LASCURE

Unveil Your Hair Regrowth

LASER HELMET 552

USER MANUAL

Laser Hair Growth System

2.4.01.01.1587D1R

Welcome

Thanks for choosing our Laser Hair Growth System.
In order to get a better effect, we suggest you:
Please read through the User Manual before using and keeping this User Manual.
If you have any problems while using the device please contact the agent.

Contents

Safety Precautions

Please first read these safety precautions and then follow the user manual to operate. The section is to ensure the operation of Laser Hair Growth System is correct and safe, to prevent users or other people from personal injuries or property damage, and please make sure to follow them.

1.1 Warnings and Precautions

◆ Do not stare directly at the laser light or its reflection in a minor because it can temporarily irritate your eyes. If you stare at the light for too long, it could harm your eyes. Also never use optical instruments like magnifiers or microscopes when using the device because it can cause temporary irritation to your eyes.

◆ Avoid direct eye exposure to laser light.

◆ Keep the device out of the reach of children.

◆ Discontinue use of the device if scalp itching or tingling occurs and lasts more than one hour after completion of a treatment session. If the problem continues for more than one hour after treatment, discontinue usage and consult with a physician.

◆ Do not get the device or adapter wet. This may result in an electrical shock.

◆ Do not drop the device in water because you may get an electrical shock. If the device gets damaged by water, contact agent in time.

◆ Never use the device while sitting in the bathtub or swimming pool. Doing so could cause electric shock, injury, or even death.

◆ Do not use the device when your hair is wet from showering, swimming, or bathing. Towel dry your hair before use. Wet hair may cause electric shock or prevent the laser light from reaching the scalp.

◆ Do not use the device near any heated surfaces because this could cause the Laser Helmet not to work properly and may cause an electrical shock. If your device does not work, contact Customer Service in time.

◆ Do not operate the device if it has a damaged cable, controller, or helmet. If you notice any damage to the above, contact agent in time.

◆ Always unplug the device from the power source before cleaning. Failure to do so may create an electrical hazard that could result in shock or injury.

◆ Do not modify this equipment without authorization of the manufacturer.

◆ When the product is in continuous operation, the temperature of the applied part (laser helmet) will rise, but no more than 46 degree Celsius. Once you feel hot or any discomfort, please turn it off and wait until it cools down.

1.2 Contraindications

Laser Hair Growth System is contraindicated in the following situations:

◆ DO NOT use the device if you are taking medications or if you have any medical condition which makes your skin sensitive to sun or light.

◆ DO NOT use the device if have sensitive skin or if you are allergic to this specific wavelength of light (645-665nm). Sensitive skin or an allergic reaction can result in an itchy sensation of the scalp or sunburn like redness. If these occur, seek medical care from a physician.

◆ DO NOT use if you suffer from severe diseases such as cancer, hematological disease, severe diabetes, heart disease.

◆ DO NOT use the device if you suffer from scalp injury.

◆ DO NOT use if you are pregnant, menstrual period or nursing (lactating).

◆ The device should not be used by or on children under 18 years of age.

◆ The device cannot be used within one month after perm.

1.3 EMC Statements

◆ Laser Hair Growth System conforms to EMC requirements.

◆ User shall install and use in accordance with EMC information described in attached materials.

◆ 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.

◆ Manual and manufacturer’ s statement details are in the end of the article (Annex II)

Indications For Use

Laser Hair Growth System is indicated to promote hair growth in males with androgenic alopecia who have Norwood-Hamilton classifications of IIa-V or females with androgenic alopecia who have Ludwig-Savin Classifications of I-II and both with Skin Phototypes I-IV.

Product Introduction

The Laser Hair Growth System is a dome-shaped low-level laser therapy (LLLT) device designed to promote hair growth in both women and men by exposing the entire scalp to photobiostimulation. The laser helmet features an outer plastic cover and a protective inner liner.

3.1 Package Contents

When you open the gift box of Laser Hair Growth System, you'll find it contains the following components:

◆ Laser Helmet *1

◆ Controller *1

◆ Power Adapter *1

◆ User Manual *1

◆ Carry Bag *1

3.2 Product Components

Laser Helmet

Controller

Adapter+Cable

1) Laser Helmet 552: The device has 352 lasers and 200 LEDs for treatments.
2) Controller: controltheHelmet.
3) Adapter: For charging.
4) Cable: To connect the power adapter and controller.

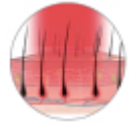
⏻ On/Off button: Long press to turn on/off, short press to stop/start. The pulse mode is activated immediately after turn on, with full-scalp irradiation as default and default working time 12 minutes.

Ⓜ Mode button: Switching irradiation areas (the device defaults to full-scalp irradiation when turned on; short press to cycle through forehead irradiation, crown irradiation, occipital irradiation, and full-scalp irradiation).

Ⓣ Time button: Switch the usage duration (adjustable only when the output is stopped).Cycle through 6 minutes and 12 minutes for switching.

