



MEDICAL LASERS

- ▶ Fundamental tool in derma/plastics.
- ▶ Lasers heal and reshape the eyes.
- ▶ Selective hemostasis during surgery.
- ▶ Reduce swelling (edema) and decrease the spread of tumor cells.
- ▶ Avoid trauma.
- ▶ Remove wrinkles, warts, moles, etc.



LASERS IN DERMATOLOGY & COSMETOLOGY



- ▶ Laser treatment without scars:
 - ▶ Remove unsightly vascular veins
 - ▶ Treat pigmentation
 - ▶ Skin resurfacing
 - ▶ Wrinkle removal
 - ▶ Hair removal
 - ▶ Tattoo removal

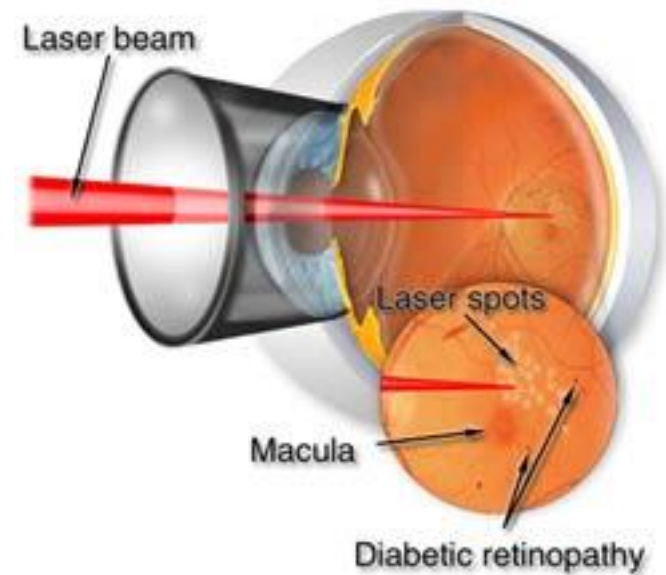
LASERS IN OPHTHALMOLOGY

► Selective Laser treatment

Laser has become **THE** treatment for cataract, glaucoma, retinal detachment and diabetic retinopathy.

Also, laser vision correction has become a huge industry.

Laser Treatment of Diabetic Macular Edema





LASERS IN DENTISTRY

 **MEDENCY**
TECHNOLOGY | INNOVATION | PASSION



The logo for PRIMO Diode Laser features a stylized power button icon on the left, composed of a circle with a vertical bar at the top and a horizontal bar at the bottom, all in a teal color. To the right of the icon, the word "PRIMO" is written in a large, bold, teal sans-serif font. Below "PRIMO", the words "DIODE LASER" are written in a smaller, grey sans-serif font.

PRIMO

DIODE LASER

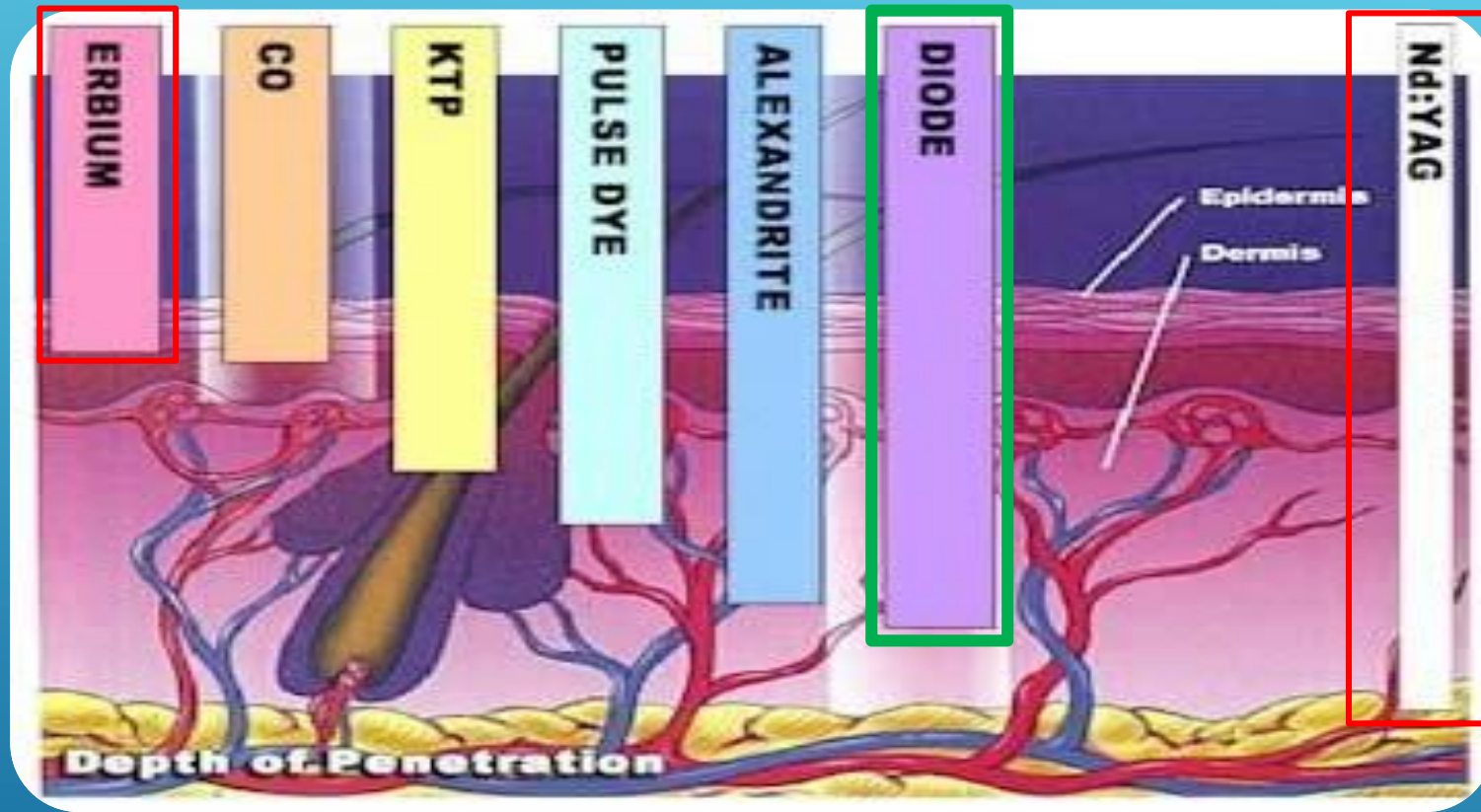
The MEDENCY logo consists of a series of four concentric, semi-circular lines on the left, followed by the word "MEDENCY" in a bold, white sans-serif font. Below "MEDENCY", the words "TECHNOLOGY | INNOVATION | PASSION" are written in a smaller, white sans-serif font.

