KONQUEST

KDT-2106

Infrared Thermometer Forehead, Ear and Object Multi Mode Instruction Manual



Manual Version: 1.0 Date of Issue: 2017/11

Product Information

Product Name: Infrared Thermometer

Model: KDT-2106

Introduction

Thank you for purchasing the **KONQUEST KTD-2106** Forehead Ear and Object Multi Mode Infrared Thermometer. Please read the User Manual carefully to make sure safe and proper use of this thermometer.

Please read and fully understand the Safety Precautions before use.

Keep the Instruction Manual with this thermometer for future reference.

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Unpacking Check

Please open the package carefully before use, check whether all accessories are available or not and whether any component is damaged during transportation, and perform installation and operation following this user manual. In case of any damage or operation problem, please contact the dealer or contact us directly. You will need the following information when making your claim: device model, serial number, purchase date, and your contact information and address.

Package Contents

No.	Name	Quantity
1	Infrared Thermometer	1
2	Pouch	1
3	Battery (AAA)	2
4	Instruction Manual	1

Safety Precautions

Read the following precautions carefully before using the

thermometer.

Attention
• Take care of the temperature probe lens, which is fragile.
• Dispose used batteries with care. To protect the environment, you
are recommended to send the used batteries to a designated
collection point.
• Remove the batteries if the thermometer will not be used for more
than two months.
• Do not immerse the thermometer in water or expose it to direct
sunlight.
• Do not subject the thermometer to vibration or impact.
• The normal body temperature varies from person to person.
Tracking a person's body temperature will help determine whether
they have fever.
• Do not take body temperature readings within 20 minutes after you
do physical exercises or get excited.
• Clean the thermometer probe after each use.
• Do not use the thermometer on newborns or for continuous
temperature monitoring purposes.
• Do not use the thermometer for purposes that are not specified in
this User's Manual. Follow the instructions in the "Measurement

Process" chapter and carefully operate the thermometer when measuring children's temperature.

- Do not immerse the thermometer in water or other liquid, as it is not waterproof. Clean and disinfect the thermometer as described in the "Cleaning and Disinfection" chapter.
- Do not touch the tip of the temperature probe, on which a precise temperature sensor resides.
- Keep the temperature probe clean to make sure accurate readings.
- Before measuring the temperature from the ear canal, clean the earwax, if any.
- 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.
- Risk of pollution! The user is recommended to send the overdue thermometer to local garbage disposal site or send it back to us.
 - 2 AAA batteries of 1.5V are the only replaceable accessories of the thermometer. Please do not use the batteries of other voltages or specifications.

Warning

	🖄 Warning
•	Do not force the temperature probe of the thermometer into an ear canal. Otherwise, the ear canal may get injured.
•	Keep the thermometer out of the reach of children.
•	The result may be inaccurate if you use the overdue thermometer.
•	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. For such purposes, please consult a doctor.
0	Do not charge an alkaline dry-cell battery or throw it in fire. Otherwise, the battery may explode.
0	Do not disassemble the thermometer or attempt to repair it. Otherwise, the thermometer may be damaged permanently.
0	Do not take temperature measurements on body parts other than forehead and ears. Otherwise, the temperature readings may be inaccurate.
0	During measurement, do not use a mobile phone or any other device that may cause electromagnetic interference.

O not use the thermometer in an environment where flammable anesthetic mixture with air or with oxygen or nitrous oxide is available.

Symbols

Symbol	Description	
Ŕ	Type BF applied part.	
\triangle	Attention must be paid.	
0	The action is prohibited.	
	Information about the manufacturer.	
M	Date of manufacture.	
8	Consult the instructions for use.	
C€ ₀₄₈₂	This product complies with the MDD93/42/EEC requirements.	
X	Waste electrical materials should be sent to a dedicated collection point for recycling.	
Warning	A personal injury or damage to the thermometer may occur if the thermometer is not used correctly.	

Symbol	Description
Attention	Inaccurate reading or damage to the thermometer may occur if the thermometer is not used correctly.