How It Works

4.1 How Laser Hair Growth System Work



The Laser Hair Growth System works by delivering laser and LED energy to stimulate hair follicles. For optimal results, the light should have a clear path to the scalp. While some hair coverage is unavoidable, the device is designed to allow sufficient light to penetrate through the hair and reach the follicles.

4.2 What To Expect

Laser Helmet 552 should be used three times per week, on non-consecutive days. For example, Monday, Wednesday, Friday. use the Laser Helmet for 17 weeks. Once the 17-week period is completed, use as frequently as needed to maintain the desired results without exceeding recommended treatment time 12 min per day. Discontinuing the use of Laser Helmet may result in the loss of hair.

How To Use

Before operation, please note the following:

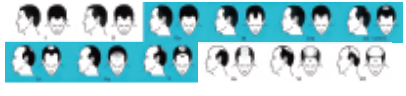
◆ Laser Hair Growth System has been tested and passed the international standard to ensure its outputs are safe for your eyes. But you still should not stare at the laser lights directly.

5.1 Preparing Yourself

You should identify your hair loss classification and skin type classification before using Laser Hair Growth System.

1) Classifications Male or Female

Laser Hair Growth System can be used by men and women with thinning hair (Including color treated) or pattern baldness caused by a hereditary condition. Doctors use a system known as the Norwood Hamilton Classification (men) and the Ludwig-Savin Classification (women) to describe the degree of hair loss. Below are the pictures of the scales. The blue shaded areas show the type of hair loss that can be treated with the Laser Helmet.

Applicable: IIa~ V Hamilton Scale for MEN	
Applicable: I~II Ludwig Scale for WOMEN	

2) Fitzpatrick Skin Types

Step 1: Determine your skin type with the Fitzpatrick scale Compare your skin tone (type) to the chart below. Laser Hair Growth System is intended to promote hair growth in males and females who have skin type 1, 2, 3 and 4.

Step 2: Hair loss classification

◆ Laser Hair Growth System is designed to effectively treat hair loss in males with hair loss classification level IIa, III, IIIa, III-vertex, IV, IVa and V.

◆ Laser Hair Growth System is designed to effectively treat hair loss in females with hair loss classification level I-1, I-2, I-3, I-4, II-1 and II-2.

5.2 Directions

1) Remove all components from the gift box;

2) Make sure the laser helmet is clean, dry and intact before beginning the treatment. You can clean it with a soft, slightly moistened cloth. This is done in order to remove hairs and dust from the Laser Helmet.

3) Press and hold the On/Off button for 2 seconds to turn on, the controller lights up. Upon startup, the device begins in pulse mode with full-scalp irradiation. Short-press the M button to cycle through different irradiation areas (forehead, crown, back of the head, full-scalp). The default usage duration is 12 minutes. Short-press the T button to switch between 6 minutes and 12 minutes; this adjustment can only be made when the device is not operating.

4) Put the laser helmet on head in a comfortable position,there is a sensor inside the helmet. The laser will only light up and work when it is worn on the head.

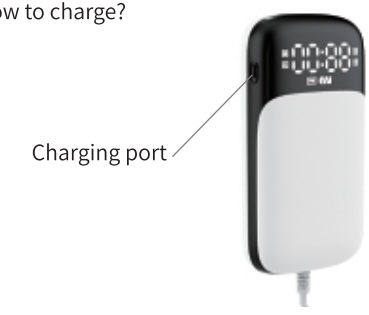
5) During usage, the screen will show time which will countdown during the treatment. The Controller will emit "Bee" after treatment. The device will shut down if no button operation is triggered within 3 minutes.

6) Press on/off button 2 seconds to turn it off and take off laser helmet.

7) You may clean the surface of the laser helmet with a medicinal alcohol wipe or slightly moistened cloth after each session.

8) The Controller equipped with rechargeable battery, please charge it when power off.

9) How to charge?



Insert one end of the charging cable into the controller and the other end into the power adapter. The battery indicator will slowly fill up during charging.

Please Note:

◆ Do not look directly at the laser light as this may cause harm to your eyes. It is a normal phenomenon that your scalp becomes warm during usage of the device.

◆ WARNING: Do not modify this equipment without authorization of the manufacturer.

Aftercare

6.1 Maintenance

Cleaning

◆ Keep your Laser Hair Growth System clean.

◆ Turn off the laser helmet by pressing and holding on/off button until the controller turns off.

◆ Take off power cord from the controller and power adapter.

◆ Clean the surface of the laser helmet with a medicinal alcohol wipe or slightly moistened cloth. Do not use any acetone or solvents.

◆ Visual inspection: After cleaning, there are no dirt particles on the surface of the helmet.

Storage

◆ Keep the laser helmet dry. Never submerge the device or any of its parts in water as if may lead to an electrocution risk.

◆ To avoid breakage or missing device and its parts, please store them in the gift box after each use.

◆ Clean the device before you store it and store it in a safe and protective place.