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TECHNOLOGY | INNOVATION | PASSION

TYPE OF LASER IN USE IN DENTISTRY

Type	Wavelength
Blue diode laser	Blue wavelength of 488 nm
Frequency-doubled Nd-YAG laser (KTP)	Green wavelength of 532 nm
Low-level lasers	Red nonsurgical wavelengths of 635 nm (for photobiomodulation) and 655 nm (for caries detection)
Diode lasers	Various wavelengths between 800 and 1064 nm
Nd:YAG laser	1064 nm
Erbium / (Er,Cr:YSGG) laser	2940 nm / 2780 nm
CO2 laser	10,600 nm

MOST USED LASER IN DENTISTRY



WHAT MAKE LASERS SO PARTICULAR ?

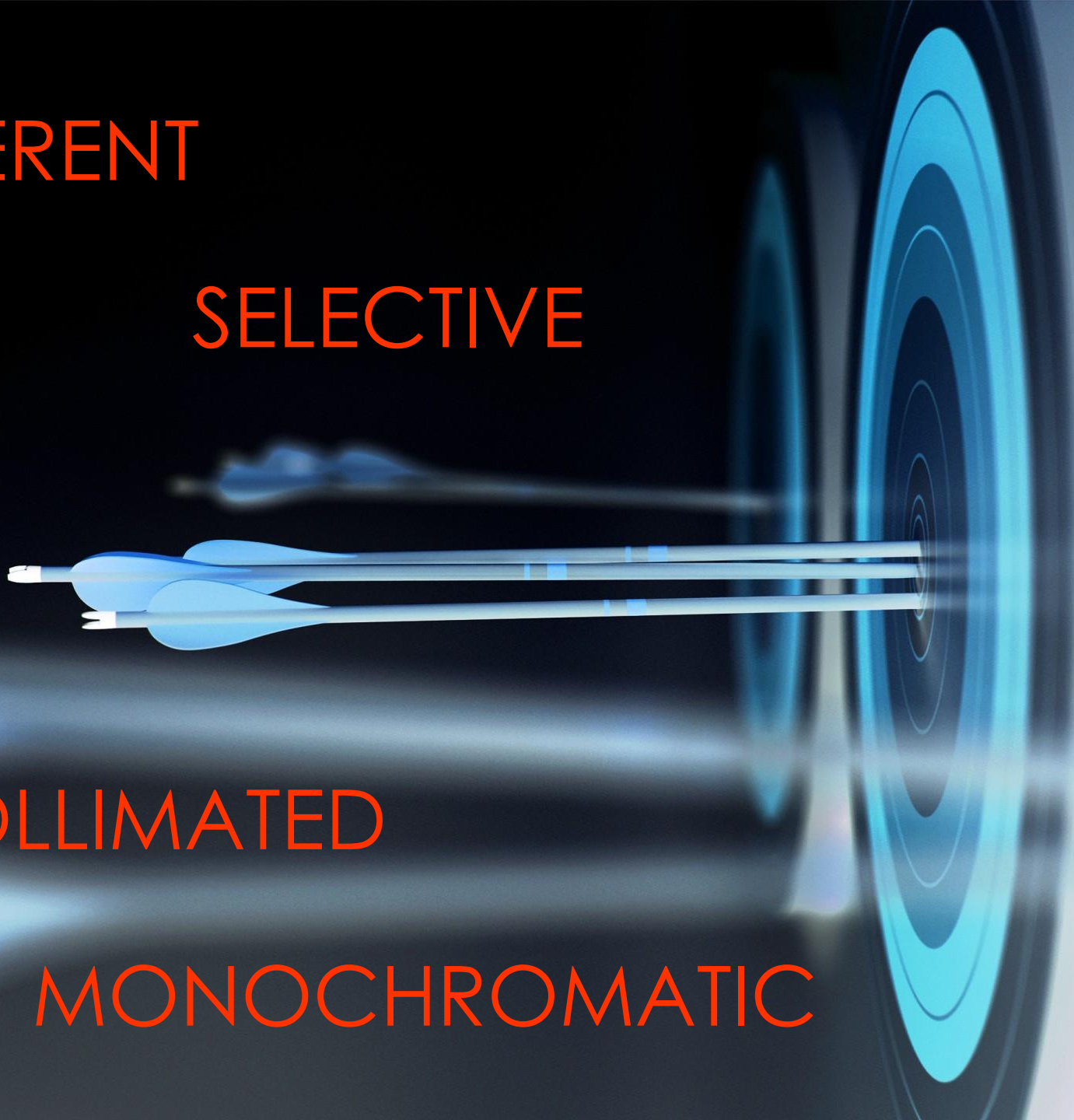
- ▶ As opposed to regular lights (white lights) we normally see, which include a spectrum of light, Lasers are **monochromatic** light.
- ▶ Lasers are **target-specific**, coherent, and the electromagnetic waves are temporally and spatially coherent (in phase), directional and minimally divergent.

COHERENT

SELECTIVE

COLLIMATED

MONOCHROMATIC





PRIMO



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What is MEDENCY® PRIMO™ Device?

- PRIMO is a **medical device** used to maintain dental health and treat dental problems
- It consists of a **powerful beam of LASER light** that can produce intense heat
- Powerful enough to instantaneously **vaporize tissue** and bacterias
- It finds applications on **soft tissue** with fast incomparable healing results
- **Replace** electrosurgery unit, improving patients' experience
- Lasers have **several uses** for dental surgery, periodontics, endodontics, implantology, cosmetics and therapy
- PRIMO combines **state-of-the-art diode laser** technology with the experience of MEDENCY in the dental industry
- **Postoperative** discomfort is greatly reduced.





