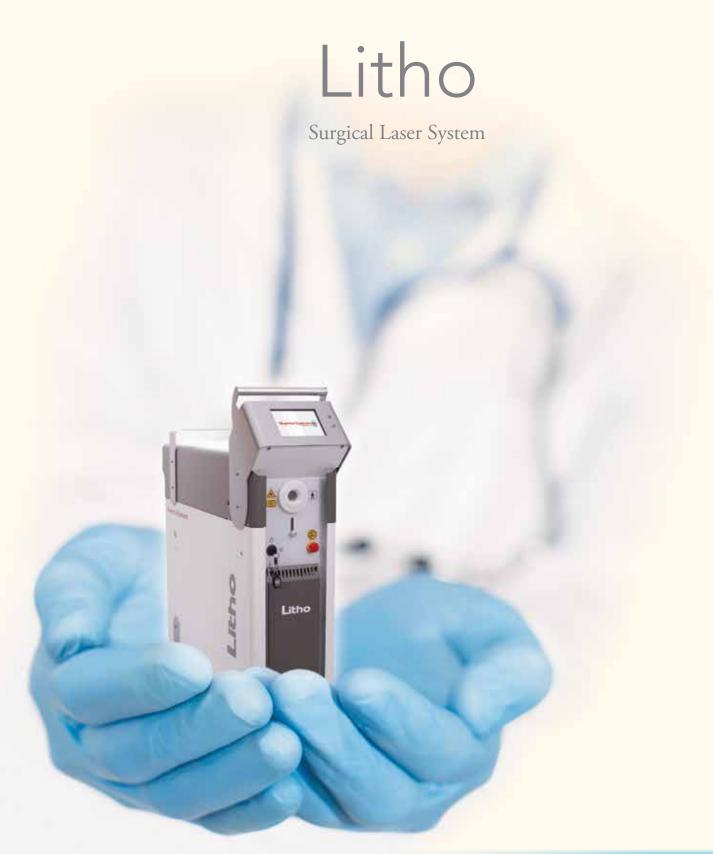


Taking care of people, our masterpieces



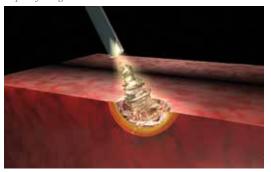


LITHO

30W - 35W HOLMIUM:YAG FOR LITHOTRIPSY

Litho surgical unit is based on Holmium (Ho:YAG) laser with emission at two micron (2100nm) wavelength. This wavelength is highly absorbed by water and biological tissue. The Litho automatically adjusts the correct pulse duration depending on the operating mode and sets the values of energy and repetition rate. When it is operating in a short pulse emission mode, it is highly effective in the fragmentation of calculi and the hard tissue ablation. In long pulse emission, it is highly effective in cutting soft tissue providing excellent hemostasis and coagulation with minimal damages of surrounding tissue, due to its low penetration depth. Because of the high radiation absorption by water, the application in a hydrous solution environment is highly safe.

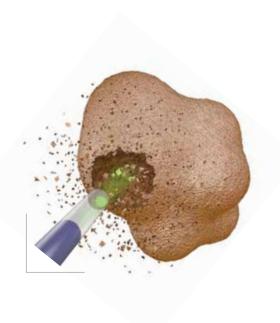
Depth of Coagulation 0.3 - 0.4 mm



APPLICATIONS

Litho laser system is an ideal tool for surgeons who want to get the best results in performing:

LITHOTRIPSY
GENERAL SURGERY
URETHROTOMY, URETEROTOMY
TRANSURETHRAL INCISION OF PROSTATE (TUIP)
TUMOR EXCISION



DUSTING EFFECT, AN ADDED VALUE

Quanta System introduces a new application setting: the Lithotripsy DUSTING EFFECT. This preset Application can be found on the main application menu beside Lithotripsy HARD STONE, Ablation and Coagulation.

The setting is intended for calculi, especially the renal ones, where the dusting effect lithotripsy technique could eliminate the need for basket extraction and that way reducing the total time of the procedure.

The employment of extended pulses and the broad regulation possibilities (concerning laser intensity and frequency) allow to adapt the treatment to calculus dimension and properties, strongly reducing retropulsion effects.

TECHNICAL FEATURES

The Litho laser system has state-of-the-art technical specifications, which represent a gold standard in surgical market:

Pulse energy: it is possible to set up to 5 J per pulse. The pulse energy is related to the fragmentation efficacy. It is ideal for hard stone treatments.

Repetition rate: the maximum repetition rate is 30 Hz. By using the high repetition rate and low pulse energy, a fine fragmentation is secured. The DUSTING effect function assures the effective dusting even at high repetition rates.

