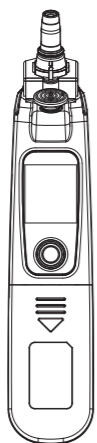


Part no.	311-1261000-XXX
Product name	機器說明書/FORA IR20b-1261C/英/FCCa/
Spec	L297*W420mm/雙面/模造紙/4折(長邊對2折+短邊對2折)完成尺寸L74*W105mm/70P/黑
Designer	JF
Color	■ K 100

FORA® IR20

EAR THERMOMETER

311-1242000-XXX
Version 1.0 2021/06



ForaCare Technology Canada, Inc.
2103-11871 Horseshoe Way
Richmond, B.C. V7A 5H5 Canada
Products made in Taiwan
T: (604)358-5601
(9:00 am - 6:00 pm PST, Mon.-Fri.)
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INTRODUCTION

Thank you for choosing FORA IR20 ear thermometer. This innovative medical device relies on advanced infrared (IR) technology to measure temperature instantly.

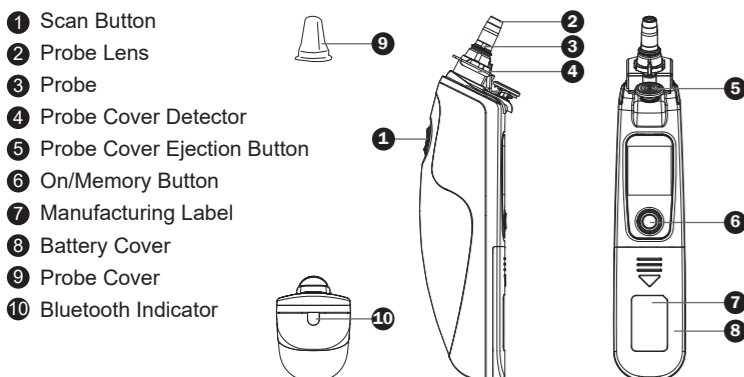
INTENDED USE

FORA IR20 ear thermometer is intended for the intermittent measurement and monitoring of human body temperature from ear canal. The device is intended for use by people of all ages for home and professional use.

HOW DOES IT WORK

The thermometer measures the infrared heat generated by the eardrum and its surrounding tissue. The thermometer then converts it into a temperature value shown on the LCD screen.

APPEARANCE AND KEY FUNCTIONS OF THE THERMOMETER



IMPORTANT SAFETY INSTRUCTIONS

READ THIS BEFORE USING AND KEEP THESE INSTRUCTIONS IN A SAFE PLACE

The following basic safety precautions should always be taken.

1. Close supervision is necessary when the thermometer is used by, on, or near children, handicapped persons or invalids.
2. Use the thermometer only for the intended use described in this manual.
3. Do not use the thermometer if it is not working properly, or if it has suffered any damage.
4. Do not use accessories which are not supplied or recommended by the manufacturer.
5. Proper maintenance is essential to the longevity of your device. If you are concerned about your accuracy of measurement, please contact the local customer service or place of purchase for help.

CAUTIONS AND WARNINGS

- As with any thermometer, proper technique is crucial to getting accurate temperature readings. Please read this manual thoroughly and carefully before use.
- Always operate the thermometer in temperatures between 16°C to 40°C (60.8°F to 104°F) and relative humidity less than 95%.
- Always store the thermometer in a cool and dry place: temperatures between -20°C to 60°C (-4°F to 140°F); relative humidity less than 95%. Avoid direct sunlight.
- Avoid dropping the thermometer.
- Use only FORA IR20 probe covers for the infrared ear thermometer.
- For proper hygiene, do not share or reuse probe covers. Damaged probe covers may result in error display.
- Do not disassemble the thermometer.
- Basic safety precautions should always be observed, especially when the thermometer is used on or near children and disabled persons.
- This thermometer is not intended to be a substitution for a consultation with your physician.
- Keep probe covers out of reach of children.
- Temperature measurements may differ from left to right ear. Always measure by using the same ear.

