

DREAME

Product User Manual

IPL Home Use Hair Removal Device

Model: D-1186

Please read through the User Manual before using and pay special attention to all safety precautions as well as following them strictly.

Contents

en	1-16
pl-PL	17-32
nb-NO	33-48
vi-VN	49-64
th-TH	65-80
tr-TR	81-96
id-ID	97-112
sv-SE	113-128

1 Matters Need Attention

Please first read these matters carefully and then follow the user manual to operate.

These matters are to ensure the operation of product is correct and safe, to prevent users or other people from personal injuries or property damage, and please make sure to follow them.

For more information or personal advice, consult your local supplier. Also, if you still have doubts about the product, please consult your dermatologist or your general practitioner.

1.1 Contraindications

- Not for individuals under the age of 18.
- Not for pregnant or breastfeeding women, or women during menstrual period.
- Not for individuals who have tattoos or permanent scar.
- Not for individuals who have large-scale areas of dark spots on the skin, such as ephelides, birthmark, nevus or wart.
- Not for individuals with eczema, open skin sores or open skin wounds.
- Not for individuals with congenital skin diseases.
- Not for individuals who have been treated, or currently receiving treatment, with Alpha-hydroxy Acids (AHAs), Beta-hydroxy Acids (BAAs), Retin-A, tartaric acid, salicylic acid type of azelaic acid.
- Not for individuals with diabetes.
- Not for individuals who are taking isotretinoin.
- Not for individuals who have been treated with steroids within the past 3 months.
- Not for individuals who have a history of epilepsy.

1.2 Warnings

- Eyes: light pulses are only active when the treatment window is in full contact with the skin. Nevertheless, do not look at the treatment window when you are using the device. This may cause damage to the eyes.
- "Eyes: DO NOT USE THIS DEVICE ON OR NEAR THE EYES. DO NOT USE THIS DEVICE TO REMOVE EYELASHES OR EYEBROWS. DOING THIS COULD RESULT IN PERMANENT EYE INJURY."
- Eyes: WE RECOMMEND you look away from the device when flashing onto your skin. Or we recommend that you wear protective glasses every time you use them, and this device is usually available over-the-counter as well as it under the classification of 'Personnel protective shield per 21CFR 892.6500, procode: IWS'; the selection criteria of goggles are as follows: #1) they can effectively protect the wavelength of $\geq 5\ 10\text{nm}$ intense light (F-classification goggles); #2) and their light transmittance shall not exceed $\pm 10\%$; #3) purchase the goggles from the licensed manufacturers.
- Hair removal by lasers or intense pulse light sources can cause increased hair growth in some individuals. Based upon currently available data, the highest risk groups for this response are females of Mediterranean, Middle Eastern, and South Asian heritage treated on the face and neck. This group should be careful.
- Please keep the device far away from the children.
- Do not treat on tattoos or permanent makeup, dark brown or black spots (such as large freckles, nevus, or warts), nipples, genitals, and around the anus.
- Avoid direct sunlight on the skin before use.
- Stop using immediately if symptoms such as burns and blisters appear.
- IF THE DEVICE FALLS INTO WATER, DO NOT TOUCH IT WITH YOUR HANDS. UNPLUG THE ADAPTOR IMMEDIATELY. DO NOT USE THE DEVICE IN THE BATHROOM, NEAR SINKS, IN BATHTUB, OR IN A SHOWER AREA.
- Keep your device away from water or liquids! Do not use near bathtubs, showers, basins or other vessels containing water.
- Please do not use if the device or its accessory (such as power cord, adaptor) is

damaged. And keep the power cord away from heated surfaces.

- Please do not use components other than those equipped by Beauty Every Moment.
- Except for personnel authorized by Beauty Every Moment, no other party should attempt to disassemble the device.

