



# Intense Pulse Light (IPL) Permanent Hair Removal System

TM  
**EXE**

User Guide



Model: LX-1917



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## 1. Recommendation of Use

Please read the complete instruction manual before you use the LEXI Permanent Hair Removal (Model: LX-1917). It will give you a better understanding of how the product works, and you'll be able to enjoy the best results.

### 1.1 Warnings

1. This device is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, unless they have been given supervision or instruction concerning use of the device by a person responsible for their safety.
2. Children should be supervised to ensure that they do not play with the device.
3. Always check the device before you use it. Do not use the device or adapter if it is damaged. Always replace a damaged part with one of the original type.
4. Do not use the device if the UV filter of the light exit window and/ or attachment is broken.
5. Do not modify or cut off any part of the adapter or the cord, as this causes a hazardous situation.
6. Do not use any pencil or pen to mark the areas to be treated. This may cause burns on your skin.
7. Adapter, light exit window and the filter of the attachments can become very hot after usage. Do not touch the adapter, inner part of the light exit window and the filter or the inner part of the attachments without having these cool down.
8. If you experience discomfort or have a concern about its use, stop use immediately and contact your doctor.
9. Do not use the equipment if you notice a change in operating system performance, the system is damaged, or any of its components are worn or frayed.
10. Do not use it on the head, ears, nipples, genitals or anus.
11. Never subject the appliance to heavy shocks and do not shake or drop it.
12. Do not put metal objects into the heat dissipation holes, there is a danger of electric shock.
13. Store the device in a ventilated and dry environment.
14. Do not put the device in water or place it in a humid environment.

## 1.2 Contraindications

1. Do not use the device if you are under the age of 18.
2. Do not use the device if you have the Fitzpatrick Skin in Type V and Type VI.
3. Do not use the device if you are red/gray/white hair.
4. Do not use this device if you are photosensitive.
5. Do not use this product for women during pregnancy, preparation or lactation.
6. Do not use the device if you have heart disease, hypertension, malignant tumor, infectious skin disease, burn skin disease and hypercoagulability disorders.
7. Do not use the device if you have skin problems such as psoriasis, eczema, herpes, wound or rash etc.
8. Skin sunburned or burnt are not allowed to use until fully recovered.
9. Do not use If the skin treatment area has tattoos, dark brown or black spots (such as dark freckles, birthmarks, moles or warts).
10. Do not use the device if you have any active implants such as a pacemaker, neurostimulator, insulin pump etc.
11. Do not use the device if you take any of the medications below:
  - You are taking photosensitizing agents or medications.
  - Your skin is currently being treated with or has recently been treated in the past week
  - You have taken any form of isotretinoin Accutane or Roaccutane in the last six months
  - You have taken anticoagulation medications, including heavy use of aspirin in the last a week.

## 1.3 Adverse Reactions

1. This product has no side effects, but if you are sensitive to light, please stop using immediately.
2. If you experience any discomfort, skin discoloration, skin damage, or any other concerns develop, stop using immediately and consult your physician.

## 1.4 Precautions

1. Do not look directly at the light source and wear protective glasses.
2. Do not block the heat dissipation holes, so as not to affect the use and the life of the device.
3. Before operation, you need to clean the operation part, and do not apply any cosmetics and skin care products, so as not to affect the effect of the device.
4. Do not use perfume, facial mask and cosmetics containing frosted beads after hair removal.
5. Please avoid UV exposure within 24 hours after depilation. If necessary, please apply sun cream.
6. If you need plastic surgery after depilation (only the depilated area), please consult your doctor in detail.
7. It is recommended to use pure plant moisturizing and repairing products.
8. If the casing of the equipment is damaged or the instrument accidentally enters the water, please send it back to the manufacturer for repair, and do not repair the equipment without authorization.
9. Do not disassemble the device by yourself.
10. When the device fails to operate normally, please send the equipment and related accessories back to the manufacturer, and the professional maintenance personnel of our company will overhaul them.
11. If you experience discomfort, reduce the light intensity setting and consult your doctor.

