

**DTE®**

The choice of millions  
of dentists worldwide

# D-Laser **Blue**

Innovative Three Wavelengths  
Blue Semiconductor Laser Therapy Device



Guilin Woodpecker Medical Instrument Co., Ltd.

# 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

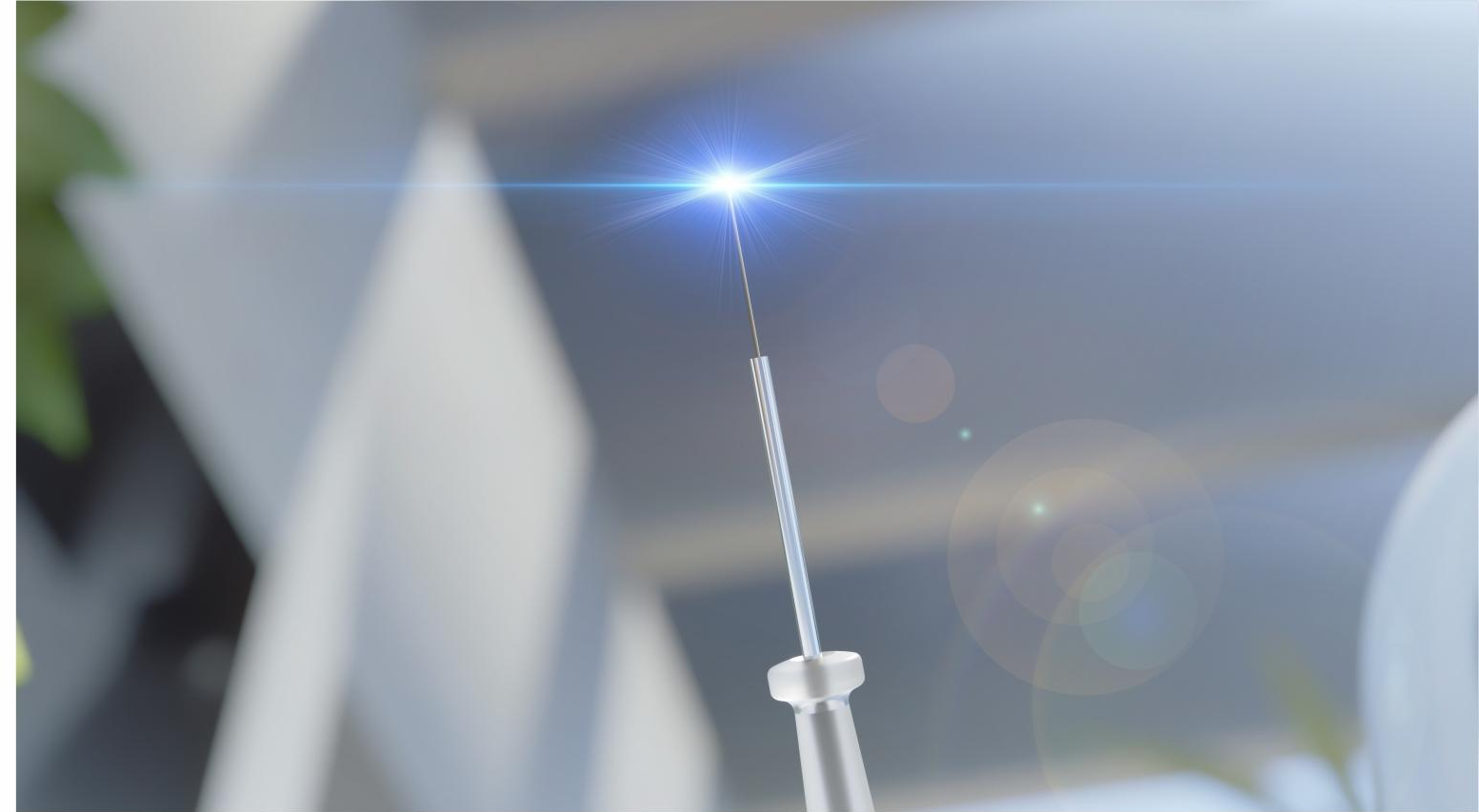


Four weeks later



# Intelligent human-machine interaction

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



## 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.

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# Effective prevention of cross-infection

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

# Large-capacity battery

11.1V 2600mAh x2 (57.7Wh) lithium battery, which can be used for one week on a single charge.





# Effective prevention

## Complete accessories

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

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



Metal handle enables flexible movements.

# Laser parameters

- Wavelengths & optical power:
  - 450  $\pm$  20 nm : Pmax=4w
  - 650  $\pm$  20 nm : Pmax=200mw
  - 976  $\pm$  20 nm : Pmax=7w
- 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 20 kHz
- Aiming beam:
  - 650  $\pm$  20 nm / Pmax<5mW
- Battery:
  - 11.1V 2600mAh x2 (57.7Wh)





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