1.3 Pre-cautions

- Shave and clean the expected skin area before use.
- Do not treat the same skin area more than once per hair removal session.
- Never use flammable liquids such as alcohol (including perfumes, sanitizers, or other applications containing alcohol) or acetone to clean the skin before use.
- The surface of the treatment window will remain residual temperature after each treatment, please do not clean the window directly at this time to avoid affecting the performance of the product. You should wait for the window temperature to cool down, and then clean it as required.
- When the product is in continuous operation, the temperature of the applied part (treatment window) will rise, but no more than 43 degree Celsius. The operator can control the temperature by limiting the contact time, which is recommended to be 30 minutes per session and waited 15 minutes for the device to cool down before continuing to use.
- The device shall not be serviced or maintained while in use with a PATIENT. The PATIENT is an intended OPERATOR.
- This device is for single-patient use only.
- The customers will experience slight warm feeling during each treatment, which belongs to a normal situation; and it will disappear within 24h normally. If it would not disappear within 24h, please stop using this product and consult customer service or your doctor.

1.4 Risks of Using the device

Side effects and complications associated with the use of IPL Home Use Hair Removal Device are uncommon. However, every cosmetic procedure, including those designed for home use, involves some degree of risk. Therefore, it is important that you understand and accept the risks and complications that may occur with intense pulsed light hair removal systems designed for home use.

If any of the following conditions appear and last more than 24hours, you should consult your physician:

Adverse effect	Likelihood of adverse effect
Minor skin discomfort	Minor
Skin redness	Minor
Skin sensitivity	Minor
Skin wounds and burns	Rare
Scarring	Rare
Pigment changes	Rare
Excessive swelling	Rare

Adverse effect	Likelihood of
Infection	adverse effect
Bruising	Negligible

1.5 EMC Statements

- IPL Home Use Hair Removal Device conforms to EMC requirements.
- User shall install and use in accordance with EMC information described in attached materials.
- The portable and mobile RF communication equipment may affect the performance of the device, so please avoid strong electromagnetic interference when using, such as do not use it near phone, microwave and so on.
- Manual and manufacturer's statement details are in the end of the article (Annex I).

2 Introduction

Intended Use:

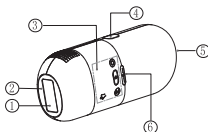
IPL Home Use Hair Removal Device is an over-the-counter device intended for removal of unwanted body and/or facial hair.

2.1 Packing List

- IPL host ×1
- AC adapter ×1
- AC Power Cord ×1
- User Manual ×1
- Razor ×1
- Protective glasses ×1

2.2 Product Components Diagram

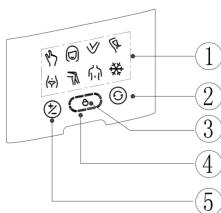
Diagram of IPL host



- ① Treatment window panel
- ② Skin sensor
- ③ Display screen
- ④ Flash Button
- ⑤ DC socket
- ⑥ Power button/Lock screen button/Standby Light/Preparation Indicator Light

Note: The lamp cartridge is non-removable component and mainly consists of a treatment window panel and skin sensor, and the skin sensor is used to identify whether it is in proper contact with your skin.

Diagram of screen



- 1 Mode icons
- 2 Mode button/ Auto flash icon
- 3 Lock screen icon
- 4 Treatment level
- 5 Level Button

NOTES:

- 1) There are five icons, two touch-buttons, and it will light up Armpit-area icon, Mode button icon, level button and treatment level after the device is powering on.
- 2) There are eight work mode icons (Finger, Face, Arm, Armpit, Bikini, Leg, Upper body, and Ice Cooling icon) in the selection on the indicator strip, representing the frequently-used body areas represent that the user is advised to switch to this icon before using the product when applying the product to these body areas. You can switch the body-area icons in order (Finger-area icon → Face-area icon → Arm-area icon → Armpit-area icon → Bikini-area icon → Leg-area icon → Upper body-area icon → Ice Cooling icon) by Short press the mode button. For example, if you need to remove the unwanted body hair from your bikini, it is recommended that you switch to bikini-area icon by Short press the mode button first.
- 3) The following are the icons of the parts corresponding to the indicator strip in order:



- 1 Finger-area icon
- 2 Face-area icon
- 3 Arm-area icon
- 4 Armpit -area icon

- 5 Bikini -area icon
- 6 Leg-area icon
- 7 Upper body -area icon
- 8 Ice Cooling icon

4) When you hold down the flash button (press down continuously), the device will switch to automatic lighting mode(GLIDE method) and the Auto flash icon will blink on the screen.