## 2 Intended Use & Indications for Use

The LEXI IPL Permanent Hair Removal System is an over-the-counter device intended for removal of unwanted body and/or facial hair.

## 3 Product Description

The LEXI IPL Permanent Hair Removal System is a personal, light-based, hair reduction device intended to be sold over-the-counter. The device provides hair reduction using IPL technology. The device provides hair reduction using Intense Pulsed Light (IPL) technology.

It works below the skin's surface and does not involve any cutting or pulling, reducing hair growth with minimal pain.

The device is only powered by the external power adapter and its IPL emission activation is by finger switch. The device mainly contains a Xenon lamp and a skin sensor to detect appropriate skin contact. If the device is not properly applied to the treatment area (in full contact with the skin), the device cannot emit the treatment light pulses. The device is for single-person use only.

### 3.1 Specification

Product name	LEXI IPL Permanent Hair Removal System
Model	LX-1917
Power source	Adapter: Input: 100-240V~50/60Hz, 0.8A Output: 12.0Vdc, 3.0A
Dimensions	148.85mm x 64.7mm x 32mm
Weight	200g
Wavelength	510-1100nm
Energy medium	Xenon Arc Flashlamp

Pulse duration	9-12 milliseconds
Energy density	2.2-4.0J/cm <sup>2</sup>
Spot size (size of treatment window)	3.0cm <sup>2</sup>
Delivery device	Direct illumination to tissue
Pulsing control	Finger switch
Location for use	OTC
Safety and EMC	IEC 60601-1 IEC 60601-1-2 IEC 60601-1-11 IEC 60601-2-57 IEC 62471 IEC 60601-1-6
Biocompatibility	ISO 10993-5 ISO 10993-10
Operating Environment	Temperature: 0~40°C Humidity: <60%RH
Storage Environment	Temperature: -20~60°C Humidity: <60%RH

### 3.2 Accessories List

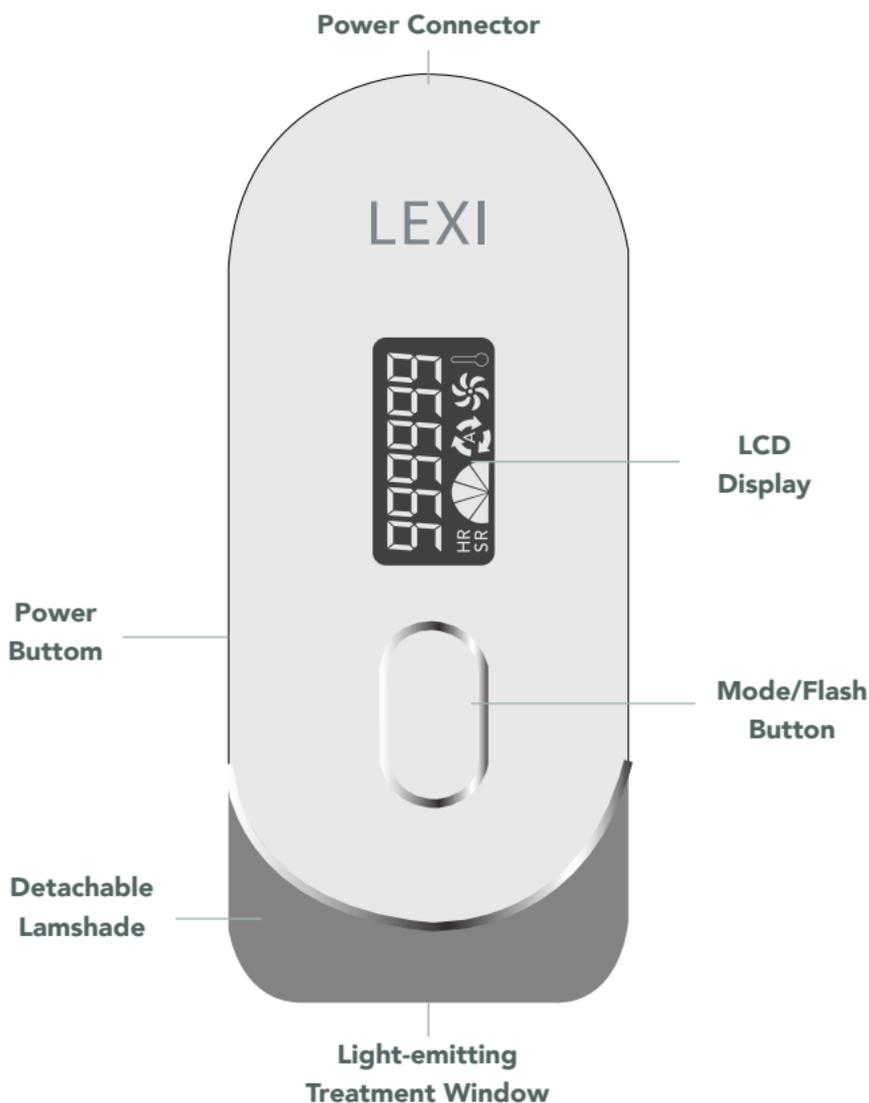
Components and Accessories List for all package is as below.

