

# 1197nm Laser For Photoacoustic Imaging



## DESCRIPTION

Photoacoustic imaging (PAI) is a new non-invasive and non ionizing biomedical imaging method developed in recent years. When the pulse laser irradiates the biological tissue, the light absorption domain of the tissue will produce the ultrasonic signal. The light acoustic signal generated by the biological tissue carries the light absorption characteristic information of the tissue. By detecting the light acoustic signal, the light absorption distribution image in the tissue can be reconstructed. It can break through the “soft limit” (~ 1 mm) of high-resolution optical imaging depth and realize the imaging of 50 mm deep tissue in vivo.

## FEATURES

- High-efficiency nonlinear frequency transformation
- Compact and easy to integrate
- Local control and external control

## PARAMETERS

Model	CL1197-1W-LPI001	
Optical Parameter	Central wavelength (nm)	1197
	Output Power (mJ)	>100
	Energy Stability	<3%
	Repeat Frequency (Hz)	10
	Pulse Width (ns)	5-10
Function Parameter	Divergence Angle	<2
	Control Method	Local / Remote
	Control Interface	DB9, RS422
	Cooling Method	Water cooling
Environmental Requirements	Powered By	220VAC/50Hz
	Operating Temperature (°C)	15-35
	Storage Temperature (°C)	0-50
	Humidity	0-80%
Weight and Size	Laser Head Weight (Kg)	10
	Power Weight (Kg)	5
	Laser Head Size (mm)	500*250*120
	Power Size	3U

## OUTLINE SIZE(mm)