2.3 Technical Specifications

Basic Specifications	
Product Name	IPL Home Use Hair Removal Device
Model	D-1186
Dimension	175*64*39mm
Weight	295g
Type of Protection	BF Type, Class II
Level of Protection	IPX0
Applied Parts	The treatment window of lamp cartridge
Output Specifications	
Type of Light	Intense Pulsed Light (IPL)
Light Wavelength	550 ~ 1100nm
Pulse Duration	5~12ms +/-20%
Spot Size of the treatment window	3.0cm ²
Treatment Level	Level 1 to 8
Energy Density	2.0~4.3J/cm ² +/-20%
Power Specifications	
Power Supply	Supplied by external power adapter Input: 100-240V 50/60Hz 1.5A Max Output: DC24V 2.5A
Usage Specifications	
Expected service life	510,000 shot counters
Operation Environment	Temperature:15~35°C Humidity: 30%~75%RH Barometric Pressure: 86~106kPa
Storage Environment	Temperature:0~40°C Humidity: 25%~75%RH Barometric Pressure:86~106kPa

3 How It Works

3.1 How Does IPL Work

IPL Home Use Hair Removal Device is a Pulsed Light system which emits intense pulsed light (IPL) at a wavelength ranging from 550~1100nm. The device works on the principles of selective photothermolysis. That is, thermal damage is caused to target chromophores by using light of appropriate wavelength in pulses that

exceeds the chromophores' thermal relaxation time but sparing normal skin by limiting the pulse width below the thermal relaxation time for skin.

3.2 Treatment Schedule

For optimal results, IPL Home Use Hair Removal Device should be used once a week for 12 weeks to ensure all hair follicles are treated.

After the initial treatment phase (12 weekly treatments), to maintain results we recommend the Device is used once a month, or as required.

4 How To Use

4.1 Application Ranges

Recommended treatment area

The device is suitable for removal of unwanted body hair such as but not limited to small areas such as Armpit and facial hair below the chin line and large areas such as legs.

USE ON ACCEPTABLE SKIN TYPES

USE ON ACCEPTABLE SKIN TYPES and this device are to only be used on Fitzpatrick Skin Types I-V.

BEFORE USING THE DEVICE, choose your skin tone on the basis of Fitzpatrick Phototyping Scale, which was developed by Harvard Medical School dermatologist, Thomas Fitzpatrick, M.D., PhD, to classify a person's complexion and their tolerance of sunlight. There are six levels of skin tone in the scale.

Please IDENTIFY your skin tone and check the following diagram to see whether the product is applicable:

Safety grade	Applicable	Applicable	Applicable	Applicable	Applicable, but Caution	Not Applicable
Skin type / color	Type I Pale white skin	Type II White skin	Type III Cream white skin	Type IV Moderate brown skin	Type V Dark brown skin	Type VI Deeply pigmented dark brown to darkest brown, black skin
Example						

NOTES:

- Choose the comfortable level according to your skin tolerance and increase level from one to five levels gradually. If the level is unsuitable or there is reaction, you could increase level gradually.
- The colour of your skin may change, for example because your skin has been tanned: it may then be darker than the skin tone during the previous treatment. Therefore, it is important that you check the settings to be used before each treatment, and set the settings according to different treatment areas. Some areas may be darker than others.

4.2 Patch Test

Before actual treatment, please refer to the USE ON ACCEPTABLE SKIN TYPES Table (Section 4.1). Conduct a skin test on a small area 24 hours in advance to check whether there will be any adverse reaction on the skin.

HOW TO TEST

- Choose a small area on the arm. Conduct the skin test slowly from a low to high energy level according to skin tolerance (1~2 shots). If there are any signs of swelling, burn mark, change in hair follicle, pain, or other unsuitable symptoms, please do not use this device until a thorough consultation with a physician.
- If there is no skin abnormality after 24 hours, but you feel intense hotness during the treatment, then the last lower level is the most proper energy for your skin.

