

EXCELSIOR

LIVE THE EXPERIENCE

OPT LED TECHNOLOGY 3.0
NEW ERA IN PERMANENT HAIR
REMOVAL TECHNOLOGIES



legolaser
technology



THE MOST REVOLUTIONARY AND INNOVATIVE TECHNOLOGY FOR PERMANENT HAIR REMOVAL

The new Excelsior is the result of the continuous searching for maximum efficiency in hair removal systems (high light energy through lower energy consumption), based on high power **OPT LED technology**.

HOW LED TECHNOLOGY WORKS?

OPT LED technology for hair removal is based on **LED chips** (made in USA) as a high-power LED light source, which emits an optimized wavelength between 755 nm to 880 nm, acting with great effectiveness on melanin of the hair follicle for the consequent permanent hair removal.

OPT LED technology provides **greater energy efficiency, that is, less energy consumption** is required to produce that high fluence.



TECHNICAL ADVANTAGES OVER OTHER TECHNOLOGIES

01 DURABILITY

LED technology life lasting provides **more durability** because the structure of LED chips suffers much less deterioration, thanks to the lower temperature accumulated inside the handle. The new Excelsior is capable to perform out **up to 100 million shots**, maintaining its **useful life for a minimum period of 5 years**.

02 EASY MAINTENANCE

The **low maintenance cost of the new Excelsior (does not need any consumables)**, as well as its optimal operation (without downtime between patient and patient), provides an easy and low-cost maintenance service, allowing much **higher profitability** average than existing hair removal systems in the market. Likewise, unlike diode lasers, due to the differentiated area that each LED chip takes inside the handle structure, the **failure of one of the chips does not affect the operation of the rest**.

03 BIG SPOT SIZE

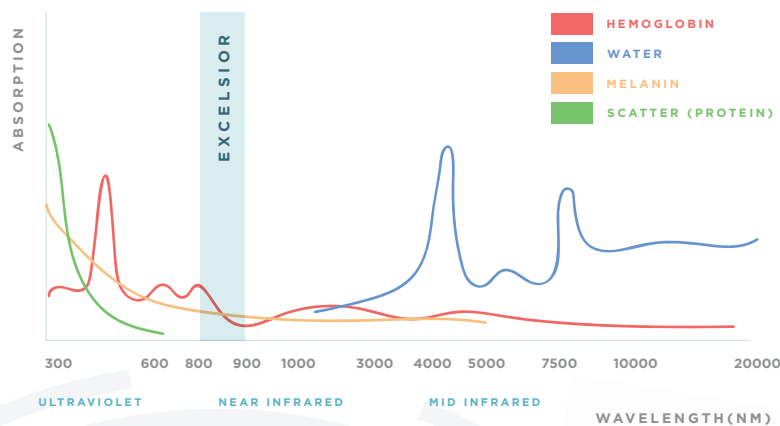
The new Excelsior fits a **large spot 17 x 22mm** (3.74 cm²) thanks to which it delivers a regular and clear energy that reduces treatment times.

04 HIGH SHOOTING FREQUENCY

Thanks to Excelsior frequency (1-10 Hz) it makes the device **one of the fastest light systems** used in hair removal.

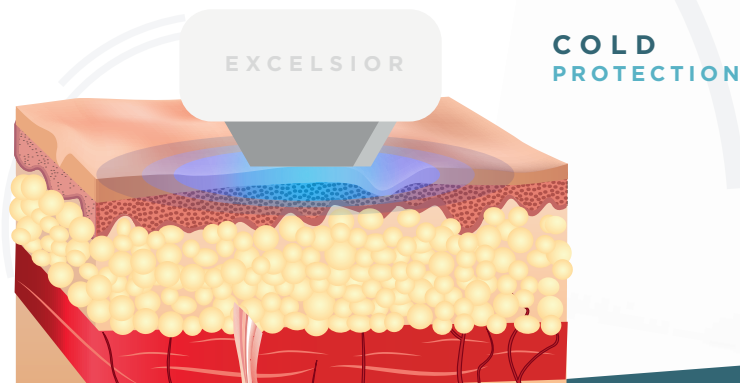
05 OPTIMISED WAVELENGTH

The LED technology incorporated in the Excelsior can emit infrared light with a continuous **wavelength spectrum of 755 - 880 nm**, which is mainly absorbed by the melanin of the hair follicle, which results are a **highly effective permanent hair removal**. Thanks to the broad spectrum of light, it can be applied to all photo types, and in all types of hair, even in residuals.



06 EXCELLENT COOLING

The broad spot of the sapphire crystal **ensures high skin cooling**, between 1° and -5° (adjustable by software), which provides greater safety (lower risk of burn due to overheating), and less discomfort for the patient during treatment.



07 MINIMUM DIVERGENCE OF LED LIGHT

Due to the **reduce angle of divergence** of LED light (less than 15%), we get a better penetration of the light energy in the skin (less emission divergence than other systems), thus, we access to more internal skin levels, being able to reach the deeper follicles hairs.