WITH LASER IT'S POSSIBLE TO PERFORM

1

Bloodless surgery

Laser procedures usually involve less bleeding than conventional surgery

2

Biostimulation

Regenerating /stimulating metabolic processes with low power levels

3

Decontamination

The heat generated by the laser keeps the surgical site free of germs and reduces the risk of infection.

4

Analgesic effect

The irradiation of laser light activates the inhibition of pain nociceptor feedback, offering excellent therapeutic effects.

LASER IN PERIODONTICS

Curettage, cleaning and kill bacteria

Typical Protocol of use:

Application of diode laser 25 sec /
pocket. May be associated with H₂O₂
Hydrogen Peroxide 3% - 10 Vol.

- Minimally invasive procedures
- Faster procedures in most of cases
- Efficiencies; more time for new visits
- Practice marketing advantage
- Practice revenue growth potential
- Less need to refer patients out
- Less chair time
- Less stress/anxiety
- Staff enthusiasm



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Application of diode laser

LASER IN IMPLANTOLOGY

Decontamination of site in case of peri-implantitis. Implant uncover.

Typical Protocol of use:

Application of diode laser 25 sec / pocket. May be associated with H₂O₂ Hydrogen Peroxide 3% - 10 Vol.

With **laser** in most of treatment is possible to eliminate

- ✓ «cold blades» Scalpel
- ✓ Needle punctures(aesthetics)
- ✓ Sutures
- ✓ Electrocautery
- ✓ A variety of tools



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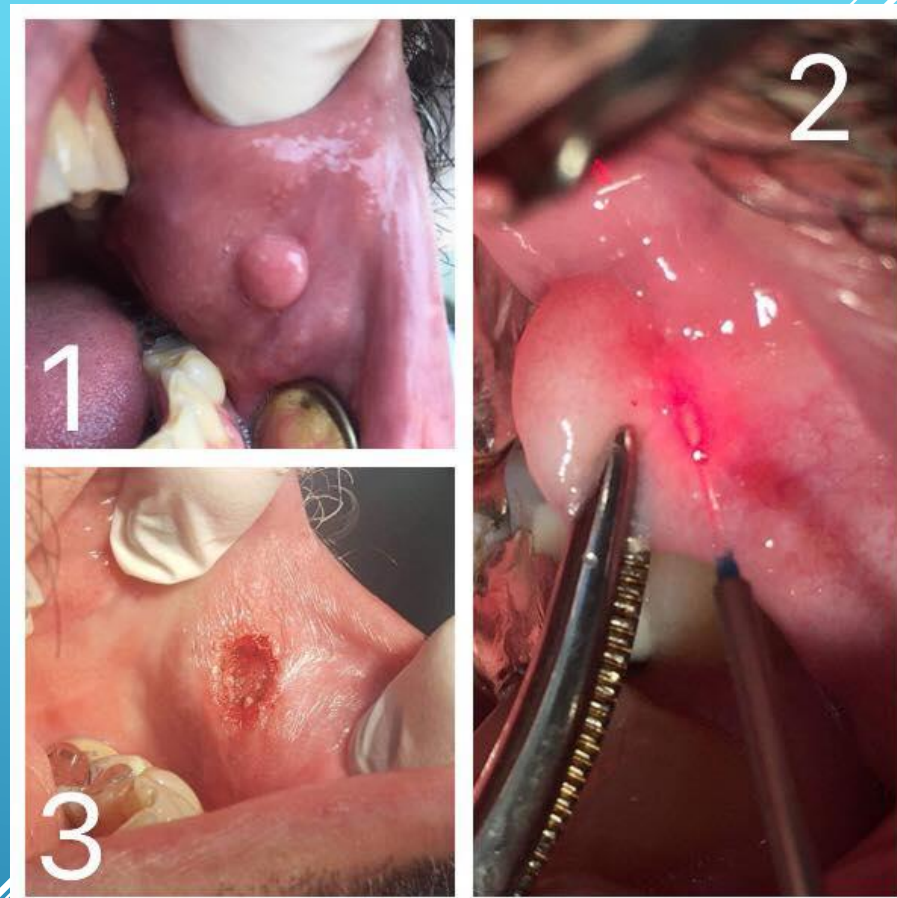
Application of diode laser

LASER IN SURGERY

Application of diode laser in surgery
Gingivectomies, fibromas, flaps

Typical Protocol of use: brush technique,
back and forth motion.

- ✓ No waiting for anaesthetics effects
- ✓ NO post-op prescription and medication
- ✓ Bleeding management
- ✓ No sutures
- ✓ Min. post-op indications



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Application of diode laser

SURGERY

SPOT THE DIFFERENCE!

TRADITIONAL TECHNIQUE

Anaesthetic by infiltration

High presence of bleeding

Sutures mandatory

Frequent edema Post-op

Post-op. medication

Drugs requirements

LASER ASSISTED

Topic anaesthetics (or without)

Haemostatic effect

No sutures – 2nd stage healing

No edema o swelling

Minimal medication

Decontamination of site

Regeneration procedures

Faster healing

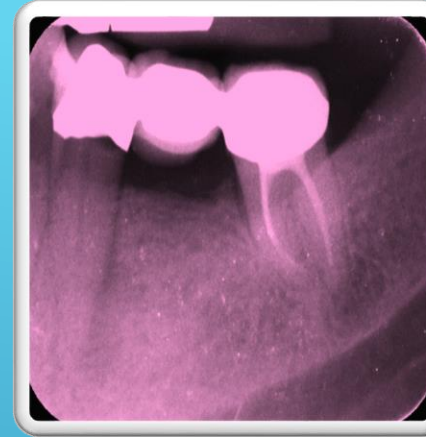
LASER IN ENDODONTICS

Application of diode laser in endodontic in combination with conventional methods with irrigants, such as 17 % EDTA, 10 % citric acid and 5.25 % sodium hypochlorite.

Strong decontaminating effect

Typical Protocol of use: the optical fibre is placed 1mm from the apex and retracted with a helical movement, moving coronally for about 5/10 sec / 3 cycles.

