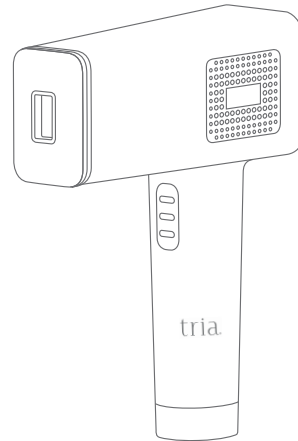


tria.

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User Manual

Device Name: Intense Pulsed Light (IPL) System
Model: T012C

Version: V1.4 Date: Aug. 23, 2023



Manufactured for Tria Beauty by

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1. Safety Instructions

Before using the Intense Pulsed Light (IPL) System for the first time, please read the user manual carefully.

Warning

- This device is not a toy, keep out of reach of children.
- Please check the device before you start using it. **DO NOT** use it if there is any damage.
- Keep the device and power adapter dry.
- Make sure the device operating voltage complies with the rated voltage of the power source.

 **Caution:** The Intense Pulsed Light (IPL) System is an electrical device. As such, it should be used with special attention to safety. Please read all warnings before use, and strictly follow them when using the device.

Warning:

- The following persons should not use this device:
 - Pregnant or nursing women.
 - If your skin is sensitive to light and/or is prone to developing a rash or allergic reaction.
 - If you have type V or type VI skin (your skin rarely or never burns in the sun and/or tans profusely) because you run a high risk of developing skin reactions like hyperpigmentation and hypopigmentation, intense redness or burns.
 - If you have a history of skin diseases or are currently being treated for one.
 - If you have precancerous lesions or multiple birthmarks or moles on the area(s) you want to treat.
 - If the area you want to treat has an infection, burn, eczema, hair follicle inflammation, scratches, open wounds, herpes simplex, lacerations or hematomas.
 - If you have a history of collagen disorder, keloid scar formation and/or poor wound healing.

- If you have a history of vascular diseases like varicose veins etc.
- If you have diabetes, lupus erythematosus, porphyria, congestive heart disease and/or bleeding disorders.
- If you have a history of immunosuppressive disease (including HIV or AIDS).
- If you are undergoing or have received radiotherapy or chemotherapy within the last two months.

Warning

➤ **DO NOT** use this device on the following areas:

- Areas with hyperpigmentation or hypopigmentation, intense redness, or burns.
- Areas where you have surgery.
- Around the eyes and eyebrows to avoid eye injury.
- On the nipples, areolas, labia minora, vagina, anus, inside the nostril, or ears. Men should not use this device on the scrotum or face.
- Near silicone implants, pacemakers, subcutaneous injection ports (such as insulin dispensers), or body piercings. Any artificial surface should be avoided.
- On moles, freckles, large veins, darker pigmented areas, scars, or skin abnormalities without doctor supervision.
- On tattoos or permanent makeup, as it can cause burns to the skin and change its pigmentation.
- On areas where you use long-lasting deodorants, as it may cause skin irritation.
- Do not use this device on skin with sunburns, that has been recently tanned, or has a fake tan.













- **DO NOT** Use this device if you take the following medications or treatments:
 - If your skin is being treated or has recently been treated with alpha-hydroxy acids (AHAs), beta hydroxide acids (BHAs), topical isotretinoin, or azelaic acid.
 - If you have taken oral or topical Accutane or Roaccutane acid in the past six months. This treatment makes skin more susceptible to lacerations, trauma, and irritation.
 - If you are taking any kind of photosensitizing agent or medication. Always verify the patient package inserts for the medicine, and do not use the device if it is specified that it can cause light allergy reactions, phototoxic reactions, or if you should avoid sun exposure while taking the medicine.
 - If you are taking anticoagulant medicines, including the use of large quantities of aspirin and cannot stop at least one week before each treatment.
- Only Adults over 18 years old can use this device.
ALWAYS follow the warnings and use recommendations of this instruction manual.
- Immediately **STOP** using the device and consult a doctor if you feel any discomfort.










Caution:

- **DO NOT** touch any internal components of the device that might be exposed as a result of damage to the device in order to avoid electric shock.
- **DO NOT** insert any objects into the device.
- The adapter contains a transformer, **DO NOT** use a power supply other than the one provided, as it is dangerous.
- **DO NOT** use the device if the filter of the light exit window is damaged.
- This device cannot be washed. **DO NOT** immerse the device or wash it under running water.
- This device is not suitable to use on children. Keep it out of reach of children.
- Regularly clean the device surface to extend its lifetime.
- **DO NOT** attempt to disassemble, repair or modify the device by yourself.
- **DO NOT** place or store the device for a long period in a hot or humid environment (e.g. bathroom or swimming pool etc.). If you do not intend to use the device for a long time, store it in a dry place at room temperature.

