Quanta System
LASER IN OUR DNA

Litho DK30

Holmium Laser System

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

SURGERY

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

COMPACT DESKTOP DESIGN

RFID Recognition System

Fiber Connection

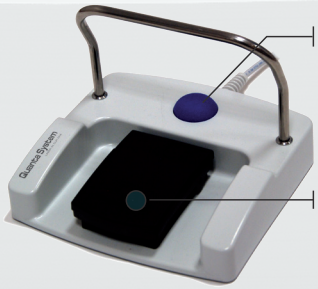
Proximity Sensor for Automatic Aperture

Frontal Footswitch Connector

Emission Mode
Lithotripsy and Soft Tissues

- **10.4" Touchscreen**
- **Fiber Diameter**
  200-1000 µm
- **Frequency**
  Up to 25 Hz
- **Pilot Laser**
  Continuous or blinking
- **Energy**
  Up to 4 J
- **Power**
  Up to 30 W

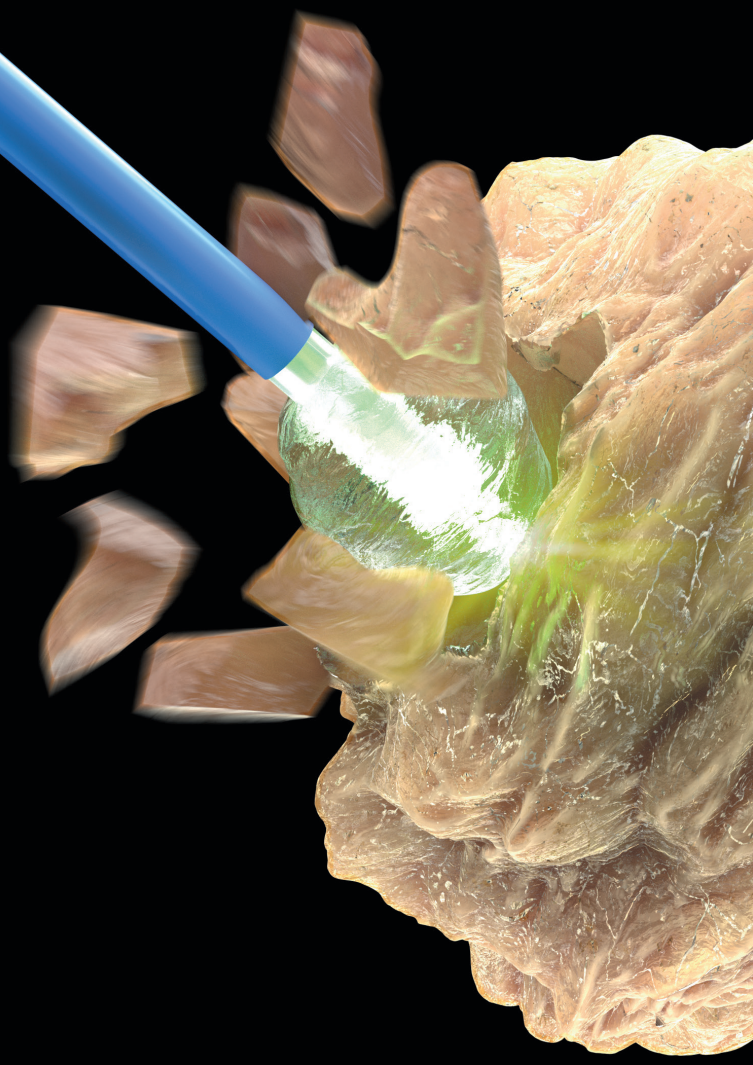
FootSwitch



Ready / Standby Switch

Emission

Fragmentation



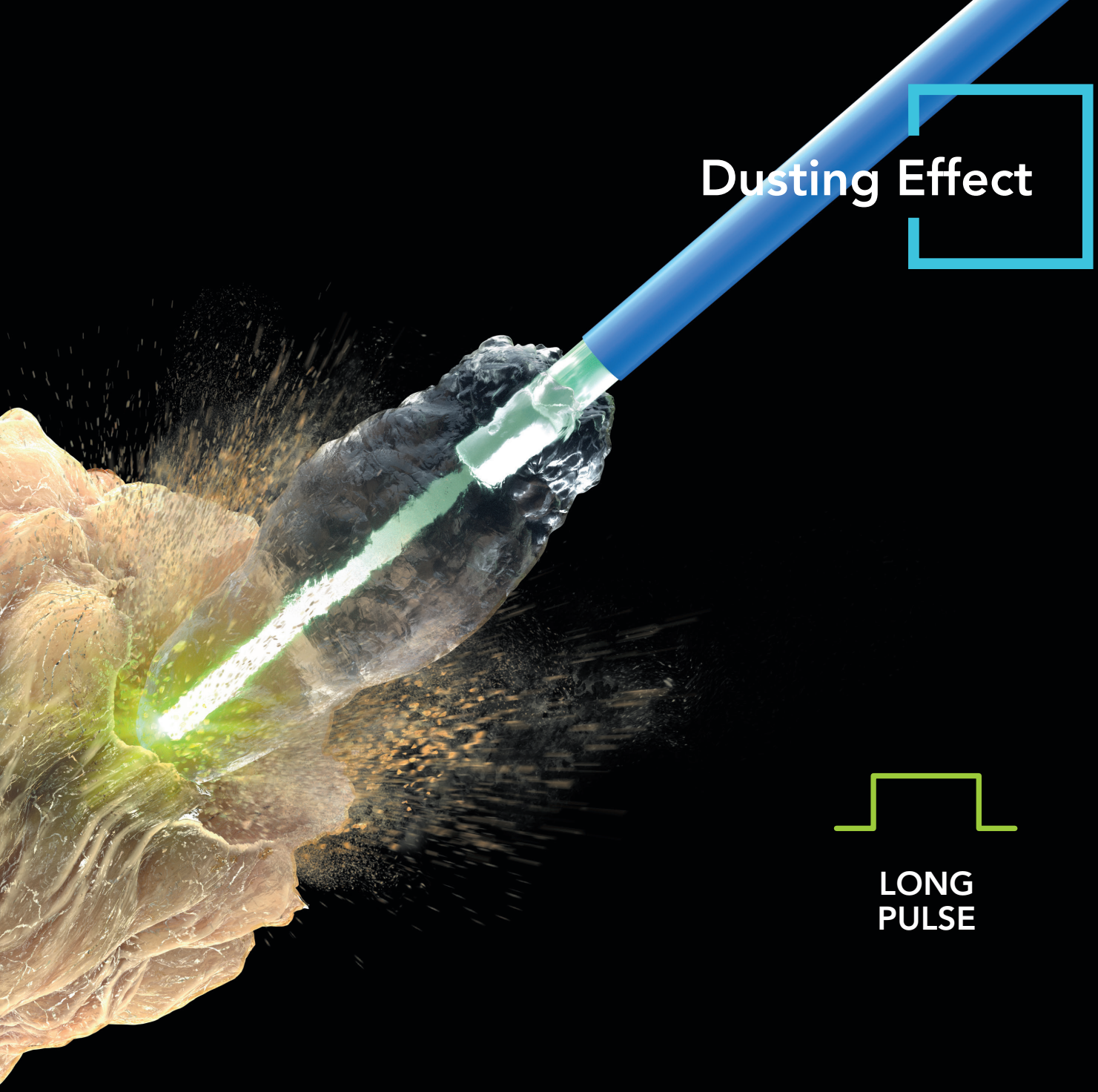
SHORT
PULSE

