



# Pro 12 LASERCOMB

# USER MANUAL

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Sydney, NSW 2000 Australia



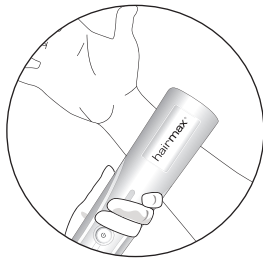
LEXINGTON INTERNATIONAL, LLC  
1040 Holland Drive | Boca Raton, Florida | 33487 | USA  
www.Hairmax.com

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LUH012L9EDXXX-01-0722

## TESTING FOR SENSITIVITY

Before beginning treatment, be sure to test your skin for sensitivity. You only need to do this once to test your skin for any reaction to light therapy.

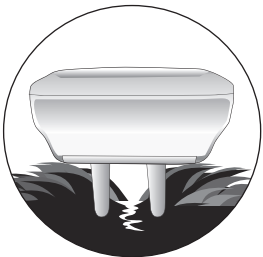


Turn on your laser device by pressing the power button once. Place your forearm with your palm facing upward under your laser device. Allow your arm to stay in the light for 2 minutes.

Turn your laser device off and set it aside. If you don't experience any reaction, proceed with the treatment instructions. If you see any reaction such as redness or rash, do not use your laser device. Contact customer service toll-free at the numbers provided below or your place of purchase.

## TREATMENT INSTRUCTIONS

After you have turned on your laser device, place it flat on your scalp so that both rows of the teeth are touching your scalp.



Start at your hairline. Move your laser device from front to back of scalp in a slow combing motion, pausing every 1/2 inch (1 cm) for 4 seconds. Do not lift your laser device off your scalp while combing from front to back. Next, lift your laser device off your scalp and start at a new position at the hairline.



Continue in this manner from front to back and then side to side until you cover your entire scalp with multiple passes.



Repeat these passes for the total treatment of 8 minutes for the Pro 12 LaserComb model.

## INTRODUCTION

**Introduction to Hairmax®**  
Hairmax is a home-use laser device that has been clinically proven to treat early to moderate stages of male and female pattern hair loss also known as hereditary or hormonal hair loss.

**Indications**  
Hairmax models are indicated to treat Androgenetic Alopecia, and promote hair growth in females who have Ludwig (Savin) I-4, II-1, II-2, or frontal patterns of hair loss and in males who have Norwood Hamilton Classifications of IIa to V and who both have Fitzpatrick Skin Types I to IV.

**How Hairmax works**  
Hairmax works by providing therapeutic laser energy to stimulate hair follicles. Hairmax should be used 3 times per week, spaced out every other day. For example, Monday, Wednesday, Friday. Hairmax should not be used more than the recommended treatment time per day. Clinical studies demonstrate that most users see benefits in as little as 16 weeks.

**Hairmax Results**  
Hairmax laser therapy has been proven in 7 clinical studies with over 460 men and women. In these clinical studies, over 90% of the participants experienced significant hair growth, on average, over 20 new hairs per square centimeter. Individual results may vary.

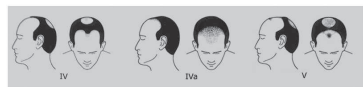
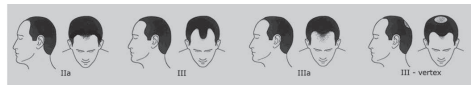
It is important that you read and understand the content of this user manual before using your laser device.

## WHO IS THE BEST CANDIDATE FOR Hairmax?

How do you know if Hairmax is right for you?  
Hairmax can be used by men and women with thinning hair (including color treated hair) or pattern baldness caused by a hereditary condition or hormonal changes. 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 shaded areas show the type of hair loss that can be treated with your laser device.

## CLASSIFICATION FOR MEN AND WOMEN

Norwood Hamilton Classification - Males



Ludwig-Savin Classification - Females



Hairmax has been clinically tested to treat hair loss as shown in the shaded areas above.

## GETTING STARTED

Your Hairmax comes with a rechargeable battery permanently installed. Read this manual completely before you start to use your laser device. The instructions in this user manual are intended for individuals with a minimum of an eighth grade education. Hairmax is safe for home use. The consumer is the intended operator of this equipment.