- **DO NOT** use this device in an environment with flammable materials, solutions, gases, or in an oxygen-rich environment, to avoid fire risk.
- To avoid eye discomfort when using this device, ensure you (and other people in the same room) do not look directly into the light exit window of the device. **ALWAYS** use protective goggles (included) when using the device.
- **DO NOT** cover the device's vents during use.
- **DO NOT** wrap the cable of the power supply around the neck.
- **DO NOT** use any power adapter other than the one provided by the manufacturer.
- This device is for single patient use.
- **DO NOT** use the device after sunbathing.
- Please do a cutaneous sensitivity test and wait for 24 hours, if you are not sure whether your skin has been tanned or burned.
- Please unplug the adapter after use.
- The warning list is not exhaustive. If you are not sure whether you can or cannot use this device, please consult a doctor.

2. Symbols

	Alternating current		This way up
	Direct current		Date of manufacture
	CLASS II equipment		Temperature limit
	Caution		Humidity limitation
	Warning		Atmospheric pressure limitation
	Type BF applied part		Product should not be discarded as unsorted waste but must be sent to separate collection facilities for recovery and recycling.

	Refer to instruction manual		This device has not been tested for use in an MR environment and should not be used exposed to MR environments while patients are wearing the device. Keep it outside the MRI scanner room.
	Manufacturer		Wear eye protection
	Serial number		Indicates a medical device that can be broken or damaged if not handled carefully.
	Indicates a medical device that needs protection from light sources.		Indicates a medical device that needs to be protected from moisture.
	Federal Communications Commission		

3. Device Description

The Intense Pulsed Light (IPL) System is a device for hair removal based on Intense Pulsed Light (IPL). The purpose of the IPL light is to heat the root where the hair grows. It works below the skin's surface. The device is powered solely by the external power adaptor and its IPL emission activation is controlled by pressing a switch.

The Intense Pulsed Light (IPL) System features an ice-cold care function which is realized through a semiconductor cooling plate. This function starts automatically when the device is powered on and turns off automatically when device is powered off. The cold side of semiconductor cooling plate is attached with a Metal Cooling Plate which encircles the Light Exit Window as part of the device surface. Since the temperature of the Metal Cooling Plate is reduced by semiconductor cooling plate and thus is lower than temperature of skin surface, it generates an ice-cold feeling when device contacts with skin surface while it is on. This is a physical heat transfer process.

3.1. General Information

Device Name: Intense Pulsed Light (IPL) System

Model: T012C

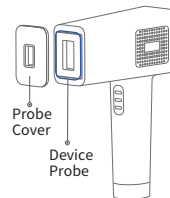
3.2. Indications for use

The Intense Pulsed Light (IPL) System is an over-the-counter device intended for the removal of unwanted body hair.

3.3. Introduction of device

3.3.1. Device picture

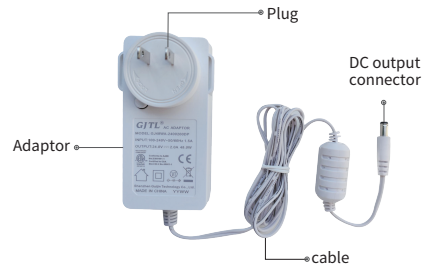
Main unit (picture 1):



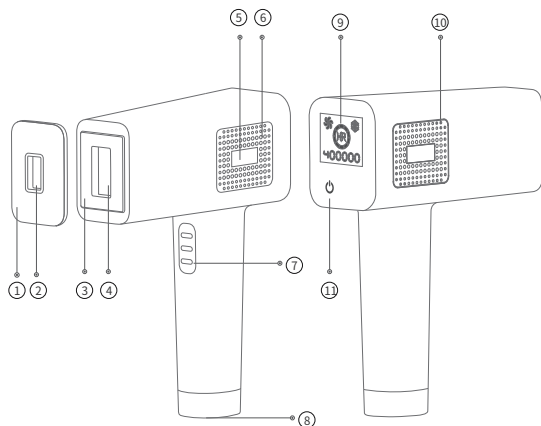
Goggles (picture 3):



Power Adaptor (picture 2):



3.3.2. Configuration of Main unit



- | | |
|---|------------------------------------|
| ① Probe Cover | ⑦ Flash Button |
| ② Light Exit Window of Probe Cover (1.85cm ²) | ⑧ DC Plug-in Port |
| ③ Metal Cooling Plate | ⑨ Display screen |
| ④ Light Exit Window (4cm ²) | ⑩ Air Vents (Air outlet) |
| ⑤ Flash Ready Light | ⑪ On/Off / Level adjustment button |
| ⑥ Air Vents (Air inlet) | |

Status of Flash Ready Light	When	Graphical representation
Light on Steady	When in "Manual Emit Flash mode", this indicates that the device probe is not in full contact with the skin.	
Light Blinking	1. When in "Manual Emit Flash mode", this indicates that the device probe is making full contact with the skin and device is ready to trigger a flash, but you have not pressed the Flash Button yet. 2. When in "Auto Emit Flash mode", this indicates that the device probe is not in full contact with the skin.	