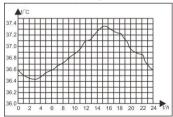
Body Temperature Basics

Generally, you can take a body temperature on the forehead, in the ear canal, under the armpit, in the mouth, or in the anus. The temperature measured at different parts of the body may differ slightly.

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

The normal body temperature range slightly varies with age and gender. Generally, newborns or children have higher body temperature than adults, and adults have higher body temperature than the elderly. Women's body temperature is appropriately 0.3°C higher than men's.

Variation in body temperature



Normal body temperature varies by the time of day and is also affected by external factors. The body temperature of an individual is the lowest between 2:00 a.m. and 4:00 a.m. and the highest between 14:00 p.m. and 20:00 p.m. An individual's body temperature typically changes by less than 1°C each day.

Product Description

1) Overview

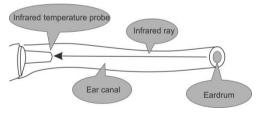
Infrared Thermometer KDT-2106 measures the body temperature based on the infrared energy emitted from the eardrum or the forehead. Users can quickly get measurement results after positioning properly the temperature probe in the ear canal or forehead.

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 eardrum or the skin surface. After being focused by a lens, the energy is converted into a temperature reading by the thermopiles and measurement circuits.



4) Intended use

The KDT-2106 Dual Mode Digital Infrared Thermometer is intended for the measurement of human body temperatures. The forehead mode is indicated for use by people of all ages and the eardrum mode is indicated for use by people above three months old.

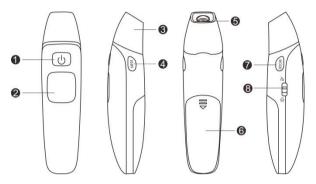
5) Contraindications

Do not use the thermometer if the ear is infected with otitis or suppuration.

Features

- 01 Good safety
 - Passive infrared receiving technology.
- 02 Easy operation
 - Ergonomic design
 - One button measurement
- 03 Quick measurement
 - 1-second measurement
- 04 High accuracy
 - Advanced infrared temperature sensor, with high sensitivity
 - High accuracy with automatic temperature calibration
- 05 Diverse functions
 - 20 reading recalled
 - Fever alert
 - Switching between °C and °F
 - Automatic power-off, power saving
- 06 Extensive application scope
 - Forehead temperature measurement applicable to all age groups
 - Ear temperature measurement applicable to children older than three months, adults, and the elderly

Product structure



- (1) Power button / Measure button
- (2) LCD display screen
- (3) Probe cover (put the cover on when measuring the forehead temperature)
- (4) Memory button / Unit switch button
- (5) Probe (take off the cover when measuring the ear temperature)
- (6) Battery cover
- (7) Mode button (Forehead / Ear / Object)
- (8) Sound switch

Display description

- 1. Object temperature mode
- 2. Forehead temperature mode
- 3. Ear temperature mode
- 4. Low battery
- 5. Mute / un-mute
- 6. Fahrenheit / Celsius degrees
- 7. Memory recall
- 8. Temperature value



Sounds and backlight instructions

Range	Sounds	Backlight
Forehead temperature		
35.0°C-37.5°C/95.0°F-99.5°F	A long beep	Green
37.6°C-42.2°C/99.6°F-108.0°F	3 short double beeps	Red
Ear temperature		
32.0°C-37.5°C/89.6°F-99.5°F	A long beep	Green
37.6°C-42.2°C/99.6°F-108.0°F	3 short double beeps	Red
Object temperature		
0°C-100°C/32.0°F-212°F	A long beep	White

Note: When the forehead temperature is between 35.0° C/95.0°F and 37.5° C/99.5°F, and the ear temperature is between 32.0° C/89.6°F and 37.5° C/99.5°F, there will be a long beep and a green backlight.