Use the Pro 12 LaserComb for 8 minutes per treatment, three treatments per week. The treatments should be spaced every other day, for example Monday, Wednesday, Friday. Do not use your laser device more than the recommended treatment time per day. Most users see benefits in as little as 16 weeks (based on clinical studies).

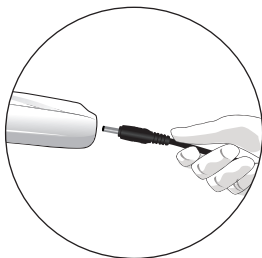


3 times per week

## CHARGING

Your laser device comes with a rechargeable battery permanently installed. When you receive your laser device, take all the parts out of the case. Remove the red safety label. You must charge your laser device for 2-3 hours before initial use.

Charge your Pro 12 LaserComb by placing the power cord directly into the laser device and the other end an electrical wall outlet. The indicator light on the power button will flash blue during the charging process. Once charging is complete, the blue light will stop flashing and remain constant.



During use, the indicator light will illuminate as a steady white light. When the battery needs to be recharged, the indicator light will start to flash. It will flash for 12 seconds then it will turn the lasers off. When this happens, charge your laser device as described above.

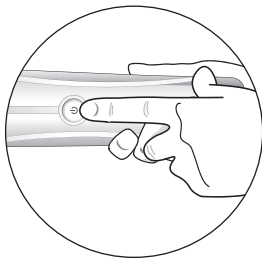
Your laser device will automatically turn off after approximately 11 minutes of use.

## PROPER USE

Pro 12 LaserComb should be used for 8 minutes.

Use a watch or clock to time your treatment.

To turn on, press and release the power button. The power button light will turn on.



Shine your laser device onto the palm of your hand and you will see that the laser light is on (do not look at the laser light directly).

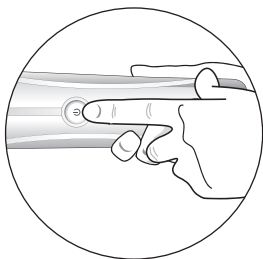
Do not use your laser device if it is damaged or defective, contact Hairmax customer service or your place of purchase.

If your laser device needs to be recharged during your treatment, allow it to fully charge before continuing your treatment. Do not turn on or use your laser device while it is charging.

If you have long hair, use your fingers to lift your hair out of the way while using your laser device to be sure that the laser energy reaches your scalp.



**IMPORTANT:** Do not lift your laser device off your head when moving from front to back until you complete the pass. Your laser device features a pair of comb teeth that part the hair so the light can more effectively reach the scalp. You will make a few complete passes over your scalp within the recommended treatment time.



Turn off your laser device by pressing the power button until indicator light turns off. Once your treatment is complete, charge your device using the charging procedure previously described.

## PLEASE NOTE:

It is important to move your laser device very slowly. Remember, you are bathing the scalp with laser light. If you move it too fast, the treatment will not achieve the optimal results to promote hair growth.

The total time required for treatment with the Pro 12 LaserComb is 8 minutes.

## TROUBLESHOOTING

**ANY ATTEMPT TO SELF-SERVICE YOUR DEVICE, UNLESS INSTRUCTED BY HAIRMAX CUSTOMER SERVICE, WILL VOID YOUR WARRANTY.**

Hairmax has advanced electronics to ensure that the device is working like it is supposed to and that the proper amount of laser energy is being delivered. If for some reason you are experiencing difficulties with your device, please try one of the tips below:

**If your Hairmax will not turn on**

- Make sure your device is fully charged

**If your Hairmax is turning off during use**

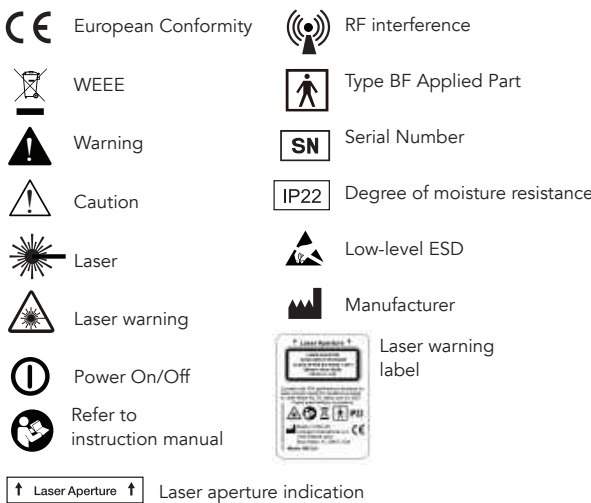
- Make sure your device is fully charged

