

BioSpec

Break in the clouds

LPhT-630/675-01-BIOSPEC



Key Features

- Up to 2.5 W CW Optical Power
- 630 - 675 nm Wavelength Range
- Fiber Optic Tools Set
- Automatic Calculation of Irradiation Dose
- Timer

HIGH POWER LASER SYSTEM FOR PHOTODYNAMIC THERAPY OF CANCER

The variable power range of our laser system LPhT-630/675-01-BIOSPEC enables effective photodynamic therapy of intracavity, interstitial and superficial lesions. The system contains a set of fiber optic tools for different applications. It is generally used for skin, oral cavity, esophagus, stomach, lung, mammary gland, urinary bladder and rectum therapy.

The available wavelengths match therapeutic medical requirements for photodynamic therapy with Photofrin, Photosan, 5-ALA, Chlorine E6 and phthalocyanines as well as most worldwide used photosensitizers.

Maximum continuous wave optical power is 1 W at the output connector as a rule. Higher optical power is available under customer demand.

Useful and easy-to-operate control system permits to monitor the optical power and to preset the irradiation time. The irradiation dose is calculated automatically during therapy.

The system is based on fiber coupled laser diodes providing high reliability and high efficiency.

The laser system comes in a compact housing or in a case for 19" rack mounting compatible to DIN 41494. Maintenance-free, no water cooling needed, ready to operate immediately after switching on.



Specifications

(Typical values at 25°C)

Optical Specifications

CW Output Power (mW)	100 - 1000*
Wavelength Range (nm)	depends on photosensitizer used
Irradiating Time Range (min)	1 - 60
Output Optical Connector	SMA-905
Fiber Optic Diffusers**:	
direct (polished tip without diffuser)	TF-D600
cylindrical (5-20 mm length)	TF-C5 – TF-C20
interstitial (needle)	TF-N05

Input Specifications

Input Voltage Range (V)	100 - 240
Input Frequency Range (Hz)	50/60
Maximum Power Consumption (W)	140
Minimum Electric Mains Output Capability	1 A @ 220 V, 1.5 A @ 115 V

Package Specifications

Overall Size (mm/in.)	
Width	470
Depth	340
Height	140
Weight (kg/lb)	11

* - higher power is available on request;

** - fiber optic kit depends on customer demands. Custom fiber diffuser configurations are available.

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