

Table of Contents

1.Summary of Infrared Thermometer..... 2
 2.Safety precautions..... 2-3
 3.Intended use..... 3
 4.Temperature measurement mode/range description..... 3
 5.Features 3-4
 6.Overall description..... 4
 7.Operation Instruction..... 4-6
 8.Care and cleaning..... 6
 9.Maintenance..... 7
 10.Storage..... 7
 11.Accessories..... 7
 12.Trouble-shooting..... 7
 13.Specifications..... 8
 14.Standard list..... 8
 15.Disposal..... 8
 16.Normalized symbols..... 9
 17.EMC DECLARATION..... 9-11
 18.Guarantee.....11-12



this manual before use!

Thermometer

Infrared Thermometer. The HW-F1 Infrared Thermometer measures body temperature based on the pure and measurable infrared radiation. It reads the surface to be measured to obtain

Read this user manual carefully and pay attention to the following cautions.

Body temperature emits certain percentage of radiation on its temperature. The amount of the radiation of the wavelength have very closely human forehead temperature is between 9-13um of infrared radiation. So according to the infrared radiation and forehead temperature, we can measure the human forehead temperature.

Intended as a substitute for consultation and diagnosis, it is not intended for use as a substitute for consultation and diagnosis. It is intended as a substitute for consultation and diagnosis for users to perform a measurement based on the measuring instruction.

If used on children, please consult the doctor to avoid the accidental swallow of battery or other

- Don't throw the battery into fire.

Notice:

- The device is precision instrument, don't drop, tramp or impose any vibration or impact on the thermometer.
- Do not touch the lens of the probe with your fingers and disassemble the device by yourself.
- Please make sure your forehead is clean before measuring forehead temperature.
- Please stay still indoors about 30 minutes after exercise, eating or bathing before measuring.
- Please place the thermometer indoors for about 30 minutes if ambient temperature varies a lot before using.
- Please collect the record of Individual temperature under the good condition of body in usual days as a reference for checking fever or not.
- Do not measure the sites of scarred tissue or tissue compromised by skin disorders because they will affect the accuracy of measurement.
- Do not measure if patient is treated with certain drug therapies because body temperature may rise in the drug within the effort time limit.
- Do not immerse the device into water or any other liquid, do not expose to the sun.
- Do not use a mobile or cordless phone near the thermometer when measuring. Do not use the thermometer near a mobile or cordless phone.
- Please don't measure body temperature in strong electromagnetic interference environment (such as microwave, high frequency equipment operation environment) to ensure the accuracy of measurement data.
- This thermometer only a personal device, please do not share with others.
- Please store the thermometer according to the technical specifications.
- The materials (ABS) of contact with patient has passed the ISO 10993-5 and ISO 10993-10 standard test, no toxicity, allergy and irritation reaction. They are compliant with the MDD requirements based on the current science and technology, and other potential allergic reactions are unknown.

- The patient can measure, read data and replace battery under normal circumstances and maintain the device and its accessories according to the user manual.

- The PATIENT is an intended OPERATOR.

Recommendations:

- Don't use this thermometer for other purposes.
- It is forbidden to leave the product exposed to any chemical solvent, direct sunshine or high temperature in case of damaging the product or the battery.
- Do not measure while talking on the phone.
- Please report to MANUFACTURER if any unexpected operation or events occur.

3. Intended use

This thermometer is intended for measuring forehead temperature with non-contact at home or hospital, including anyone, such as infants, children and adults.

For safety reason, children or baby's temperature must be measured by parent or adults.

4. Temperature measurement mode and range description

The infrared thermometer has following measurement mode:

- 1) Forehead temperature measurement mode – measure the skin surface of human forehead temperature.
- 2) Object temperature measurement mode – you can measure the surface temperature of object, such as bathwater or milk temperature etc.

Normal temperature range for different measuring position

Measuring position	Normal temperature (°C)	Normal temperature (°F)
Anus	36.6-38.0	97.9-100.4
Oral	35.5-37.5	95.9-99.5
Armpit	34.7-37.3	94.5-99.1
Forehead	35.8-38.0	96.4-100.4

Normal forehead temperature range for different ages

Ages	Normal temperature (°C)	Normal temperature (°F)
0-2 years old	36.4-38.0	97.5-100.4
3-10 years old	36.1-37.8	97.0-100.0
11-65 years old	35.9-37.6	96.6-99.7
>65 years old	35.8-37.5	96.4-99.5

NOTE: The normal temperature in different body parts is individual. To define yours, measure your temperature for at least 2 weeks at the same forehead position and same time during a day.