4.3 Operating Steps

Preparing yourself:

- 1) On the basis of Fitzpatrick Phototyping Scale, identify whether your skin tone is suitable; the details please refer to "USE ON ACCEPTABLE SKIN TYPES" section in the USER MANUAL.
- 2) Prior to use, make sure your skin is in good condition without any injury and wound; as well as your skin is shaved, clean and dry (free of any residue such as powders, creams, makeup, antiperspirants, or deodorants);

Device set-up:

- 1) Remove IPL Home Use Hair Removal Device and its accessories from the gift box;
- 2) Make sure the device is clean, dry and intact before beginning the treatment: The treatment window needs to be cleaned before and after each use in order to reduce risk of infection and prevent hairs and/or dust from appearing on the treatment window. Use the following steps to clean the treatment window:
Step 1. Use a clean swab or clean cotton pad with 70% isopropyl alcohol to clean the treatment window. Allow 1 ~ 5 minutes of contact time.
Step 2. Allow the device to dry. CAUTION: DO NOT USE THE DEVICE UNTIL THE ALCOHOL HAS COMPLETELY EVAPORATED.
Step 3. Visually inspect the device. If visible contaminants remain, repeat the Steps 1~3.
- 3) Connect the AC power cord to the AC adapter, Plug AC plug end into an electrical outlet and the cord into the device DC socket (as illustrated in Fig.1), the indicator light of the device will be solid white.

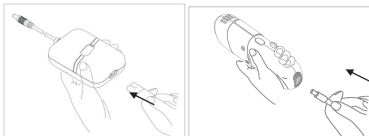


Fig. 1

IPL Home Use Hair Removal Device is in standby status and now ready to be used.

NOTE(s):

- Place the IPL Home Use Hair Removal Device on a table or area near an electrical wall outlet. Move away any liquids from the area.

- 4) Press the Power button over 2 seconds to turn on the device (as illustrated in Fig.2), the fan will be active and you can hear its sounds; the indicator light is still solid white, the cold compress function is enabled by default, and the screen will be lighted on and light up these relevant symbols: treatment levels and Armpit-area icon, Mode button and level button (as illustrated in Fig.3).

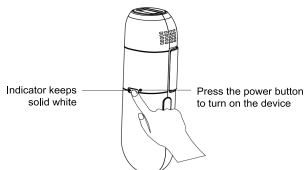


Fig. 2

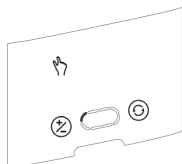


Fig. 3



Note: the cold compress function has no other medical therapeutic effect and just for cooling down the skin temperature to give user a better experience.

- 5) Short press the Level button to adjust treatment level (Level 1 is the lowest, Level 8 is the highest, as illustrated in Fig.3), please choose the suitable level which your skin can bear.
- 6) Place the treatment window flat against the expected body area with full contact to the skin (as illustrated in Fig.4), the indicator light green—it means the device is ready to go and you can press the flash button to hair removal.

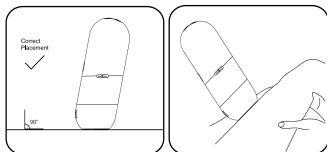


Fig. 4

- 7) Press the Flash button ^{NOTE 1}. The device will flash and a warm sensation should be felt.
- 8) Move the Device to the next area to be treated and repeat.
- 9) After the product flashes several times, it will automatically display the lock screen icon. At this time, the Level Button and mode Button cannot be operated. You need to short press the power button to unlock the device.
- 10) After finishing the treatment, press the Power button over 2 seconds to turn off the device — it means the device will re-enter standby status, the screen will light off and the indicator will keep solid white. After removing the adapter from the host, the device is powered off and not lighted on.

NOTE(s):

- Within 5 minutes without any operation, the device will also re-enter standby status.