**If your Hairmax will not turn off**

- Press and hold the power button for 4 seconds

If you have trouble understanding any of these instructions, contact customer service.

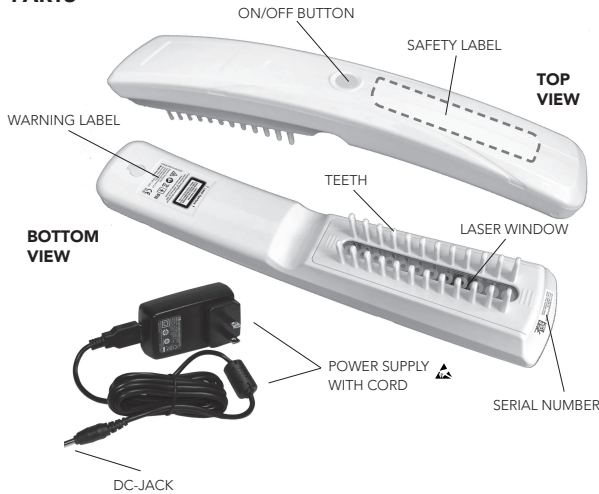
## SYMBOLS



## HOW TO MONITOR DEVICE ACTIVITY

Your device is manufactured in an ISO 13485 certified facility using the highest quality components. Your laser device should provide many years of trouble-free usage. When working properly, a therapeutic red laser light should shine from the laser window. The laser light does not diminish over time.

## PARTS



This is a harmless low-level ESD (Electrostatic Discharge) sensitive device. Please do not touch the charging contacts or USB-port. Touching the contacts or USB-port is not of the essential performance and will not cause a basic safety issue. If touching the contacts or USB-port causes the device to malfunction, reset your device by powering off and back on.

## WHAT IS INCLUDED



Notice: Entire LaserComb assembly is considered as a Type BF applied part.

## LASER PARAMETERS

Wavelength: 650nm +/- 10nm visible red light  
Laser Power for classification: <5mW CW  
Divergence: 36 mrad +/- 6 mrad  
Number of lasers: 12

This laser product is designated as Class 3R during all procedures of operation.

Note: Hairmax laser devices have no user-serviceable parts.

## USE CONDITIONS

Operating temperature/altitude/atmospheric pressure/humidity: 5°C to 35°C/0 to 2,000 m/80kPa to 106kPa/0% to 90%, relative humidity  
Storage & transportation temperature/humidity/atmospheric pressure: -20°C to 60°C/0% to 90%, relative humidity/50kPa to 106kPa  
Ingress of water or particulate matter: IP22  
Battery charging cycles: 300 cycles  
ROHS (restriction of hazardous substances): 2011/65/EU  
Device size and weight: 24.0 x 4.5 x 4.5 cm / 218 grams — 9.4 x 1.8 x 1.8 in / 7.7 ounces  
Age of use: Adult

## WARNING LABEL

Warning label

Serial number



## POWER SUPPLY SPECIFICATIONS

The power supply for your Hairmax can be used in the United States and Internationally. This power supply will adapt to all power supplies from 100 volt/60 Hz (US) to 240 volt/50 Hz. Only use the power supply and power cord provided by the manufacturer, any other power supply or power cord may damage your device.