- ✓ **Laser light penetrates into the dentinal walls up to 1 mm in depth**



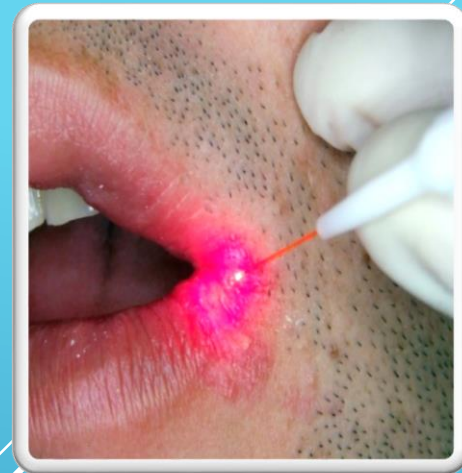
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LASER IN THERAPY

Application of diode laser in therapy
– Aphthae / Herpex / Cheilite Angle

Immediate pain relief, no relapse

Typical Protocol of use: the optical fibre is placed 2mm from the lesions and with small circular movements cover all the area for 60 sec.



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Diode laser means ALSO new opportunities

TIME FOR
SOMETHING
NEW!

Nowadays the specialist in dentistry offers to its patients not only routine care, but also therapies related to **well-being**.

Meet the basic needs of your patients through the satisfaction of their secondary demands.

EXCEED YOUR EXPECTATIONS

The most innovative Dental Laser technology for your practice

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PRIMO

Cosmetics Therapy Periodontics Surgery Implantology

One-touch TECHNOLOGY +35 pre-set TREATMENT 5-Top FAVORITES Active Time ASSIST Multi-function HANDPIECES Master-mode FOR EXPERTS

Stress-free software, fully automatic parameter selection offers the ideal way to boost productivity. Versatile, fast and accurate selection of protocols from a large variety of programs. Every functional aspect of Primo has been developed with end users in mind. Most useful programs at your finger touch. Designed to help users to improve patient's care by stopping the laser output to potentially avoid tissue overheating. The ergonomic lightweight hand-piece gives the user a total control of movements. Wide selection of optical tips, whitening arch biostimulation and cosmetic tools. Advanced software-enabled mode allows experienced users to achieve outstanding performance and to generate new protocols.



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Exceed your expectations!

Laser can have the ability to change a patient's **perception** of dentistry and the practice overall.

Diode laser means new opportunities

Enlarge the kind of treatments to your patients and attract new ones

- ✓ Desensitization
- ✓ Apatha lesions
- ✓ Herpes
- ✓ Emangiomas
- ✓ Depigmentation

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EXCEED YOUR EXPECTATIONS

The most complete whitening solutions for a stunning smile

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Ask your dentist.



PURO



IN - OFFICE
Laser Teeth Whitening



AT - HOME
Keep a White Smile

Amazing results in a short time
Natural colour without sensitivity
Most innovative laser application

Supervised by your dentist
Increase long-lasting results
Safe, comfortable and easy-to-use

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Diode laser means new opportunities

The power of **LASER** combined to **PURO** Whitening formula to achieve outstanding results! Short process duration without causing any problem.

No sensitivity to surrounding tissues, just a perfect natural white!



Laser whitening

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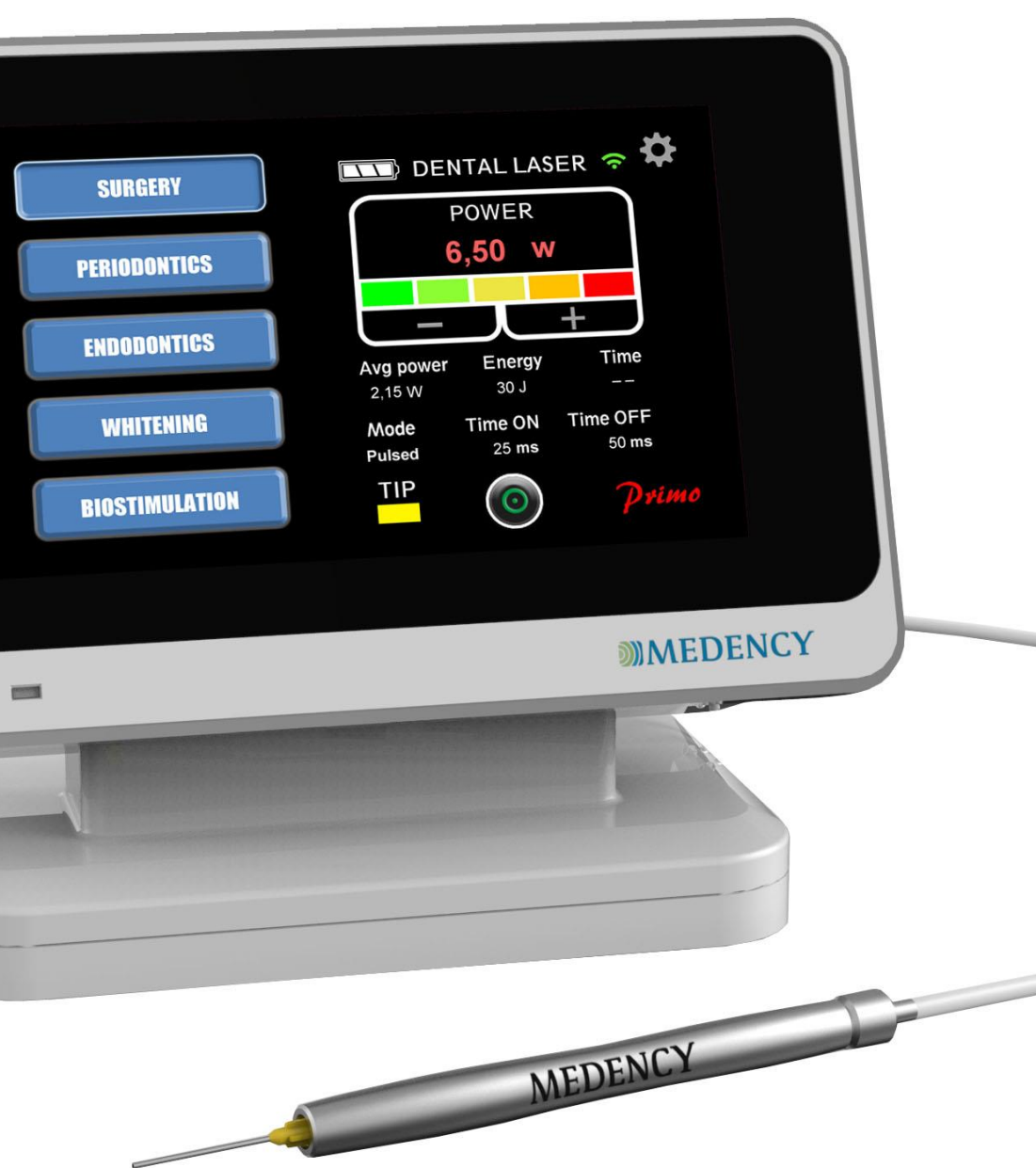


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Be a **member** of our community!

