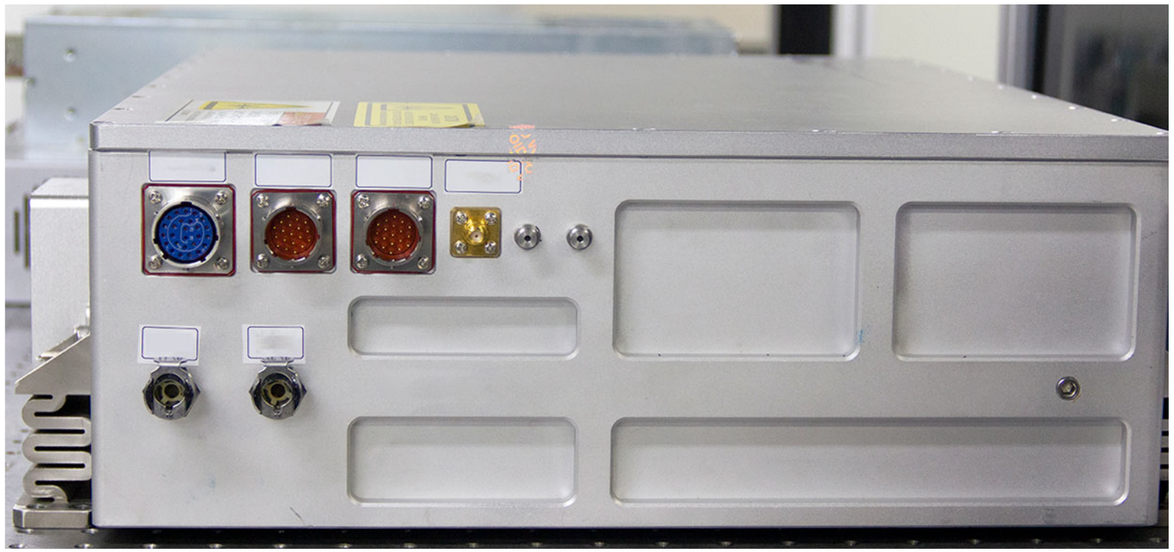
1730nm Laser For Photoacoustic Imaging



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		CL1730-2W-LPI002
Optical Parameter	Central wavelength (nm)	1730
	Output Power (mJ)	＞1
	Energy Stability	＜3%
	Repeat Frequency (KHz)	2
	Pulse Width (ns)	～10
	Divergence Angle	＜7
Function Parameter	Control Method	Local / Remote
	Control Interface	DB9，RS422
	Cooling Method	Water cooling
	Powered By	220VAC/50Hz
Environmental Requirements	Operating Temperature (℃)	15-35
	Storage Temperature (℃)	0-50
	Humidity	0-80%
Weight and Size	Laser head weight (Kg)	10
	Power Weight (Kg)	10
	Laser Head Size (mm)	464*260*118.5
	Power Size	2U

OUTLINE SIZE(mm)