WARNINGS

- Do not stare directly at the red laser light or its reflection in a mirror because it can temporarily irritate your eyes. If you stare at the light for too long, it could harm your eyes. Also, never use a magnifying glass when using Hairmax because it can cause temporary irritation to your eyes.
- Keep the Hairmax out of the reach of children, pets and pests.
- Do not drop your Hairmax in water because you may get an electrical shock. If your Hairmax gets damaged by water, contact customer service.
- If the cord is damaged on your Hairmax do not use the device because you could get an electrical shock. If the cord gets damaged, contact customer service.
- Do not use your Hairmax near any heated surfaces because this could cause the device not to work properly and may cause an electrical shock, contact customer service.
- Laser light - avoid direct eye exposure.
- This is a harmless low-level ESD (Electrostatic Discharge) sensitive device. Please do not touch the charging contacts or USB-port. Touching the contacts or USB-port is not of the essential performance and will not cause a basic safety issue. If touching the contacts or USB-port causes the device to malfunction, reset your device by powering off and back on.
- No modification of this equipment is allowed.
- This equipment has no user-serviceable parts. Do not attempt to modify or repair this equipment.
- Do not attempt to modify or service while the equipment is in use.
- If this equipment is modified, appropriate inspection and testing must be conducted to ensure continued safe use. Contact Hairmax customer service.
- In case of a serious incident, seek medical attention immediately.
- If you are experiencing any allergic reaction from handling or using the device, stop using the device immediately.
- Only use the power supply and power cord provided by the manufacturer, any other power supply or power cord may damage your device.

CAUTIONS

- If you are taking any medications or products that make you sensitive to light, you should test your Hairmax to make sure you do not have a reaction. Some of the things that can cause increased sensitivity to your Hairmax could be medicines for colds, allergies, pain medicine and drugs to treat infections. To test your Hairmax for sensitivity, turn the device on, hold the device on one spot, shining the light on your forearm. After two minutes, turn the device off and set aside. Look at the spot where you held the laser light over the next five minutes. If you see any reaction such as redness or rash, do not use your Hairmax and contact customer service for information on how to return your product and get a refund.
- Only use your Hairmax as directed. Do not try to change the way your Hairmax operates. Altering controls, adjustments, performance or procedures other than those specified herein may result in hazardous radiation (laser) exposure. Contact customer service.
- Never use acetone or other solvents on any part of your Hairmax. Use of solvents on the window can block the laser light from coming through.
- It is suggested to charge the device every 3 months even if it is not used.
- For assistance setting up, using or maintaining the device, or to report unexpected operations or events, contact the manufacturer.
- Do not place the power adapter where it is difficult to disconnect and where the cable may be stepped on.

RISKS

The laser device has been clinically tested on both men and women. In the clinical study for men, 5% of the men said they had itching or tingling from using the laser device. None of the women in the clinical study reported any of these side effects. If you have itching, tingling or any other side effect that bothers you, stop using your laser device and contact customer service.

MAINTENANCE

Your Pro 12 LaserComb is designed to last for many years. It does not require any maintenance other than periodic cleaning.

Your laser device is intended for indoor use only.

CLEANING YOUR HAIRMAX

- Keep your laser device clean.
- Turn off the laser device by pressing and holding the power button until the light turns off.
- Unplug the power cord from the device and from the electrical wall outlet.
- To clean the teeth more thoroughly, slide the teeth towards the top of your laser device and gently pull out. Clean with soap and water.
- Clean the laser window with a soft, slightly moistened cloth. Don't use any acetone or solvents.

DISPOSAL INSTRUCTIONS

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste.

Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office or your household waste disposal service.

ELECTRICAL SAFETY

Basic safety precautions should be observed when using this, or any other electrical device, especially when children are present.

- WARNING:** Keep away from water. Contact with water may result in an electrical shock.
- To reduce the risk of hazard by electric shock:
- Do not use while bathing.
- Do not place or store your Hairmax where it can fall or be pulled into a tub or sink.
- Do not expose your Hairmax to running water, or drop into water or any other liquid. If your Hairmax falls into water, unplug it immediately from the power outlet.
- If using your Hairmax near water, the use of an electrical outlet protected by a Ground Fault Circuit Interrupter is recommended.
- Do not dispose of your Hairmax in a fire or store in high temperatures greater than 140°F (60°C).
- Do not turn on or use your Hairmax while it is charging.
- Power supply cannot be separated during use. Do not position the equipment in a manner that will make it difficult to plug in or remove the power cord.
- If you have any problems with this device, such as setting up, maintaining or using, please contact customer service.
- Please report to customer service if any unexpected operation or events occur.
- After drop/shock, that may cause changes in the performance, please contact customer service.
- Be careful, do not put the power cord around your neck, it may cause strangulation.
- Keep the device out of the reach of children/pets to avoid inhalation or swallowing of small parts.
- Do not use the device if it is damaged in any way. The continuous use of a damaged unit may cause injury, improper results, or serious danger.
- The device should be used only with the accessories recommended for use by the manufacturer.
- When not in use, store the device with the adapter in a dry room and protect it against extreme moisture, heat, lint, dust and direct sunlight.

