

# 30W Holmium:Yag SURGICAL LASER SYSTEM for Lithotripsy

**HIGH PEAK POWER** 

**VARIABLE PULSE WIDTH** 

LARGE DYNAMIC POWER RANGE

**GREEN AIMING BEAM** 

**SMALL FOOT PRINT DEVICE** 

**DUSTING MODE** 

LOW MAINTENANCE AND MINIMAL OPERATING COST

EASY TO INSTALL AND TO OPERATE

**RFID FIBER DETECTION SYSTEM** 





# **Holmium Surgical Laser System**

# Why the 2,1 µm laser wavelength?

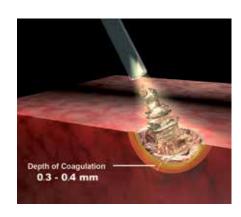
Litho surgical system is based on Holmium laser with emission at two micron wavelength.

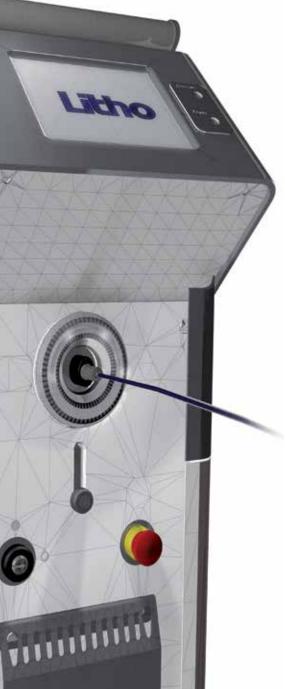
This wavelength is highly absorbed by water and biological tissues.

The laser is operating only in pulsed mode. When it is operating in short pulse emission mode it is highly ef-

fective in the fragmentation of calculi and in the hard tissue ablation. In long pulse emission mode it is highly effective in cutting soft tissues providing excellent haemostasis and coagulation with minimal damages of surrounding tissues due to its low penetration depth.

Thanks to its high water absorption the application in a hydrous solution environment is highly safe.





## **Applications**

- Lithotripsy
- Excision of bladder tumors
- General Surgery

- Ureterotomy, Urethrotomy
- Trans Ureteral Incision of Prostate (TUIP)

# **Dusting Effect, an added value**

Quanta System introduces a new application setting: the Lithotripsy DUSTING EFFECT.

This preset Application is inside 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.

Due to the extended pulse properties, the specific settings of repetition rate and pulse energies, characteristic for dusting lithotripsy, assures a more stable position of the calculi.



# **Operative Mode**

- Ablation
- Coagulation

- Lithotripsy Hard Stone
- Lithotripsy Dusting Effect

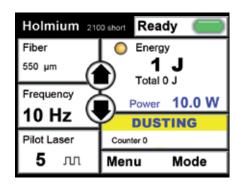


#### **Technical Features**

- up to 30W Power Output
- up to 4J Energy per Pulse
- up to 25 Hz Repetition rate
- **95-1500 μs** Pulse duration
- RFID Fiber Recognition System
- Display Touch Screen
- Double Footswitch
- Frontal Footswitch Connection

#### **Smart Interface**

Interactive interface with intuitive shortcut to the main function.
Smart selection of output setting depending to the operative mode.
Wide Color Touch screen.



#### **Double Footswitch**

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



### **Accessories**

#### **Surgical Laser Fiber**

Sterile single use and reusable fibers with core diameter ranging from 200 to 1000 micron.

#### **Optionals**

- Fiber Handpiece
- Adjustable Fiber Stripper
- Fixed Sterilizable Fiber Strippers
- Ceramic Fiber Scissor





#### **MEDICAL DIVISION**

TECHNICAL SPECIFICATIONS	
Wavelength	2,1 µm
Average power	up to 30 W
Repetition rate	3 ÷ 25 Hz
Energy per pulse	9.0,2 ÷ 4 j
Pulse duration	95 ÷1500 μs
Beam delivery	Wide range of flexible silica fibres
Recognition fiber	RFID System
Activation	Double Footswitch
Aiming beam	532 nm, (adjustable <5mW) - Class 3R
Electrical requirements	230 V ac, single phase; 50/60 Hz; 10 A
	115 V ac, single phase; 50/60 Hz; 20 A
Cooling	Air cooled (closed water-air cooling circuit)
Operating temperature	10°C ÷ 30°C
Storage temperature	5°C ÷ 40°C
Humidity	30% - 85% (no condensing)
Dimensions	260mm (W) x 840mm (D) x 920mm (H)
Weight	0 80 kg 3 3 5 6 5 6 9 6 9 6
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 iming beam Class 3R Standard IEC/EN 60825-1: 2007

30W 95÷1500µs 2,1µm <5mW@532nm

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Distributor



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

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