RESTRICTIONS OF USE

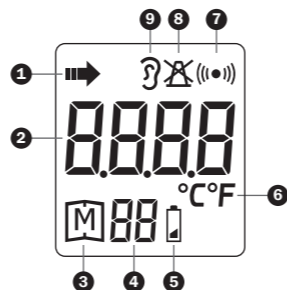
This thermometer is clinically proven to produce accurate temperature measurements. However, please be advised if you have the following situations:

- The accuracy cannot be ensured for a person who has a deformity in their ear, which prevents the thermometer probe from properly being inserted into the ear canal.
- The accuracy cannot be ensured when blood or drainage is found in the ear canal.
- If ear drops or medications have been placed in one ear, take measurements from the other ear.
- For a person who wears an ear plug or hearing aid, remove the device and wait for 15 minutes before taking temperature.

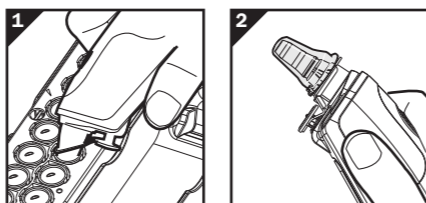
NOTE: Never try to clean inside your ears. You may accidentally damage the eardrum or its surrounding tissues. Remove excess earwax only when you can reach it with a clean cloth. Consult a physician if you suspect the presence of excess earwax.

LCD SCREEN

- 1 Temperature Scanning In Progress
- 2 Temperature Reading
- 3 Memory Mode
- 4 Record Numbers
- 5 Low Battery Indicator
- 6 Temperature Unit
- 7 Communication Symbol
- 8 No Probe Cover Detected
- 9 Ear Temperature Indicator



USING THE DEVICE



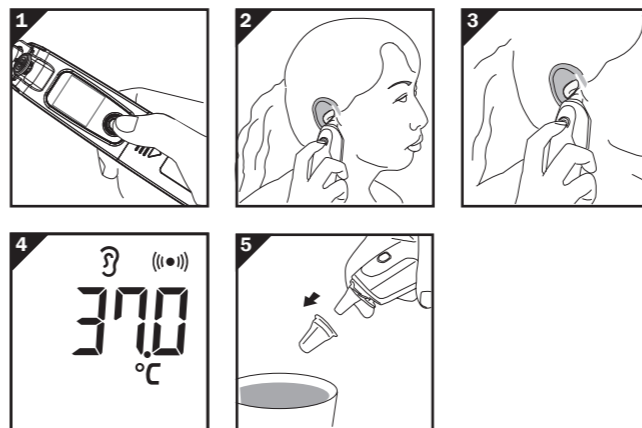
Replacing the Probe Cover

1. Check if the probe cover is clean and new. Press the infrared probe into the cartridge.
2. Secure the cover to the probe and remove it from cartridge.

NOTE:

- If a probe cover is not attached on the probe, LCD will show “X” until a new probe cover is firmly attached to the probe.
- The used probe cover should be removed after each measurement to ensure accuracy.
- To ensure proper hygiene, attach a new probe cover each time and do not touch its tip.

MEASURING TEMPERATURES



1. Press and release the On/Memory button to turn on the thermometer. When ready, the thermometer displays the last measurement.
2. Gently fit the probe with a clean probe cover into the ear canal.
3. Press and release the Scan button. You will hear a beep to indicate the measurement is complete and the thermometer can be removed.
4. Read the result. “ ” and “ (●) ” are shown together with a temperature value.
5. Press the ejection button to discard the used probe cover into a trash can.

NOTE: Turn off the thermometer by pressing On/Memory button twice. It will automatically turn off if left idle for 3 minutes.

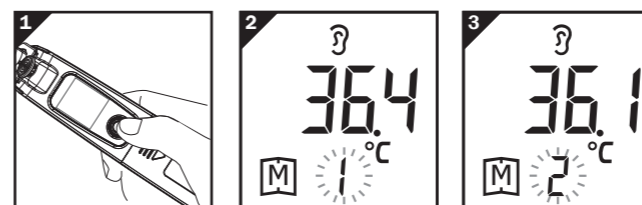
RESULT INDICATORS

Temperature ≤ 31.9°C (89.5°F)	“Lo” with red backlight
32°C (89.6°F) ≤ Temperature < 37.9°C (100.3°F)	Result with green backlight
38°C (100.4°F) ≤ Temperature < 43°C (109.4°F)	Result with red backlight
Temperature ≥ 43.1°C (109.5°F)	“Hi” with red backlight