3.3.3. Introduction of Display screen

The following items are shown on the display after the device is turned on:



①	Fan	Cooling the internal parts of the main unit while the device is on. When device is powered on, two blades of sign will light up and rotate as the fan begins working, it will continue working for 30 seconds after device is powered off.
②	Ice-cold care function	Generating an ice-cold feeling. When device is powered on, the sign lights up and the device generates an ice-cold feeling at the Metal Cooling Plate continuously, until the device is powered off.
③	Intensity level	Indicates the intensity level which is adjustable from level 1 to 10. This circle is divided into ten parts, representing the ten Intensity levels. While the device is on, the number of parts lighting up is the intensity level. For example, when one part of the sign is lit up, but the other 9 are off, the intensity is at level 1.
④	Hair removal	Sign of Hair removal. When device is powered on, the sign lights up until the device is powered off.
⑤	Number of remaining flashes	The number of remaining flash times decreases by 1 if flash emits once. This number will gradually decrease to 0 as the device is used. Once it reaches 0, the device will cease functioning.

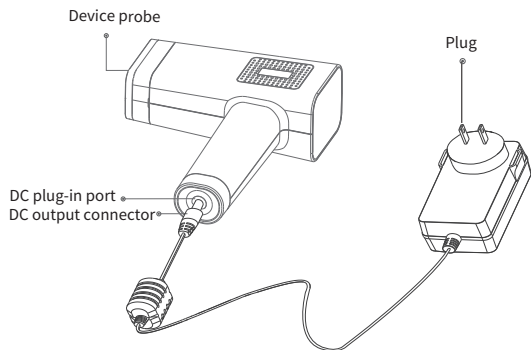
4. How to Use

To ensure the correct operation of this device, please read the instructions carefully before use.


4.1. Device Operation Introduction

• **Preparation:** Connect the power adaptor and main unit as shown in picture 4:

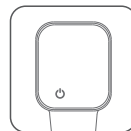
Picture 4





Insert the plug into a power socket and the device will enter Standby Mode with about a one-second-long continuous beeping sound.

• **Powering On:** With the device in Standby Mode, press and hold the "On/Off/Level adjustment button"  for about 2 seconds. The device will be powered on at the first intensity level setting with two short beeping sounds. At the same time, the fan and Ice-cold Care functions will begin working. (Picture 5)











Picture 5



• **Powering OFF:** Press and hold the "On/Off/Level adjustment button"  for about 2 seconds. The display screen will stop lighting, and the device will power off after two short beeping sounds. The fan will continue working for another 30 seconds after device is powered off.

• **Intensity Level Adjustment:** With the device powered on, press the "On/Off/Level adjustment button"  to adjust the treatment intensity level in a cycle with a total of 10 levels. First-time users should start the first session at the lowest intensity level. You can gradually increase the intensity level. (Picture 6)

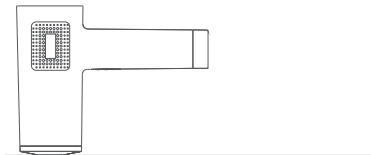
Picture 6


Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10
									

• **Manual Emit Flash mode:**


- 1) When the device is initially powered on, the device automatically enters "Manual Emit Flash mode".
- 2) Put the Device probe against the area to be treated and press (Picture 7)


Picture 7



3) When Flash Ready Light is blinking, press the Flash Button  to trigger a flash.

Notes:

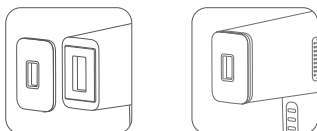
1) In "Manual Emit Flash mode", if the device probe is not in full contact with the skin, the Flash Ready Light will light up without blinking and the device will not emit the flash when pressing the Flash Button .


2) In "Manual Emit Flash mode", if the device probe in full contact with the skin but the Flash Button  has not been pressed to trigger a flash, the Flash Ready Light will blink.

3) "Manual Emit Flash mode" is recommended for hair removal in smaller areas. When removing hair in a small area, you can place the probe cover on device probe. The probe cover is the same size as the device probe and covers it completely. However, the exit window of the probe cover is smaller than that of the device probe. When shaking the device, the probe cover will not fall off.

(Picture 8)

Picture 8- Attach Probe cover on Probe



•**Auto Emit Flash mode:** With the device in "Manual Emit Flash mode," press and hold the Flash Button  for about 2 seconds. The device will enter "Auto Emit Flash mode" with eight short beeping sounds "bi-bi--bi-bi--bi-bi--bi-bi" and the Flash Ready Light will begin blinking. Press the device probe against the area to be treated and the device will emit the flash automatically, without pressing the Flash Button.

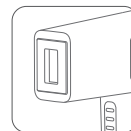
Notes:

1) In "Auto Emit Flash mode", if the device probe is not in full contact with the skin, the Flash Ready Light will blink and the device will not emit the flash.

