

Litho DK30

30W HOLMIUM:YAG FOR LITHOTRIPSY

Litho DK30 surgical unit is a desktop device based on Holmium (Ho:YAG) laser with emission at 2100 nm wavelength.

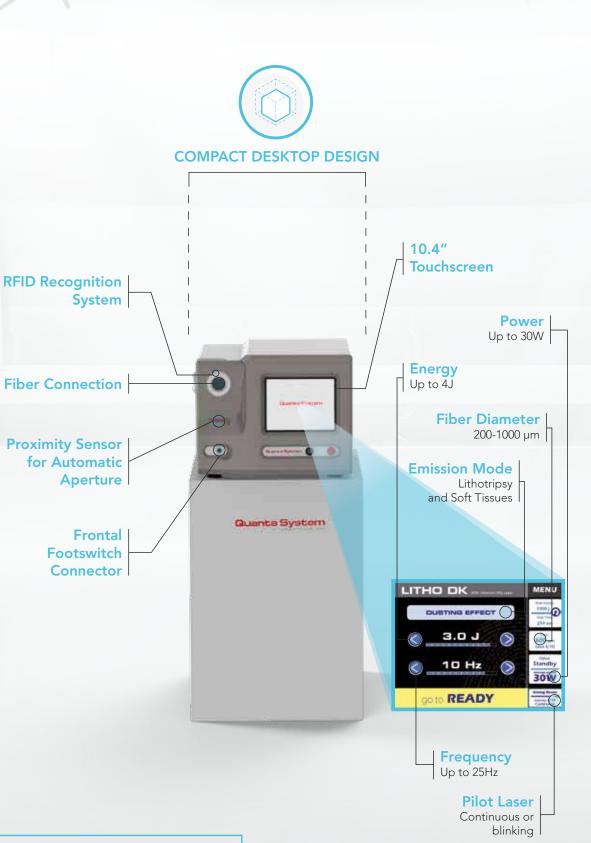
This wavelength is highly absorbed by water and biological tissue providing excellent cutting, ablation and hemostatic properties.

The limited radiation penetration (0.3 - 0.4 mm) results in minimal damages to surrounding tissue.

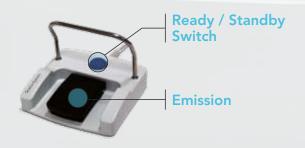
The **Litho DK30** automatically adjusts the emission settings based on fiber diameter and selected mode.

General Overwiew

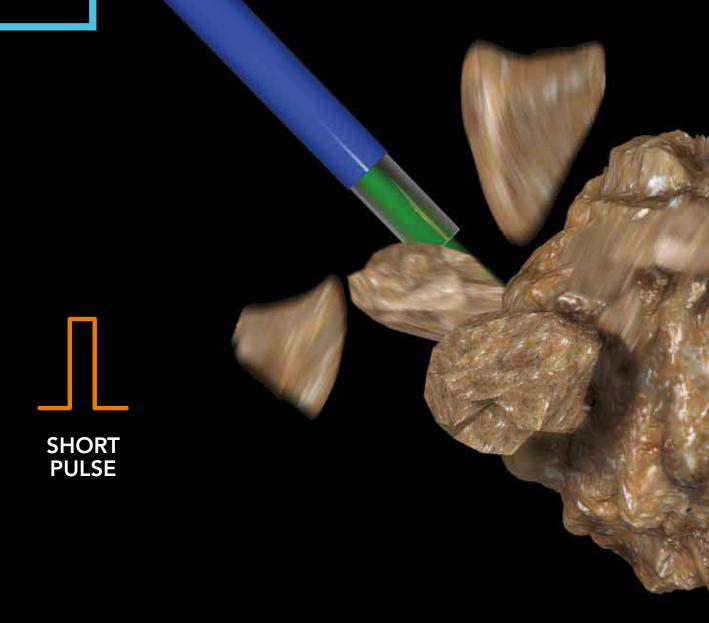
- Effective Lithotripsy
- ✓ Reduced Depth of Penetration
- ✓ High Versatility
- ✓ Soft Tissue Surgery
- ✓ Compact Design
- ✓ Quick ROI
- ✓ Proximity Sensor