Name	Quantity
LEXI IPL Permanent Hair Removal System	1 pc
User Manual	1 pc
Adapter	1 pc
Sunglasses	1 pc
Manual shaver	1 pc
Replacement lampshade	1 pc



### 3.3 Main Device

#### 3.3.1 Buttons



**Figure 3-1. Main Device of model LX-1917**

#### **Explanation:**

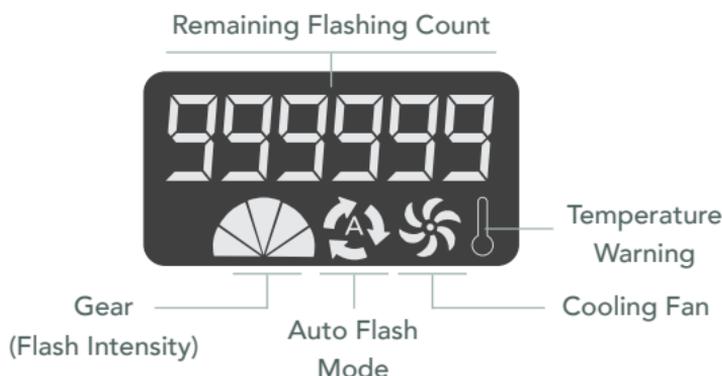
- Power button:

- 1) Short press to turn on the device.
- 2) Press and hold the power button for more than 3 seconds to turn off the device.
- 3) When the device is opening, short press the power button can select the gears.

- **Mode/Flash button:**

- 1) The default startup is manual flash mode, long press the flash button to switch to automatic flash mode, at this time, the LED display will show a " " icon.
- 2) When the device selects the automatic flash mode, the screen display icon " ", press the flash button, then the device will start flashing automatically
- 3) When the device selects the manual flash mode, the device can only flash once every time the flash button is pressed.

### 3.3.2 LCD display



#### **Explanation:**

- **Power button:**

1. The value of the remaining flash count will decrease accordingly with the number of uses. The initial value is 999999, and the screen displays the " " icon.
2. The working mode have 5 level, a sector represents a level, and when the corresponding level is selected, the corresponding number of sectors will be displayed.
3. When the automatic flash mode is selected, there will be displayed " " on the display, otherwise it is the manual flash mode.
4. When the cooling fan is turned on, there will be displayed " " on the display.
5. When the product temperature is greater than 55°C, the temperature alarm icon " " flashes.

## 4 Using Instructions

### 4.1 Check for these situations before use

- 1) Please distinguish your skin & hair types according to the table below before use, it will provide more effective instructions for your choice.