2) "Auto Emit Flash mode" is recommended for larger areas of hair removal.

(Picture 9)

Picture 9



• **Mode switch:** While the device is on, ensure that the device is not pressed against the skin and then press and hold the Flash Button for about 2 seconds. If there are eight short beeping sounds "bi-bi--bi-bi--bi-bi--bi-bi" and Flash Ready Light begins blinking, the device is switched into "Auto Emit Flash mode." If there are two short beeping sounds "bi-bi" and Flash Ready Light lighting on, but not blinking, then the device is switched into "Manual Emit Flash mode".

4.2. Skin Test Patch

※For first-time users, we recommend that you test the device on the arm for reactions with following skin test patch:

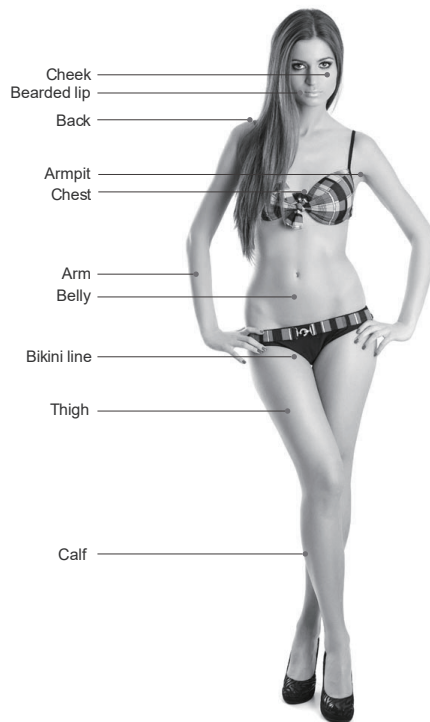
- a) Turn on the device and select intensity level 1. Press the device probe against the skin and apply one flash.
- b) Increase the intensity by one level and repeat the test in a slightly different spot (do not trigger the flash multiple times on the same area). Stop increasing the intensity level and stop the testing if the device causes any discomfort (or pain).
- c) Wait for 24 hours and then check the skin for any reaction such as discomfort, rash, or pain.
- d) If the skin on the test site is normal (no discomfort or pain), you can continue to use it at the level used there. If it is abnormal, please stop using it at that level.

※After you test the skin, choose the intensity levels that did not cause a reaction on your skin.

4.3. Suggestions for Use

※ If you have recently removed hairs by using a long-lasting removing method, such as plucking, waxing, etc., wait until hairs start growing again before using the device.

• Treatment areas



Women can treat facial hair up to the top of the cheekbone, avoiding the eye and eyebrow areas. Men can treat up to the top of the shoulder.

• Treatment time

Because of the natural hair growth cycle, it is recommended to use the IPL Hair Removal Device once every two weeks for the first 3-4 treatments and gradually reduce the use based on the desired and observed status of hair regrowth.

• Skin tone/hair color reference chart

Please refer to the chart below before you start using the device to determine if your skin tone and hair color are suitable for use with the various intensity levels ("✓" means the device is suitable for you; "X" means the device is not suitable for you, 1-10 refers to the flash intensity levels).

If this device is suitable for you, please refer to below chart to select an appropriate light intensity. The device is more effective at higher intensity levels. However, if you feel any pain or discomfort, please reduce the intensity.

Darker skin tones absorb more light, which can cause skin irritation more readily. Therefore, persons with darker skin tones are recommended to use a lower intensity setting for the flash. For brown skin tone, please start from the lowest intensity mode and adjust the level setting according to your pain sensation.

Skin type/tone*	Tone	Safety grade
Type I Pale white		Applicable
Type II White to light beige		Applicable
Type III Beige		Applicable
Type IV Light brown		Applicable
Type V Moderate brown		Not Applicable
Type VI Dark brown or black		Not Applicable

*Skin type/tone descriptions source: <https://www.fda.gov/radiation-emitting-products/tanning/your-skin>

HAIR COLOUR:

Tria IPL is suitable for use on naturally black or brown hair. It may not be as effective on white, grey, blond or red hair.



4.4. Steps for Use

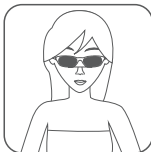
- Before you start using the device, use a razor or trimmer to shave all hair on the surface of the skin, but do not pluck or use chemical hair removal products (figure 10). Completely dry the skin and remove any oily substances (such as body fragrance, lotion, perfume, sunscreen, or other cosmetics).

Figure 10



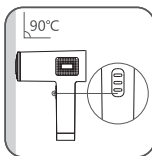
- Connect the power adaptor and the main unit and then plug the power adapter into a power socket.
- Press and hold the "On/Off/Level adjustment button" to turn on the device.
- Select the appropriate flash intensity for your skin tone and hair color (for first-time users, use the lowest light intensity recommended and adjust it gradually).
- Wear protective goggles to avoid looking into the light (figure 11).