HINTS ON TAKING TEMPERATURES

1. As with other thermometers, you may observe slight variations in consecutive measurements. It is recommended that you take 3 temperature readings and use the highest one for the following situations:
 - Infants younger than 3 months old.
 - Children younger than 3 years old and who have a compromised immune system and the presence / absence of fever is critical.
 - When you are learning to use the thermometer.
2. Do not take a reading while the patient is moving and/or talking. Wait for 30 minutes after any of the following situations before taking a measurement:
 - When the ear has been covered.
 - After exercising, swimming, or taking a bath.
 - When the patient has been exposed to extreme temperature.
3. To take accurate readings, the ear must be free from excessive earwax build-up.

RECALLING THE MEMORY



Your thermometer stores last 10 readings in the memory.

1. Be sure the thermometer is OFF before recalling the memory.
2. Press the On/Memory button to turn on the thermometer.
3. Press the On/Memory button for 3 seconds to enter memory mode. Each time you press the On/Memory button, a result will be displayed in the order of dates (latest result shown first), together with “ ” and number (from 1 to 10). When the memory is full, the oldest result is deleted as the new one is added. When the last record is displayed in the LCD, press On/Memory button again to return to the first one.
4. Exit the memory. Press On/Memory button again, and then the LCD will show “ OFF ” to exit memory.

VIEWING RESULTS ON A MOBILE DEVICE

You can transmit your data from the meter to your devices (e.g. smart phone, tablet, PC...) via Bluetooth. Please contact your local customer service or place of purchase for assistance. Please note that you must complete the pairing between the meter and Bluetooth receiver before transmitting data.

Pairing with your mobile device

1. On your mobile device, turn on the Bluetooth function and follow the pairing instructions inside of the APP (e.g., scan for the meter to add it into APP).
2. After each measurement, the Bluetooth will be turned on automatically to transmit data to APP.

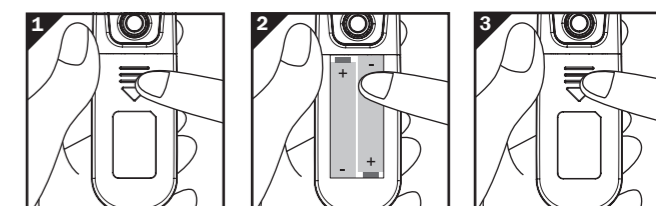
Bluetooth indicator on the meter

Bluetooth Indicator	Status
Flashing Blue	The Bluetooth function is enabled and waiting for connection.
Solid Blue	The Bluetooth connection is established.

WARNING:

- While the meter is in transmission mode, it will be unable to perform a test.
- Make sure your device with iOS (6 or above) or Android System (4.3 or above) has turned on Bluetooth before transmitting the data and the meter is within the receiving range.

REPLACING THE BATTERY



The thermometer comes with two 1.5V AAA alkaline batteries. Replace them when “ ” appears. Please follow the steps for battery replacement.

1. Remove the battery cover.
2. Place the new batteries in the battery compartment and press it in until the batteries are secured.
3. Reattach the battery cover.

NOTE:

- Although the thermometer works when “ ” appears, we still recommend that you change the batteries to obtain an accurate result.
- Remove the batteries if stored for a long period of time.
- The batteries should be kept out of children. If they are swallowed, promptly see a doctor for help.
- Properly dispose of the batteries.

ABOUT NORMAL BODY TEMPERATURE & FEVER

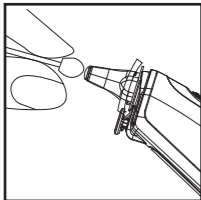
Body temperature can vary from person to person. It also varies on different part of the body and time of day. The following table shows the statistics of normal ranges from different body parts. Please keep in mind that temperatures measured from different parts, even at the same time, should not be directly compared.