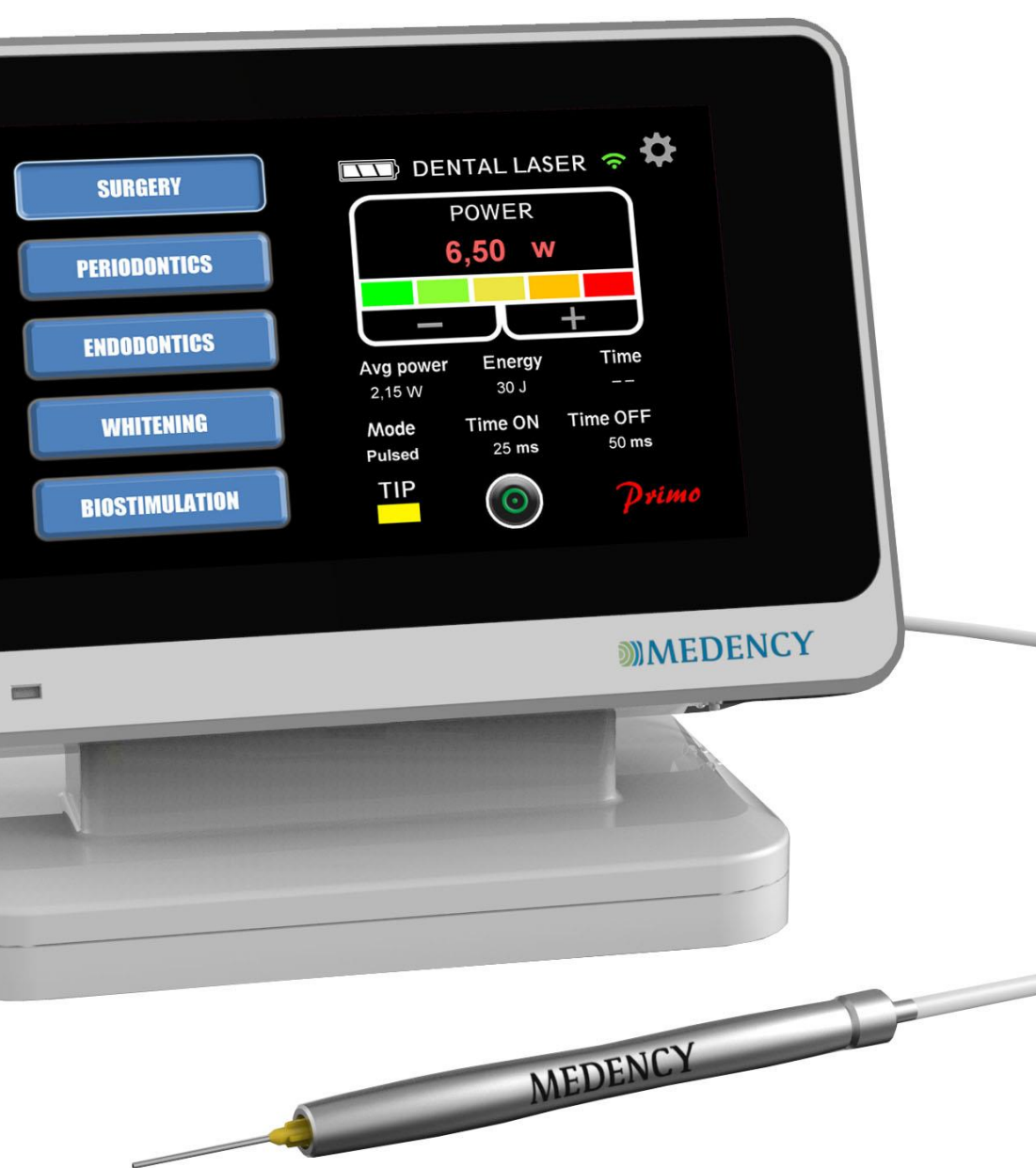


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PRIMO

- Wavelength:** 980nm
- Power:** from 0,10 up to 10W
- Frequency:** Up to 25 kHz
- Pulse mode:** CW Continuous wave
SP pulsed wave up to 20µs
- Aiming beam:** 650 nm
- Dimensions:** 205x130x60mm / 1.6 KG
- Medical class:** IIB / laser class 4



PRIMO

Pulse mode: CW Continuous wave

SP pulsed wave up to 20 μ s (Time ON /OFF)

----- 50%

----- 10/30%

Techniques: pulsed wave and CW

WIDE TOUCHSCREEN

Great visibility!