- 11) Use a clean cloth or cotton swab to clean the device, and then put the device and its accessories into the gift box and store it in safe place.

NOTE(s):

NOTE 1. Treatment method: STAMP or GLIDE

- There are two recommended methods for treatment: "STAMP" or "GLIDE".
- For whichever method you choose the Device must be moved between flashes to ensure the same area is not treated twice.
- STAMP method (manual lighting mode): This method is manual and recommended for small areas such as the Armpit, bikini line and face. Place the Device on the skin, press and release the Flash button. Remove the Device from the skin before carefully re-applying it to the next treatment area.
- GLIDE method (automatic lighting mode): This method is automatic and recommended for larger areas such as legs. Place the Device on the skin, touch the Auto flash button on the screen or hold down the Flash button (press down continuously) to enter automatic lighting mode and the Auto flash button will flash on the screen, then glide the Device along the skin between flashes. Try to move the Device at a steady speed that gives full coverage without overlap or missed areas. If you need to exit this mode, please short press the Flash button again or touch the Auto flash button again to exit.

NOTE 2. Fault (error) reminder function during operation

Error reminders that may be encountered when the device is running include the following:

Symbol displayed	Problem described	Solution
Four lights for Finger-area, Face-area, Arm-area and	Because the device may be in the following conditions: 1) The product lasts running under the circumstance of high ambient	1) Only need to change the low temperature environment to stand for half an hour, this symbol shows the normal half grid can be

Symbol displayed	Problem described	Solution
Underarm-area icon are flashing quickly at the same time	temperature; 2) The air inlet or outlet was blocked; 3) Rule out the above two possibilities is the product is broken.	used normally; 2) Please remove the foreign body and return to normal after a few minutes; 3) It needs to be sent back for repair. Please contact the customer service.
Two lights for Finger-area and Face-area icon are flashing quickly at the same time	When the fan or the circuit related to fan is damaged, ERROR2 will be displayed.	It needs to be sent back for repair. Please contact the customer service.
Three lights for Finger-area, Face-area and Arm-area icon are flashing quickly at the same time	When the main capacitor or the circuit related to the main capacitor is damaged, ERROR3 will be displayed.	It needs to be sent back for repair. Please contact the customer service.

4.4 Replacement

Service life of the Device

The lifetime of IPL Home Use Hair Removal Device is mainly depended on the lifetime of the lamp tube inside the IPL host, which the lamp tube can be valid emitted for 510,000 times (shot counter). When all the lights and displays are flashing together, it means device has been reached the maximum usage counter and the device is no longer available --then you can replace a new IPL Home Use Hair Removal Device according your needs and purchase it from your local provider or manufacturer.

5 Maintenance

Cleaning

- Make sure to turn off and unplug IPL host before cleaning.
- It is recommended to clean the treatment window before and after every session by using alcohol cotton pad or swab. (Specific instructions can be seen in Device set-up section in Section 4.3 of this article)
- Keep IPL Home Use Hair Removal Device dry. Never submerge the device or any of its parts in water as it may lead to an electrocution risk.

Storage

- To avoid breakage or missing device and its accessories, please store IPL Home Use Hair Removal Device and its accessories in the gift box after each use.
- Clean the device before you store it.
- Store the device in a cool and dry place, away from sunlight. Do not store in wet or humid environment, otherwise it may affect the product function.

6 Disposal (End of Life)



DO NOT throw away the IPL Home Use Hair Removal Device with normal household waste at the end of its life, but hand it in to an official collection point for recycling (Contact your local town or city officials for recycling information). By doing this, you help to preserve the environment.

7 Frequently Asked Questions (FAQs)

If you experience any problems with IPL Home Use Hair Removal Device, please refer to the information below to try to resolve it:

Problem	Solution
If IPL Home Use Hair Removal Device does not turn on:	Make sure that the power supply is plugged properly into the device and the electrical outlet.
If IPL Home Use Hair Removal Device does not trigger a pulse:	1. Verify there is full contact with the skin. The Flash button will activate a flash pulse only when the device is in full contact with the skin. 2. In the case of a safety issue or when the lamp tube reached its end, the device will not trigger a pulse.
If you feel heat and hurt during the use of IPL Home Use Hair Removal Device:	1. Shave and clean the hair in the expected treatment area before use. 2. Choose one comfortable treatment level for yourself. 3. DO NOT repeatedly treat the same area at the same time.

