

Taking care of people, our masterpieces

Litho DK30

State-of-the-art Desktop 30 W Holmium:YAG Laser



This brochure is not intended for the U.S. market. Certain Intended Uses/Configurations/Models/Accessories are not cleared for U.S.



LITHO DK30 STATE-OF-THE-ART DESKTOP 30 W HOLMIUM:YAG LASER

Quanta System, thanks to the latest technology innovations, has collected in an extremely compact desktop system, the excellence of the Holmium:YAG - 30 W Laser.

The Litho DK30 can deliver up to **4 J per pulse**, it has a **repetition rate up to 25 Hz** and offers the possibility to regulate the pulse to achieve the desired clinical effect (ex. Dusting Effect).

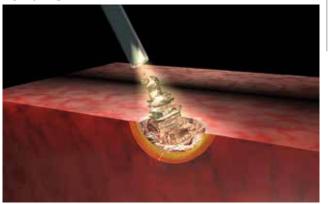
Litho DK30 is a contemporary desktop Holmium unit equipped with a series of technological solutions designed for surgery.

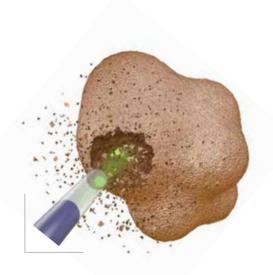
Litho DK30 surgical unit is based on Holmium (Ho:YAG) laser with emission at two micron (2100nm) wavelength. This wavelength is highly absorbed by water and biological tissue. The Litho DK30 automatically adjusts the correct pulse duration depending on the operating mode and sets the values of energy 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





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.

This setting is intended for calculi, especially the renal ones, where the dusting effect lithotripsy technique could eliminate the need for basket extraction, enabling total procedure reduction.

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

TECHNICAL FEATURES

- up to **4 J** Energy per Pulse
- up to **25 Hz** Repetition Rate
- 95-1500 µs Pulse Duration
- RFID Automatic Fiber
- **Recognition System**

- 10.4" Touchscreen
- Double Footswitch
- Automatic Aperture Sensor
- Frontal Footswitch Connection
- Blast Shield Smart Access

OPERATIVE MODE

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

APPLICATIONS

LITHOTRIPSY EXCISION OF BLADDER TUMORS URETEROTOMY, URETHROTOMY TRANSURETHRAL INCISION OF PROSTATE (**TUIP**) GENERAL SURGERY





Blast shield smart access

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





The **double** footswitch allows operator to control the Ready/Standby status directly by the footswitch without using the touchscreen. The Automatic aperture sensor enables the operator to connect the Quanta System fiber with one hand and without any contact with non-sterile parts.





Frontal footswitch connection

Wide color 10.4" touchscreen Interactive interface with intuitive shortcut to the main function. Smart selection of output settings depending on the operative mode.



LITHO DK30 IN BRIEF

Output Power up to 30 W

High Peak Power

Variable Pulse Width

Large Dynamic Power Range

Green Aiming Beam

Compact Desktop System

Dusting Mode

Low Maintenance and Minimal Operating Costs

Easy to Install and to Operate

RFID Fiber Detection System

Automatic Aperture Sensor

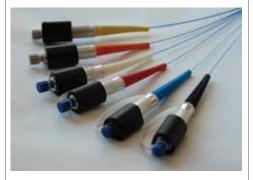
Double Footswitch

Fast Warm Up

Intelligent Fiber Recognition

OPTIONALS & ACCESSORIES

- Sterile single use or reusable fibers with core diameter ranging from 200 μ m to 1000 μ m, 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

Wavelength	2,1 µm			
Average power	Up to 30 W			
Repetition rate	3 ÷ 25 Hz			
Energy per pulse	0,2 ÷ 4 J			
Pulse duration	95 ÷1500 μs			
Beam delivery	Wide range of flexible silica fibers			
Recognition fiber	RFID System			
Laser aperture	r aperture Automatic (proximity sensor)			
Aiming beam	532 nm, (adjustable <5mW) - Class 3R			
Electrical requirements	100-120 Vac; 50/60 Hz; 16 A - 200-240 Vac; 50/60 Hz; 10 A			
Cooling	Air cooled (closed water-air cooling circuit)			
Operating temperature	10°C ÷ 30°C			
Humidity	30% - 85% (no condensing)			
Dimensions	495 (W) x 565 (D) x 373 (H) mm ³			
Weight	40 kg			
Laser Class	4 (IEC/EN 60825-1:2007)			

VISIBLE AND INVISIBLE LAS Avoid eye or skin exposure to direct or		\wedge	
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	CAUTION - Laser radiation	(€ 0123

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.



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