		HAIR COLOR							
									
SKIN TONE									
									
									
									
									
									

 = SUITABLE       = NOT SUITABLE

**Note: The "X" means not suitable!**

### 4.2 Skin sensitivity test

Try different skin areas with different gear. If there is no abnormal reaction after 6 hours, select your suitable energy gear for operation.

Note: It is suggested to select an area for sensitive test before officially operation. Start from the first gear and then adjust the gear accordingly, taking the skin bearable ability as the standard.

### 4.3 Energy selection

According to different skin types, the hair remover has designed five energy levels, the first gear has the lowest energy and the fifth gear has the highest energy.

Because dark skin is more receptive to absorb light and heat energy, people with dark skin (Type IV) should be careful when using high-energy gear. It is recommended to use 1-3 gear.

For those with lighter skin color (Type I-Type III), the appropriate energy level should be selected according to their own test results. After each operation, return to the previously operated gear. When operating the instrument again, the interval should be more than 20 seconds.

## **4.4 Usage Instructions For operation**

### **4.4.1 Using Mode introduction**

- Auto mode (applicable to arms, legs and other large areas):

Selecting the auto flash mode > Press the power button > Place the light-emitting area of the device on the treatment skin area and fully touched to the skin > Press the flash button > The device flashing automatically > Move the device slowly along the skin of the treatment area after each flash > The above operation can be done back and forth twice.

It is suggested that the skin movement speed can be adjusted according to the flash speed, so as to make the coverage more uniform. The flash rate is faster in the first gear, slightly slower in the second gear, and the higher the gear, the slower the light speed.

- Manual flash mode (suitable for small areas such as fingers, lip etc.):

Selecting the manual flash mode > Press the power button > Place the light-emitting area of the device on the treatment skin area and fully touched to the skin > Press the flash button > Flashing once > Each time the device is moved and the flash button is pressed, the device will flash once > The above operation can be carried out three to four times.

### **4.4.2 Operation step**

#### **1. Clean your skin**

- Scrape off the hair on the needed skin area (It's better to shave hair 2 hours before machine operation).

#### **2. Connect the power adapter**

#### **3. Wear protective glasses**

- Wear the protective

#### **4. Turn the device on**

- Press the power button to turn on the device, the display and icon " " will light and the cooling fan start working.

#### **5. Select manual or automatic mode**

- The default startup is manual flash mode, long press the flash button to switch to automatic flash mode, at this time, the LED display will show a " " icon.

#### **6. Select gear**

- The device has 5 gears. When the device is opening, short press the power button to select the gear. When the corresponding level is selected, the corresponding number of sectors will be displayed, like " " is the fifth gear.

#### **7. Treatment**

- Place the light-emitting part of the device at the starting treatment position, press the flash button after it is close to the skin, and start the treatment.
- When the mode is auto flash mode: The device flashing automatically and move the device slowly along the skin of the treatment area after each flash. The above operation can be done back and forth twice.
- When the mode is manual mode: The device will flash only when press the flash button. The above operation can be carried out three to four times.

#### **8. Turn the device off**

- Press the power button to turn off the device.

#### **9. Disconnect the adapter**

#### **10. Take off the protective glasses**

#### **11. Clean the device**

- Clean the light-emitting treatment window with a wet cloth or cotton swab.
- Use alcohol with 75% to wipe down the device.

#### **12. Store the device**

- Put the device and accessories in the box for next use.

**Note:**

1. Do not flash the same spot twice in a row.
2. There are sensors inside the device that only flash when the device is in close contact with the skin.
3. When select the gear, it is recommended to start with the first gear. Finally, select the suitable gear.
4. The device will automatically shut down if there is no operation for 10 minutes.
5. The device has overheating protection, when the temperature of the device is higher than 55 °C, the " " logo on the display will turn on a red light to warn. The red light goes out when the temperature is below 45 °C.
6. Mild reddening of skin after operation is a normal phenomenon.
7. It is recommended to avoid touching water within 6 hours after depilation, and then moisturizing water can be used to moisturize the irradiated parts after 15 minutes.
8. Hair Removal Cycle Standard
  - 1. Weeks 1-3: 3 times a week
  - 2. Weeks 4-6: 2 times a week
  - 3. After the 6th week, once every two weeks or a month, depending on the specific situation.