WARRANTY

ANY ATTEMPT TO SELF-SERVICE YOUR DEVICE, UNLESS INSTRUCTED BY LEXINGTON INTERNATIONAL CUSTOMER SERVICE, WILL VOID YOUR WARRANTY

To validate your warranty, please register online at: [www.Hairmax.com/warranty](http://www.Hairmax.com/warranty)

THE DEVICE IS WARRANTED BY LEXINGTON INTERNATIONAL, LLC ("LEXINGTON") AGAINST DEFECTS IN MATERIALS OR WORKMANSHIP FOR 12 MONTHS FROM DATE OF PURCHASE. IF THIS PRODUCT IS DETERMINED TO BE DEFECTIVE, LEXINGTON WILL REPAIR OR REPLACE IT, AT ITS OPTION, AT NO CHARGE DURING THE WARRANTY PERIOD. THE WARRANTY PERIOD IS NOT EXTENDED IF LEXINGTON REPAIRS OR REPLACES THE PRODUCT. AFTER THE WARRANTY PERIOD, THE USER MUST PAY FOR ALL PARTS AND LABOR CHARGES. IF THE PRODUCT IS REPAIRED OR REPLACED, EITHER WITHIN OR OUTSIDE THE WARRANTY PERIOD, LEXINGTON RESERVES THE RIGHT TO PROVIDE EQUIVALENT PARTS IN DIFFERENT COLORS TO YOUR ORIGINAL PRODUCT.

THIS WARRANTY DOES NOT COVER DAMAGES CAUSED BY ACTS OF GOD, MISUSE, NEGLIGENCE, ACCIDENT, MODIFICATION OF OR TO ANY PART OF THE PRODUCT. THIS WARRANTY DOES NOT COVER DAMAGE DUE TO IMPROPER OPERATION OR MAINTENANCE, CONNECTION TO IMPROPER VOLTAGE SUPPLY, OR ATTEMPTED REPAIR BY ANYONE OTHER THAN LEXINGTON. THIS WARRANTY IS VOID IF PRODUCT IS TAMPERED WITH.

TO OBTAIN WARRANTY SERVICE, YOU MUST CALL LEXINGTON INTERNATIONAL CUSTOMER SERVICE TO REQUEST AN AUTHORIZATION NUMBER. YOU MUST DELIVER THE PRODUCT FREIGHT PREPAID, IN EITHER ITS ORIGINAL PACKAGING OR PACKAGING AFFORDING AN EQUAL DEGREE OF PROTECTION, TOGETHER WITH YOUR NAME, ADDRESS AND AUTHORIZATION NUMBER, TO:

Lexington International, LLC, 1040 Holland Drive, Boca Raton, FL 33487, USA

LEXINGTON INTERNATIONAL, LLC SHALL NOT BE LIABLE FOR ANY SPECIAL, PUNITIVE, INCIDENTAL OR CONSEQUENTIAL DAMAGES THAT ARE DIRECTLY OR INDIRECTLY RELATED TO THE USE OF, OR THE INABILITY TO USE, THE PRODUCT, EVEN IF LEXINGTON INTERNATIONAL, LLC HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTUOUS ACTION. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF SPECIAL, PUNITIVE, INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. THIS WARRANTY IS THE ONLY WRITTEN OR EXPRESS WARRANTY GIVEN BY LEXINGTON INTERNATIONAL, LLC. ALL IMPLIED WARRANTIES FOR THE PRODUCT, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN TIME TO THE TERM OF THIS WARRANTY. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