Figure 11



- Press the device probe against the skin, ensuring the device probe is in full contact with the skin (Figure 12). Wait for a few seconds. When the Flash Ready Light begins blinking, press the Flash Button to trigger the flash. You will feel a slight burning sensation (IPL energy is being absorbed). If you want to reduce the burning sensation, adjust the intensity level.

Figure 12



- After use, turn off the device, unplug the power adapter, and clean the device.
Note:

- 1) This device features an Ice-cold care function, this function starts automatically when the device is powered on and turns off automatically when device is powered off. The cold side of semiconductor cooling plate is attached with a metal cooling plate which encircles the Light Exit Window as part of the device surface. Since the temperature of the Metal Cooling Plate is reduced by semiconductor cooling plate and thus is lower than temperature of skin surface, it generates an ice-cold feeling when device contacts with skin surface while when device contacts with skin surface while it is on.
- 2) The device is equipped with a fan in the main unit which is used to cool the internal parts of the main unit while the device is on. When the device is powered on, the fan can be heard as it begins working. It will remain on constantly, until 30 seconds after device has been powered off .

- 3) Clean the device according to chapter 6 of this manual, only after unplugging the power adapter and for waiting 20 minutes.
- 4) After cleaning, put the device and adaptor back into the box it came in and store it according to specified storage conditions.

Caution

- 1) After using the device, DO NOT apply any fragrant skincare or cosmetic product on your skin.
- 2) DO NOT use deodorant immediately after using the device on the armpits. Wait until your skin's redness completely disappears to start using deodorant.
- 3) After each treatment, make sure your skin does not show any signs of redness after 24 hours.
- 4) Keep the treated area covered and away from direct sunlight two weeks after the treatment or use sunscreen (SPF30+) on the treated area.

5. Rare Side Effects

• Burns, abnormal redness and swelling

These reactions are very rare, they may be caused by using a high flash intensity. If these adverse reactions continue for 3 days or more, immediately consult a doctor. Only start the next treatment if the skin is clear of any problem, and ensure you use a lower flash intensity.

• Skin discoloration

This is normal but very rare. When using the device, the skin may suffer from discoloration, this may happen because you are using a high-intensity flash. When the discoloration disappears, reduce the flash intensity during the next treatments. If the skin discoloration does not disappear after two weeks, please consult a doctor.

• Skin infections and inflammation

These are rare. If the device is used in existing wounds and cuts (might happen when shaving the area) it can cause the aforementioned side effects.

• Possible causes of excessive pain during and after the treatment

If you used the device on an area that was not shaved before you started the treatment; the flash intensity is too high for your skin tone and hair color;

you used the device in the same exact area more than once; you used the device on an open wound; the area you are treating has any sort of inflammation or infection or you are using the device in areas with tattoos or sunburns, excessive pain during and after the treatment could result.

6. Cleaning & Maintenance

6.1. Cleaning

After each use, clean this device using the following tips:

Purpose: This device is intended to be used multiple times by the same user to remove unwanted hair. The device's surface can be contaminated during use with organic soil and microorganisms carried by human hands. You may clean the device after 20 minutes cooling down, after each use.

Cleaning Agent: 70% isopropyl alcohol wipe.

Method of Cleaning: To thoroughly clean the device, immediately after each use, rub the device, the Light Exit Window, the shell, and button by hand with 70% isopropyl alcohol wipes for 15s and Light Exit Window for 3s. Do not use undue pressure.

Note:

- Ensure that no liquid enter the interior of the device.
- NEVER use abrasive cleaning agents, thinners or benzene for cleaning.
- NEVER immerse the instrument in water or other cleaning liquids.
- Wait 10 minutes after cleaning, to allow the device to air-dry.

Visual Inspection: After cleaning, there should be no visible blotches or soil stains on the device under nature light. If there are still blotches and/or soil stains, repeat the cleaning steps mentioned above until there are no visible blotches or soil stains.

Dispose of the device if there is corrosion, discoloration, pitting, or cracked seals after cleaning. Enquire about the options for environmentally-friendly and appropriate disposal. Take local regulations into account.

Reuse Life: 400,000 flashes

6. 2. Maintenance

- The Light Exit Window is very delicate. It is very important to protect the Light Exit Window from dirt and damage. Do not touch it or use tools to press it. Must be carefully protected.
- This device is not waterproof. **DO NOT** immerse it or wash it under running water.
- DO NOT** use steel wool, abrasive cleanser, chemicals, or corrosive liquids to clean the device.

7. Storage

DO NOT place or store the device for long periods in a hot or humid environment. Store this device in following conditions:

Storage environment	Temperature: -20 ~ 55 C (-4 ~ 131°F) Relative humidity: 5 ~ 95%, without condensation Atmospheric Pressure: 70 kPa ~ 106 kPa
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8. Recycling



- At the end of its life, do not dispose of this device with household waste. Please take this device to a local recycling point for proper disposal. Proper disposal and recycling practices contribute to environmental protection.

