

SURGERY

MEDICAL DIVISION

POLYSURGE
1470

HIGH POWER DIODE SURGICAL LASER SYSTEM

SOLID STATE TECHNOLOGY

HIGH OUTPUT POWER

DYNAMIC POWER RANGE

AUTOMATIC FIBRE TYPE RECOGNITION

NO EXTERNAL WATER REQUIRED

LOW ELECTRICAL POWER CONSUMPTION

EASY TO INSTALL AND TO OPERATE

EXTREMELY QUIET

LIGHT WEIGHT

COMPACT AND PORTABLE

MINIMAL MAINTENANCE COST

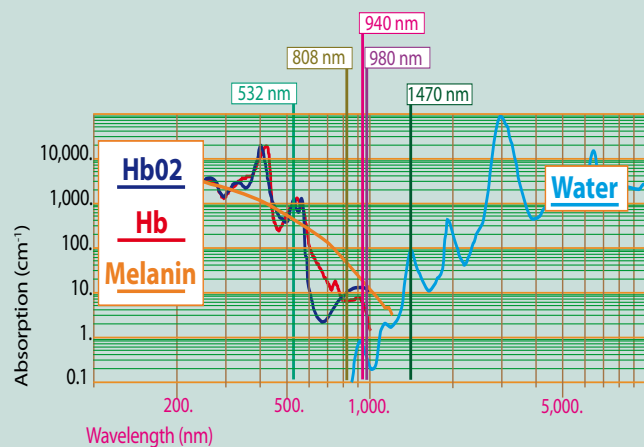


Quanta System
DNA Laser Technology



SURGERY MEDICAL DIVISION

Absorption spectrum of water, haemoglobin and Melanin



Why the 1470 nm laser wavelength?

Because the tissues contain a high percentage of water, it is important that a surgical laser would be absorbed by the water to ablate and to cut tissues properly.

The 1470nm wavelength corresponds to a peak of water absorption.

This laser is also ideal for minimal invasive and safe treatments of venous diseases because it is absorbed by the intracellular water of vein vessel and by the water content in blood.

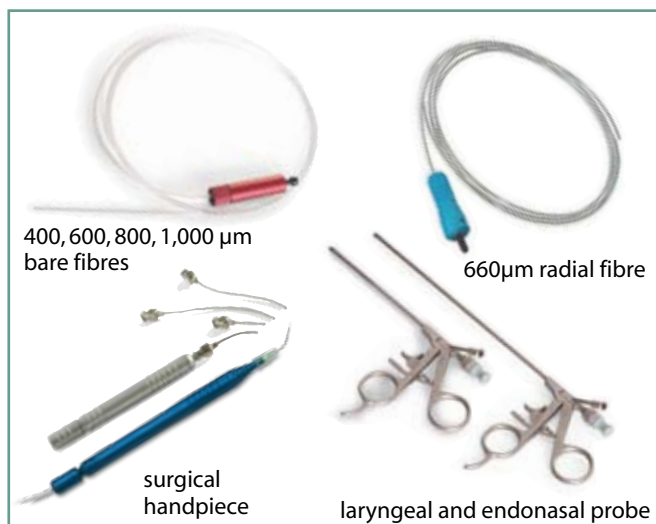
Due to the low absorption of melanin this wavelength can be also used for dermatologic transcutaneous treatments.

APPLICATIONS:

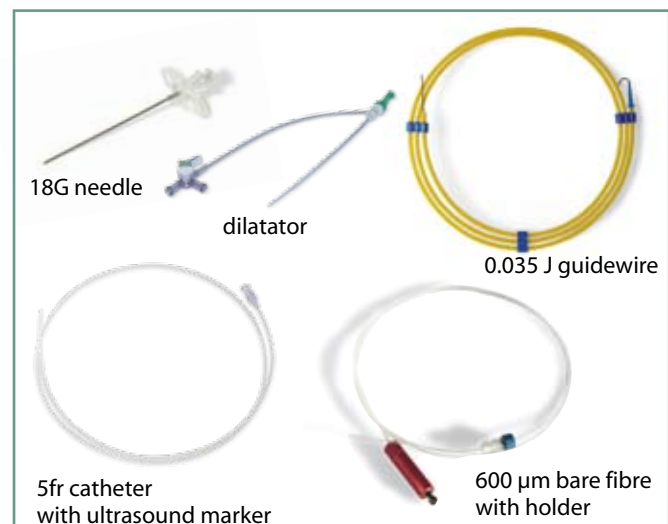
- Flebology
- ENT
- Proctology
- Urology
- Gynaecology
- Dermatology
- PLDD
- Transcutaneous treatments
- Laparoscopy
- General surgery



Accessories



Endovascular set



SPECIFICATIONS

Wavelength	1470 nm (*)
Power	100W, 50W, 30W, 15W
Emission mode	Pulsed/Continuous Single pulse Pulse sequence Continuous
Beam delivery	Wide range of flexible silica frontal and side-firing fibres
Aiming beam	635nm, (adjustable <4mW)
Electrical requirements	200-240VAC, single phase; 50-60Hz; 16A
Cooling	Air cooled
Operating temperature	10°C-30°C
Storage temperature	10°C-40°C
Humidity	30%-90%
Dimensions	305mm (W) x 450mm (D) x 985mm (H)
Weight	28kg

(*) Option: 1320nm, 1530nm.

ACCESSORIES

Urology	600 µm core side firing, 3m long, single use sterile 600 µm core frontal 3m long , sterile and reusable 400 µm core frontal 3m long , sterile and reusable
ENT	Endonasal and laryngeal fibre probes
PLDD	Single use sterile complete set including: frontal fibres with 21G or 18G needle and PLDD adaptor and cannula
Flebology	Single use sterile complete set for endovascular application
General Surgery	400, 600, 800 µm core, 3m long, sterile and reusable frontal fibre Reusable fibre handpieces and applicators
Dermatology	External focusing handpiece with interchangeable spot sizes for vascular and transcutaneous applications

VISIBLE AND INVISIBLE LASER RADIATION
Avoid eye or skin exposure to direct or scattered radiation
Class 4 laser product.
Maximum output laser radiation 100W
Pulse duration CW
Wavelengths 1470nm
Aiming beam Class 3R 4mW@635nm
Standard CEI-EN 60825-1: 2003-02

DANGER

VISIBLE AND INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE
TO DIRECT OR SCATTERED RADIATION

DPSS - LASER: 1470nm MAX OUTPUT 100W
DIODE LASER: 635nm MAX OUTPUT 4mW
CLASS IV LASER



LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT



Distributor

0476

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.

Technology

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

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.

Research & Innovation

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

Autonomy

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

Flexibility

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

Strategic Growth

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

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.

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