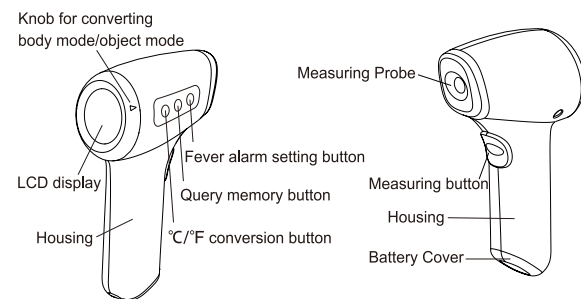
NOTE: When consulting your physician, please tell your physician that the temperature is a temperature measured which position and note the individual's normal temperature range as additional reference.

5. Feature

- It can test both forehead temperature and object temperature.
- It adopts high-precision infrared sensor and has a reliable performance.
- High temperature vibration prompt (the value can be set in advance).
- It can save 10 testing figures automatically.
- Large LCD display with white Back lit.
- Large measuring range, it can be used to test object at 0~93°C under the object temp mode.
- Vibration prompt function after temperature measurement.
- Switch measurement mode by rotating the display frame.

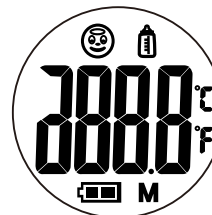
6. Overall description

6.1 Main component including



Key	Function description
C/F	Unit conversion between °C and °F
M	Enter memory query mode, press this button continuously to query the previous ten memories of temperature values tested.
SET	Fever alarm value setting button, you can press this button to set the desired fever alarm threshold (37.5 °C ~ 38.5 °C is the optional range)

6.2 LCD display description



Sign	Description
	Indicate battery power. When the little black block inside flashing, the battery level is low.
	Body temp testing mode: The sign displayed is body temp mode.
	Object temp testing mode: The sign displayed is object temp mode.
	Temp unit: degree centigrade.
	Temp unit: degree Fahrenheit.
	To track previous measurement readings.

7. Operation Instruction

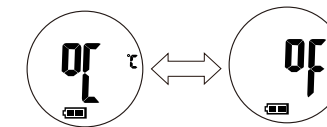
7.1 Preparation

- 1) **Check battery**
Replace the batteries to ensure power supply if the thermometer's LCD display low voltage icon.
- 2) **Check sensor**
If the sensor have pollution and spray, please clean it. (The cleaning method see the chapter 8 Care and Cleaning for detailed.)
If the sensor lens is damaged, please stop using.
- 3) Please put the thermometer into the measurement environment (15°C~40°C) for 30 minutes to gain more accurate measuring result.
- 4) Unexpected fluctuations in ambient temperature may decrease the measurement results. For example, test temperature in front of a air conditioner.
- 5) If you want to measure forehead temperature, please make sure the forehead is clean to ensure the accuracy of measurement.

7.2 Instruction for use

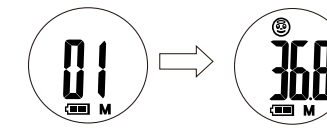
7.2.1 °C or °F unit setup

When thermometer is on, press "C/F" button to convert °C or °F unit. After selecting the unit, press the measurement button or wait until the device automatically shuts down. The unit is shown below:



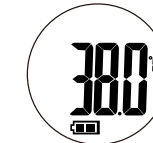
7.2.2 Query memory mode

When thermometer is on, press "M" button to track at most 10 measurement readings you measured. Press the measurement button to exit the mode or wait until the device automatically shuts down.



7.2.3 Alerting threshold setup

When thermometer is on, press "SET" button to set alerting threshold. The default of thermometer is 38.0°C, pls refer to the below picture. It can also be set according to the temperature you need to alarm. The range of the fever alarm temperature can be set from 37.5°C to 38.5°C. After the setup is complete, Press the measurement button to exit the mode or wait until the device automatically shuts down.



-- Prompt for over measuring range

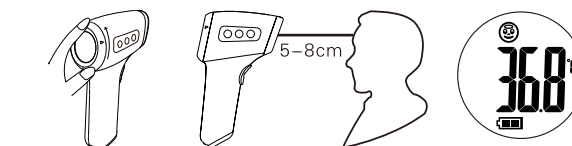
- Under Body temp mode:
"Lo" will be showed if the testing result is lower than 34.0°C.
"Hi" will be showed if the testing result is higher than 43.0°C.
- Under Object temp mode:
"Lo" will be showed if the testing result is lower than 0°C.
"Hi" will be showed if the testing result is higher than 93°C.

Attention:

When ambient temperature is lower than 15.0°C or higher than 40.0°C, LCD display test result will display "Err".