9. Warranty&Support

•Troubleshooting

Problem	Possible Cause	Solution
Display Screen not Lighting	The power cable is not properly connected.	Check the connection of the power supply and adjust the cable.
	The "On/Off/Level adjustment button" was pressed but not held, failing to turn on the device.	Press and hold the "On/Off/Level adjustment button" for about 2 seconds to turn on the device.

The device does not emit the flash	The power cable is not correctly connected.	Check the connection of the power supply and adjust the cable.
	The Device probe is not close enough to the skin.	Re-adjust the position of the Device Probe on your skin until the Flash Ready Light lights with blinking.
The Flash Ready Light does not light up	The power cable is not correctly connected.	Check the connection of the power supply and adjust the cable.
	The device probe is not close enough to the skin in "Auto Emit Flash mode"	Re-adjust the position of the device probe on your skin until the Flash Ready Light begins blinking.
During use the device has enters standby mode.	The device powers off automatically if no light is emitted after 5 minutes.	Press and hold the "On/Off/Level adjustment button" for about 2 seconds to turn on the device.
The device produces an odd smell	The light exit window filter is dirty	Carefully clean the light exit window filter with 70% isopropyl alcohol wipe.
	Existing hair was not properly removed before the treatment. The flash burns the surface hair, causing an odd smell.	Before you start using the device, shave to remove the hairs from the skin area you wish to treat.
You feel pain when using the device.	The flash intensity is too high.	Verify the flash intensity and reduce it
	The filter of the light exit window is damaged.	Please stop using the device and contact Tria Beauty Customer Services for assistance.
	You are using the device in a non-applicable area.	Please read the instruction manual. Warnings and prohibited use are mentioned.
After using the device, the treated area shows signs of redness.	Mild redness is a normal and harmless reaction to hair removal.	Do not take any action, this is a normal reaction.
The treatment results are not as expected.	The flash intensity used is too low.	Next treatment, adjust the flash's intensity
	The frequency of use is lower than recommended.	To keep the skin smooth and hair-free, it's recommended to use the device once every two weeks. Treatment intervals depend on each person's personal hair growth cycle. Do not use

		the device more than once every two weeks. Overusing the device increases the risk of adverse skin reactions.
The treatment results are not satisfactory.	Your skin tone or hair color are not suitable for use with this device.	If your hair is blond, red, gray or white, or if your skin tone is very dark, do not use this device.
Other problems.		Contact your local dealer.

Note: If the device still does not work properly after using the above solutions, please stop using the device and contact Tria Beauty Customer Services.

•After-Sales Service

Please contact Tria Beauty, email: customer care@triabeauty.com.


•**Manufacturer:** Shenzhen Fansizhe Science And Technology Co., Ltd.

•**Manufacturer's address and contact details:** 2nd, 3rd, and 4th floors, No.11, Henggangxia Industrial Zone, Xiangshan Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China. (Zip code 518125)

10. Packing List

Main unit	1PC	Power adaptor	1PC
Instruction book	1PC	Safety goggles	1PC

11. Specification Parameters

Device Name	Intense Pulsed Light (IPL) System
Model	T012C
Dimension	148×190×56mm
Irradiation area	Light outlet: 4cm ² With Probe Cover: 1.85cm ²
Power supply	Input: 100-240VAC ~ 50/60Hz, 1.5A Max. Output: 24V  2A
Wavelength	510~1200nm
Max. Fluence	5.18J/cm ² (Attach Probe Cover: 3.41J/cm ²)

Pulse duration	4~ 12ms
Output energy	5.5J ~20.7J (Attach Probe Cover: 1.6J~6.3J)
Service life	400,000 flashes
Service life for power adapter	100000 hours
Service life for goggles	3 years
Weight	390g
Operating environment	Temperature: 5~30°C Relative humidity: 20 ~ 90%, without condensation Atmospheric Pressure:70 kPa ~ 106 kPa
Storage and transportation environment	Temperature: -20 ~55°C Relative humidity: 5 ~ 95%, without condensation Atmospheric Pressure:70 kPa ~ 106 kPa
Warranty period	One year warranty for main unit
Applied part	Type BF
Software version	T012C-V1.0
No Sterilize requirement	
Not category AP / APG equipment	
Mode of operation: continuous	

Adaptor Technical specifications:

Item	Parameters
Model of adaptor	GJ48WA-2400200DP
Manufacturer of adaptor	Shenzhen Guijin Technology Co., Ltd
Input Voltage	100Vac~240Vac
Input Frequency	50Hz/60Hz , 1.5A
Service life for power adapter	10 years
Output voltage range	22.8 ~ 25.2 Vdc
Output current range	0 ~ 2 A
Output power	≤ 48W
Output over voltage	≤ 170% of output voltage
Current-limiting protection	4.5-7.5A

12. Frequently Asked Questions

Q: Why does the device power off automatically during use?

