

BioSpec

Break in the clouds

UFPh-630/675-01-BIOSPEC



Key Features

Up to 1 W Optical Power
Uniform Irradiation Distribution
Integrated Imaging Device
Fluorescent Diagnostics Control Option

LED SYSTEM FOR PDT AND DIAGNOSTICS WITH FLUORESCENT IMAGER

LED light source UFPh-630/675-01-BIOSPEC allows to perform photodynamic therapy of superficial lesions together with fluorescent monitoring.

Features of the system are optimal for its using during photodynamic therapy Photofrin, Photosan, 5-ALA, Chlorine E6 and phthalocyanines as well as most worldwide used photosensitizers.

Integrated high sensitive imaging device enables to observe fluorescent image of superficial lesions on the display screen and determine borders of tissue areas with high photosensitizer accumulation.

The system is based on ultra bright light emitting diodes with high reliability and efficiency. LED's irradiation forms on a tissue a circle with about 10 cm diameter with uniform distribution of light within. Total optical power of the system is up to 1 W, power density is up to 40 mW/cm^2 .

The system may be complete with a table holder or tripod.



Specifications

(Typical values at 25°C)

Optical Specifications

Total Optical Power* (mW)	1000
Maximal Optical Power Density (mW/cm ²)	40
Wavelength Maximum (nm)	depends on photosensitizer used
Spectral Half-width (nm)	30
Imaging Device Sensitivity (Lux)	0.05
Wavelength Range of Imaging Device (nm)	400 - 1000
Minimal Determined Photosensitizer Concentration in Skin (mg/kg)	0.1

Input Specifications**

Input Voltage Range (V)	100 - 240
Input Frequency Range (Hz)	50/60
Maximum Power Consumption (W)	80
Minimum Electric Mains Output Capability	0.5 A @ 220 V, 1.0 A @ 115 V

Package Specifications**

Overall Size of the Irradiator (mm)	
Width	180
Depth	180
Height	200
Overall Size of the Power Supply (mm)	
Width	78
Depth	169
Height	50
Weight (kg)	
Irradiator	1.0
Power Supply	0.9

* - up to 2000 mW according to customer's demand;

** - without video monitor and holder/tripod (optional).

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