Fever indicates that the body temperature is higher than normal. This symptom may be caused by infection, overdressing or immunization. Some people may not experience fever even when they are ill. These include, but are not limited to, infants younger than 3 months old, persons with compromised immune systems, persons taking antibiotics, steroids or antipyretics (aspirin, ibuprofen, acetaminophen), or persons with certain chronic illnesses. **Please consult your physician if you are concerned about your body temperature readings.**

	Body Site Normal Temperature Range*
Oral	35.5°C to 37.5°C (95.9°F to 99.5°F)
Axillary (underarm)	34.7°C to 37.3°C (94.5°F to 99.1°F)
Rectal	36.6°C to 38.0°C (97.9°F to 100.4°F)
Ear	35.8°C to 38.0°C (96.4°F to 100.4°F)

*Chamberlain, J. M. Terndrup, T. E., New Light on Thermometer Readings, Contemporary Pediatrics, March 1994.

CARE AND CLEANING



- The probe is not waterproof. Please wipe it with a clean and dry cotton swab.
- The body of the thermometer is not water-resistant. Never put the thermometer under a running tap or submerge it into water. Use a soft and dry cloth to clean it. Do not use abrasive cleaners.
- Store the thermometer in a cool and dry location. Free from dust and away from direct sunlight.

TROUBLESHOOTING

MESSAGE	WHAT IT MEANS	WHAT TO DO
	Appear when environmental temperature is below or above system operation range.	Put the thermometer under operating temperature range of 16°C to 40°C (60.8°F to 104°F).
	No probe cover detected.	Ensure the probe cover is fitted on firmly, or replace it with a new one.
	Thermometer errors.	Review the instructions and re-start the measurement procedure. If the problem persists, please contact your dealer.
	Appears when the batteries can't provide enough power for a test.	Replace the old batteries with new ones immediately.

SYMBOL INFORMATION

Symbol	Referent	Symbol	Referent
	Consult instructions for use		Type BF applied part
	Manufacturer		Temperature limit
	Serial number		Humidity limitation
	Caution		RoHS Compliance
	Do not re-use (Probe cover use only)		
	This device does not belong to household waste and must be returned to a collection point for recycling electric and electronic devices according to local laws. If it contains batteries, the batteries should be removed and disposed in accordance with local regulations for separate collection of spent batteries.		

SPECIFICATIONS

Dimensions: 165 mm x 32.4 mm x 38.7 mm

Weight: 85.5 g

Battery: 2 x 1.5 V AAA alkaline batteries

External Output: Bluetooth

Displayed Temperature Range: 32°C to 43°C (89.6°F to 109.4°F)

Display Resolution: 0.1°C/0.1°F

Accuracy: Meet the accuracy requirement specified in ASTM E1965-98

±0.2°C (±0.4°F) for the range of 36.0°C to 39.0°C (96.8°F to 102.2°F)

±0.3°C (±0.5°F) from 32.0°C to 35.9°C (89.6°F to 96.6°F) and from 39.1°C to 43.0°C (102.4°F to 109.4°F)

Temperature Unit: °C

Operating Temperature Range: 16°C to 40°C (60.8°F to 104°F)

Operating Humidity: 95% RH or less

Storage Temperature Range: -20°C to 60°C (-4°F to 140°F)

Storage Humidity: 95% RH or less

Memory Capacity: 10 measurements

The specifications may be changed without prior notice.

Manufacturer's declaration-electromagnetic emissions		
The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.		
Emission test	Compliance	Electromagnetic environment-guidance
RF emissions CISPR 11	Group 1	The device 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 device 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.
Harmonic emissions IEC 61000-3-2	Not applicable	
Voltage fluctuations / flicker emissions IEC 61000-3-3	Not applicable	