A: The device will power off automatically when the internal temperature of the device is too high. Please restart device after 10 minutes.

Q: What is ice-cool care function?

A: The Intense Pulsed Light (IPL) System features an ice-cold care function which is realized through a semiconductor cooling plate. This function starts automatically when the device is powered on and turns off automatically when device is powered off. The cold side of semiconductor cooling plate is attached with a Metal Cooling Plate which is encircles the Light Exit Window as part of the device surface. Since the temperature of the Metal Cooling Plate is reduced by semiconductor cooling plate and thus is lower than temperature of skin surface, it generates an ice-cold feeling when device contacts with skin surface while it is on. This is a physical heat transfer process.

Q: Why is my hair still growing after a few treatments? Why is it not falling out immediately after treatment?

A: The Intense Pulsed Light (IPL) System is a home IPL hair removal device which applies very gentle pulses of light to the hair root. It step-by-step gradually. Initially, the hair will go into its dormant phase, after which the hair falls out and gradually your body grows less hair in that area. Eventually, your hair will stop growing, however, this can take time.

It is a permanent hair remover. Hair cannot be removed permanently until you have used the device for a course over treatments, but results can vary from person to person. It can only repress hair growth and slow down hair growing speed at the beginning. The hair enters dormant phase with a course of treatments of once every two weeks for 90 days or more. Thus, permanent hair removal effect is achieved.

Q: Why didn't I achieve the same effect as others who have used the device. Why did I see no effect at all?

A: People have different physiologies and differences in hair thickness and other factors can affect the treatment cycle. The 2-week cycle is an average value; the specific time for an individual may be slightly different.

Q: Why didn't I achieve the same effect as the others, or no effect at all?

A: People have different physiques, and the difference of hair thickness and

treated parts can affect the effecting cycle. The using cycle is an average value, of which the specific time may be slightly different.

Q: Which level is suitable?

A: There is no unified standard of suitable levels; it all depends on your skin tolerance. The darker the skin color, the lower the level that should be used. When initially choosing the suitable level, it is important to start from the lowest one. The higher the level is, the more obvious the treatment effect is and the shorter the treatment time will be. Conversely, if you use a low level, the treatment time will be extended accordingly. It is recommended to do local skin tests on the treated skin part before each hair removal and then start treatment on large skin areas afterwards, making sure that no skin discomfort occurs on the second day.

Q: Will it hurt?

A: During the hair removal process, light waves will generate heat when they encounter hair melanin, causing slight pain. Due to the different skin sensitivity and pain tolerance of different individuals, the actual feelings are different. It is recommended to increase the level slowly, starting from the lowest one, according to your actual situation.

Q: Must I shave my hair before each use?

A: No. But you are advised to shave the hair when it is longer than 5mm.

Q: How should I shave? What kind of hair should be shaved off?

A: Generally speaking, you should shave hair in the armpit, the bikini area, and the legs before use. The following method makes shaving easier:

- 1) Use shaving cream or mild shower gel to lubricate the area to be shaved
- 2) Or, apply a hot towel on the area to be shaved for a few minutes, and gently shave the hair immediately after removing the towel.

Q: Why is there a smell of scorched hair after use?

A: That's because the hair is not completely shaved. The device produces light waves which will generate heat when they encounter melanin. This can cause the smell of scorched hair. This is normal.

Q: I want to remove my hair quickly. Can I use the device every day?

A: It is not advised to use the device every day. Hair has a growth cycle. Treat with the device once every 2 weeks for 90 day treatments and gradually decrease the frequency of use after the hair growth slows down.

13. Important Information Regarding Electro Magnetic Compatibility (EMC)

⚠ Warning: Using cell phone or microwave oven, HF surgical equipment, magnetic resonance imaging or other radio radiant equipment near this device may cause malfunction or lead to loss of essential performance.

⚠ Warning: 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.

⚠ Warning: Use of adapter other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

⚠ Warning: 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 Intense Pulsed Light (IPL) System, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

Table 1

Guidance and manufacture's declaration – electromagnetic emission		
The device is intended for use in the electromagnetic environment specified below. The user of the device should ensure that it is used in such an environment.		
Emission test	Compliance	Electromagnetic environment – guidance
Conducted and Radiated RF emissions CISPR 11	Group 1 Class B	The device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.

