

LASER SMART^M ST

STOMATOLOGY

...BE SMART... START AND FEEL THE DIFFERENCE!

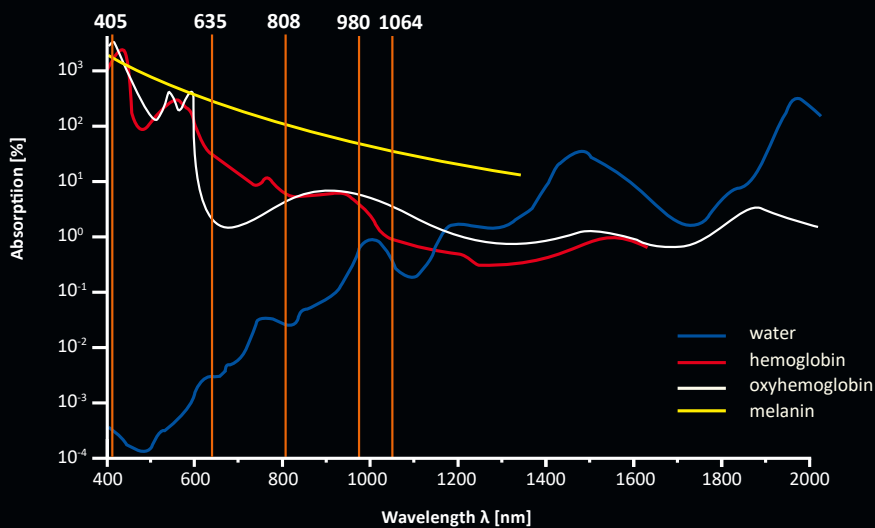


ALL - IN - ONE

WHY TO CHOOSE LASER SMART^{MI}ST?

- HIGHER QUALITY CARE AND FASTER PROCESS
- MORE INCOME ON LESS VISITS
- TIME SAVING FOR BOTH DOCTOR AND PATIENT
- AT LEAST 50% FASTER ON ALMOST EVERY PROCEDURE
- ENDODONTICS IN ONE VISIT
- PRECISE CUTTING WITHOUT BLEEDING - 200 MICRONS PRECISION
- ALLOWS GENERAL DENTIST TO DO MOST SURGICAL PROCEDURES
- ALLOWS HYGIENIST TO DO MORE INCOME MAKING PROCEDURES

THERE IS NO ONE UNIVERSAL WAVELENGTH



Laser SMART^{MI}ST 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^{MI}ST 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^{MI}ST 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.

PHOTOTHERMAL EFFECTS

MICROSURGERY
PERIODONTOLOGY
ENDODONTICS
WHITENING



7 DEVICE TYPES IN ONE LASER

CO₂ LASER
ND:YAG LASER
LED LAMP
HPDL LASER
LLLT LASER
OZONE DEVICE/PAD LASER
DIAG DEVICE



PHOTOCHEMICAL AND PHOTOBIOLOGICAL EFFECTS

BIOMODULATION
PHOTOACTIVATED
DISINFECTION
DIAGNOSTICS

SMART^MST

405NM/635NM/980NM

ALL - IN - ONE EFFECT



AESTHETIC

980, 635, 405NM

aesthetic medicine: wrinkle reduction, pore reduction, face and neck lift - restoring elasticity and vitality, moisturizing and illuminating the skin, reducing hyperpigmentation, soothing acne lesions, eliminating bacteria that cause purulent and inflammatory lesions, healing wounds, frostbites and burns, reducing pain and swelling after fractional laser treatment, platelet-rich plasma stimulation, making post-surgery scars more elastic and brighter



STANDARD

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



WHITE/THERAPY

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, omarthrosis



BIO

635NM

biomodulation: inflammation, irritation, pulp exposure, hypersensitivity, reatment of chronic and drug-resistant gingivitis and periodontitis, necrosis of the gingiva, dry socket and stomatitis, inflammation of the maxillary sinuses, atrophic rhinitis, postoperative 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



PAD

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



DIAG

405NM

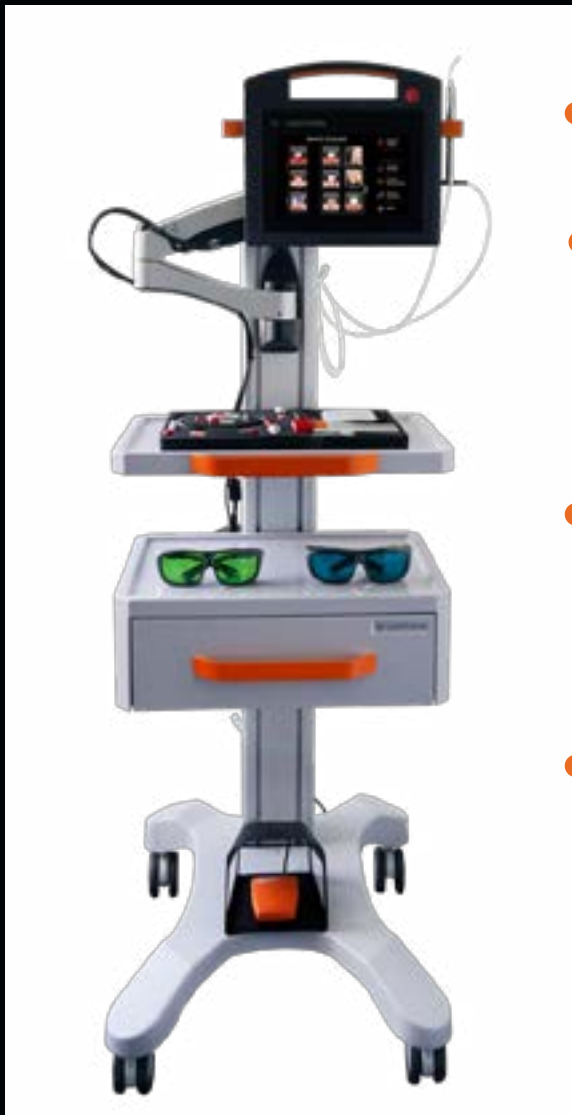
diagnostics: dental caries, calculus, plaque, enamel fracture, non-vital teeth, fillings, prosthetic restorations, detection of bacteria and extent of oral mucosa pathologies invisible to the naked eye, precancerous changes, possibility of checking the preparation precision of cavity, root canal or implant area



**FUNCTIONALITY
AND COMFORT**



**EVERYTHING
AT A GLANCE**



**COMFORTABLE
WORKSTATION**



**DATABASE,
MANUAL AND
SAFETY KEY IN ONE**



**MULTIFUNCTIONAL
ACCESSORIES**



**SAFE FOR
DOCTOR AND PATIENT**



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