8 Warranty Contents

8.1 Disclaimer

Shenzhen Beauty Every Moment intelligent electric Co.,Ltd. reserves that the final explanation of IPL Home Use Hair Removal Device, any third party applies device related information without Beauty Every Moment's authorization are not allowed, and we will take legal action. In any case, Shenzhen Beauty Every Moment intelligent electric Co.,Ltd. is not responsible for any consequences caused by improper use of consumers.

8.2 Warranty

1) Warranty Period

The warranty period of the product is 1 years from the date of purchase.

2) Warranty Scope

- If there is any quality problems occur on the product within the warranty period, the Beauty Every Moment will provide free maintenance or replacement of the device for you. Other faults resulted from abnormal use and force majeure is not within the warranty scope.
- The Luminescent tubes inside the treatment window have a lifetime limit, and exceeding that limit will not be covered by the warranty.

3) Warranty Limits

- When applying for free maintenance for the product that is on the warranty card, customers should present the valid invoice. The warranty period for Beauty Every Moment products starts from the date of purchase which is shown in the invoice. If there is no purchase date, the warranty period starts from the date of manufacture.

Beauty Every Moment is not responsible for the following situations and will not provide warranty service in case of the following situations:

- Faults and damage resulted from fire, earthquake, the behavior of a third party, fault or misuse caused by users, usage under other abnormal conditions and unpredictable events.
- The accompanying damage caused by the usage of the products (such as loss of business benefit, interruption of business including the loss results from the usage of device and the cost results from the replacement of equipment, device or service, or the claim required by users).
- Damage resulted from the operation which is not in the user manual.
- Service or components required to solve the problem caused by using accessories, parts or substitutes other than those supplied by our company; service required to solve the problem caused by receiving unauthorized repair or service; misuse, abuse, operation and maintenance not conform to the instructions, or unauthorized disassembly of the device.
- Faults or damage resulted from improper working environment, including overload.
- Improper storage by users (such as damages caused by rats and liquid infiltration).

4) Warranty Card

Name: _____ (Sir/Miss)

Contact number: _____

Address: _____

Purchasing Date: _____

Product serial number: _____

Product model: _____

Purchasing Shop: _____

Shop contact number: _____

After-sales service hotline: _____

8.3 Support

Dear Customers:

In order to provide you with more convenient services, when you buy IPL Home Use Hair Removal Device, please consult us according to the contact information below if you have problems.

Customer Service:

- Hot-line: +86755 3388 3239
- E-mail: yf6@szmeishimeike.com
- Mailing address: Rm.101,201,501,Bldg.4,Haoer Jiashitai Technology Park, Fengtang Avenue No.164, Zhancheng Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China 518100

9 Symbols

Graphic Symbol	Meaning
S/N	Serial number: Each S/N could be described by a thirteen digital code, The first digit is M, the second to ninth digits (manufacturing date (yymmdd)) form a complete batch number, and the last four digits (xxxx) is production serial number.
	Manufacturer
	Class II equipment
	Type BF applied part
	Warnings or Cautions
	WEEE (Waste Electrical and Electronic Equipment) mark
	Follow the operating instructions.
	Keep dry.