When the forehead and the ear temperature is between 37.6°C/99.6°F and 42.2°C/108.0°F, there will be 3 short double beeps and a red backlight. This indicates that the body temperature is a little high. You may have a fever. Please consult your doctor if you are not sure.

Display and Operating Instructions

Screen Display	Operating Instructions Displayed State	Sound and backlight	
Measuring Ear te	mperature		
?	Take off the probe cover, press and release the Power button for 1 second to power on the thermometer. Press the Mode button , the thermometer enters the Ear mode . The symbol "Ear" is displayed on the screen. Insert the temperature probe into a proper position in the ear canal. Press the Measure button to start a measurement.	See the table in the "Sounds and backlight instructions" section	
Measuring Foreh	Measuring Forehead temperature		
0 J 35.8°°	Put the cover on the probe, press and release the Power button for 1 second to power on the thermometer. Press the Mode button , the thermometer enters the Forehead mode . The "Head" symbol is displayed on the screen. Point the thermometer at the temple of the forehead.about ½" to 2" (1-5cm) away from the skin surface. Press and release the Measure button . The temperature will be displayed on the screen.	See the table in the "Sounds and backlight instructions" section	

Screen Display	Operating Instructions Displayed State	Sound and backlight
Measuring Objec	t temperature	
€ ↓ 26.0°°	Press and release the Power button for 1 second to power on the thermometer. Then press the Mode button . The thermometer enters the Object mode . The "House" symbol is displayed on the screen. Point the thermometer to the center of the object. Press and release the Measure button . The temperature will be displayed on the screen.	See the table in the "Sounds and backlight instructions" section
Out of the measu	ring range display	
	In Ear mode, a temperature reading of more than 42.2°C (108.0°F) In Forehead mode, a temperature reading of more than 42.2°C (108.0°F) In Object mode, a temperature reading of more than 100°C (212.0°F)	3 short beeps
Lo °	In Ear mode, a temperature reading of less than 32.0°C (89.6°F) In Forehead mode, a temperature reading of less than 35.0°C (95.0°F) In Object mode, a temperature reading of less than 0°C (32.0°F)	3 short beeps

Screen Display	Operating Instructions Displayed State	Sound and backlight
Recall 20 memories		

Screen Display	Operating Instructions Displayed State	Sound and backlight
	In a power-on state, press the Memory button enter the memory mode. When the Memory button is released, 1 will be shown, followed by the recorded reading. Press the Memory button again for the next recorded data. 2 will be shown, followed by the recorded reading. A maximum of 20 temperature readings can be recalled. Note: 1 represents the newest data.	Silent

Screen Display	Operating Instructions Displayed State	Sound and backlight
Switching betwee	en object temperature and body tempe	erature
	Press the Mode button to switch between object temperature and body temperature. Body temperature contains the Forehead temperature and Ear temperature.	Silent
Switching betw	een °F/°C	
In a power-on state, press and hold the Unit switch button for more than 4 seconds to enter the temperature switching mode. °C or "F are flashing. Press the Unit switch button to switch between °C and °F. The thermometer shuts down after 10 seconds, the set-up is successful.		Silent

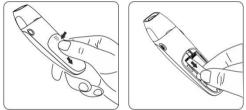
Screen Display	Operating Instructions Displayed State	Sound and backlight
°F		
Switching betwee	en mute and un-mute	
	Toggle the Sound switch to switch between mute and un-mute The Symbol is displayed in Mute mode and disappears in Un-mute mode.	Silent
Error information	h & low battery	
Erl	The ambient temperature is higher than 40.0°C (104.0°F) or lower than 10.0°C (50.0°F).	3 short beeps
Er[An error occurs when data is being read from or written to the memory, or the temperature correction is not complete.	3 short beeps

Screen Display	Operating Instructions Displayed State	Sound and backlight
	When the battery voltage is lower than $2.5V \pm 0.1V$, the low battery symbol will appear on the display. Please replace the batteries.	Silent

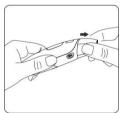
Measuring Ear Temperature

1. When using the thermometer for the first time, move the battery's invulating piece every

insulating piece away.