7.2.4 Forehead temperature measurement

- a. Install batteries
- b. For first use or when inserting new batteries, Please put the thermometer into the measurement environment (15°C~40°C) for 30 minutes to gain more accurate measuring result.
- c. Select body mode by rotating the display frame to the position with "BT" sign, aim towards the forehead, from distance of 5 cm (2in), press the [Measurement] button.
The temperature is displayed immediately with vibrating prompt. Please make sure there is no hair, perspiration, cosmetic or cap covered on the forehead.



If the measurement temperature is 38.0°C or higher (Alarm warning can be setting, please refer to sub-clause 7.2.3 Alerting threshold setup), the thermometer vibrates twice with duration.

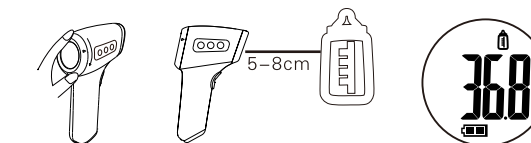
- e. If there is no operation for 30 seconds, The thermometer will shut down automatically and save the temperature value.

TEMPERATURE TAKING HINTS

- Please make sure there is no hair, perspiration, cosmetic or cap covered on the forehead.
- It is normal that temperature is different depending on various skin types and color, since different skin type will reflect different voltage of infrared ray.
- Don't use the thermometer outdoors.
- It recommends test several times at different site on the forehead.
- Deviation exists if measure temperature is not carried out based on effective distance or deviating from central position of the tested object. We recommend test it one more time.

7.2.5 Object temperature measurement

- a. Select object mode by rotating the display frame to the position with "OT" sign, Keep a distance of object from thermometer probe at 5~ 8cm. Press testing key to start.
- b. The testing result will be showed with vibrating prompt, See drawing as below:



TEMPERATURE TAKING HINTS

- Please don't measure the heat-insulated object surface.
- please do not directly measure the hot liquid surface because the hot steam fog can condense in the sensor lens and cause measurement deviation.

7.3 Battery installment and replacement

When battery level is not sufficient, LCD will display . It's the time to replace battery to ensure preciseness of testing.

Operation of changing battery.

Open battery cover first, then take out the exhausted battery and change two new AAA batteries.

Notice:

- Please observe the related national laws of disposing the abandoned battery and don't litter battery to the garbage can.
- Please take out the battery if the device is not used for long periods of time.
- Please don't put the battery into the fire.

To protect environment, dispose of empty battery at your retail store or at appropriate collection sites according to national or local regulations.

8 Care and cleaning

- The probe tip and lens are the most delicate part of the thermometer, please clean and intact to ensure the accuracy of result.
- If thermometer is used, please clean the probe and lens as follows:
Wipe the surface gently with a cotton swab or soft cloth moistened with alcohol until the alcohol completely dried out.
- If the lens is damage, please contact distributor.

Clean the unit body:

- Use a soft, dry cloth to clean the thermometer display and unit body.
- If very dirty, use a soft cloth with alcohol to clean.

NOTES:

- Don't use other non-recommended methods to disinfect.
- Non-waterproof, don't use the abrasive cleaner to clean the product or drop the thermometer into the water or the other liquid.

9 Maintenance

- 1) We do not authorize any institution or individual to maintain and repair the product. If you suspect that the product is problematic, please contact the manufacturer or distributor to handle the case.
- 2) Users mustn't attempt any repairs to the device or any of its accessories. Please contact the retailer for repair.
- 3) Dismantling equipment by unauthorized agencies is not allowed and will terminate any claim to warranty.

Warning: No modification of this equipment is allowed!

10 Storage

- 1) Don't leave the thermometer exposed to or at high risk of direct sunshine, high temperature, dampness, fire, flame, vibration or impact.
- 2) If it is not used for a long time, please take out the battery.

11 Accessories

Quantity	Parts
1pcs	HW-F1 device
2pcs	AAA batteries
1pcs	User Manual

12 Trouble-shooting

Troubles or error message	Checklists or situation	Countermeasures or solution
No response/ Automatically reset	Do the batteries run out?	Replace new batteries.
	Battery in wrong polarity or type? Poor battery contact	Take out batteries and reinsert it correctly.
The thermometer show the symbol "Hi"	Temperature hampered by an air flux. In the forehead measurement mode: --Temperature readings too close together. -- Measured the other object, such as the sunlight, the air from the fireplace. Hi: Higher than 43.0°C;	Pls follow the manual and wait for 30 minutes before taking temperature again.
	In the object measurement mode: Hi: Higher than 93°C;	
The thermometer shows the symbol "Lo"	forehead with hair or cosmetic etc. covered	
	Temperature hampered by an air flux. In the forehead measurement mode: -- The measuring distance is too far. -- Measured the air from the air conditioner. Lo: Lower than 34.0°C	
	In the object measurement mode: -- The measuring distance is too far. -- Water vapor condenses on the lens. Lo: Lower than 0°C	

