second
Latency Time	About 1 second
Measuring Distance	1 to 5 cm / ½ in to 2 in
Measuring Range	Forehead: 34.9°C–42.2°C (94.8°F–108.0°F)
	Object: 0.0°C–100.0°C (32.0°F–212.0°F)
Accuracy (Laboratory)	±0.2°C / ±0.4°F from 34.9°C to 42.2°C (94.8°F to 108.0°F)
	±0.3°C / ±0.5°F, Outside the range of 34.9°C to 42.2°C (94.8°F to 108.0°F)
Resolution	0.1°C (0.1°F)
Memory	20 temperature readings
Low-battery Alert	The low-battery symbol is displayed if the power voltage is lower than 2.5 V±0.1V.
Automatic Power-off	The thermometer automatically powers off if it is not used in 10±1 seconds.
Dimensions (mm)	150 × 88.2 × 40.6
Weight (g)	109.5 g (with batteries)
Operating Environment	Temperature: 10°C–40°C (50°F–104°F)
	Humidity: 15%–95% RH, non-condensing
	Atmospheric pressure: 86–106 kPa
Storage and Transportation	Temperature: -20°C to 55°C (-4°F–131°F)
	Humidity: 0- 95% RH, non-condensing
	Atmospheric pressure: 50–106 kPa
Manufacturing date	See the label

Security Class

- Type of protection against electric shock: internally powered equipment.
- Degree of protection against electric shock: Type BF applied part .
- Degree of protection against ingress of water: IP22
- Safety degree of using in flammable anesthetic gas blending with air, oxygen or nitrous oxide: Non-AP/AGP
- No application parts of the thermometer prevents defibrillation charge effect.
- No application parts of the thermometer output signal.
- The thermometer is permanent installed device.

Storage and Transportation

1. Transportation

The thermometer can be transported using general transportation tools.
Severe vibration, shock, or rain must be avoided during transportation.

2. Storage

The thermometer must be packaged and then stored in a well-ventilated room without corrosive gas. The ambient temperature must be between -20°C and $+55^{\circ}\text{C}$ (-4°F – 131°F), the relative humidity must be lower than 95% (non-condensing), and the atmospheric pressure must be 50–106 kPa.

EMC Information-Guidance and Manufacture's Declaration



CAUTION:

- The Infrared Thermometer JPD-FR202 needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided for in the ACCOMPANYING DOCUMENTS.
- Portable and mobile RF communications equipment can affect Infrared Thermometer JPD-FR202.
- The Infrared Thermometer JPD-FR202 should not be used adjacent to or stacked with other equipment.


Guidance and manufacturer's declaration – Electromagnetic emission – for all equipment and systems

Guidance and manufacturer's declaration – Electromagnetic emission		
The Infrared Thermometer JPD-FR202 is intended for use in the electromagnetic environment specified below. The customer or the user of the Infrared Thermometer JPD-FR202 should assure that it is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The Infrared Thermometer JPD-FR202 uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The Infrared Thermometer JPD-FR202 is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.

Guidance and manufacturer's declaration – Electromagnetic immunity – for all equipment and systems

Guidance and manufacturer's declaration – Electromagnetic immunity			
The Infrared Thermometer JPD-FR202 is intended for use in the electromagnetic environment specified below. The customer or the user of the Infrared Thermometer JPD-FR202 should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment- guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±15 kV air	±8 kV contact ±15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

Guidance and manufacturer's declaration – Electromagnetic immunity – for equipment and systems that are not LIFE-SUPPORTING

Guidance and manufacturer's declaration – Electromagnetic immunity			
The Infrared Thermometer JPD-FR202 is intended for use in the electromagnetic environment specified below. The customer or the user of the Infrared Thermometer JPD-FR202 should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment- guidance
Radiated RF IEC 61000-4-3	10 V/m 80 MHz to 2.7 GHz	10 V/m	<p>Portable and mobile RF communications equipment should be used no closer to any part of the JPDFR202, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance</p> $d = \left[\frac{3.5}{E_1} \right] \sqrt{P} \quad 80 \text{ MHz to } 800 \text{ MHz}$ $d = \left[\frac{7}{E_1} \right] \sqrt{P} \quad 800 \text{ MHz to } 2,5 \text{ GHz}$ <p>where 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 metres (m).^a Field strengths from fixed RF transmitters, as determined by an Electromagnetic site survey, should be less than the compliance level in each frequency range.^b Interference may occur in the vicinity of equipment marked with the following symbol: </p>

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations.

Electromagnetic 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 JPD-FR202 is used exceeds the applicable RF compliance level above, the JPD-FR202 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the JPD-FR202.

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

Recommended separation distances between portable and mobile RF communications equipment and the EQUIPMENT or SYSTEM -for EQUIPMENT and SYSTEMS that are not LIFE-SUPPORTING

The Infrared Thermometer JPD-FR202 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Infrared Thermometer JPD-FR202 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Infrared Thermometer JPD-FR202 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	
	80 MHz to 800 MHz $d = \left[\frac{3.5}{E_1} \right] \sqrt{P}$	800 MHz to 2,5 GHz $d = \left[\frac{7}{E_1} \right] \sqrt{P}$
0.01	0.12	0.23
0.1	0.38	0.73
1	1.2	2.3
10	3.8	7.3
100	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance *d* in metres (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 80 MHz and 800 MHz, 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.



Rapid Response Infrared Thermometer

F342
JPD-FR202

Tee-Zed acknowledges that its customers may be entitled to statutory consumer guarantees and does not seek to exclude or limit them. These guarantees include that Tee-Zed's products are of acceptable quality. This Tee-Zed product is for the specific purpose detailed in the instructions and packaging and Tee-Zed considers use outside of that purpose to be abnormal use. To the maximum extent permitted by law, Tee-Zed does not accept any liability for damage:

- arising from abnormal use of the products;
- caused by installation or removal of the products other than in accordance with the supplied installation and removal instructions; or
- arising under the law of tort or contract.

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