PRIMO

SURGERY

PERIODONTICS

ENDODONTICS

WHITENING

BIOSTIMULATION

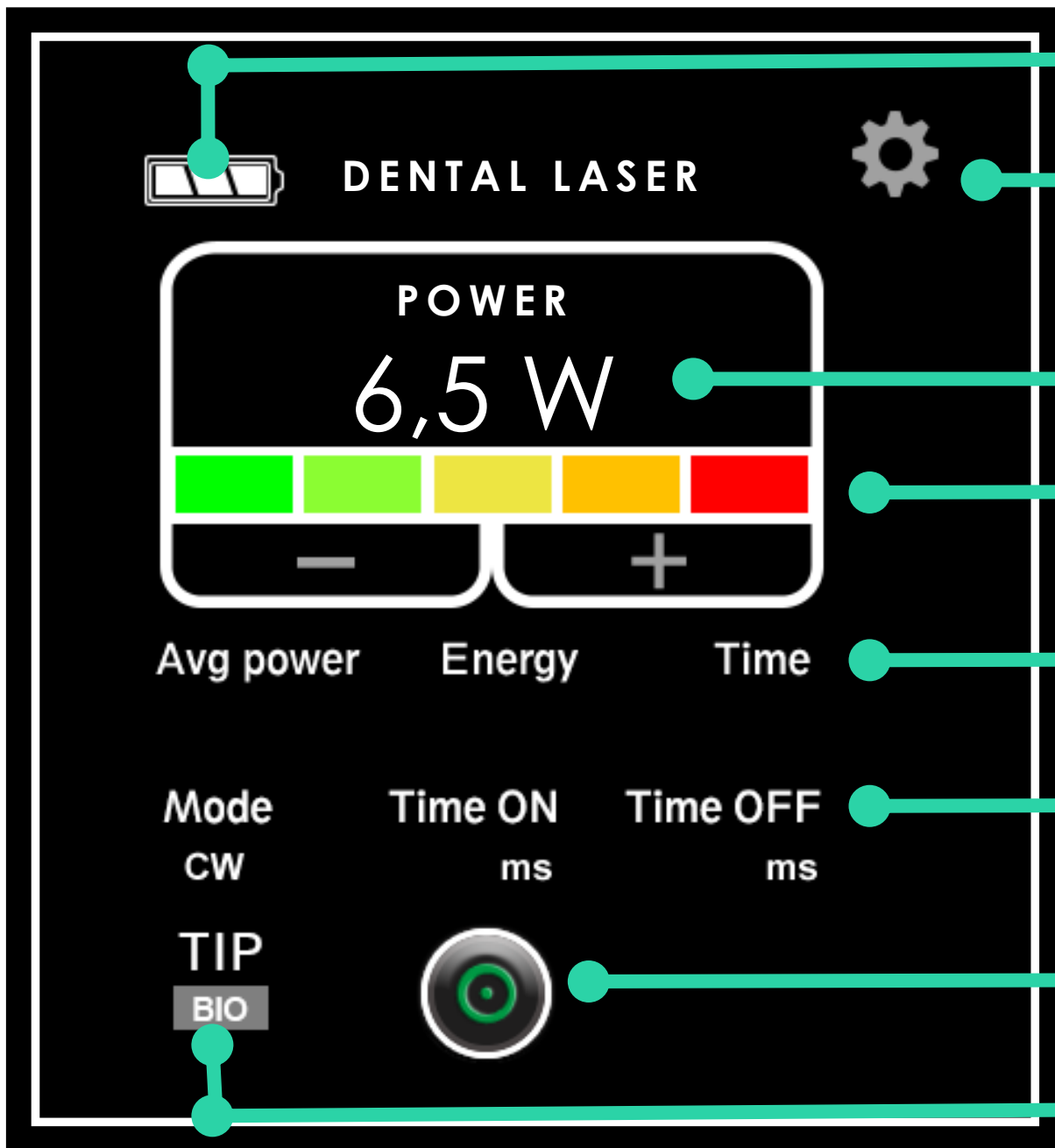


PRIMO

**FAVORITES
TREATMENTS**

Quick and intuitive
selection

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Battery level
Settings

Power

Power bar

Timer (Countdown)

Pulses (SP mode)

LASER switch

Tips (suggestion)