13 Specifications

7



Device name	Infrared Thermometer
Model	HW-F1
Measurement mode	Object/Body
Power supply	d.c.3V, 2 AAA batteries
Measuring range:	For forehead temperature: 34.0-43.0°C For object surface temperature: 0-93°C
Measuring accuracy: (At laboratory conditions)	for forehead temperature: ± 0.2 during 34.0°C -42.0°C; ± 0.3 during 42.1°C -43.0°C
Clinical repeatability:	Within ±0.3°C
Resolution of display	0.1°C
Operation condition	15-40°C, Relative humidity ≤Rh95%, 70-106KPa
Storage condition	-25-55°C, Relative humidity ≤Rh95%, 70-106KPa
Size	138mm*88mm*53mm
Weight	About 136g
High body temperature hint	≧ 37.5°C (Can be set)
Grade of waterproof	IP22
Electric shock	Internally powered ME equipment
Applied part	Type BF applied part, including the whole unit
Mode of operation	Continuous operation
Device Life:	1 year
Software version	V1.0
Note: Don't sterilize. Not for use in an OXYGEN RICH ENVIRONMENT	

*The above specifications are subject to change without prior notice.

14 Standard list

ISO 15223-1	Symbols for use in the labeling of medical devices
EN 1041	Information supplied by the manufacturer with medical devices
EN 60601-1	Medical electrical equipment Part 1: General requirements for basic safety and essential performance
EN 60601-1-2	Medical electrical equipment -- Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests
EN 60601-1-6	Medical electrical equipment -- Part1-6: General requirements for basic safety and essential performance -- Collateral standard: Usability
EN 60601-1-11	Medical electrical equipment -- Part 1-11: General requirements for basic safety and essential performance -- Collateral standard: Requirements for medical electrical equipment and medical electrical systems used in home healthcare environment
EN 12470-5	Clinical thermometers -- Part 5: Performance of infra-red ear thermometers (with maximum device)
ISO 80601-2-5 6	Medical electrical equipment part 2-5-6: particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement
EN 62304	Medical device software - Software life-cycle processes
EN 62366	Medical devices -- Application of usability engineering to medical devices
EN ISO 10993-1	Biological evaluation of medical devices - Part 1: Evaluation and testing within a risk management process


15 Disposal

-  Dispose of the device in accordance with the regulation applicable at the place of operation.
Dispose of at public collection point in the EU countries – 2012/19/EU WEEE Directive.
-  If you have any queries, please refer to the local authorities responsible for waste disposal.










NOTES:

- Please act according to the native law to proceed to handle the battery and wastes.

8

-  Dispose of empty battery at your retail store or at appropriate collection sites according to national or local regulations to protect environment.
Dispose of at public collection point in the EU countries – 2006/66/EC Directive.

16 Normalized symbols

	Follow operating instructions
	BF type applied part
	Disposal in accordance with Directive 2012/19/EU (WEEE)
	Complies with the European Medical Device Directive (93/42 /EEC and amended Directive 2007/47/EC. Notified Body is SGS.
	Manufacturer information.
	Authorized representative in the European Community.
	IP code of the device: this device's grade of against ingress of solid foreign objects -- ≧ 12.5mm diameter (and the against access to hazardous parts with finger); the grade of waterproof is dripping (15° tilted).
	Batch code
	Date of manufacture

17 EMC DECLARATION

- 1) Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.
- 2) Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this the Infrared Thermometer could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation
- 3) Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the Infrared Thermometer, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result

Guidance and manufacturer's declaration – electromagnetic emission – for all EQUIPMENT AND SYSTEMS

Guidance and manufacturer's declaration – electromagnetic emission		
The infrared thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of infrared thermometer should assure that it is used in such an environment.		
Emissions test	Emissions test	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The Infrared Thermometer uses RF energy only for its internal function. There for, 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 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	N/A	
Voltage fluctuations flicker emissions IEC 61000-3-3	N/A	


Guidance and manufacturer's declaration – electromagnetic immunity – for all EQUIPMENT AND SYSTEMS

Guidance and manufacturer's declaration – electromagnetic emission
The infrared thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of infrared thermometer should assure that it is used in such an environment.

