

**The Q1 Imprinting**

Q1 DNA is the philosophy that characterises Quanta System products. Each machine is the perfect synthesis (100% Q1) of Human Intelligence and technological know-how, two factors that make the development of innovative laser technologies a natural process at Quanta System.

**Innovative Philosophy**

Quanta System produces lasers and laser systems for a wide range of scientific, medical and industrial applications. DNA Laser Technology is not just a marketing promise, It is also a way of thinking, working, and creating values to be shared, it is a concrete and profound commitment, the corporate policy of an expert and determined group which makes technological research its mission every day.



D N A L A S E R T E C H N O L O G Y

**Building values**

Quanta System translates its of unique features, differentiation and DNA Laser Technology into seven universal key values. These values express

the strength of a united group with its sights on the future, thus becoming a research engine for change and innovation.

**Research & Innovation**

Innovation is a primary asset. Quanta System continually contributes to scientific progress step by step building up scientific knowledge.

**Strategic Growth**

Quanta System opens up the pathway for the evolution of laser technology: improving the world and ourselves.

**Technology**

Technology is the most important driving factor of a company that has always focussed on excellence in the medical, industrial and scientific fields.

**Autonomy**

The products are all conceived, designed, created, and distributed by Quanta System: guaranteeing the autonomy of DNA Laser Technology worldwide.

**Assistance and Service**

Quanta System listens carefully to its clients throughout all the phases of design and development, product assistance and solutions. Its natural inclination as a company is that of always making itself available to the laser community with a great sense of service and ingenuity.

**Multicultural**

Quanta System breaks down every cultural and geographic barrier. Its laser technology represents an instrument for ensuring a better future for millions of human beings.

**Flexibility**

Quanta System is a dynamic, versatile, and open minded company, constantly focussed on action and change.



## Litho

### 30W Holmium:Yag SURGICAL LASER SYSTEM

HIGH PEAK POWER

VARIABLE PULSE WIDTH

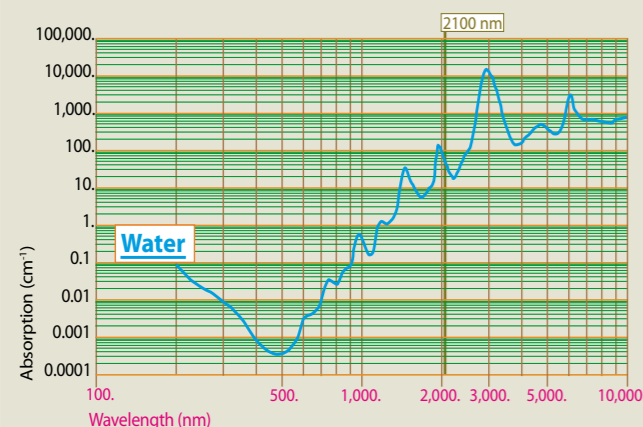
LARGE DYNAMIC POWER RANGE

GREEN AIMING BEAM

SMALL FOOT PRINT DEVICE

LOW MAINTENANCE  
AND  
MINIMAL OPERATING COSTEASY TO INSTALL  
AND  
TO OPERATE

Absorption spectrum of water



### Why the 2100 nm 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 effective in the fragmentation of calculi and in the hard tissue ablation.

In long pulse emission mode it is very effective in cutting soft tissues providing excellent haemostasis and coagulation with minimal damages of surrounding tissues due to its low penetration depth.

Due to its high water absorption the utilization in a hydrous solution environment is very safe.

### APPLICATIONS:

- Lithotripsy <sup>(1)</sup>,
- Prostate enucleation <sup>(2)</sup>,
- Excision of bladder tumors <sup>(3)</sup>,
- Urethrotomy, Ureterotomy <sup>(4)</sup>, <sup>(5)</sup>,
- Nasal treatments <sup>(6)</sup>,
- Discectomy <sup>(7)</sup>,
- Arthroscopy <sup>(8)</sup>,
- Polyps ablation,



### REFERENCES

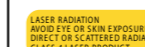
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### SPECIFICATIONS

Wavelength	2100 nm
Average power	up to 30W
Repetition rate	3÷20 Hz
Pulse energy	0,3÷3 j
Pulse duration	150÷800 µs
Beam delivery	Wide range of flexible silica frontal fibres
Aiming beam	532nm, (adjustable <3mW)
Electrical requirements	200-240VAC, single phase; 50-60Hz; 10A
Cooling	Air cooled
Operating temperature	10°C-25°C
Storage temperature	10°C-40°C
Humidity	30%-85% (no condensing)
Dimensions	260mm (W) x 840mm (D) x 920mm (H)
Weight	37kg

### ACCESSORIES

Urology	800 µm core frontal 3m long, sterile and reusable 600 µm core frontal 3m long, sterile and reusable 400 µm core frontal 3m long, sterile and reusable 200 µm core frontal 3m long, sterile and reusable
ENT	Endonasal and laryngeal fibre probes
PLDD	Single use sterile complete set including: 200 or 360 µm core frontal fibres with 21G or 18G needle and PLDD adaptor and cannula
General Surgery	200, 300, 400, 600 µm core, 3m long, sterile and reusable frontal fibre
Dermatology	External focusing handpiece with interchangeable spot sizes



Distributor