

LASER SMART^M

...BE SMART... START TREATING AT LAST !



ALL - IN - ONE



FUNCTIONALITY AND COMFORT



EVERYTHING AT A GLANCE



DATABASE, MANUAL AND SAFETY KEY IN ONE



MULTIFUNCTIONAL ACCESSORIES



SAFE FOR DOCTOR AND PATIENT



COMFORTABLE WORKSTATION



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WHY TO CHOOSE LASER SMART^M PRO?

- FASTER HEALING OF THE GUMS
- STRESS FREE CARIES TREATMENT
- BLOODLESS SURGERY WITHOUT SUTURES
- EFFECTIVE PAIN MANAGEMENT
- ENDODONTIC THERAPY DURING ONE VISIT
- QUICKER AND PAINLESS ORTHODONTICS
- WHITENING WITHOUT HYPERSENSITIVITY
- LESS ANAESTHESIA
- PRECISE DIAGNOSTICS OF BACTERIA LOCATION (E.G. CARIES, INFLAMMATIONS)

PHOTOTHERMAL EFFECTS

MICROSURGERY
PERIODONTOLOGY
ENDODONTICS
WHITENING
THERAPY

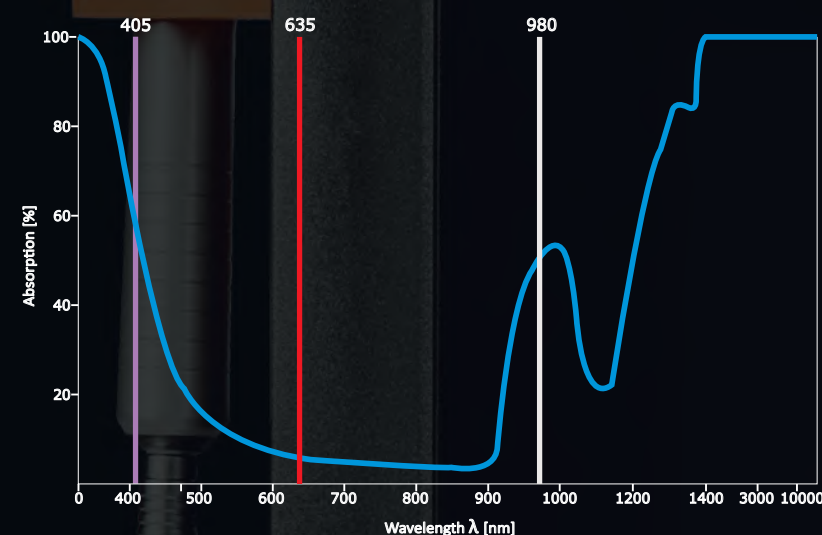


SMART^M PRO

405NM/635NM/980NM

ALL - IN - ONE EFFECTS

THERE IS NO ONE UNIVERSAL WAVELENGTH



7 DEVICE TYPES IN ONE LASER

CO₂ LASER
Nd:YAG LASER
LED LAMP
HPDL LASER
LLL LASER
OZONE DEVICE/PAD LASER
DIAG DEVICE



PHOTOCHEMICAL AND PHOTOBIOLOGICAL EFFECTS

BIOMODULATION
PHOTOACTIVATED DISINFECTION
DIAGNOSTICS



DIAG



STANDARD



WHITE/THERAPY



BIO



PAD

980NM
prosthetics, implantology, surgery: soft tissue cutting and coagulation, gum contouring and reshaping, gingival retraction, management and haemostasis in the gingival sulcus for prosthodontic impressions, exposure of implants, lingual and labial frenotomy and frenectomy, abscess opening, epulis papilloma and fibroma removal
periodontology: elimination of bacteria in periodontal pockets
endodontics: sterilization of root canal and closure of microchannels

980NM
aesthetic dentistry: power bleaching of vital and non-vital teeth
therapy: chronic pain, acute pain, temporomandibular degenerative joint disease, lockjaw, hand arthritis, wrist arthritis, carpal tunnel syndrome, osteoarthritis

635NM
biomodulation: inflammation, irritation, pulp exposure, hypersensitivity, treatment of chronic and drug-resistant gingivitis and periodontitis, necrosis of the gingiva, dry socket and stomatitis, inflammation of the maxillary sinuses, atrophic rhinitis, post-operative wounds, trigeminal neuralgia, trauma of temporomandibular joint, tissue healing after surgical procedure, mucosa regeneration, haemostasis after tooth extraction, treatment of aphthae and herpes, regeneration of nerve fibers

635NM
photoactivated disinfection: root canals, periodontal pockets, support in treatment of periapical lesions, periodontitis and periimplantitis, decontamination of cavities before filling, treatment of chronic and recurrent aphthae, widespread and local inflammation of the mouth caused by a herpes virus and other viruses, hygienisation of cervical area after scaling

Laser SMART^M PRO is using three wavelengths 405nm, 635nm and 980nm complement each other to create a complex device that can be used in every dental clinic. Taking into account the environment conditions - oral soft tissue, which is composed approximately in 70% of water, depending on the wavelength, we can use either transmission or absorption effects.

The 635nm wavelength used in the laser SMART^M PRO shows excellent photobiological effects, thanks to the high transmission in water. This wavelength is also optimally selected for the photochemical effects, local ozone therapy activated by tolonium chloride.

The second wavelength 980nm due to the high soft tissue absorption efficiency obtains excellent surgical results at definitely lower power radiation. The results in soft tissue cutting and vaporization are the most effective and safest compared to other wavelengths. Besides contact microsurgery that wavelength allows to use laser SMART^M PRO for endodontics, periodontology, whitening as well as for pain management.

Additionally the laser can be equipped with diagnostic 405nm wavelength. Based on the autofluorescence phenomenon a doctor can precisely diagnose the extent of bacterial inflammations and changes on the mucosa invisible to the naked eye.