6.2 Troubleshooting

If you experience any problem with Laser Hair Growth System, please refer to below information to try to resolve it:

Problem	Solution
Your laser helmet will not turn on	◆ The laser diodes can only be lit when the helmet is worn.Check whether the on/off buttons are working properly
Your laser helmet is turning off during use	◆ Make sure the helmet is worn correctly, or check if the smart sensing area on the helmet is working properly
Your laser helmet is not lighting up	◆ Contact agent to determine if you need to be shipped a replacement unit.
Your controller is not lighting up	◆ Contact agent to determine if you need to be shipped a replacement unit.

If you still have problems with your Laser Helmet, please contact agent.

Other Information

7.1 Technical Specifications

Product Name	Laser Hair Growth System
Common name	Laser hair growth system
Model	Laser helmet 552
Laser Wavelength	655nm±10nm
LED Wavelength	655nm±10nm
Number of Light Diodes (5mW)	352
Number of LED lights (5mW)	200
Treatment time	6/12 minutes
Type of Light	Low Level Laser Therapy (LLLT)
Laser Power for Classification	<5mW, Laser Class 3R
Input	100-240V
Battery Capacity	18650 battery ,5200mAh/7.4V (Lithium-ion battery)
Operating Environment Temperature	10°C~30°C (50°F~86°F)
Operating Environment Humidity	15%~90%
Operating Environment Pressure	70kPa~106kPa
Storage & Transportation Temperature	-10°C~60°C (14°F~140°F)
Storage & Transportation Humidity	15%~93%
Electrical Safety Classification	Class II, Type BF, IP22
Life Time	5 Years
Output mode	Pulse
Pulse frequency	2Hz
Pulse period	500ms

7.2 Disposal

DO NOT throw away the 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.

7.3 Warranty

From the date of the purchase within one year of the quality of the product itself free warranty (except for man-made).

Annex II: Manufacturer's EMC Statement

Guidance and manufacturer' s declaration – electromagnetic emissions		
Laser Helmet 552 is intended for use in the electromagnetic environment specified below. The customer or the user of the Laser Helmet 552 should assure that it is used in such an environment.		
Emissions	**Compliance**	**Electromagnetic environment-- guidance**
RF emissions CISPR 11	Group 1	Laser Helmet 552 uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	Laser Helmet 552 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 emissions IEC 61000-3-2	Class A	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complies	

Guidance and manufacturer' s declaration – electromagnetic immunity			
Laser Helmet 552 is intended for use in the electromagnetic environment specified below. The customer or the user of Laser Helmet 552 should assure that it is used in such an environment.			
Immunity test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment --guidance**
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±15 kV air	±8 kV contact ±15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrical fast transient/burst IEC 61000-4-4	±2kV for power supply lines ±1 kV for Input/output lines	±2kV for power supply lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1 kV Differential mode ±2 kV common mode	±1 kV Differential mode ±2 kV common mode	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0% UT; 0, 5 cycle g) At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% UT; 1 cycle and 70% UT; 25/30 cycles Single phase: at 0° 0% UT; 250/300 cycle	0% UT; 0, 5 cycle g) At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% UT; 1 cycle and 70% UT; 25/30 cycles Single phase: at 0° 0% UT; 250/300 cycle	Mains power quality should be that of a typical commercial or hospital environment. If the user of Laser Helmet 552 requires continued operation during power mains interruptions, it is recommended that Laser Helmet 552 be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE UT is the a.c. mains voltage prior to application of the test level			

Guidance and manufacturer' s declaration – electromagnetic immunity

Laser Helmet 552 is intended for use in the electromagnetic environment specified below. The customer or the user of the Laser Helmet 552 should assure that it is used in such an environment.

Immunity test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment – guidance**
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	3V	Portable and mobile RF communications equipment should be used no closer to any part of Laser Helmet 552 including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.
	6 Vrms in ISM and amateur radio bands between 0,15 MHz and 80MHz	6V	**Recommended separation distance** $d=[3,5/V_1]\times P^{1/2}$ $d=1.2\times P^{1/2}$ 80 MHz to 800 MHz $d=2.3\times P^{1/2}$ 800 MHz to 2.7 GHz
Radiated RF IEC 61000-4-3	10 V/m 80 MHz to 2.7 GHz	10 V/m	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). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,a should be less than the compliance level in each frequency range.b Interference may occur In the vicinity of equipment marked with the following symbol: ((•))

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic 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 Laser Helmet 552 is used exceeds the applicable RF compliance level above, the Laser Helmet 552 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the Laser Helmet 552.
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 and MODEL
Laser Helmet 552

Laser Helmet 552 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Laser Helmet 552 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Laser Helmet 552 as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	**Separation distance according to frequency of transmitter m**		
	150kHz to 80MHz $d=1.2\times P^{1/2}$	**80MHz to 800MHz** $d=1.2\times P^{1/2}$	**800MHz to 2,5GHz** $d=2.3\times P^{1/2}$
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 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.
NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.


QUALIFIED
CERTIFICATE
Inspector: PASS