

USP
ULTRA SHORT PULSE

..... All phototypes. All year round.



primelase HR

Extreme power. Prime results. Highest safety

Four icons representing laser wavelengths. Each icon consists of a teal square with a white vertical bar on the right side. The first icon contains '755 nm'. The second icon contains '810 nm'. The third icon contains '1060 nm' and '810 nm'. The fourth icon contains '1060 nm'.



 **COCOON**
MEDICAL

primelase HR

Three wavelengths

The **primelase HR** platform is designed to work with three different wavelengths (755nm, 810nm and 1060nm) and also with an applicator which has combined wavelengths (810nm, 940nm + 1060nm) to remove permanently and safely all kind of hair in all skin phototypes, with the maximum guarantee and effectiveness.

USP (Ultra Short Pulse) technology

primelase HR works using exclusive USP (Ultra Short Pulse) technology, developed by **cocoon medical**, which enables the delivery of ultra short pulses pulses (up to 3 ms) with high fluence in large spots thanks to its high peak power being the first diode laser with characteristics of SSL (Solid State Laser).

Maximum speed

The frequency in the repetition of the pulse up to 3Hz when static and 10Hz when dynamic, along with the different spot sizes we provide (10x9, 20x9, 30x9 and 30x17) make **primelase HR** one of the fastest, safest, most powerful and efficient devices on the market, including last sessions with residual hair.



Dra. Hermosín
Esthetic Internacional

"With more than six years of experience in the sector, we are able to affirm that, to date, it is the most comprehensive, efficient and innovative LASER system of all the ones with which we are familiar."



D. Torres
Primelase patient. 32 year old male.
Zone treated: chest

"I have had two sessions to remove hair from my chest with primelase. After the first session, the hair took a month and a half to grow back, during the second session I hardly noticed any pain because the amount of hair had greatly reduced and it was much finer than the first time round. I am very happy with the treatment because the decrease in hair is clear."



The perfect combination for all skin phototypes throughout the year.



primelase HR

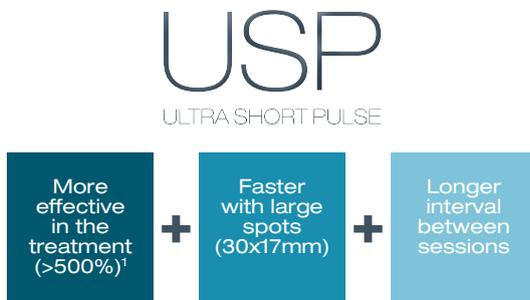
Extreme power. Prime results. Highest safety

Research, knowledge and development based on results

USP (Ultra Short Pulse) technology

USP (Ultra Short Pulse) technology is a technology designed by **cocoon medical's** R&D department to work exclusively with our LASER.

The USP technology is designed to combine the advantages of solid-state LASER with diode LASER, enabling work to be done with a high peak power (Up to 4,800W) delivering the energy in ultra short pulses (up to 3ms).



1. primelase, with a close power to 5000W, can offer a 500% effectiveness higher than the majority of LASER devices on the market which have lower powers to 1000W.

New diode LASER generation

The **primelase HR** platform was developed based on the latest advances in aesthetic medicine in addition to all **cocoon medical's** expertise in the development of LASER technology with the aim of providing greater versatility and precision in treatments. The combination of its four wavelengths means that all kinds of patients can be treated without limitation of phototype, hair type or time of year with the maximum effectiveness and security:

- **755nm:** recommended for treating pale skins (phototypes I-III) with fine hair. Indicated for removing the residual hair of the last sessions. Its high peak power makes it the most powerful LASER on the market with this wavelength. Up to 3600W.

- **810nm:** recommended for treating all skin phototypes, particularly patients with a great density of hair and first sessions. Its high peak power (Up to 4800W) and the USP technology create a unique combination on the market achieving excellent results with large spots (30x17mm). Up to 4800W.

- **Combined wavelengths:** perfect balance to treat dark phototypes (III-IV a VI), we have the absorption efficiency of the 810nm wavelength and the safety of the 1060nm wavelength. Excellent to arrive to all hair depths and dark skins.

- **1060nm:** indicated for treating dark phototypes (III-IV tanned, V and VI). Its work mode, exclusively designed for this wavelength, offers a unique combination providing maximum safety in the treatment with the best results. Up to 4000W.

Unique dynamic 1060nm mode combination:

USP + High fluence + High speed

How does primelase HR work?

primelase HR is characterised by being the only laser diode platform that makes a combination between SSL (Solid State Laser) and diode LASER, achieving a mix of advantages:

- Maintenance free
- No consumables
- All skin types
- Ultra Short Pulse duration
- Compatible with domestic electrical network

It has two work modes that enable the device to be suited to the individual needs of each patient.

Static mode:

By working at 1, 2 and 3 Hz with high fluence and ultra short pulses, the speed of the treatment is not reduced and any risk of skin lesions is avoided. This work mode is indicated for fine hair and residual hair at final sessions and for pale phototypes.