**• 5 Maintenance**

To ensure the best effect and longest service life, please clean the product before and after each

depilation to avoid long-term accumulation of hair and dust. If you do not clean normally, the

product will not get the effect it should have.

- Before starting cleaning, the machine must be turned off and unplugged power to allow the machine to cool down.
- Wipe and clean the flash light glass with soft, clean and dry cloth.
- Store the equipment in a dry and dust-free environment at -20 to 60°C.

## 5.1 Cleaning

- Clean the light-emitting treatment window with a wet cloth or cotton swab.
- Use alcohol with 75% to wipe down the device.

### Note:

1. Do not wash this product and accessories in faucets and dishwashers.
2. Do not use steel balls, abrasive cleaners (toothpaste, etc.) or corrosive liquids (gasoline, engine oil, acetone, etc.) to clean the product.

## 5.2 Environment protection

When discarding the product, please do not throw it together with the general waste, and need to give it to the designated recycling center, which is conducive to environmental protection.

## 6 Guarantee

### 6.1 Warranty Period

- **Warranty term** Warranty for whole machine: counted from the date of purchase.
- **Division of warranty liability:**  
Any quality problems during warranty term be free to repair if it's caused by non-human factors, other malfunctions caused by abnormal use or force majeure are not covered by the warranty.
- **Warranty specification:**  
when the user applies for free warranty service during the warranty period, they shall present a valid purchase certificate (e.g. warranty sheet)

## 6.2 Outside Warranty Period

If it belongs to the following points, our company will not be responsible for it, and it is not covered by the warranty.

1. For fire, earthquake, third party's behavior, customer's intentional, negligent or misuse, use under other abnormal conditions, unpredictable events, etc.
2. Incidental damage to the function or use of the goods (loss of business interests, interruption of business, including loss of use of instruments, cost of replacing any equipment, device or service, or claims of your customers)
3. Damage caused by using methods other than those in this manual.
4. Circumstances beyond our company control situation: when a problem occurs with accessories, or substitutes that are not sold by our company, the services and parts needed to solve the problem; and problems arising from accepting unauthorized modifications or services. Misuse, abuse, operation, maintenance, or illegal complaints against the instrument not in accordance with the company's instructions.
5. Failure or damage caused by using in the working environment not specified by the product, including overload.
6. Failure caused by improper storage by users (such as rodent damage, liquid infiltration, etc.)

## 7 Safety, EMC

1. The light treatment complies with Medical Electrical Safety Standards (IEC 60601-1, IEC 60601-2-57, IEC 62471).
2. This device is also complied with Medical EMC Standard (IEC 60601-1-2).



## Guidance and manufacturer's declaration – electromagnetic emissions

The LEXI IPL Hair Removal System (Model: LX-1917) is intended for use in the electromagnetic environment specified below. The customer or the user of the LEXI IPL Permanent Hair Removal System should ensure that it is used in such environments.

Emissions	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The LEXI IPL Permanent Hair Removal System (Model: LX-1917) uses LED 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 LEXI IPL Permanent Hair Removal System (Model: LX-1917) is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic	Class A	
emissions IEC 61000-3-2		
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Not Applicable	

## Guidance and manufacturer's declaration – electromagnetic immunity

The IPL Permanent Hair Removal System (Model: LX-1917) is intended for use in the electromagnetic environment specified below. The customer or the user of the LEXI IPL Permanent Hair Removal System should ensure that it is used in such environments.

<b>Immunity test</b>	<b>IEC 60601 test level</b>	<b>Compliance level</b>	<b>Electromagnetic environment --guidance</b>
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±2KV, ±4KV, ±8KV, ±15KV air	±8 kV contact ±2KV, ±4KV, ±8KV, ±15KV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4	±2 kV 100 kHz repetition frequency	±2 kV 100 kHz repetition frequency	Mains power quality should be that of a typical commercial or hospital environment
Surge IEC 61000-4-5	± 1 kV, ± 2 kV Line-to-line	± 1 kV, ± 2 kV Line-to-line	Mains power quality should be that of a typical commercial or hospital environment.