2. Take the probe cover off from the thermometer before measuring the ear temperature.



3. Press the **Power button** to power on the thermometer.

- Press the Mode button, the thermometer enters the Ear mode. The "Ear" symbol is displayed on the screen.
- 5. Insert the temperature probe into the ear canal.
- Press and release the Measure button. The ear temperature reading will be display on the screen instantly.

Note: Children under 1 year: Pull the ear straight back.

Children aged 1 year to adult: Pull the ear up and back.



Do not force the thermometer into the ear canal. Otherwise, the ear canal may get injured.

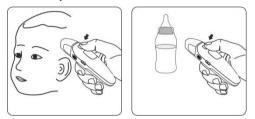
When taking the temperature on an adult, gently pull the ear up and back to make sure the ear canal is straight, so that the temperature probe can receive an infrared ray from the eardrum.

Be careful when taking temperature on a child, whose ear canal is small.

Measuring Forehead Temperature

- 1. Put the cover on the probe of thermometer.
- 2. Press the **Power button** to power on the thermometer.

- Press the Mode button, the thermometer enters the Forehead mode. the "Head" symbol is displayed on the screen.
- Point the thermometer probe to the temple of the forehead, about ¹/₂" to 2" (1-5cm) away from the skin surface.
- Press and release the Measure button for 1 second. The temperature reading will be displayed on the screen instantly.
- If no activity is detected, the thermometer will power off automatically in 10 seconds.



Measuring Object Temperature

- 1. Put the cover on the probe of thermometer.
- 2. Press the **Power button** to power on the thermometer.
- Press the Mode button, the thermometer enters the Object mode. The "House" symbol is displayed on the screen.
- Point the thermometer probe at the center of the object, about ¹/₂" to 2" (1-5cm) away from the object surface.
- Press and release the Measure button for 1 second. The temperature reading will be displayed on the screen instantly.
- If no activity is detected, the thermometer will power off automatically in 10 seconds.

After a measurement

- (1) After each measurement, you can enter the recall mode and query earlier temperature readings. For more details, see "Recall 20 memories" in the preceding table.
- (2) After each measurement, clean the temperature probe with a soft cloth, and put the thermometer in a dry and well-ventilated place.

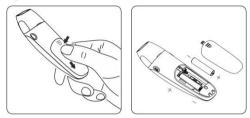
 \angle It is dangerous to make a self-diagnosis or self-treatment based on the obtained measurement results. For such purposes, please consult a doctor.

Notes:

- (1) The thermometer is suitable for an indoor environment without strong air convection (for example, winds from a fan, an air-conditioner, or a heater) between the thermometer and the person.
- (2) Make sure that the ear canal is clean and dry before starting a measurement. It is recommended to clean the ear canal with a cotton swab if any dirt exists. Otherwise, the temperature probe may be polluted and temperature readings may be inaccurate.
- (3) Do not hold the thermometer for a long time, because it is sensitive to the ambient temperature.
- (4) Make sure the sense head is free of foreign matters before use;
- (5) Make sure the forehead has no sweat and no hairs covered before measure the forehead temperature; otherwise, the result could be incorrect;
- (6) No intense emotion or strenuous exercises before measuring;

Replacing Batteries

- 1. Slide the battery cover off along the marked direction and take it off.
- Insert the two AAA batteries into the compartment according to the stated polarities.



Make sure that the batteries are installed correctly. Otherwise, the thermometer may be damaged.

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

Batteries of a same type should be used. Dispose the used batteries in accordance with the local environmental policies.

The thermometer is shipped with batteries. First open the battery cover, then remove the insulating piece.

Cleaning and Disinfection

Cleaning

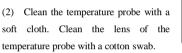
Recommended detergents:

* Medical detergents;

* Home use mild detergents;

Cleaning steps:

(1) Take the batteries out before cleaning.





(3) Wipe the thermometer body with a slightly damp soft cloth.

