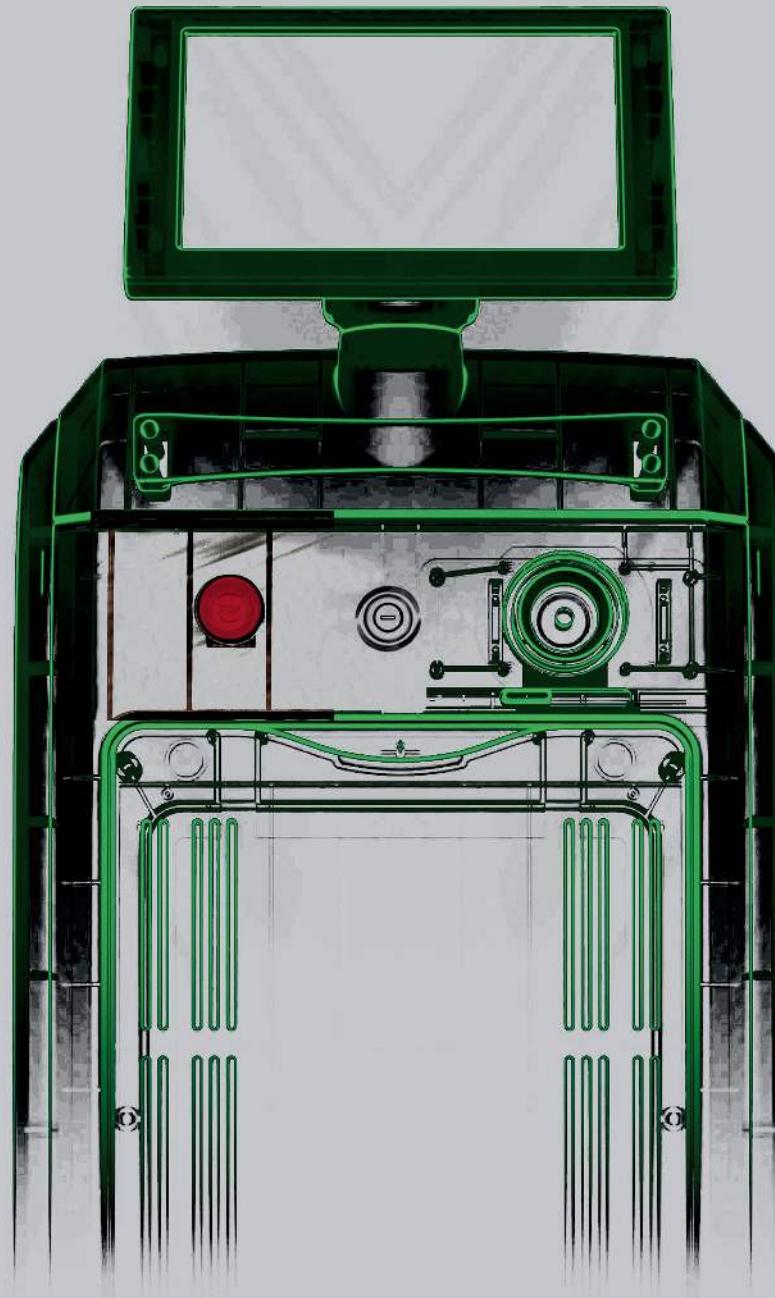


WE MEET YOU WHERE YOU ARE
AND TAKE YOU WHERE YOU NEED TO BE

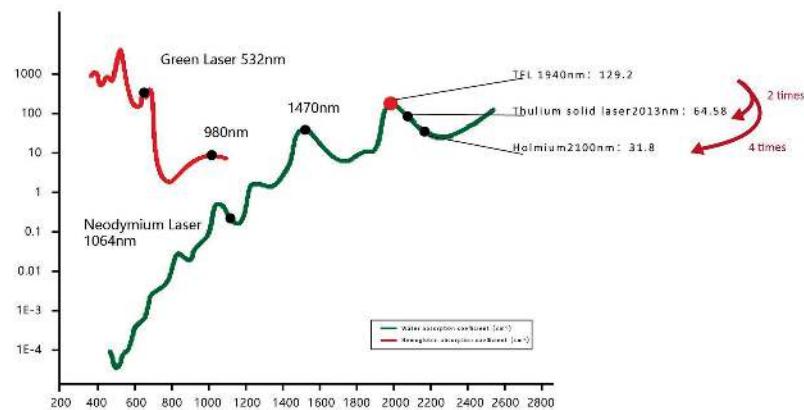


 **Wickland**
CW & SP THULIUM FIBER LASER





- The core technology is fully independently owned
- Advanced and the 4th generation thulium fiber laser technology
 - Combines both high-power continuous and super pulse mode outputs
 - optical-to-optical conversion efficiency increased by more than 20%
- Compatible with multiple fiber specifications
 - During fURS surgery, it can be used with a 150μm fiber, allowing flexible ureteroscope to achieve free deflection while maintaining better water irrigation



The absorption coefficient is 4-8 times higher than that of the holmium laser($\sim 129.2/\text{cm} \times 31.8/\text{cm}$)



Stone Treatment

- Laser flashing Solution
 - Through extensive experimental research in collaboration with multiple domestic teaching hospitals, a parameter combination has been identified that ensures both stone fragmentation efficiency and safety, while resolving the issue of laser flashing phenomena
- Combines Super Fine Dusting and Super Pulse Fragmentation
 - Ultra-high frequency and long pulse width lithotripsy can reduce stone powder diameter to less than 250μm, achieving super fine dusting for rapid stone expulsion. Low frequency and short pulse width lithotripsy can achieve super pulse fragmentation, ensuring efficient stone fragmentation.
- Faster stone fragmentation efficiency
 - With a water absorption coefficient 4 times that of holmium lasers, the stone ablation rate is 2-3 times faster, energy consumption is one-third, and the stone clearance efficiency is 1.6 times higher.
- Safer stone fragmentation
 - Tissue penetration depth is 0.1mm, effectively reducing intraoperative mucosal damage
 - Maintaining normal irrigation rate ensures that water temperature stays below, minimizing thermal damage
 - In cases of intraoperative bleeding, continuous output mode can be quickly employed for effective hemostasis.
- Minimized stone movement