MAIN TECHNICAL CHARACTERISTICS

HIGH POWER FOR AN EXCELLENT CLINIC RESULT

ENERGY POWER OF 1,200W OBTAINED BY 12 LED CHIPS (MADE IN USA) OF 100W EACH.

Due to the small size of the chips, they can be compacted in an optimized way inside the handle to achieve a higher power density.

If we compare the energy density between conventional lasers and the new OPT LED technology, we observe that the **energy density of the LED light is up to 60-70% higher.**



SMART SOFTWARE SYSTEM

The software of the new Excelsior allows us to work in **four treatment modes**: SHR (scanning), static, continuous, and expert. As such a way, we have different options for different operational situations. The software system allows us to perform an **advanced adjustment of the equipment** (parameter customization), through which we can manage the use of the equipment in a personalized way.

On the other hand, the software system holds an **energy calibration function**, which allows an accurate and effective fluence emission for any type and treatment area.

Finally, the software system gives us the possibility of **WIFI connection**, which allows remote access to the equipment for a possible remote check of the parameters.

COOLING SYSTEM ICE-TEC

Thanks to the **powerful Ice - Tec cooling system**, achieved by the installation of latest technology thermal cells, we ensure a constant feeling of comfort during treatment such as more efficient skin protection against high energy delivery.

Likewise, thanks to the powerful cooling system, an **operating temperature between -5 and -15 degrees** is achieved, which guarantees optimum performance of the OPT LED.

In addition, the spot has been manufactured in **high-conduction material** (Golden Copper) to achieve rapid cooling of the handle such as full control maintenance of its temperature, guaranteeing the safety of patients.

**ICE-TEC
COOLING SYSTEM**



ERGONOMIC AND HIGHLY RESISTANT HANDLE

The handle of the new Excelsior is designed to offer the **greatest ergonomic to the user**, allowing to reach less accessible body areas by means of causing greater comfort during usage.

The material used in the new handle production is **highly resistance**, which reduces the risk of damage considerably in case of fall and / or collision.

TABLE OF COMPARATION OF DIODE TECHNOLOGIES VS LEDS

	DIODE	LED
LIGHT SOURCE FEATURES	<p>WAVELENGTH SPECIFIC TO 755/808/1064/nm</p> <p>MATERIAL LASER DIODE BARS</p> <p>LIGHT EMISSION WAY LINEAR FOCUS</p> <p>DURABILITY 8 - 20 MILLION SHOTS</p>	<p>WAVELENGTH SPECTRUM 755/880nm</p> <p>MATERIAL CHIPS LED</p> <p>LIGHT EMISSION WAY NO FOCUSED ON RANGE</p> <p>DURABILITY 80 - 100 MILLION SHOTS</p>
MAINTENANCE	<p>HANDLE REPLACEMENT EVERY 1-2 YEAR</p> <p>FILTERS REPLACEMENT ONCE A YEAR</p>	<p>HANDLE REPLACEMENT EVERY 5-10 YEAR</p> <p>FILTERS NO FILTER REQUIRED</p>
OPERATIONAL	<p>WORKING MODE STATIC CONTINUOUS</p>	<p>WORKING MODE STATIC CONTINUOUS EXPERT</p>

EXCELSIOR

OPTIMISED WAVELENGTH SPECTRUM

755 nm - 880 nm



TECHNICAL SHEET

LIGHT SOURCE	OPT LED CHIPS
WAVELENGTH SPECTRUM	755 NM - 880 NM
LED ENERGY POWER	1.200 W
SCREEN SIZE	LCD 9.8" COLOR
SOFTWARE LANGUAGE	ENGLISH AND OTHERS
WORKING MODE	SHR, STATIC, CONTINUOUS, AND EXPERT.
SAFETY SYSTEM	AUTOMATIC CALIBRATION
SPOT SIZE	17 X 22 MM
HANDLE DURABILITY	80-100 MILLION SHOTS
PULSE WIDTH	9 MS - 780 MS
ENERGY FLUENCE	1 J/CM ² - 100 J/CM ²
FREQUENCY	1 HZ - 10 HZ
COOLING SYSTEM	ICE TEC + WATER COOLING
NOISE LEVEL	60 DB
COOLING TEMPERATURE	-5°C -15°C
ELECTRIC VOLTAGE	220 V / 110 V

EXCELSIOR

SIZE / WEIGHT	30 CM X 60 CM X 40 CM / 28 KG
EXPORT SIZE / WEIGHT	44 CM X 57 CM X 70 CM / 38 KG

EXCELSIOR+

SIZE / WEIGHT	45 CM X 120 CM X 52 CM / 38 KG
EXPORT SIZE / WEIGHT	60 CM X 140 CM X 67CM / 48 KG

EXCELSIOR

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