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

Dusting Effect



LONG
PULSE

LONG PULSE WIDTH
Up to 1500 µs, for smooth ablation

LIMITED RETROPULSION
Easy ablation with no need to chase stone

NO NEED FOR BASKET
The obtained fine dust obviates the retrieval phase

Settings Matter

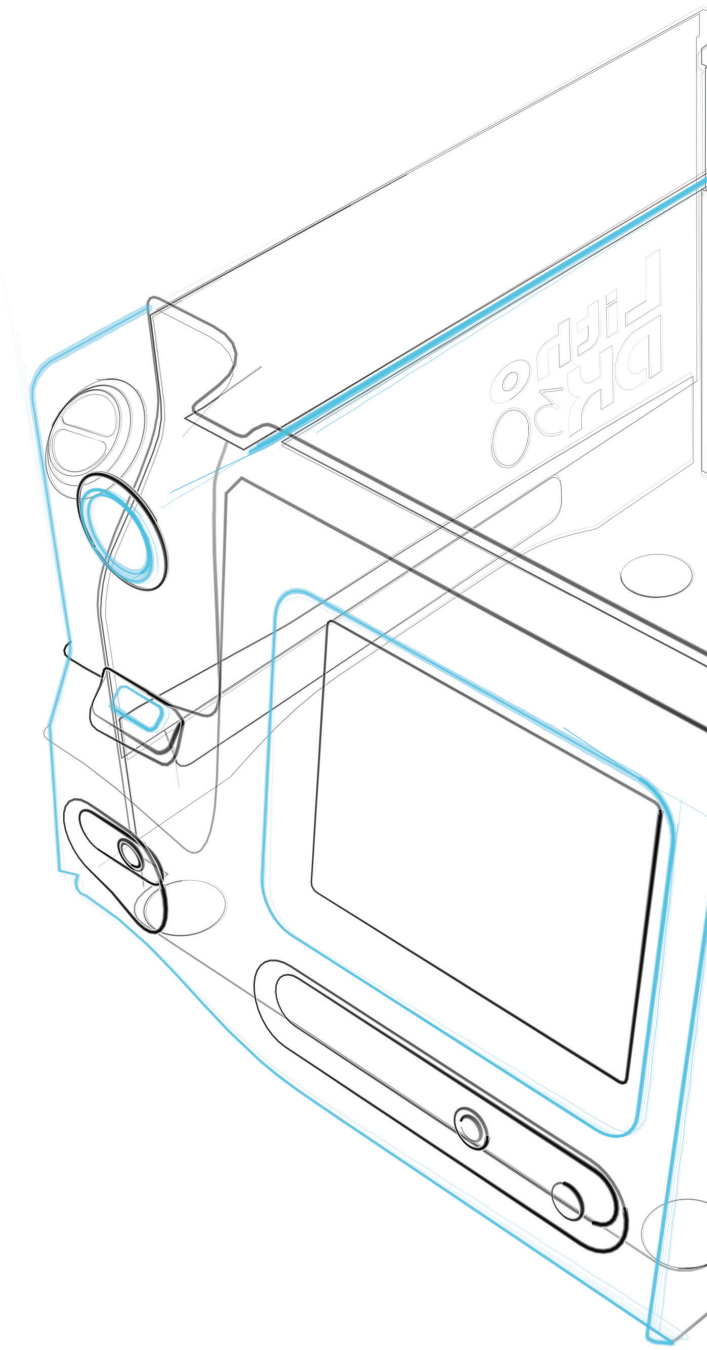
HIGH POWER
Up to 30 W,
for fast tissue incision