10 Annex1. Manufacturer's EMC Statement

- Proper light energy output is defined as ESSENTIAL PERFORMANCE of this device by the manufacturer. If the device is placed firmly on the skin, and then the device does not flash or a warm sensation is not felt after the flash button is pressed, the device has malfunctioned. If this occurs, contact customer service.
- ⚠ Warnings: IPL Home Use Hair Removal Device is applicable for use in all establishments (included home healthcare environment) expect for near active HF surgical equipment and the RF shielded room of an ME system for magnetic resonance imaging, where the intensity of MEM disturbances is high.
- ⚠ Warnings: The use of IPL Home Use Hair Removal Device 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.
- ⚠ Warnings: The use of accessories , transducers and cables other than those specified, with the exception of the accessories, transducers and cables provided by the manufacturer of the IPL Home Use Hair Removal Device as replacement parts for internal components, may affect compliance of the ME equipment or ME system with the requirements of Clause 7 (EMISSIONS) and Clause 8 (IMMUNITY).
- ⚠ Warnings: The use of accessories, transducers and cables other than those specified or provided by the manufacturer of IPL Home Use Hair Removal Device could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.
- ⚠ Warnings: 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 IPL Hair Removal Device, including cables specified by the manufacturer. Otherwise , degradation of the performance of this equipment could result.
- Guidance and manufacturer' s declaration

TABLE 1 Guidance and manufacturer's declaration -electromagnetic emissions

Guidance and manufacturer's declaration -electromagnetic emissions HOME HEALTHCARE ENVIRONMENT	
Emissions test	Compliance
RF emissions CISPR 11	Group 1
RF emissions CISPR 11	Class B
Harmonic emissions IEC 61000-3-2	Class A
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complied

TABLE 2 Guidance and manufacturer's declaration - electromagnetic immunity

Guidance and manufacturer's declaration - electromagnetic immunity		
Immunity Test	IEC 60601-1-2 Test level	Compliance level
	HOME HEALTHCARE ENVIRONMENT	
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
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV signal input/output 100 kHz repetition frequency	±2 kV for power supply lines Not Applicable 100 kHz repetition frequency
Surge IEC 61000-4-5	±0.5 kV, ±1 kV line-to-line ±0.5 kV, ±1 kV, ±2 kV line-to-ground	±0.5 kV, ±1 kV line-to-line Not Applicable
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0% UT; 0.5 cycle. 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	0% UT; 0.5 cycle. 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
Power frequency magnetic field IEC 61000-4-8	30A/m 50Hz/60Hz	30A/m 50Hz/60Hz
Conducted RF IEC 61000-4-6	3v 0,15MHz-80MHz	3 v 0,15MHz - 80MHz
Radiated RF IEC 61000-4-3	6V in ISM and amateur radio bands between 0,15MHz and 80MHz 80% AM at 1kHz 10V/m 80MHz - 2,7GHz 80% AM at 1kHz	6V in ISM and amateur radio bands between 0,15MHz and 80MHz 80% AM at 1kHz 10V/m 80MHz - 2,7GHz 80% AM at 1kHz
NOTE U _i is the a.c. mains voltage prior to application of the test level.		

TABLE 3 Guidance and manufacturer's declaration - electromagnetic immunity

Guidance and manufacturer's declaration - electromagnetic immunity							
Radiated RF IEC 61000-4-3 (Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment)	Test Frequency (MHz)	Band (MHz)	Service	Modulation	Modulation (W)	Distance (m)	IMMUNITY TEST LEVEL (V/m)
	358	380 -390	TETRA 400	Pulse modulation 18Hz	1.8	0.3	27
	450	430 - 470	GMRS 460, FRS 460	FM $\pm$ 5kHz deviation 1kHz sine	2	0.3	28
	710	704 - 787	LTE Band 13, 17	Pulse modulation 217Hz	0.2	0.3	9
	745						
	780						
	810	800 - 960	GSM 800/900, TETRA 800, IDEN 820, CDMA 850, LTE Band 5	Pulse modulation 18Hz	2	0.3	28
	870						
	930						
	1720	1 700	GSM 1800; CDMA 1900; GSM 1900; DECT, LTE Band 1,3,4,25; UMTS	Pulse modulation 217Hz	2	0.3	28
	1845	-					
	1970	1 990					
	2450	2 400 - 2 570	Bluetooth, WLAN, 802,11 b/g/n, RFID 2450, LTE	Pulse modulation 217Hz	2	0.3	28
	5240	5 100	Band 7 WLAN 802.11 a/n	Pulse modulation 217Hz	0.2	0.3	9
	5500	-					
	5785	5 800					