Pulse duration: the unit provides a broad range of pulse durations. Due to this feature, the system could select the most suitable modality of preset parameters on the application menu (HARD STONE-DUSTING-ABLATION-COAGULATION).

The maximum effectiveness in ablation and fragmentation is assured also when using flexible ureteroscopes.

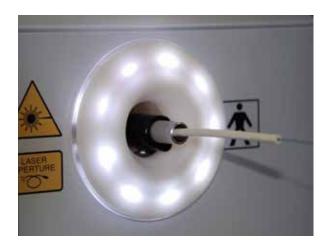
- up to 35 W Power Output
- up to 5 J Energy per Pulse
- up to 30 Hz Repetition Rate
- 95-1500 µs Pulse Duration
- RFID Fiber Recognition System
- Touchscreen Display
- Double Footswitch
- Frontal Footswitch Connection

OPERATIVE MODE

- Ablation
- Coagulation
- Lithotripsy Dusting Effect
- Lithotripsy Hard Stone

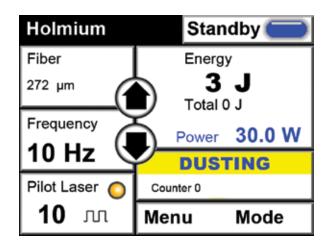
RFID

Through the RFID fiber recognition system, the connected fibers are automatically detected. The laser immediately sets up the adequate working parameters.



SMART INTERFACE

Interactive interface with intuitive shortcut to the main function. Smart selection of output settings depending on the operative mode. Wide color touchscreen.



DOUBLE FOOTSWITCH

The double footswitch with front connector allows the operator to control the Ready/Standby status directly from the footswitch without the need of assistance in operation by touchscreen.





BENEFITS TO THE PRACTITIONER

- Fast treatments
- Stability of the stone target during laser emission
- Using high power with fibers of small diameter
- Reducing or eliminating the use of urology basket thanks to fine fragmentation effect

LITHO IN BRIEF

Output Power up to 35 W

High Peak Power

Variable Pulse Width

Large Dynamic Power Range

Green Aiming Beam

Small Footprint Device

Dusting Mode

Low Maintenance and Minimal Operating Costs

Easy to Install and to Operate

RFID Fiber Detection System

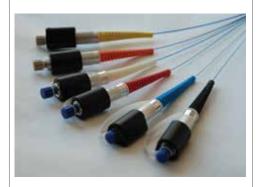
Double Footswitch

Fast Warm Up

Intelligent Fiber Recognition

OPTIONALS & ACCESSORIES

- Sterile single use or reusable fibers with core diameter ranging from 200 μm to 1000 μm , 3m long
- Sterile single use core diameter 600 μm side fiber, 3m long



- Adjustable Fiber Optic Stripper
- Special Sterilizable Fiber Optic Stripper
- Handpiece for Open Surgery Treatment
- Ceramic Scissors





TECHNICAL SPECIFICATIONS

	Model 30 W	Model 35 W
Average power	30 W	35 W
Repetition rate	3 ÷ 25 Hz	3 ÷ 30 Hz
Energy per pulse	0,2 ÷ 4 J	0,1 - 5 J
Wavelength	2,1 μm	
Pulse duration	95 ÷1500 μs	
Beam delivery	Wide range of flexible silica fibers	
Recognition fiber	RFID System	
Activation	Double Footswitch	
Aiming beam	532 nm, (adjustable <5mW) - Class 3R	
Electrical requirements	230 Vac, single phase; 50/60 Hz; 10 A - 115 Vac, single phase; 50/60 Hz; 20 A	
Cooling	Air cooled (closed water-air cooling circuit)	
Operating temperature	10°C ÷ 30°C	
Dimensions	260 (W) x 840 (D) x 920 (H) mm ³	
Weight	86 kg	
Laser Class	4 (IEC/EN 60825-1:2007)	

VISIBLE AND INVISIBLE LASER RADIATION

Avoid eye or skin exposure to direct or scattered radiation

Class 4 laser product
Maximum output laser radiation
Pulse duration
Wavelenghts
Aiming beam Class 3R
Standard IEC/EN 60825-1: 2007

30W 95 ÷ 1500µs 2,1µm <5mW@532nm

35W 95 ÷ 1500 µs 2,1 µm <5mW@532nm

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Note: National local authorities may put restrictions to the parameters indicated in the above table, or may limit or remove certain intended uses. Specifications are subject to change without notice.

Quanta System products are manufactured according to the International standards and have been cleared by the most important International notified bodies. The Company is EN ISO 9001:2008 and EN ISO 13485:2012 certified. Quanta System S.p.A. was founded in 1985 and belongs to the EI. En. Group (a public company listed in the Star segment of the Italian Stock Exchange) since January 2004. The company, divided into three business units (medical, scientific and industrial) is specialized in manufacturing of laser and opto-electronic devices.