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

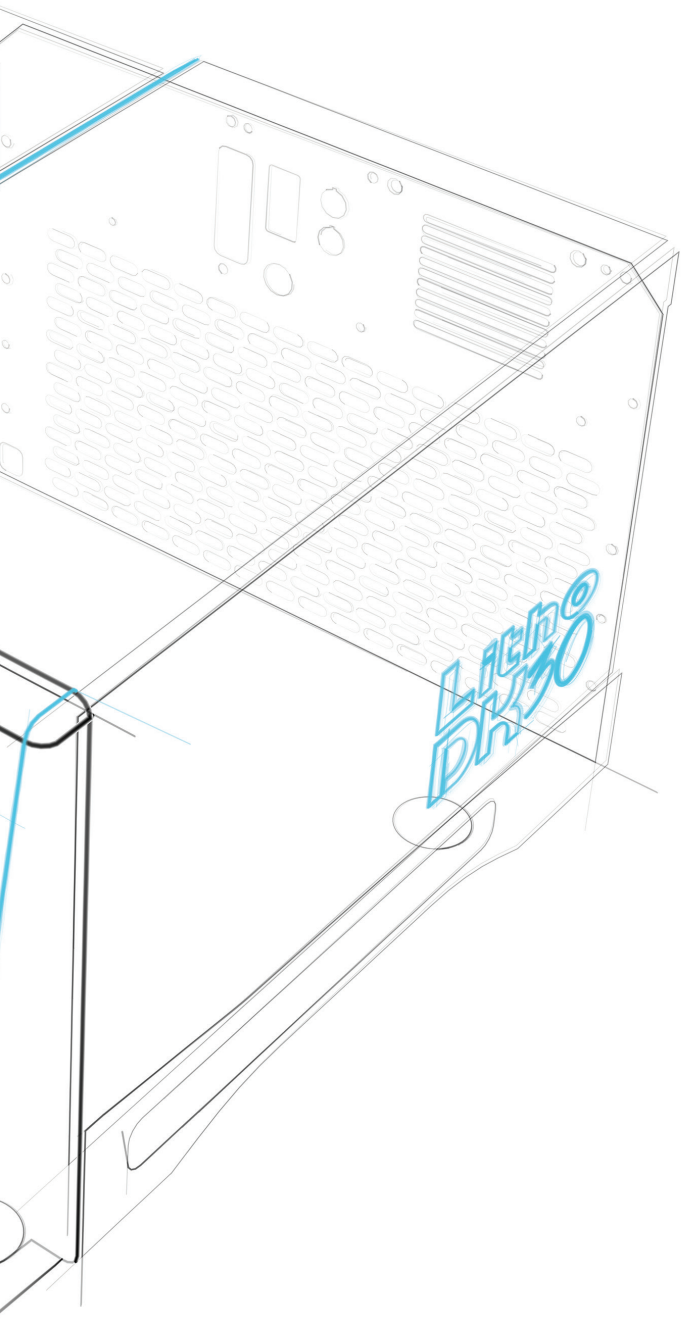


NUMBERS OF VERSALITY

Emission Modes 4	*Fiber Diameters* 6	*Fiber Types* 4

Reliability

Litho family is a well-established laser technology in the worldwide market.
These the numbers of its success:



1000+ INSTALLATIONS WORLDWIDE

25+ COUNTRIES WHERE INSTALLED

200+ DOCTORS TRAINED AT OUR REFERENCE CENTERS

2008 INTRODUCTION OF THE FIRST LITHO DK30 MODEL

150+ AVAILABLE COMBINATIONS OF ENERGY, FREQUENCY AND PULSE WIDTH

Fibers

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

JACKET
Helps in recognizing fiber position and improves probe stiffness

CLADDING
Mantains radiation energy within the core

FIBER CORE
Delivers full energy to the target

STANDARD FIBERS

For general use in stone and soft tissue treatments

BALL TIP FIBERS

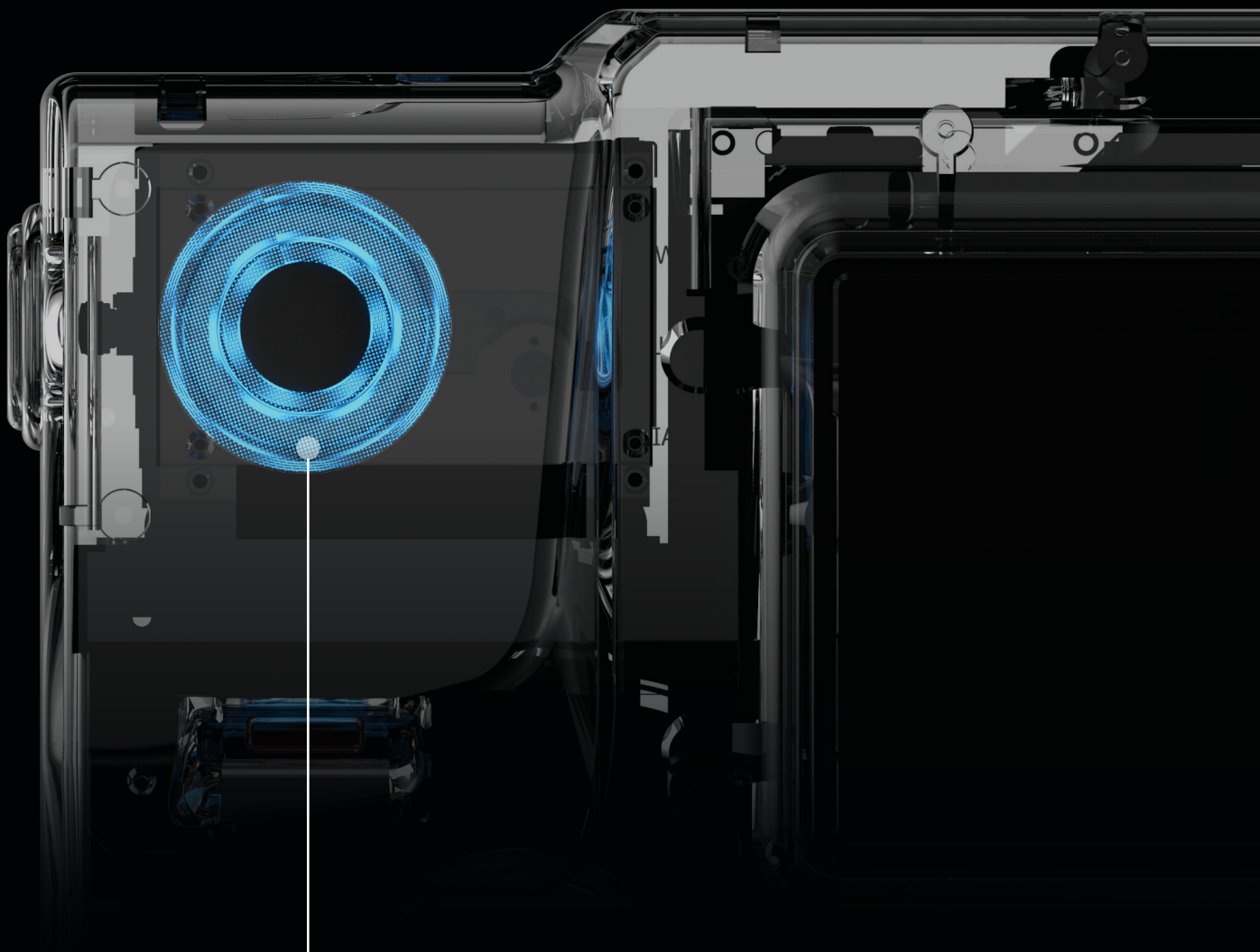
Strongly simplify the insertion in already bent scopes