GOVERNING LAW; JURISDICTION AND VENUE: THIS WARRANTY, AND THE TERMS OF SALE OF THE PRODUCT, SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF FLORIDA WITHOUT REGARD TO PRINCIPLES OF CONFLICTS OF LAWS. THE PARTIES IRREVOCABLY SUBMIT AND CONSENT TO THE SOLE AND EXCLUSIVE JURISDICTION AND VENUE OF THE FLORIDA STATE COURTS IN AND FOR PALM BEACH COUNTY, FLORIDA, U.S.A. AND THE FEDERAL COURTS IN AND FOR THE SOUTHERN DISTRICT OF FLORIDA, U.S.A. THE PARTIES AGREE NOT TO RAISE THE DEFENSE OF FORUM NON CONVENIENS.

**WARRANTY OUTSIDE THE U.S.A.**  
THE WARRANTY ON THIS PRODUCT SHALL COMPLY WITH APPLICABLE LAW WHEN SOLD BY AN AUTHORIZED DEALER TO A CONSUMER OUTSIDE OF THE UNITED STATES, INCLUDING EXTENDED WARRANTY COVERAGE PERIODS AS MAY BE LEGALLY REQUIRED IN SUCH JURISDICTIONS.

AUTHORIZED REPRESENTATIVE IN EUROPE (REGULATORY AFFAIRS ONLY):  
EMERGO EUROPE, PRINSESSEGRACHT 202514 AP THE HAGUE THE NETHERLANDS.  
TEL: +31 (0) 70 345-8570 FAX: +31 70-346-7299

UNITED KINGDOM

If you have trouble understanding any of these instructions contact customer service.

Corporate Office – Customer Service – Warranty Repairs  
Toll-free number: **0808-134-9868** Monday - Friday 9 AM - 5 PM ET  
E-mail: [info@Hairmax.com](mailto:info@Hairmax.com).

AUTHORIZED REPRESENTATIVE IN EUROPE (REGULATORY AFFAIRS ONLY): EMERGO EUROPE, PRINSESSEGRACHT 202514 AP THE HAGUE THE NETHERLANDS.  
TEL: +31 (0) 70 345-8570 FAX: +31 70-346-7299

Patent [www.Hairmax.com/patents](http://www.Hairmax.com/patents)  
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FRANCE

Si vous avez des difficultés pour comprendre l'une de ces instructions, contactez notre service client.

**Siège social - Service client - Réparations sous garantie**  
Appel gratuit : **805-081-824** Lundi - vendredi 9:00 - 17:00 ET  
E-mail : [info@Hairmax.com](mailto:info@Hairmax.com).

REPRESENTANT AUTORISE EN EUROPE (AFFAIRES REGLEMENTAIRES UNIQUEMENT)  
EMERGO EUROPE, PRINSESSEGRACHT 202514 AP THE HAGUE THE NETHERLANDS.  
TEL: +31 (0) 70 345-8570 FAX: +31 70-346-7299

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ESPAÑA

Si tiene problemas para entender cualquiera de estas instrucciones comuníquese con nuestro departamento de servicio al cliente.

**Oficina corporativa - Servicio al cliente - Reparaciones en garantía**  
Línea Telefónica Gratuita: **900-838-164** Lunes - Viernes 9 AM - 5 PM (hora del Este)  
E-mail: [info@Hairmax.com](mailto:info@Hairmax.com).

REPRESENTANTE AUTORIZADO EN EUROPA (SOLO ASUNTOS REGULATORIOS): EMERGO EUROPE, PRINSESSEGRACHT 202514 AP LA HAYA PAÍSES BAJOS.  
TEL: +31 (0) 70 345-8570 FAX: +31 70-346-7299

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ITALIA

In caso di problemi di comprensione di queste istruzioni contattare il servizio clienti al numero indicato di seguito.

**Sede aziendale – Servizio clienti – Riparazioni in garanzia**  
Telefono: **800 694 205** Dal lunedì al venerdì dalle 9.00 alle 17.00 ora italiana  
E-mail: [info@Hairmax.com](mailto:info@Hairmax.com).