 - Compared to traditional holmium lasers, a larger pulse width, higher frequency, and lower pulse energy achieve less stone displacement and enable in situ fragmentation.

BPH Treatment



Superior cutting mode combinations

- Continuous and superpulse dual-mode output
- Meets the requirements for different surgery techniques: vaporization, resection and enucleation
- Continuous output provides smooth cutting effects, improved coagulation, and enhanced hemostatic capabilities
- Pulsed output with high peak power for explosive fragmentation achieves capsule-gland blunt dissection, while also ensuring rapid hemostasis and reduced carbonization.



Rapid hemostasis

- Extremely high water absorption coefficient with continuous output laser enables rapid and efficient hemostasis.



BPH Treatment

- Maximum power of 120W/80W enables more effective BPH enucleation.
- Precise and smooth vaporization and cutting of prostate tissue



Minimized thermal tissue damage

- Excellent water absorption characteristics
- Energy can be extensively absorbed by water, resulting in thermal damage primarily confined to the superficial tissue. Since tissue penetration is shallow, the scab layer is thin, which minimizes severe adverse reactions such as significant tissue edema, necrosis, or the formation of slough. This leads to a faster postoperative recovery for patients.



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Human-interface interaction



Human-interface interaction

- 12-inch high-definition touchscreen with rotation capability provides smooth operation, clear control, and faster adjustment of surgical parameters.



Convenient connectivity

- Features a universal SMA905 fiber connector located on the front of the device, making fiber installation simpler



Smart feedback

- Real-time monitoring of the laser operating status ensures both laser output and safety



Foot-Pedal

- Features a three-pedal switch design, allowing control of the laser output status via the foot pedal for safer surgical procedures

Breakthrough and innovation
UROLOGY INNOVATION IS OUR PASSION