Keep water out off the lens during the cleaning process. Otherwise, the lens may be damaged.

The lens may be scratched if it is cleaned with a hard object, which might result in inaccurate readings.

Do not clean the thermometer with corrosive cleansers. During the cleaning process, do not immerse any part of the thermometer into liquid, or allow liquid to penetrate the thermometer.

Disinfection

Recommended disinfectants:

* Isopropyl alcohol solution (concentration: 70%)

- * Medicinal alcohol (concentration: 75%)
- * Sodium hypochlorite solution (concentration: 3%)

Disinfecting steps:

- Wet the clean soft cloth with a small quantity of disinfectant, wipe the thermometer and quickly dry it.
- Disinfect the thermometer body and the area around the temperature probe with a cloth slightly moistened with 75% medical alcohol.

 \angle Do not use hot steam or ultraviolet radiation for disinfection. Otherwise, the thermometer may be damaged or quickly aged.

 \angle Clean and disinfect the thermometer under the temperature of $+10^{\circ}$ C- $+40^{\circ}$ Q(50°F- 104° F), the relative humidity of 15%~85%RH (no condensation) and the barometric pressure of 86kPa~106kPa.

Maintenance

Preventive inspection & maintenance period

- Ensure the safety of thermometer, and check whether it has potential safety hazards in normal use each week, e.g. whether the lens is broken, the shell has cracks and the sensing head is polluted. Do not use the thermometer with potential safety hazard. Clean the thermometer if not used for a long time.
- After each use, clean the temperature probe as described in the "Cleaning and Disinfection" chapter.
- Store the thermometer in a dry, dust-free, and well-ventilated place. Make sure that the thermometer is not exposed to sunlight. Make sure

that the storage and transportation environments meet the requirements.

- 4) Check regularly whether safety risks exist.
- 5) Remove the batteries if the thermometer will not be used for more than two months.

Troubleshooting

Problem	Possible Cause	Solution
	Low battery	Change the batteries.
The thermometer fails to power	Polarities of the batteries are reversed.	Make sure that the batteries are installed correctly.
on.	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 lens of the temperature probe is dirty.	Clean the lens using a cotton swab.
The temperature reading is lower than the typical body	The thermometer probe is not aligned to the eardrum.	Reposition the thermometer probe so that it is aligned to the eardrum.
temperature range.	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.
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Specifications

Product Name	Infrared Thermometer	
Product Model	KDT-2106	
Power Supply Mode	Internal power supply	
Operating Voltage	DC 3V	
Battery Model	AAA x 2	
Battery Life	Alkaline dry battery for around 20,000 measurements	
Operating Mode	Continuous operating	
Display	Segment LCD	
Measure time	About 1 second	
Latency Time	About 3 second	
	Forehead mode:35.0°C-42.2°C (95.0°F-108.0°F)	
Measuring Range	Ear mode:32.0°C–42.2°C (89.6°F–108.0°F)	
	Object mode:0.0°C-100.0°C (32.0°F-212.0°F)	
Accuracy	±0.2°C (±0.4°F)	
(Laboratory)	$\pm 0.2 C (\pm 0.4 F)$	
Resolution	0.1°C (0.1°F)	
Memory	20 temperature readings	
Low bottom Alort	The low-battery symbol is displayed if the power	
Low-battery Alert	voltage is lower than 2.5 V±0.1V	
Automatic Power-off	The thermometer automatically powers off if it is not	
Automatic Power-on	used in 10±1 seconds.	
Outer dimensions	157.5×39×36.5mm	
(mm)	137.3×39×30.3IIIII	

Weight (g)	Thermometer (with batteries): 86.9 g	
Omeratine	Temperature: 10°C~ 40°C (50°F–104°F)	
Operating Environment	Humidity: 15%-95% RH, non-condensing	
Environment	Atmospheric pressure: 86–106 kPa	

The infrared thermometer has been tested and conforms to the standard ASTM E1965-98. ASTM laboratory accuracy requirements in the display range of 96.8°F to102.2°F (36°C-39°C) for ear canal IR thermometers is ± 0.4 °F (± 0.2 °C). Note that for mercury-in-glass and an electronic thermometer, the requirement per ASTM Standards E667-86 and E1112-86 is ± 0.2 °F (± 0.1 °C).