Conducted RF emissions CISPR 11	Group 1 Class B	The device is suitable for use in all establishments, including domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes except for near active HF surgical equipment and the RF shielded room for magnetic resonance imaging.
Radiated RF emissions CISPR 11	Group 1 Class B	
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations and flicker emissions IEC 61000-3-3	Applicable	

Table 2

Guidance and manufacture's declaration – electromagnetic immunity			
The device is intended for use in the electromagnetic environment specified below. The user of the device should ensure that it is used in such an environment.			
Immunity test	IEC 60601-1-2 test level	Compliance level	Electromagnetic environment-guidancecl
Electrostatic discharge IEC 61000-4-2	±8kV contact; ±2kV, ±4kV, ±8kV, ±15 kV air	±8kV 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%.
Radiated RF EM fields IEC 61000-4-3	3V/m (Professional healthcare facility environment); 10V/m (Home healthcare environment), 80MHz – 2.7GHz 80% AM at 1kHz	10V/m (Home healthcare environment) 80MHz – 2.7GHz 80% AM at 1kHz	

Electrical fast transients/ bursts IEC 61000-4-4	±2kV AC power supply lines; ±1kV DC power/ Signal lines. 100 kHz repetition frequency	±2kV AC power supply lines;	Mains power quality should be that of a HOME HEALTHCARE ENVIRONMENT or a Professional health care facility environment.
Surges IEC 61000-4-5	±0.5kV, ±1kV lines to lines; ±0.5kV, ±1kV, ±2kV lines to earth	±0.5kV, ±1kV lines to lines;	Mains power quality should be that of a HOME HEALTHCARE ENVIRONMENT or a Professional healthcare facility environment.
Conducted disturbances induced by RF fields IEC 61000-4-6	3V 0.15MHz – 80MHz, 6V in ISM bands between 0.15MHz and 80MHz (Professional healthcare facility environment), 6V in ISM and amateur radio bands between 0.15MHz and 80MHz (Home healthcare environment) 80% AM at 1kHz	Applicable	
Note: The ISM (industrial, scientific and medical) bands between 0,15 MHz 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.			
Rated power frequency magnetic fields IEC 61000-4-8	30A/m 50Hz or 60Hz	30A/m 50Hz	Power frequency magnetic fields should be at levels characteristic of a HOME HEALTHCARE ENVIRONMENT or a Professional healthcare facility environment.

Voltage dips IEC 61000-4-11	0% Ur, 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°; 0% Ur, 1 cycle and 70% Ur, 25/30 cycle Single phase: at 0°	Applicable	Mains power quality should be that of a HOME HEALTHCARE ENVIRONMENT or a Professional healthcare facility environment...
Voltage interruptions IEC 61000-4-11	0% Ur, 250/300 cycle	Applicable	
NOTE: Ur is the a.c. mains voltage prior to application of the test level. E.g.: 25/30 means 25 periods at 50 Hz or 30 periods at 60 Hz.			

Table 3

Guidance and manufacture's declaration – electromagnetic immunity			
The device is intended for use in the electromagnetic environment specified below. The user of the device should ensure that it is used in such an environment.			
Immunity test	IEC 60601-1-2 test level	Compliance level	Electromagnetic environment-guidance
Proximity fields from RF wireless communications equipment IEC 61000-4-3	See the following table	Complies	

Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment

Test frequency (MHz)	Band ^{a)} (MHz)	Service ^{a)}	Modulation ^{b)}	Maximum power (W)	Distance (m)	Immunity Test Level (V/m)
385	380-390	TETRA400	Pulse modulation ^{b)} 18 Hz	1.8	0.3	27
450	430– 470	GMRS 460, FRS 460	FM ^{c)} ± 5 kHz deviation 1 kHz sine	2	0.3	28
710	704-787	LTE Band 13, 17	Pulse modulation ^{b)} 217 Hz	0.2	0.3	9
745						
780						
810	800-960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation ^{b)} 18 Hz	2	0.3	28
870						
930						
1720	1700-1990	GSM 1800, CDMA 1900, GSM 1900, DECT, LTE Band 1.3.4.25; UMTS	Pulse modulation ^{b)} 217 Hz	2	0.3	28
1845						
1970						
2450	2400-2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation ^{b)} 217 Hz	2	0.3	28
5240	5100-5800	WLAN 802.11 a/n	Pulse ^{b)} modulation 217 Hz	0.2	0.3	9
5500						
5785						
NOTE If necessary to achieve the IMMUNITY TEST LEVEL, the distance between the transmitting antenna and the ME EQUIPMENT or ME SYSTEM may be reduced to 1 m. The 1 m test distance is permitted by IEC 61000-4-3.						

- a) For some services, only the uplink frequencies are included.
 b) The carrier shall be modulated using a 50 % duty cycle square wave signal.
 c) As an alternative to FM modulation, 50 % pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be the worst case.

Table 4

Recommended separation distances between portable and mobile RF communication equipment and The device

The device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the devices can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the device as.

Rated maximum output power of transmitter/ W.	Separation distance according to frequency of transmitter/m		
	150kHz ~80MHz $d = 1.2\sqrt{P}$	80MHz ~800MHz $d = 1.2\sqrt{P}$	800MHz ~2.5GHz $d = 2.3\sqrt{P}$
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.

NOTE 1 At 80MHz and 800MHz, 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.

Operation Record

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Operation Record

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Operation Record

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