RAPPRESENTANTE AUTORIZZATO IN EUROPA (SOLO AFFARI NORMATIVI): EMERGO EUROPE, PRINSESSEGRACHT 20, 2514 AP L'AIA, PAESI BASSI.  
PHONE: +31 (0) 70 345-8570 FAX: +31 70-346-7299

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PORTUGAL

Se tiver algum problema na compreensão destas instruções, contactar a assistência ao cliente.

**Sede - Assistência ao cliente - Reparações em garantia**  
Chamada gratuita: **800-180-388** De segunda a sexta-feira das 9:00 às 17:00 ET  
E-mail: [info@Hairmax.com](mailto:info@Hairmax.com)

REPRESENTANTE AUTORIZADO NA EUROPA (UNICAMENTE PARA ASSUNTOS JURÍDICOS): EMERGO EUROPE, PRINSESSEGRACHT 202514 AP HAIA, PAÍSES BAIXOS.  
TEL: +31 (0) 70 345-8570 FAX: +31 70-346-7299

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ELECTROMAGNETIC EMISSIONS GUIDANCE

Guidance and manufacturer's declaration – electromagnetic emissions

The Pro 12 LaserComb is intended for use in the electromagnetic environment specified below. The customer or the user of the Pro 12 should assure that it is used in such an environment.

Emission test	Compliance	Electromagnetic environment-guidance
RF emissions CISPR 11	Group 1	The Pro 12 LaserComb 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	The Pro 12 LaserComb 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	Compliance	

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) the device must accept any interference received, including interference that may cause undesired operation.

ELECTROMAGNETIC IMMUNITY GUIDANCE

Guidance and manufacturer's declaration – electromagnetic immunity

The Pro 12 LaserComb is intended for use in the electromagnetic environment specified below. The customer or the user of the Pro 12 LaserComb 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	± 6 kV contact ± 8 kV air	± 6 kV contact ± 8 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  ± 1kV for input/output lines	± 2kV for power supply lines Non applicable	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1kV line(s) to line(s) ± 2kV line(s) to earth	± 1kV differential mode Non applicable	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	<5% UT (>95% dip in UT) for 0.5 cycle  40% UT (60% dip in UT) for 5 cycles  70% UT (30% dip in UT) for 25 cycles  <5% UT (>95% dip in UT) for 5 sec	<5% UT (>95% dip in UT) for 0.5 cycle  40% UT (60% dip in UT) for 5 cycles  70% UT (30% dip in UT) for 25 cycles  <5% UT (>95% dip in UT) for 5 sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of the Pro 12 LaserComb requires continued operation during power mains interruptions, it is recommended that the Pro 12 LaserComb be powered from an uninterruptible power supply or a battery.
Power frequency (50Hz/60Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	The Pro 12 LaserComb 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.			

ELECTROMAGNETIC IMMUNITY GUIDANCE

Guidance and manufacturer's declaration – electromagnetic immunity

The Pro 12 LaserComb is intended for use in the electromagnetic environment specified below. The customer or the user of the Pro 12 LaserComb 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	3 Vrms	Portable and mobile RF communications equipment should be used no closer to any part of the Pro 12 LaserComb including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	<b>Recommended separation distance:</b> d = 1,2 √P d = 1,2 √P 80 MHz to 800 MHz d = 2,3 √P 800 MHz to 2,5 GHz  Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, <sup>a</sup> should be less than the compliance level in each frequency range. <sup>b</sup> Interference may occur in the vicinity of equipment marked with the following symbol:
NOTE1 At 80 MHz and 800 MHz, 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.			

- <sup>a</sup> 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 Pro 12 LaserComb is used exceeds the applicable RF compliance level above, the Pro 12 LaserComb should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the Pro 12 LaserComb.
- <sup>b</sup> Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

ELECTROMAGNETIC DISTANCE RECOMMENDATIONS

Recommended separation distance between portable and mobile RF communications equipment and the Pro 12 LaserComb.

The Pro 12 LaserComb is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Pro 12 LaserComb can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Pro 12 LaserComb 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)		
	150 kHz to 80 MHz d =1,2√P	80 MHz to 800 MHz d =1,2√P	800 MHz to 2.5 GHz d =2,3√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 metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer. 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.			