FREE TO CHANGE ALL SETTINGS

No block or constraint

SETTING MENU

FAVORITES

AIMING BEAM

VOLUME

MASTER MODE

CHECK UP

MISCELLANEOUS

MISCELLANEOUS

LANGUAGE

BRIGHTNESS

SLEEP TIME

SCREEN INFO

PASSWORD

FOOTSWITCH

SERVICE

SET FAVORITE PARAMETERS

The most used treatments always ready to use

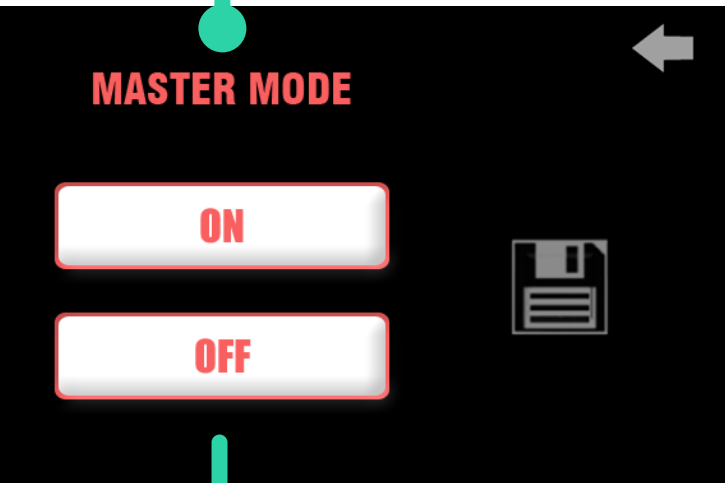


FAVORITES LIST:
30 Pre-set
treatments
available

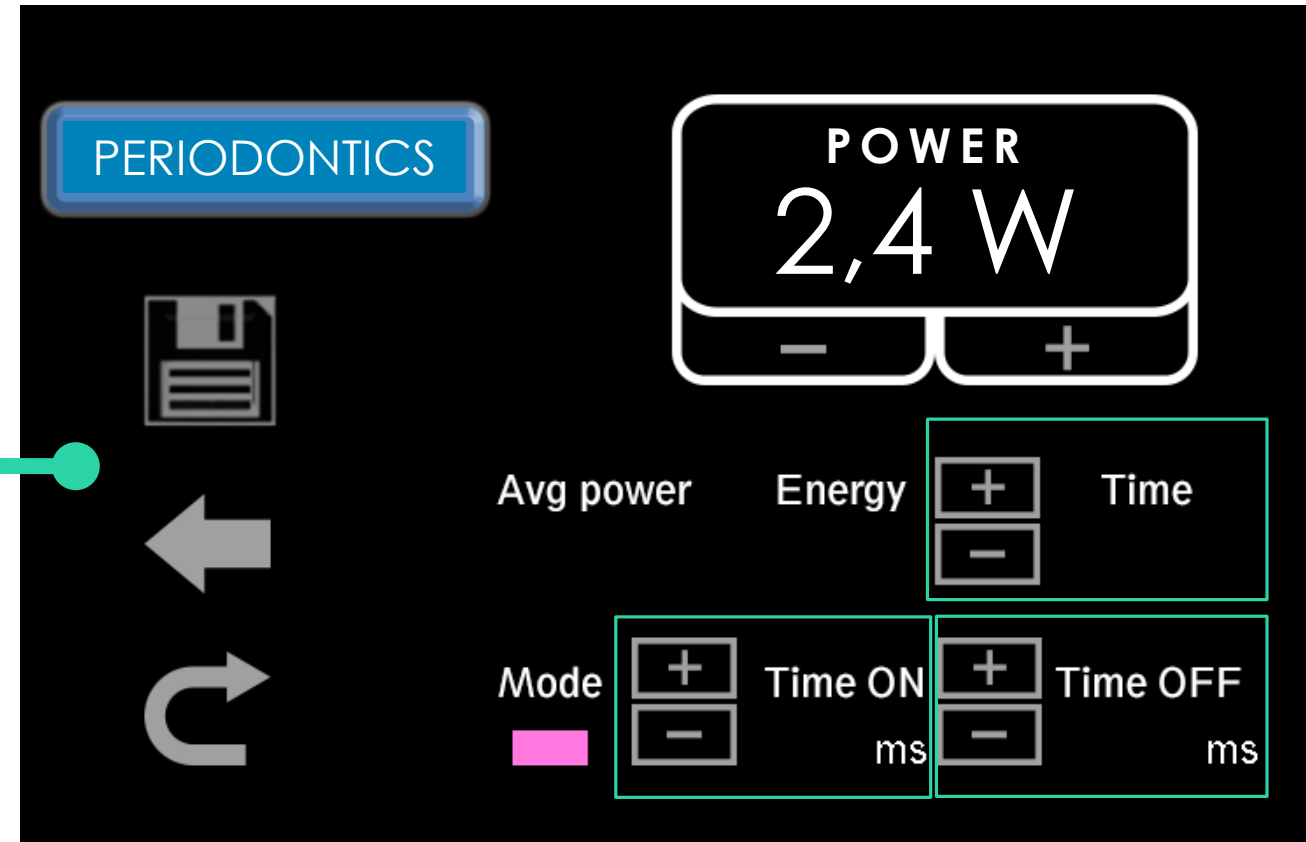
Favorites (Selected)

EXCELLENT ALSO FOR THE MOST EXPERTS

The freedom to adjust all the parameters



The possibility to save all.
And the safety to return
to the original parameters.



NO CABLES, NO PLUGS

Wireless pedal, long life battery



LITHIUM-ION

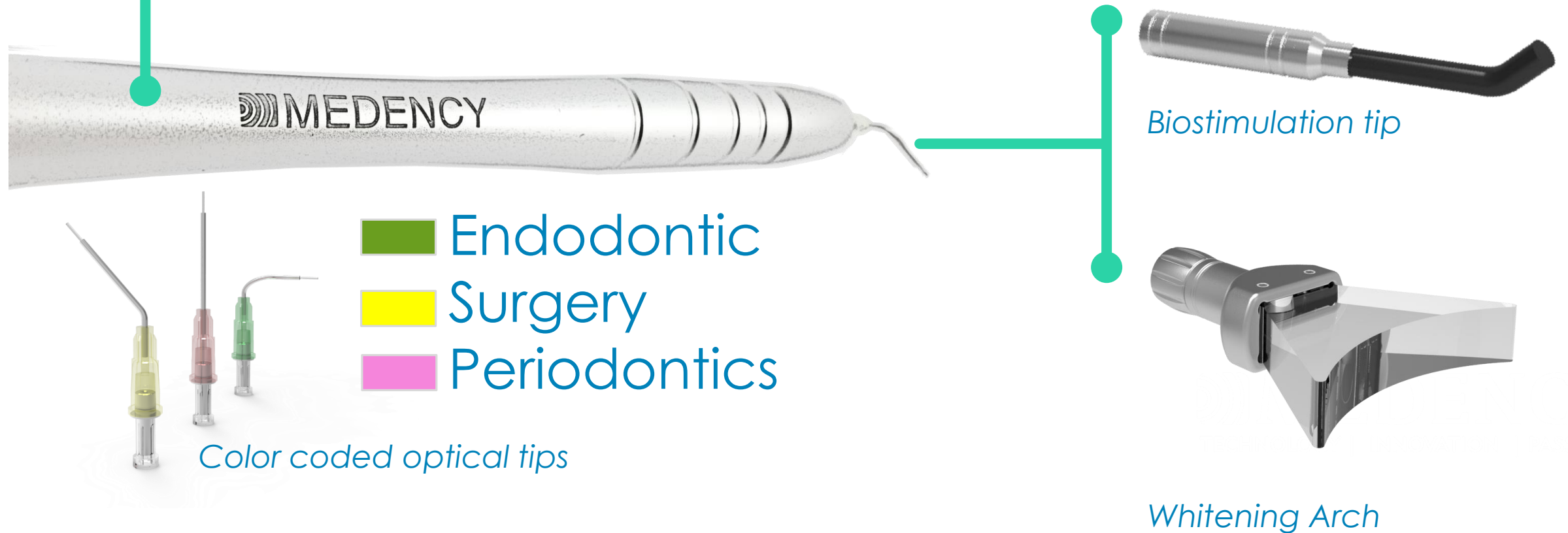


Connection by cable also available.

