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Corporate Office - Customer Service - Warranty Repairs Lexington Intl., LLC 1040 Holland Drive Boca Raton, Florida 33487 USA

Direct line +1 561-417-0200 United States and Canada 1-866-527-3726 United Kingdom 0808-134-9868 Australia 1-800-937-358 Monday - Friday 9 AM - 5 PM ET

Authorized Representative in Europe (Regulatory Affairs Only):

EC **REP**

EMERGO EUROPE rinsessegracht 20 2514 AP The Hague

Tel: +31 (0) 70 345-8570 Fax: +31 70 346-7299

Australian Sponsor: Emergo Australia Level 20, Tower II Darling Park, 201 Sussex Street Sydney, NSW 2000 Australia

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TESTING HAIRMAX FOR SENSITIVITY

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

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

Turn your HairMax 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 HairMax. Contact Customer Service toll-free at the numbers provided below or your place of purchase.

TREATMENT INSTRUCTIONS

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



Start at your hairline. Move your HairMax from front to back of scalp in a slow combing motion pausing every ½ inch (1cm) for 4 seconds. Do not lift your HairMax off your scalp while combing from front to back. Next, lift your HairMax 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 model.



SYMBOLS

Z

C E European Conformity

WEEE

Warning

Caution



RF interference



Type BF Applied Part

Serial Number SN

Degree of moisture resistance Low-level ESD

Laser warning

Power On/Of

† Laser Aperture † Laser aperture indication

Laser warning label

HOW TO MONITOR DEVICE ACTIVITY

Your HairMax is manufactured with the highest quality parts and standards and certified to ISO13485 specifications. Your HairMax 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



INTRODUCTION

Introduction to HairMax®

Your 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.

How HairMax works

HairMax works by providing laser energy to stimulate hair follicles. HairMax should be used 3 times per week, spaced out every other day. For example, Monday, Wednesday, Friday. The HairMax should not be used more than the nended 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 129 new hairs per square inch (over 20 new hairs per square centimeter)

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

WHO IS THE BEST CANDIDATE FOR HAIRMAX?

How do you know if the HairMax LaserComb is right for you? Your 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 HairMax.

CLASSIFICATION FOR MEN AND WOMEN Norwood Hamilton Classification - Males



udwig-Savin Classification - Females



The HairMax has not been clinically tested for hair loss outside of the shaded areas.

GETTING STARTED

Your HairMax comes with a rechargeable battery permanently installed. Read this manual completely before you start to use your HairMax. 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 HairMax Pro 12 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 HairMax more than the recommended treatment time per day. Most users see benefits in as little as 16 weeks (based on clinical studies).





When you receive your HairMax, take all the parts out of the case. Remove the red safety label. You must charge your HairMax for 2-3 hours before initial use

CHARGING

Charge your HairMax by placing the power cord directly into the HairMax 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 HairMax as described above



Your HairMax will automatically turn off after approximately 11 minutes of use

PROPER USE

The HairMax Pro 12 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 HairMax 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 HairMax if the device is damaged or defective, contact HairMax customer service or your place of purchase.

If your device needs to be recharged during your treatment, allow the device to fully charge before continuing your treatment. Do not turn on or use your

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

IMPORTANT: Do not lift your HairMax off your head when moving from front to back until you complete the pass. Your HairMax 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 HairMax 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 HairMax 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 HairMax Pro 12 is 8 minutes.

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

- Typically indicates your HairMax needs to be charged.
- Make sure your device is fully charged by using the charging procedure previously described.
- Your HairMax should not be powered on when the power cord is plugged in.

If your HairMax is turning off during use

- Typically indicates your HairMax needs to be charged.
- Make sure your device is fully charged by using the charging procedude previously described. Your HairMax should not be powered on when the power cord is plugged in.

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

WHAT IS INCLUDED







with Cord Manual

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

LASER PARAMETERS

Wavelength: 655nm +/- 10nm visible red light Laser Power for classification: <5mW CW Divergence: 57 mrad Number of lasers: 12

This Laser Product is designated as Class 3R during all procedures of

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

USE CONDITIONS

MTBF (mean time between failures): 10,000 hours at 25°C ambient temperature 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. If outlets in your country have different plugs than the power supply that comes with the HairMax, use an inexpensive plug adapter not supplied with the 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 irritatio to vour eves.
- ▲ Keep the HairMax out of the reach of children and pets. ▲ 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 port. Touching the contacts or port is not of the essential performance and will not cause a basic safety issue. If touching the contacts or port causes the device to malfunction, reset your device by powering off and back on.
- No modification of this equipment is allowed. A 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