3Hz = Any fluence + Any spot

Dynamic mode:

It works at a speed of 10Hz even at high fluence. Indicated for initial sessions with very dense hair, patients with a low pain threshold and

Wave length	Work mode	Fluence-short pulse duration		
755 nm	1Hz, 2Hz, 3Hz 10Hz	Spot 10x9	Spot 20x9	
		41J/cm ² 13J/cm ²	42J/cm ² 13J/cm ²	
	Static Typical power	30J/cm ² -20ms	25J/cm ² -20ms	
	Dinamic Typical power	10J/cm ² -6ms	8J/cm ² -5ms	
810 nm	1Hz, 2Hz, 3Hz 10Hz	Spot 10x9	Spot 30x9	Spot 30x17
		60J/cm ² 18J/cm ²	43J/cm ² 12J/cm ²	21J/cm ² 6J/cm ²
	Static Typical power	40J/cm ² -20ms	25J/cm ² -25ms	17J/cm ² -24ms
	Dinamic Typical power	10J/cm ² -4ms	8J/cm ² -4ms	6J/cm ² -7ms
1060 nm	1Hz, 2Hz, 3Hz 10Hz	Spot 10x9		
		80J/cm ² 29J/cm ²		
	Static Typical power	50J-20ms		
Dinamic Typical power	15J/cm ² -4ms			

Exclusive technology and constant innovation

Spot variety: maximum precision and maximum power

Thanks to the USP technology, **primelase** HR can work with different spot sizes obtaining the best results and adapting to all types of areas and patient characteristics.

Perfect pulse delivery

The **primelase** HR platform works with a square pulse system which allows a perfect pulse to be delivered. **cocoon medical** guarantees the deliver of the energy in each millisecond of the pulse duration obtaining a regular warming of the hair, avoiding any possibility of secondary risks and helping to achieve the best results.

Perfect pulse = maximum effectiveness + maximum speed

crystal freeze

cocoon medical has developed "crystal freeze". This system carries out an ongoing measuring process of the input and output of the coolant flow of the liquid of the cooling of the laser head.

Therefore, "crystal freeze" guarantees a constant temperature of 5 °C at the tip of the handpiece, independently of the hours it has been used and the temperature of the room, allowing it to work with high power and big spot sizes guaranteeing the safety of the treatment.

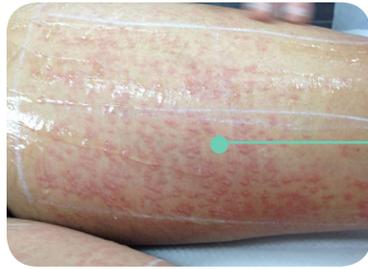


Cooling system

755 nm	810 nm	810 nm	1060 nm 810 nm 940 nm	1060 nm
20x9	30x9	30x17	20x9	10x9
3600W	4800W	4800W	4000W	4000W
10x9	10x9			
1800W	2400W			

USP, Ultra Short Pulse technology for an more effective hair removal.

primelase HR effect

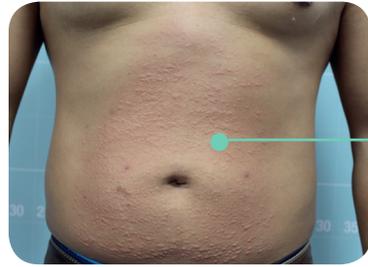


Immediately after treatment

755
nm

Patient data 1:

Phototype II
 Applicator: Spot 20x9
 755nm
 16J/ 3Hz/ 20ms
 Mode: Static
 Date: 12/02/2016

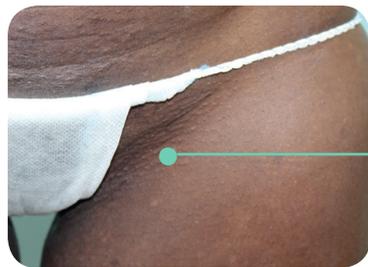


Immediately after treatment

810
nm

Patient data 2:

Phototype IV
 Applicator: Spot 30x9
 810nm
 8J/ 10Hz/ 3ms
 Mode: Dynamic
 Date: 19/01/2016



Immediately after treatment

1060
nm

Patient data 3:

Phototype VI
 Applicator: Spot 10x9
 1060nm
 12J/ 7Hz/ 4ms
 Mode: Dynamic
 Date: 20/11/2015

primelase HR

Technical specifications

basic functioning

type of equipment	Diode LASER hair removal device
LASER emission	Direct by quartz prism

technical characteristics

maximum peak power	10000W
wave length	755nm-1060nm
maximum energy	300J
pulse duration	3ms-400ms

power

power supply	Single phase, 100-240V
network frequency	50-60Hz
nominal power	2800W
maximum power	3300W
maximum intensity	(200-240V) 13A

regulation

mdd directive	Class IIb
class. according to iec 60825-1	Class IV LASER
class. according to iec 60601-1	Class I, type BF
ce marking	CE0120

physical characteristics

dimensions	1140 x 480 x 550mm
weight	75Kg
screen	Touchscreen 10, 4 "
work range	18-30 °C
storage	2-50 °C
	<90% humidity (without condensation)



make your patients' dreams come true

cocoon medical is a Spanish company, with its head office in Barcelona, which was created with the aim of offering the greatest technology and innovation to the service of cosmetic medicine, capable of manufacturing non-invasive medical equipment to satisfy the needs of the most demanding clients.

The continuous effort of each of **cocoon medical**'s employees has managed to position the company at a worldwide level. We have more than 25 distributors, nationally and internationally, in whom we confide to find out about the demands of each market so as to be able to offer solutions to our clients.

cocoon medical has an R&D Department in its head offices and its own manufacturing plant in Mataró (Catalonia), which help to define the identity of the company. **cocoon medical** has the highest national and international quality certifications, offering the best service to the sector.

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MKT-06-V1/20160504