<p>Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11</p>	<p>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°)</p>	<p>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°)</p>	<p>Mains power quality should be that of a typical commercial or hospital environment. If the user of the LEXI IPL Permanent Hair Removal System (Model: LX-1917) requires continued operation during power mains interruptions, it is recommended that the LEXI IPL Permanent Hair Removal System (Model: LX-1917) be powered from an uninterruptible power supply or a battery.</p>
<p>Power frequency (50/60 Hz) magnetic field IEC 61000-4-8</p>	<p>30 A/m</p>	<p>30 A/m</p>	<p>Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.</p>
<p>NOTE UT is the a.c. mains voltage prior to application of the test level</p>			

## Guidance and manufacturer's declaration – electromagnetic immunity

The LEXI IPL Permanent Hair Removal System (Model: LX-1917) is intended for use in the electromagnetic environment specified below. The customer or the user of the LEXI IPL Permanent Hair Removal System should ensure that it is used in such environments.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment –guidance
<p>Conducted RF IEC 61000-4-6</p> <p>Radiated RF IEC</p>	<p>3 Vrms 0,15 MHz and 80 MHz 6 Vrms in ISM and amateur radio bands between 0.5 MHz and 80 MHz 10 V/m 80 MHz to 2.7GHz 80 % AM at 1</p>	<p>3 Vrms 0,15 MHz and 80 MHz 6 Vrms in ISM and amateur radio bands between 0.15 MHz and 80 MHz 10 V/m 80 MHz to 2.7GHz 80 % AM at 1</p>	<p>Portable and mobile RF communications equipment should be used no closer to any part of the LEXI IPL Permanent Hair Removal System (Model: LX-1917), including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance 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 meters (m).</p>
<p>61000-4-3</p>	<p>kHz</p>	<p>kHz</p>	<p>Field strenghts from fixed 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:</p>

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

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

- a. Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the LEXI IPL Permanent Hair Removal (Model: LX-1917) is used exceeds the applicable RF compliance level above, the IPL Hair Removal should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the IPL Hair Removal.
- 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 Model LX-1917**

The LEXI IPL Permanent Hair Removal System (Model: LX-1917) is intended for use in an electromagnetic environment in which radiated RF disturbances are control RGB. The customer or the user of the IPL Hair Removal can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the LEXI IPL Permanent Hair Removal System (Model: LX-1917) as recommended below, according to the maximum output power of the communications equipment.

<b>Rated maximum output power of transmitter (W)</b>	<b>Separation distance according to frequency of transmitter (m) 150 kHz to 80 MHz</b>	<b>Separation distance according to frequency of transmitter 80 MHz to 800 MHz</b>	<b>Separation distance according to frequency of transmitter 800 MHz to 2.7 GHz</b>
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance  $d$  in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where  $P$  is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

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

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

## 8 The symbols and Description

No.	Symbols	Description
1		<p>Manufacturer: Shenzhen Semlamp Intelligent Technology Co., Ltd</p>
2		<p>The symbol indicates that the product should not be discarded as unsorted waste but must be sent to separate collection facilities for recovery and recycling.</p>
3		<p>CONSULT INSTRUCTIONS FOR USE.</p>
4		<p>The date of manufacture</p>
5		<p>Indicates that caution is necessary when operating the device or control close to where the symbol is placed, or that the current situation needs operator awareness or operator action in order to avoid undesirable consequence.</p>
6		<p>Type BF Applied Part Do not use LEXI on head, ears, nipples, genitals, or anus</p>
7		<p>Batch code: 2014</p>
8		<p>Symbol for "SERIAL NUMBER - LX-1917". This symbol shall be accompanied by the manufacturer's serial number.</p>
9		<p>Indicates the date after which the medical device is not to be use</p>

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