CAUTIONS

- $\underline{\Lambda}$ 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 our customer service information on how to return to place of purchase 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
- A 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

RISKS

HairMax 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 HairMax. 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 HairMax and contact

MAINTENANCE

HairMax is designed to last for many years. It does not require any maintenance other than periodic cleaning

Your HairMax is intended for indoor use only

WARRANTY

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

To validate your warranty please register online at Hairmax.com/

THE HAIRMAX IS WARRANTED BY LEXINGTON INTERNATIONAL, LLC ("MANUFACTURER") AGAINST DEFECTS IN MATERIALS OR WORKMANSHIP FOR 24 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

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

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 HAIRMAX 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 AND ADDRESS, TO:

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

LIMITATION OF LIABILITY; INDEMNITY: EXCEPT AS EXPRESSLY SET FORTH ABOVE, LEXINGTON INTERNATIONAL, LLC SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES THAT ARE DIRECTLY OR INDIRECTLY RELATED TO THE USE OF, OR THE INABILITY TO USE, THE HAIRMAX, 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 INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO

GOVERNING LAW: THE USAGE OF THE HAIRMAX AND THE INTERPRETATION OF ITS TERMS SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF FLORIDA APPLICABLE TO AGREEMENTS NEGOTIATED EXECUTED AND PERFORMED WHOLLY AND SOLELY WITHIN THE STATE OF FLORIDA. THE PARTIES AGREE THAT THE STATE OF FLORIDA'S CONFLICTS OF LAWS RULES SHALL NOT APPLY TO THIS AGREEMENT OR ANY TRANSACTION PERFORMED BY OR UNDER THIS AGREEMENT.

JURISDICTION AND VENUE: 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.

AUTHORIZED REPRESENTATIVE IN EUROPE (REGULATORY AFFAIRS ONLY): EMERGO EUROPE, PRINSESSEGRACHT 20, 2514 AP THE HAGUE THE NETHERLANDS. TEL: +31 (0) 70 345-8570 FAX: +31 70-346-7299

ELECTROMAGNETIC EMISSIONS GUIDANCE

Guidance and manufacturer's declaration electromagnetic emissions

The Pro 12 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 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 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

Immunity test IEC 60601

The Pro 12 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.

Compli- Electromagnetic environment-quidance

	test level	ance level		
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 including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the	
Radiated RF		3 V/m	transmitter.	
IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz		Recommended separation distance: $d = 1,2 \sqrt{P}$ $d = 1,2 \sqrt{P}$ 80 MHz to 800 MHz $d = 2,3 \sqrt{P}$ 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,* 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:	

NOTE1 At 80 MHz and 800 MHz, the higher frequency range applies. NOTE2 These guidelines may not apply in all situations. Electromagnetic affected by absorption and reflection from structures, objects and people

- 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 electromac 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 is used exceeds the applicable RF compliance level above, the Pro 12 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. Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

CLEANING YOUR HAIRMAX

- Keep your HairMax clean
- Turn off the Hairmax by pressing and holding the power button until the light turns off.
- Unplug the power cord from the device and from the electrical
- To clean the teeth more thoroughly, slide the teeth towards the top
- of your HairMax 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 ▲ Do not expose your HairMax to running water, or drop into water
- or any other liquid. If your HairMax falls into water, unplug it nediately 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. A 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.
- A If you have any problems with this device, such as setting up, maintaining or using, please contact customer service.
- A Please report to customer service if any unexpected operation or
- 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
- ▲ 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. Never place any heavy objects on the storage case.

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

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

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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.cor

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

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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)

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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In caso di problemi di comprensione di queste istruzioni contattare il servizio clienti al

Sede aziendale – Servizio clienti – Riparazioni in garanzia Telefono: +1 561-417-0200 Dal lunedì al venerdì dalle 9.00 alle 17.00 ora italiana F-mail: info@hairmax cor

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

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

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

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 immunity

The Pro 12 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.

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 requires continued operation during power mains interruptions, it is recommended that the Pro 12 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 power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

ELECTROMAGNETIC DISTANCE RECOMMENDATIONS

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

The Pro 12 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Pro 12 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Pro 12 as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter	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

NOTE2 These guidelines may not apply in all situations. Electromagnetic propagation is

affected by absorption and reflection from structures, objects and people