FOOTSWITCH



Fragmentation





HIGH PULSE ENERGY

Up to 4 J, for superior pulse energy range



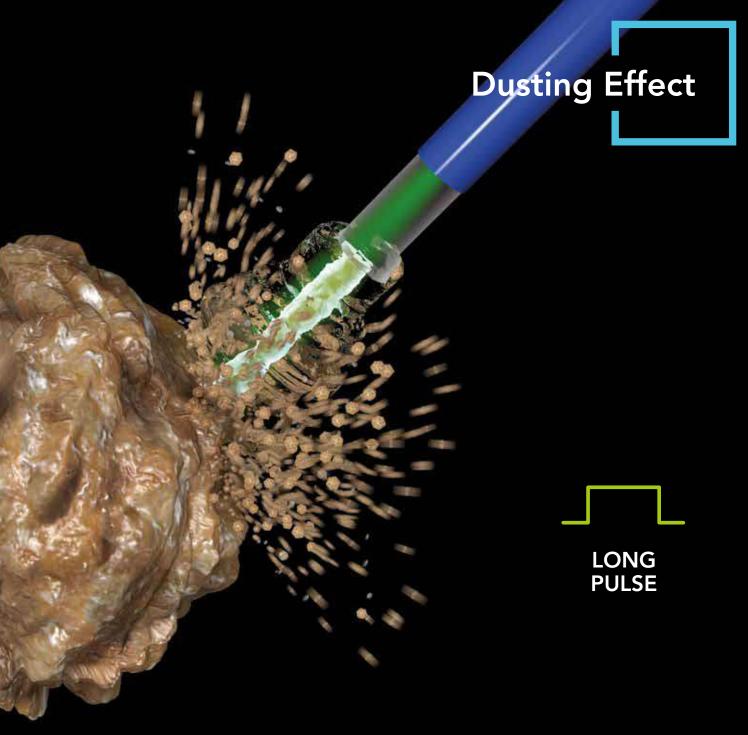
TREAT ALSO THE HARDEST STONES

Greater pulse energy allows to break harder stones



COLLECTION BASKET NEEDED

Retrieve stone pieces upon fragmentation





Up to 1500 μs, for smooth ablation



LIMITED RETROPULSION

Easy ablation with no need to fetch stone



NO NEED FOR BASKET

The obtained fine dust obviates the retrieval phase



Settings Matter



Up to 30 W,

for fast tissue incision



HIGH PULSE ENERGY

Up to 4 J,

for the fragmentation of the hardest stones



HIGH FREQUENCY

Up to 25 Hz,

for fast low energy ablation



LARGE PULSE WIDTH RANGE

Up to 1500 μs,

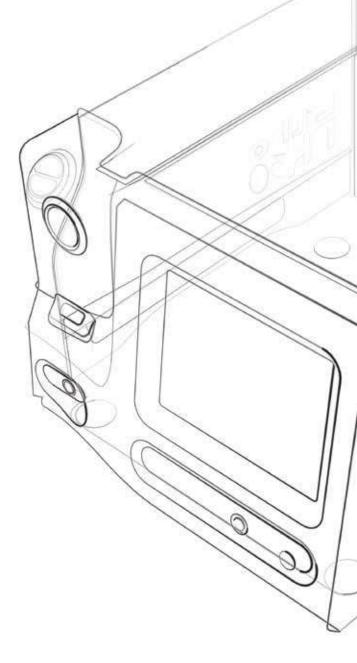
for superior Dusting lithotripsy



FLEXIBILITY

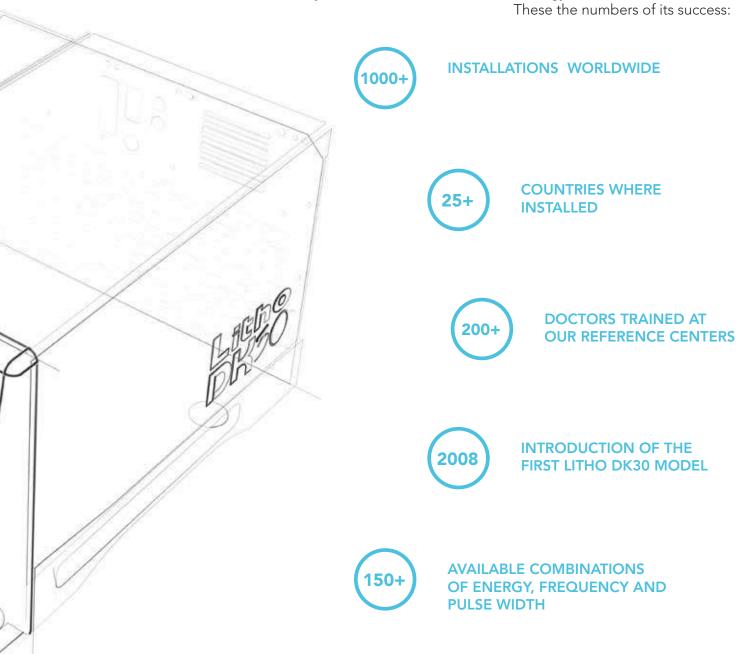
High power also with small fibers





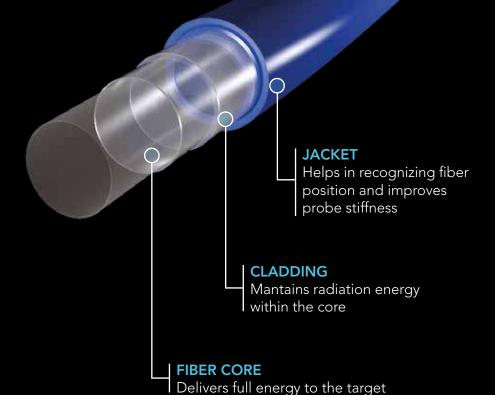


Litho family is a well-established laser technology in the worldwide market.



Fibers

Litho DK30 device can be operated with a large range of fibers, depending on the application, flexibility and settings required.





STANDARD FIBERS

For general use in stone and soft tissue treatments



BALL TIP FIBERS

Strongly simplify the insertion in already bent scopes



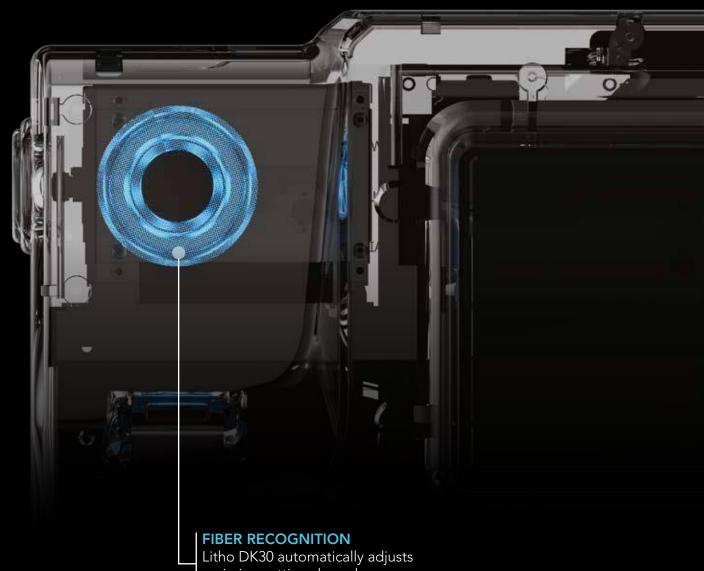
PERFORMANCE FIBERS

Designed to deliver great power even with small fibers



GASTRO FIBERS

Specifically designed for the fragmentation of gallstones