- Duration up to 5 days.
- No memory loss
- Easy replacement

MULTI-DISCIPLINAR HANDPIECE

With autoclavable tips and accessories



Easy to transport

And for the most demanding customers



Metal suitcase with compartments

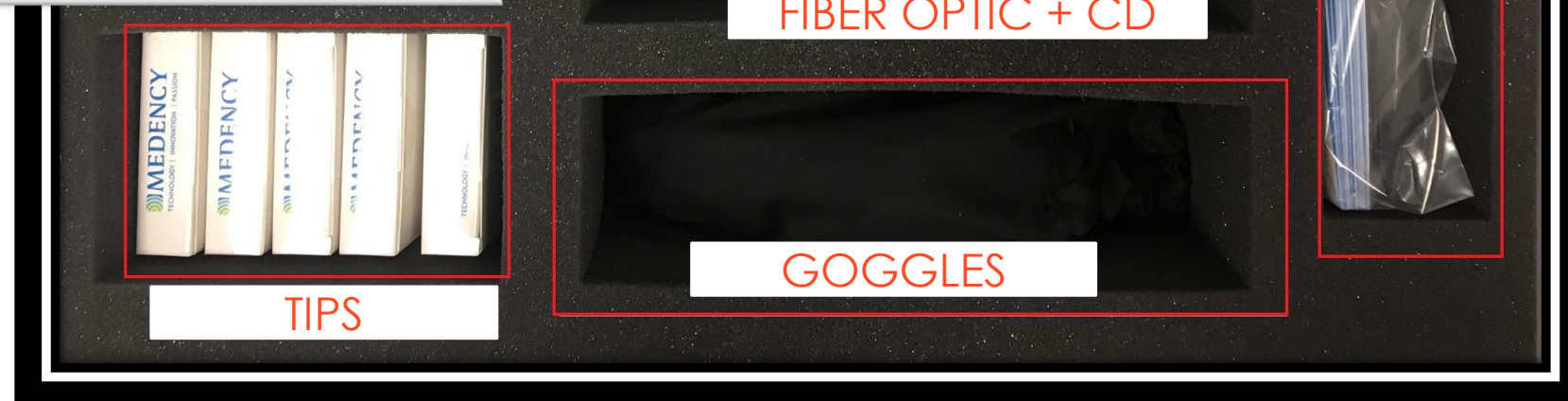


Optional (See retail price)

SIMPLE TO INSTALL



All ready to use



Leaflet

A quick view of the product

BUILT FOR INNOVATIVE DENTAL PRACTICE

SIMPLY EXTRAORDINARY

PRIMO is the perfect combination of state-of-the-art innovation and experience of MEDENCY company.

PRIMO provides a multitude of applications for conventional surgical methods like electrocautery. Intuitive interface, the benefits of diode laser. Unprecedented versatility of use, keeping low power.

Designed, Engineered and Manufactured in Italy

EXPERTISE, DESIGN AND FUNCTIONALITY

The concept of Medency design is based on extreme functionality keeping the modern and ergonomics lines of the objects.

IT'S YOUR BUSINESS, MAKE THE RIGHT CHOICE

Great value for your job and your practice

- Portable unit working with battery and wireless pedal
- Great view with large icons and wide buttons
- Extremely intuitive software
- Master Mode modalities for expert
- Adaptable settings for all types of tissue
- Direct Power Control from main screen
- More than 30 built-in pre-set protocols
- Exclusive procedure in Surgery, Implantology and Cosmetics
- Flexible fiber, optical tips and versatile accessories
- Modern ergonomic design for an higher efficacy
- Sleek autoclavable handpiece

WIDE RANGE OF ACCESSORIES

WORLD CLASS EDUCATION

The range of application for dental laser continues to grow. Through science and operational based educational training, laser treatments can be easily applied.

Medency provides laser certification with the support of best world-class academics and universities of the field. Increase the confidence with new technologies, establish your modern facilities.

PRIMO Dental Laser System

Code	LAMED001.X
Wavelength / power *	980nm @ 10W 810nm @ 7W
Frequency	Up to 25 kHz
Pulse mode	Continuous - Multiple Pulse
Pulse range	20µs up to 1s
Medical / Laser class	IIB / 4
Dimensions / Weight	205x130x50mm / 1.7 KG

Variable model

Medency® Primo™ is a CE medical device with CE trademark. In accordance with EEC Directives for medical device: EEC Directives 93/42. All Medency's products are made in Italy.

medency.com

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www.medency.com

Your local dealer

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For Patients:
Laser benefits

BETTER CARE HERE, NOW!

We have the latest laser technology to benefit our patients

MEDENCY

Our experienced staff can answer any questions you have about laser dentistry and how it can be applied to your particular situation. We use the latest dental techniques including laser equipment, to ensure that your experience with us is as comfortable as possible and yields the results you expect in restoring and maintaining your oral health.

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Our Mission is to provide you and your family with the highest quality dental care, in a friendly, caring, and modern office.

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Lasers in Dentistry

Medency's Primo™ is one of the most advanced dental technologies available today. Many patients experience procedures with less pain, less bleeding, less swelling, and faster healing. The laser also seals the blood vessels, reducing the risk of infection and promoting faster healing. The laser also allows for the removal of soft tissue, such as gum disease and plaque, without the need for surgery. The laser also allows for the removal of soft tissue, such as gum disease and plaque, without the need for surgery.



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Primo Laser Dentaire
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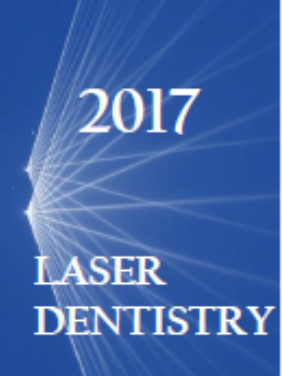








Medency is an Italian company with a global vision



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DIODE DENTAL LASER – COMPARISON CHART

						
			 			
Producer	BIOLASE	AMD LASERS	MEDENCY TECHNOLOGY INNOVATION PASSION	doctor smile®	Dentsply Sirona	elexxion AG
Product	Epic Pro	Picasso	Primo	Wiser	Sirolaser	Pico
Made in	USA	USA	Italy	Italy	Germany	Germany
Wavelength	980 nm	810 nm	810 or 980 nm	980 nm	810 nm	980 nm
Max Power in CW	25 watts	7 watts	10 watts	10 watts	7 watts	5 watts
Delivery system	Optical tips	Optical tips	Optical tips	Optical tips	Optical tips	Optical tips
Size	20x15x8 cm	14x22x16cm	20x13x6 cm	8x18x 7cm	20x18x19cm	11,5x9x2,8 cm
Weight	1,8 Kg	1,2 Kg	1,7 Kg	2 Kg	2 Kg	0.7 Kg
Pedal	Wireless	Wireless	Wireless	Wireless	Finger –Switch	Wireless
Pre-Sets programs	20	8	30	35	25	5
Pulse modes	Cw or Pulsed	Cw or Pulsed	Cw or Pulsed	Cw or Pulsed	Cw or Pulsed	Cw or Pulsed
Max Frequency	20 kHz	50 Hz	25 kHz Rp	25 kHz Rp	10 kHz	20 kHz
Recharge system	Lithium ion	Battery Pack (Optional)	Lithium ion	Capacitor	Lithium ion	NO
Whitening set	Yes	Yes	Yes	Yes	NO	NO
Therapy/Bio set	Yes	No	Yes	Yes	NO	NO
Start guide	Videos + Start kit	Videos + Start kit	Videos + Start kit	Videos + Start kit	Videos + Start kit	Videos + Start kit
Price	