9

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance
Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV contact ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV air	± 8 kV contact ± 2 kV, ± 4 kV, ± 8 kV, ± 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 %.
Electrostatic transient / burst IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	N/A	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV differential mode ± 2 kV common mode	N/A	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0 % UT; 0,5 cycle g) At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0 % UT; 1 cycle and 70 % UT; 25/30 cycles Single phase: at 0° 0 % UT; 250/300 cycle	N/A	Mains power quality should be that of a typical commercial or hospital environment. If the user of the Infrared thermometer requires continued operation during power mains interruptions, it is recommended that the Infrared thermometer be powered from an uninterruptible power supply or a battery.
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 commercial or hospital environment.
NOTE UT is the a. c. mains voltage prior to application of the test level.			

Guidance and manufacturer's declaration – electromagnetic emission – for all EQUIPMENT AND SYSTEMS

Guidance and manufacturer's declaration – electromagnetic immunity			
The infrared thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of infrared thermometer 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 150 kHz to 80 MHz	N/A	Portable and mobile RF communications equipment should be used no closer to any part of the Infrared thermometer, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d = \left[\frac{3.5}{V_1} \right] \sqrt{P}$ $d = \left[\frac{12}{V_2} \right] \sqrt{P}$ $d = \left[\frac{3.5}{E_1} \right] \sqrt{P}$ 80 MHz to 800 MHz $d = \left[\frac{7}{E_1} \right] \sqrt{P}$ 800 MHz 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). ⁵
Radiated RF IEC 61000-4-3	10 V/m 80 MHz to 2.7 GHz	10 V/m 80 MHz to 2.7 GHz	Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, ⁶ should be less than the compliance level in each frequency range. ⁵ Interference may occur in the vicinity of equipment marked with the following symbol: 

10

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.

- The ISM (industrial, scientific and medical) bands between 150 kHz and 80 MHz are 6,765 MHz to 6,795 MHz; 13,553 MHz to 13,567 MHz; 26,957 MHz to 27,283 MHz; and 40,66 MHz to 40,70 MHz. The amateur radio bands between 0,15 MHz and 80 MHz are 1,8 MHz to 2,0 MHz, 3,5 MHz to 4,0 MHz, 5,3 MHz to 5,4 MHz, 7 MHz to 7,3 MHz, 10,1 MHz to 10,15 MHz, 14 MHz to 14,2 MHz, 18,07 MHz to 18,17 MHz, 21,0 MHz to 21,4 MHz, 24,89 MHz to 24,99 MHz, 28,0 MHz to 29,7 MHz and 50,0 MHz to 54,0 MHz.
- 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 Infrared thermometer is used exceeds the applicable RF compliance level above, the Infrared thermometer should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the Infrared thermometer.
- Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3V/m.

Recommended separation distances between portable and mobile RF communications equipment and the EQUIPMENT or SYSTEM -for EQUIPMENT AND SYSTEMS

Recommended separation distances between portable and mobile RF communications equipment and the Infrared thermometer

The Infrared thermometer is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Infrared thermometer can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Infrared thermometer as recommended below, according to the maximum output power of the communications equipment

Rated maximum output of transmitter W	Separation distance according to frequency of transmitter m			
	150 kHz to 80 MHz outside ISM and amateur radio bands	150 kHz to 80 MHz in ISM and amateur radio bands	180 MHz to 800 MHz	800 MHz to 2.7 GHz
0,01	0,12	0,20	0,035	0,07
0,1	0,38	0,63	0,11	0,22
1	1,2	2,00	0,35	0,70
10	3,8	6,32	1,10	2,21
100	12	20,00	35	70

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.

18 Warranty

We offer you a three year free warranty after the date of purchase. Any damage caused by improper handling shall not be covered. Battery and packaging are also excluded from the warranty. All other damage claims excluded. A warranty claim must be submitted with the purchase receipt. Please pack your defective instrument well and send with sufficient postage to the distributor.

11

Warranty Card

Dear customer, thanks for purchasing our products.
Please fill in this card for further service.

For customer		
Name:		Tel:
Address:		
Product:	Infrared Thermometer	Model:
Purchasing date:		
S/N:		
Repair record:	Date	Remarks

Remarks:

1. It's entitled three years limited warranty from purchasing date.
- Accessory if any is excluded from guarantee.
2. Damages caused by dismantlement by users or daily use will be not covered by warranty.
3. You need to pay for replaced components and labor cost if the product doesn't work when it is beyond warranty period.
4. Please contact us in case of malfunction of this product.

For distributor		
Name:		Tel:
Address:		
Product:	Infrared Thermometer	Model:
Purchasing date:		
S/N:		
Repair record:	Date	Remarks

V



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MADE IN CHINA

12