Manufacturer's declaration-electromagnetic immunity			
The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device 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	Contact: ±8 kV Air ±2 kV, ±4 kV, ±8 kV, ±15 kV	Contact: ±8 kV Air ±2 kV, ±4 kV, ±8 kV, ±15 kV	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 power supply lines ±1 kV for input/output lines	Not applicable Not applicable	Mains power quality should be that of a typical home and professional healthcare environment.
Surge IEC 61000-4-5	±0.5 kV, ±1 kV line(s) to line(s) ±0.5 kV, ±1 kV, ±2 kV line(s) to earth	Not applicable Not applicable	Mains power quality should be that of a typical home and professional healthcare environment.
Voltage Dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	Voltage dips: 0 % UT, 0.5 cycle 0 % UT, 1 cycle 70 % UT, 25/30 cycles Voltage interruptions: 0 % UT, 250/300 cycle	Voltage dips: Not applicable Not applicable Not applicable Voltage interruptions: Not applicable	Mains power quality should be that of a typical home and professional healthcare environment. If the user of the device requires continued operation during power mains interruptions, it is recommended that the device be powered from an uninterruptible power supply or a battery.
Power frequency (50, 60 Hz) magnetic field IEC 61000-4-8 U	30 A/m 50 Hz or 60 Hz	30 A/m 50 Hz and 60 Hz	The device power frequency magnetic fields should be at levels characteristic of a typical location in a typical home and professional healthcare environment.

NOTE UT is the a.c. mains voltage prior to application of the test level.

Manufacturer's declaration-electromagnetic immunity			
The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance
Conducted RF IEC 61000-4-6	3 Vrms: 0.15 MHz – 80 MHz 6 Vrms: in ISM and amateur radio bands between 0.15 MHz and 80 MHz 80 % AM at 1 kHz:	Not applicable Not applicable	Portable and mobile RF communications equipment should be used no closer to any part of the device including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.
Radiated RF IEC 61000-4-3	10 V/m 80 MHz – 2.7 GHz 80 % AM at 1 kHz:	10 V/m 80 MHz – 2.7 GHz 80 % AM at 1 kHz:	Recommended separation distance: d = 1,2 √P d = 1,2 √P 80MHz to 800 MHz d = 2,3 √P 800MHz to 2,7 GHz 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). Interference may occur in the vicinity of equipment marked with the following symbol:

NOTE1 At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE2 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 device is used exceeds the applicable RF compliance level above, the device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the device.

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

Recommended separation distance between portable and mobile RF communications equipment and the device			
The device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the device 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)		
	150 kHz to 80 MHz d = 1,2 √P	80 MHz to 800 MHz d = 1,2 √P	800 MHz to 2,7 GHz d = 2,3 √P
0,01	N/A	0,12	0,23
0,1	N/A	0,38	0,73
1	N/A	1,2	2,3
10	N/A	3,8	7,3
100	N/A	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.

NOTE1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Manufacturer's declaration-electromagnetic immunity							
Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment							
The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.							
Test frequency (MHz)	Band ^{a)} (MHz)	Service ^{a)}	Modulation ^{a)}	Maximum power (W)	Distance (m)	IMMUNITY TEST LEVEL (V/m)	Compliance LEVEL (V/m)
385	380 – 390	TETRA 400	Pulse modulation ^{a)} 18 Hz	1,8	0,3	27	27
450	430 – 470	GMRS 460, FRS 460	FM ^{a)} ±5 kHz deviation 1 kHz sine	2	0,3	28	28
710	704 – 787	LTE Band 13, 17	Pulse modulation ^{a)} 217 Hz	0,2	0,3	9	9
745							
780							
810	800 – 960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation ^{a)} 18 Hz	2	0,3	28	28
870							
930							
1720	1700 – 1990	GSM 1800; CDMA 1900; GSM 1900; DECT, LTE Band 1, 3, 4, 25; UMTS	Pulse modulation ^{a)} 217 Hz	2	0,3	28	28
1845							
1970							
2450	2400 – 2570	Bluetooth, WLAN, 802.11 b/g/h, RFID 2450, LTE Band 7	Pulse modulation ^{a)} 217 Hz	2	0,3	28	28
5240	5100 – 5800	WLAN 802.11 a/n	Pulse modulation ^{a)} 217 Hz	0,2	0,3	9	9
5500							
5785							

NOTE If necessary to achieve the IMMUNITY TEST LEVEL, the distance between the transmitting antenna and the ME EQUIPMENT or ME SYSTEM may be reduced to 1 m. The 1 m test distance is permitted by IEC 61000-4-3.

a) For some services, only the uplink frequencies are included.

b) The carrier shall be modulated using a 50 % duty cycle square wave signal.

c) As an alternative to FM modulation, 50 % pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.