



# elysion

HIGH POWER LASER DIODE PLATFORM FOR HAIR REMOVAL



 **COCOON**UK  
MEDICAL

[www.cocoonmedical.co.uk](http://www.cocoonmedical.co.uk)



## MAXIMUM SAFETY & EFFICACY

ElySION utilises the most advanced and high quality diode laser technology. The laser works by means of the selective photothermolysis principle, delivering energy to selectively heat the melanin and destroy the hair follicles without damaging the adjacent skin.

With integrated contact cooling: the “crystal freeze system” it keeps the skin surface cool and protected at all times for maximum patient comfort.

## VERSATILITY

ElySION offers two modes of operation, Static and Dynamic. Static delivers high energy singles pulses for maximum power whilst Dynamic modes uses multiple lower energy to stack pulses ( up to 15 Hz) for painless treatment suitable for all skin types.

## TWO OPERATING MODES

The combination of the two operating modes allows application to small and large areas of skin, giving excellent results for first sessions (high density thick hair) or later sessions (residual, finer and less dense hair).

## MULTIDISCIPLINARY PLATFORM

ElySION is a diode laser platform that allows different wavelengths to be chosen in a single device, giving it versatility and extreme precision.

**755nm:** effective on fair skins, allowing the finest hair follicles to be permanently removed, including the residual hairs of the last sessions.

**810nm:** indicated to work on all skin phototypes, as well as all types of hair.



# How does ElySION work?

---

## THE ELYSION PLATFORM

Effective hair removal will depend on the characteristics of the skin and the hair, on the type of energy source used, the amount of energy emitted, and the way in which this energy is emitted.

The ElySION platform is designed to work on all skin phototypes and all kinds of hair - helping to work both in the first session, with high density of hair, and in the last session with residual hair.

The way in which it works (static and dynamic mode) allows you to work with high repetition and high energies with a very short pulse duration, differentiating itself from other devices on the market - both in technology and results. ElySION is one of the fastest lasers on the market with an ability to work at 15 pulses per second.

## PAINLESS TREATMENT

Combining the Dynamic mode operation and 'Crystal freeze' skin cooling ElySION offers truly painless treatment for maximum patient comfort.

## CONDITIONING FACTORS

The skin phototype is one of the most important factors with respect to achieving best results with the minimum number of sessions.

According to the Fitzpatrick scale, there are six different phototypes (I-VI), and the fairest skins are those that accept a greater amount of energy with the least risk of undesired effects. Darker skin phototypes are therefore the most highly limiting ones for certain types of emission.

## LASER ACTUATION

Laser hair removal works by means of selective photothermolysis which is based on the selective destruction of the hair follicle, protecting, as much as possible, the surrounding structures: the epidermis and the dermis.

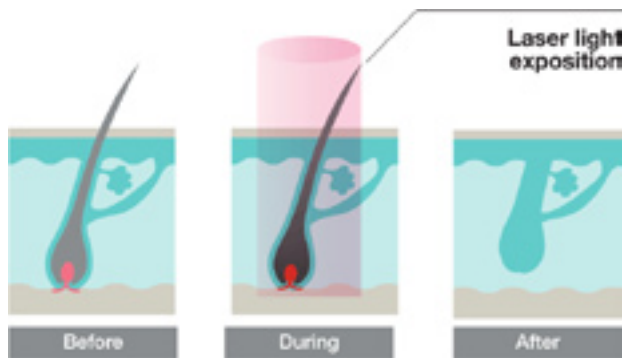
This is achieved by using high-energy light pulses at wavelengths which are selectively absorbed by the chromophore target "melanin" with emission times lower than the thermal relaxation time of the hair follicle.



# ElySION Technology

## LARGE SURFACE AREA

With a surface area of 90 mm<sup>2</sup> (spot 10x9), this handpiece has been designed to work on all kinds of areas.



Unlike other lasers on the market, the ElySION platform delivers a square pulse, meaning that the energy is evenly distributed in each pulse and eliminating the loss of energy during the shot.

Applicator peak power	Work mode	Fluence	Pulse duration
755 nm	1700W	static	20 J/cm <sup>2</sup>
		dynamic	10 J/cm <sup>2</sup>
810 nm	2000W	static	20 J/cm <sup>2</sup>
		dynamic	10 J/cm <sup>2</sup>
810 nm	1000W	static	20 J/cm <sup>2</sup>
		dynamic	10 J/cm <sup>2</sup>

Static: until 3 Hz | Dynamic: until 15 Hz

## CRYSTAL FREEZE

ElySION utilises the patented “Crystal Freeze” technology. This is a cooling system for the tip of the handpiece based on the TRT (thermal relaxation time) which is the time required to reduce the temperature generated by the light emission.

