



High Safety
Laser
Shockwave
Lithotripsy



Lithotripsy Laser
U100Plus



U100Plus: The Lithotripsy Laser

Since its introduction to the market, the FREDDY® technology has proven itself as a highly efficient and extremely safe lithotripsy system in the fields of urology and gastroenterology.

Universal Application in the Entire Urinary Tract & Bile Duct

In addition to its standard use in the ureter with semi-rigid instruments, the U100Plus is also well suited for the treatment of kidney stones within the scope of a therapy. Concrements located in the lower renal calyx, for example, are also easily reached and fragmented due to the highly flexible, super thin quartz fiber. Even large bladder stones are treated faster and with that more time- and cost-efficient using the U100Plus.

The extraordinary high performance potential of the U100Plus and the possibility to set different energy levels as well as single and dual pulses with frequencies of up to 20 Hz, provides urologists and gastroenter-

ologists with an extremely universal, highly efficient, and with that also very economically to operate lithotripsy system.

The trend towards therapeutic outpatient treatments, evident in all sectors of the health system due to rising costs, is decisively supported and facilitated with the use of the FREDDY® lithotripter.

Urinary calculus: Progress of fragmentation status



Technical Data

| | |
|------------------------|--|
| Laser wavelengths: | 532 nm and 1064 nm, dual pulse |
| Laser pulse energy: | 120 mJ and 160 mJ |
| Laser pulse duration: | 1.2 μ s (at 1064 nm) |
| Laser pulse rate: | 1, 3, 5, 10, 15, 20 Hz single and double pulses |
| Power requirements: | 100-240 V~ / 50-60 Hz 610 VA (6 A @ 110 V) |
| Dimension (W x H x D): | 250 x 850 x 600 mm |
| Weight: | approx. 45 kg/99 lbs. |

Technical data subject to modification, revision and improvement without notice

The FREDDY® Technology — Highest Levels of Efficiency and Safety

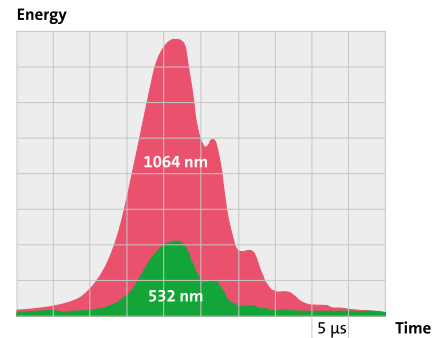
The energy of the FREDDY® lithotripter is transferred to the stone via a highly flexible quartz glass fiber and effects fragmentation with shockwaves generated directly on the application site.

The dual laser pulse of the FREDDY® technology contains a primary infrared part ($\lambda = 1064 \text{ nm}$) as well as a green part ($\lambda = 532 \text{ nm}$), which is optimally absorbed by the stones. Plasma is generated at the absorption site that is amplified by the infrared part. The plasma energy then converts to a shockwave with a mechanical effect, which in turn fragments the stone in a highly efficient manner. Because the surrounding tissue practically does not absorb the emitted green part level, plasma with a subsequent shockwave is not generated

here either. This means the non-thermal method of this method neither coagulates nor perforates tissue even in case of accidental direct fiber contact.

This functional principle is the basis for the demonstrably high safety standard of the lithotripsy laser U100Plus.

*Dual pulse of the U100Plus;
pulse energy up to 160 mJ*



FREquency-Doubled Dual Pulse Nd:YAG

Device and Accessories

| | |
|-----------|---|
| U100P-L01 | Lithotripsy Laser U100Plus |
| Z0889-01 | Laser Fiber SiliconeFlex300R plus reusable Ø 560 μm x 3.5 m, 10 x autoclavable |
| Z0890-01 | Laser Fiber SiliconeFlex300plus disposable Ø 560 μm x 3.5 m, 1 box = 5 pieces |
| Z0829-01 | Ceramic knife |
| Z0864-01 | Silicon pad |
| Z0824-01 | Safety goggles KTP/YAG Type Full View |
| Z0888-01 | Autoclavable Fiber Stripper for 400 - 430 μm Laser Fiber |
| Z0878-01 | Fiber holder for U100/U100Plus |
| Z0879-01 | Foot switch for Laser U100/U100Plus with connection cable (3 m) and plug |
| Z0823-01 | Cover for U100/U100Plus |

Further accessories available upon request



W.O.M. WORLD OF MEDICINE GmbH
Salzufer 8
10587 Berlin, Germany
Phone: +49 30 39981-550
Fax: +49 30 39981-545
E-mail: info.berlin@womcorp.com

W.O.M. WORLD OF MEDICINE GmbH
Alte Poststraße 11
96337 Ludwigsstadt, Germany
Phone: +49 9263 8 77-0
Fax: +49 9263 8 77-152
E-mail: info.ludwigsstadt@womcorp.com

W.O.M. WORLD OF MEDICINE USA, Inc.
4531 36th Street
Orlando, FL 32811, USA
Phone: +1 407 438-8810
Fax: +1 407 859-2425
E-mail: info.orlando@womcorp.com

W.O.M. WORLD OF MEDICINE ASIA Ltd.
Suite 2401, 24/F, Chinachem Exchange Square
1 Hoi Wan Street, Quarry Bay, Hong Kong
Phone: +852 2187 3557
Fax: +852 2187 3558
E-mail: info.hongkong@womcorp.com

