

Deepra-S1 | 1470nm Diode Surgery Laser

Super-fast cooling system

All-in-one solution

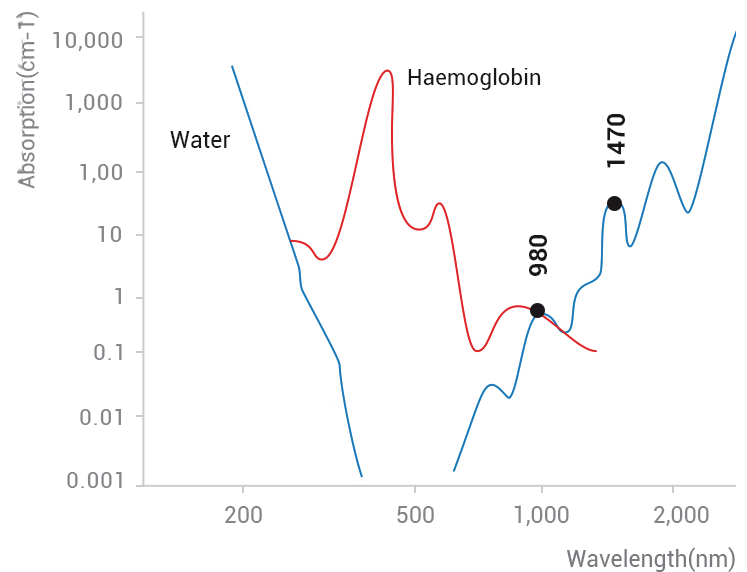
Rapid setup, intuitive user interface



Quality and Safety
Come First

Benefited from the excellent capabilities in laser optics, laser electronics and heat management, PIOON is proudly introduce you the S1 surgery laser with 1470nm. It has increasingly become the most suitable wavelength for surgery such as PLDD, EVLA, Proctology. Bring this laser to you is exactly what PIOON specializes in.

1470nm Power of Water



Standing apart in terms of industrial design and craftsmanship, S1 1470nm surgery laser delivers a high power 12W. It enables high precision cutting and ablation due to unparalleled water absorption.

Targeting water as the chromophore to absorb the laser energy, the S1 1470nm is a water-specific laser. The wavelength of the 1470nm laser is absorbed by cellular water 40 times better than the wave of 980nm laser. Besides, it has a high water absorption coefficient and is readily absorbed by oxyhemoglobin allowing for low-char hemostatic tissue removal.

Recommended Surgery

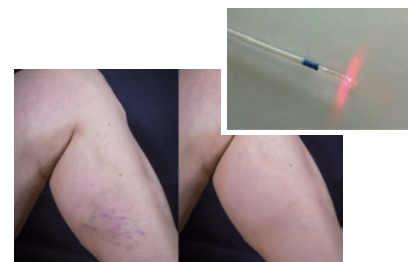


PLDD

The 1470nm with larger water absorption properties appears to have an effect on the entire nucleus pulposus and not only in surrounding tissue of laser fiber (carbonization zone). During PLDD disc volume is minimally decreased, however, disc pressure can be significantly lowered. In case of using laser to disc decompression, small amount of nucleus pulposus evaporates.

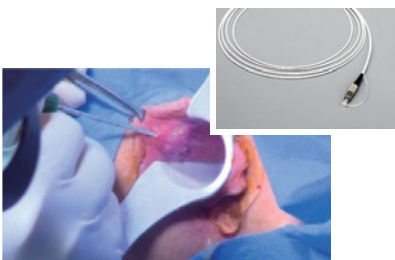
EVLA

Since the vein structure is mostly water, with its high water absorption, it enables precision ablation and highly localized heating, resulting in an optimal vein ablation. The procedure would bring the patient more comfortable treatment without post-operative bruising or swelling.



Before

After



Proctology

For cutting edge treatment of Anal Fistula and Hemorrhoids, with laser energy delivering, the radial fiber is inserted into the anal fistula tract and is used to thermally ablate and close off the abnormal pathway, the epithelialized tissue is being destroyed and the fistula tract collapses to a very high degree.

TECHNICAL SPECIFICATIONS

Wavelength	1470nm
Max Power	12W
Display/Control	7" HD vivid Touch-Screen/Smart OS
Aiming Beam	650nm<5mW
Fiber Connection	Medical fiber: 400µm and 600µm with standard SMA905 connector
Operating Modes	Continuous Wave(CW)/ Pulsed
Power Supply	18VDC 5A
Battery Capacity	3350mAh
Dimensions(L*W*H)	26cm(L) * 12.5cm(W) * 20cm(H)

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Medical Devices

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