Litho DK30 automatically adjusts emission settings based on the connected fiber diameter



AVAILABLE DIAMETERS

200, 272, 365, 550, 800 and 1000 µm



REUSABILITY

All fibers are available both as disposable and reusable (except ball tip model)



CLEANING

Reusable fibers can be sterilized by Sterrad® and steam sterilization



STERILIZATION TRAY

A dedicated fiber and tool sterilization tray is available

Applications

Litho DK30 can be used to perform incision, excision, resection, ablation, vaporization, coagulation and hemostasis of soft tissue and in lithotripsy of stones in various medical specialties, including: **ENT SIALOLITHIASIS DISCECTOMY GASTRO** -**ENTEROLOGY ARTHROSCOPY UROLOGY** LITHOTRIPSY TUMOR (Bladder, UUT) STRICTURES BNI

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
Aiming beam	532 nm (adjustable <5 mW) - Class 3R
Fiber recognition	RFID System
Electrical requirements	100-120 Vac; 50/60 Hz; 16 A - 200-240 Vac; 50/60 Hz; 10 A
Cooling	Closed water air cooling circuit
Operating temperature	10° C - 30° C
Humidity	30% - 85% (no condensing)
Dimensions and weigth	50 cm (W) x 57 cm (D) x 37 cm (H) - 40 kg

VISIBLE AND INVISIBLE LASER RADIATION

Avoid eye skin exposure to direct or scattered radiation

Laser product: Class 4 Aiming beam: Class 3R





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 UNI EN ISO 9001:2015 and EN ISO 13485:2016 certified. Quanta System S.p.A. was founded in 1985 and belongs to the El. 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.

