



The choice of millions
of dentists worldwide

Innovative Three Wavelengths Blue Semiconductor Laser Therapy Device



LX16 Plus

Guilin Woodpecker Medical Instrument Co., Ltd.



Three wavelengths meet requirements of more treatments:

The innovative 450 nm blue laser technology is ideal for soft tissue cutting, ablation, coagulation and incision/excision. At 450 nm, the absorption constant of hemoglobin is two orders of magnitude for ordinary lasers (e.g. 980nm/810nm), making it only need very low laser power to complete the treatment, and the thermal damage during treatment is extremely low.

976nm is a traditional infrared dental laser. Due to its deep penetration in tissues, it is widely used for the reduction of bacteria in periodontal disease and endodontic diseases. At the same time, this wavelength is also suitable for high power laser treatment (HPLT) and pain reduction in TMJ.

The 650 nm laser is used for low level laser therapy (LLLT) effects. It is also known as the photobiomodulation (PBM) effect. It will contribute to wound healing and biostimulation of dental surgery.



Wide scope of application

Can be used for the fields of dental soft tissue surgery, endodontic sterilization, periodontal sterilization, peri-implantitis, low intensity laser therapy, oral ulcer, and teeth whitening.

Remarkable treatment effect:

There is basically no bleeding during operation, maximally minimizing the postoperative swelling, reducing pain of patients, and accelerating the recovery.



Before treatment



Under treatment



Four weeks later



09:45 AphthousUlcers

Peak Power 2.0 W

Frequency 10 Hz

Duty cycle 50%

Time 5.5

970nm Valid Power 1.0 W

Energy 5 J

Anesthetics not needed! Apply laser 1-3mm away from lesion for a few seconds - semi-contact, wave the laser fiber over the entire lesion. Interrupt treatment briefly, if pain sensations occurs.



Aiming



ON/OFF



Laser Stop

Intelligent human-machine interaction

5-inch full-view capacitive
touch panel with flat UI design



Effectively prevention of cross-infection

The fiber-optical tips and Stainless handpiece sleeve can be autoclaved.



Complete accessories

Fiber-optical tips, TMJ therapy tip, whitening tip, biostimulation tip, laser protective glasses



Effective prevention

Three pairs of laser protective glasses can effectively prevent the dentist, assistant and patient from laser radiation.



Metal handle enables flexible movements.

Large-capacity battery

5200mAh (57.7Wh) lithium battery,
which can be used for one week on a single charge.



Laser parameters

- Wavelengths & optical power:
 - 450 ± 20 nm / approx. 0.1 – 3W (CW)
 - 976 ± 10 nm / approx. 0.1 – 5.0 W (CW)
 - 650 ± 10 nm / approx. 25 – 200 mW (CW)
- Laser system:
 - 450 nm: Class IV; 976 nm: Class IV; 650 nm: Class II (according to IEC 60825-1)
- Emission modes:
 - CW (continuous wave), chopped 1 Hz to 50 kHz
- Aiming beam:
 - 650 ± 10 nm / 1 – 5mW (CW)
- Battery:
 - 11.1V 2600mAh x2 (57.7Wh)



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Scan and Login website
for more information



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