“Crystal Freeze” is a safety system that protects the skin in addition to providing a feeling of comfort. It has a parallel effect, as it prevents the increase of the epidermal heat at the same time that the pulses are delivered, enabling the area to be cooled during the delivery of the pulse.



This exclusive system works by maintaining a constant temperature of 5°C at the tip of the handpiece irrespective of the hours it has been used and the temperature of the room.

# Intuitive & Versatile

---

## MAXIMUM VERSATILITY

The ElySION platform works automatically by adapting the pulse length according to the programmed Joules for each skin phototype. There are two available working modes:

**Static:** delivers high fluences of energy in short pulses. Indicated to work in latter sessions and to treat residual hair.

**Dynamic (pain free mode):** the energy is administered at a low density but in a continuous way within a large application area (10 cm<sup>2</sup>). during a specific period of time. Indicated to treat patients with low pain threshold, first sessions and high density of hair.

The dynamic mode means that it can be used in two different ways:

**Programming the maximum number of deliveries per square.**

**Programming the light administration time per square.**

## INTUITIVE INTERFACE

ElySION has an intuitive interface that helps reduce the learning period, allowing the user to achieve high productivity from day one.



The device also has visual fields to identify the working frequency (Hz), the Joules delivered in each pulse and the number of pulses per square centimeter, the pulse duration, room temperature, and wavelength.

Easy to use touch screen, with guiding mode which helps the user throughout the process.





## Clinical Research

---

ElySION has been designed and manufactured by a team of highly qualified experts whom thanks to their practical experience, offer objective and quantifiable tests on the efficiency of our machines.

Our clinical research unit conducts in vivo studies of therapeutic response levels to the equipment developed by our R&D department, as well as to prepare suitable application protocols to ensure the best results.

Designed under strict safety controls and taking into account all the variables that influence correct skin stimulation, ElySION offers the highest guarantees of efficacy and safety in all our treatments.

The criteria used for the development of this equipment are based on objective tests controlled and carried out by our experienced clinical department. ElySION is a medical grade laser with Medical CE certification.

### TECHNICAL SPECIFICATIONS

#### BASIC OPERATIONS / EQUIPMENT

TYPE OF EQUIPMENT: DIODE LASER DEPILATION  
LASER EMISSION: DIRECT BY QUARTZ PRISM

#### TECHNICAL CHARACTERISTICS

SURFACE OF THE APPLIER: SPOT 10X9  
MAX PEAK POWER: 1000W, 1700W AND 2000W  
WAVELENGTH: 755NM - 810NM  
MAXIMUM ENERGY: 140 J/MAX  
FLUENCE: 120 J/CM<sup>2</sup>  
PULSE DURATION: 5-400 MS

#### POWER SUPPLY

POWER SUPPLY: SINGLE PHASE, 100-240V  
NETWORK FREQUENCY: 50-60 HZ  
MAXIMUM POWER: 1600W

#### REGULATION

MDD DIRECTIVE: CLASS IIA  
CLASS, ACCORDING TO IEC: 60825-1 CLASS IV LASER  
CLASS, ACCORDING TO 60601-1: CLASS I, TYPE BF

#### PHYSICAL CHARACTERISTICS

DIMENSIONS: 600 X 450 X 450MM  
WEIGHT: 38KG  
SCREEN: TOUCHSCREEN 10, 4 "  
WORK RANGE: 18-30 °C | 2-50 °C | 90% HUMIDITY  
(NON-CONDENSING)



# ElySION Treatment Results

---



Phototype II : 755nm Pro Mode : Dynamic



Phototype III : 810nm Pro Mode : Dynamic



BEFORE

AFTER 1 DAY

AFTER 1 MONTH

AESTHETIC TECHNOLOGY BY



Cocoon Medical UK

t: +44 (0) 1554 700 040 | e: [info@cosmeditech.com](mailto:info@cosmeditech.com)

[www.cocoonmedical.co.uk](http://www.cocoonmedical.co.uk)

[www.cosmeditech.com](http://www.cosmeditech.com)