PERFORMANCE FIBERS

Designed to deliver great power even with small fibers

GASTRO FIBERS

Specifically designed for the fragmentation of gallstones



FIBER RECOGNITION
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

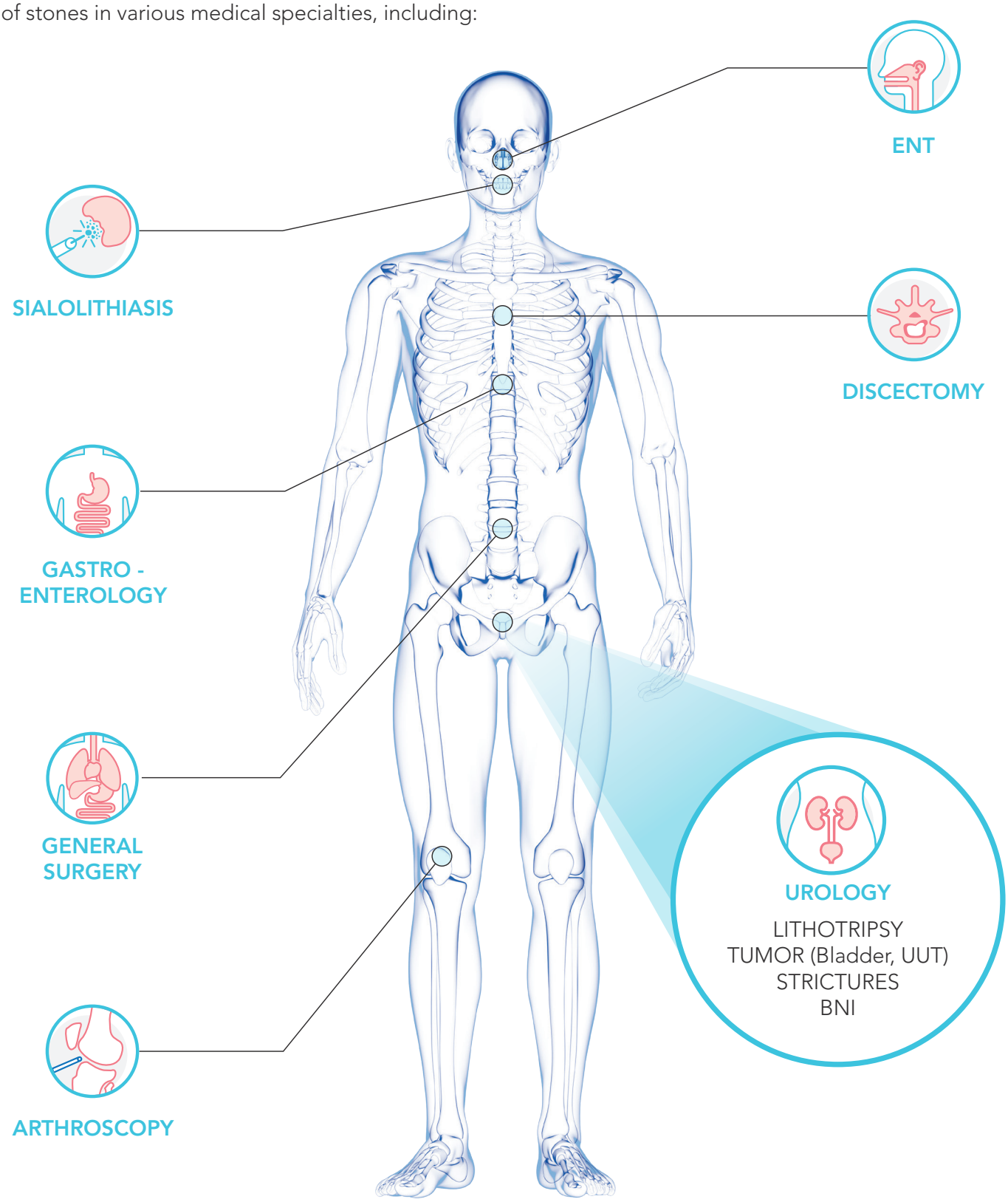
Reusable fibers can be sterilized by Sterrad® and steam sterilization

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:



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

CE 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 UNI EN ISO 9001:2015 and EN ISO 13485:2016 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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BRO-LITHODK30-rev004-ROTW