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:IPX0
- Safety degree of using in flammable anesthetic gas blending with air, oxygen or nitrous oxide: Non-AP/APG
- No application parts of the thermometer prevents defibrillation charge effect.
- No application parts of the thermometer output signal.
- The thermometer is impermanent installed device.

Storage and Transportation

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

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°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



• The Infrared Thermometer KDT-2106 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 KDT-2106.

• The Infrared Thermometer KDT-2106 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 The	ermometer KDT-2	106 is intended for use in the electromagnetic
environment specified below. The customer or the user of the Infrared		
Thermometer KDT-2106 should assure that it is used in such an environment.		
Emissions	Compliance	Electromagnetic environment - guidance

Emissions	Compliance	Electromagnetic environment - guidance
test		

RF emissions CISPR 11	Group 1	The Infrared Thermometer KDT-2106 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 KDT-2106 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 KDT-2106 is intended for use in the electromagnetic environment specified below. The customer or the user of the Infrared Thermometer KDT-2106 should assure that it is used in such an environment.

Immunity test	IEC	Compliance	Electromagnetic
	60601	level	environment- guidance
	test level		
Electrostatic	±6kV	±6 kV contact	Floors should be wood,
discharge	contact		concrete or ceramic tile. If
(ESD)		±8 kV air	floors are covered with

IEC 61000-4-2	±8 kV air		synthetic material, the
			relative humidity should be
			at least 30 %.
Power			Power frequency magnetic
frequency			fields should be at levels
(50/60 Hz)	3 A/m	3 A/m	characteristic of a typical
magnetic	5 A/III	5 A/III	location in a typical
field			commercial or hospital
IEC 61000-4-8			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 KDT-2106 is intended for use in the electromagnetic environment specified below. The customer or the user of the Infrared Thermometer KDT-2106 should assure that it is used in such an environment.

Immunity test	IEC	Compliance	Electromagnetic
	60601	level	environment -guidance
	test level		
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	Portable and mobile RF communications equipment should be used no closer to any part of the JPDFR408,including cables, than the recommended separation distance

calculated from the equation
· ·
applicable to the frequency
of the transmitter.
Recommended separation
distance
$d = [\frac{3.5}{E_1}]\sqrt{P}$ 80 MHz to 800 MHz
$d = [\frac{7}{E_1}]\sqrt{P}$ 800 MHz to 2.5 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). ^b
Field strengths from fixed
RF transmitters, as
determined by an
Electromagnetic site survey,a
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:

|--|--|

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 KDT-2106 is used exceeds the applicable RF compliance level above, the KDT-2106 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the KDT-2106. 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 KDT-2106 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Infrared Thermometer KDT-2106 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the

Infrared The	Infrared Thermometer KDT-2106 as recommended below, according to the				
maximum output power of the communications equipment.					
Rated	Separation distance according to frequency of transmitter				
maximum	m				
output	80 MHz to 800 MHz	800 MHz to 2,5 GHz			
power	, , , 3.5, (=	, , 7, , , , , , , , , , , , , , , , ,			
of	$d = \left[\frac{3.5}{E_1}\right]\sqrt{P}$	$d = \left[\frac{7}{F_1}\right]\sqrt{P}$			
transmitter					
W					
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.

Warranty and After-Sale Service

The device is under warranty for one year from the date of purchase.

The batteries, the packaging, and any damage caused by improper use are not covered by the warranty.

Excluding the following user-caused failures:

- 1.Failure resulting from unauthorized disassembly and modification.
- 2.Failure resulting from an unexpected dropping during application or transportation.
- 3.Failure resulting from not following the instructions in the user's manual.

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