

Multi-wavelength Laser Systems

HJ Optronics, Inc. supplies multi-wavelength laser systems. 2~4 wavelengths can be combined into one laser box. Wavelengths are available within UV-Visible-IR range. Systems include diode lasers and DPSS lasers.

Multiple laser systems can be in two separate modules: laser and electrical driver, or in a single box. Laser output can be in free space or deliver in optical cable with multiple mode or single mode fiber.

The multi-wavelength lasers are widely used for medical, biomedical, and industrial applications. USB or RS232 interface connector is optional.

Features

- Integrated laser diodes
- Laser cavity
- Fiber coupling optics
- Laser power supply
- LD current control
- Compact and user friendly

Applications

- Medical
- Biomedical
- Industrial

Specifications

Wavelength (nm)	Refer to the table below
Operating Mode	CW, TTL or analog on request
Fiber Core Diameter (um)	Available for customized on request or free space
Fiber Connector	SMA905/FC
Output Power (mW)	Available for customized on request
Power Stability (rms, over 4 hours)	<1%, 3%, 5%
Electric Power	100 ~ 240VAC, 50 ~ 60 Hz
Warm-up Time (minutes)	<10
Operating Temperature (C°)	10~35
Modulation	TTL or analog at 1Hz – 1KHz, 1kHz-10kHz, (10-30kHz optional)
Cooling Approach	Air cooling
Expected Life Time (hours)	10,000
Warranty	12 months

Wavelength combination selections:

Two wavelengths (nm)	Three wavelengths	Four wavelengths	Beam Combiner
405/506	405/473/532	405/447/532/637	Red/Green/Blue combiner
405/589	473/532/635	405/488/532/637	Polarization beam splitter/combiner
405/593.5	447/532/637		
473/589	405/532/640		
473/593.5	473/532/655		
532/635	473/532/671		
532/655			

