



Multi-Wavelength Laser Combiner System

The MWLC Systems are single or multi-channel laser systems with integrated control electronic, which makes it easy to operate. Single channel systems combine from 2 to 20 wavelengths, multi-channel systems 2-4 wavelengths in a single one box. USB or RS232 port is available as an option. The wavelength range is from UV (375nm) over visible up to IR (1064nm). The laser source can either be laser diodes or DPSS lasers. The output can be fiber coupled or free beam and each wavelength can be individually modulated. The multi-wavelength laser systems are widely used for medical, biomedical, and industrial applications.

Applications

- Fluorescence Microscopy
- Flow Cytometry
- Photolysis
- Biomedical Research
- Optogenetics

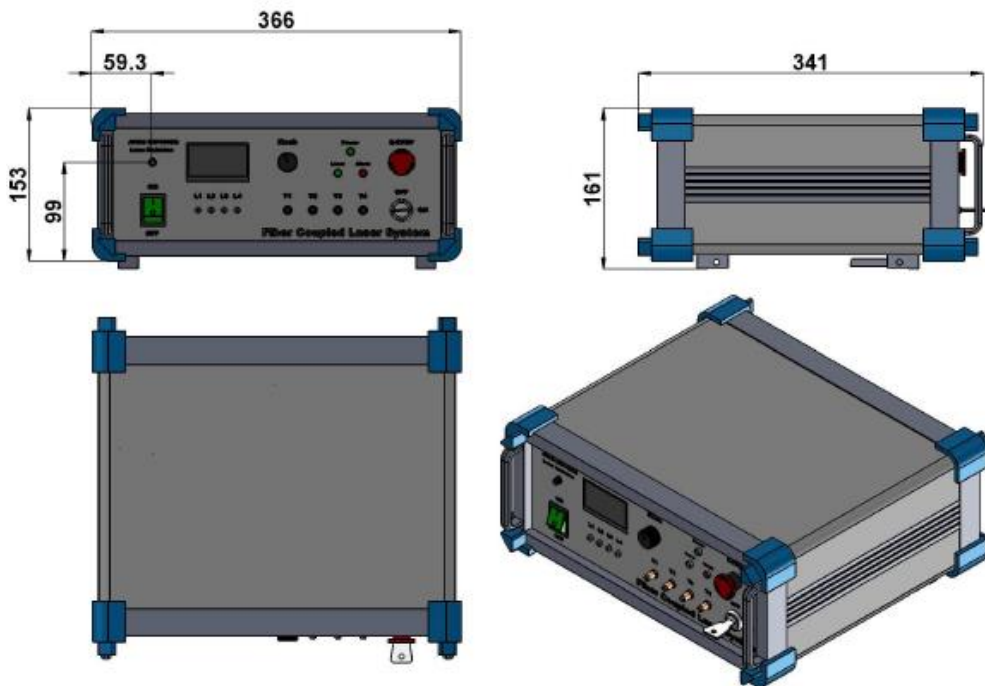
The multi-wavelength laser system is also designed as a standalone unit for biophysics laboratories or OEM suppliers to house their own lasers.

Specifications

Wavelength (nm)	375 - 1064*
Output Power SM Fiber (mW / λ)	$\leq 50^*$ (3 wavelength) $\leq 200^*$ (2 wavelength)
Output Power MM Fiber (W / λ)	$\leq 10^*$
Operating Mode	CW
Power Stability (RMS, over 4 hours)	<2%, <3%, <5%*
Warm-up Time (minutes)	<10
Modulation	TTL / Analog up to 30kHz (optional)
Cooling Method	Conduction cooled
Operating Temperature ($^{\circ}$ C)	10 - 35
Expected Lifetime (hours)	10000

* To be specified

Housing Examples



Fiber Laser System

- Even round beam or square beam.
- Laser speckle reducer system.
- Adjustable beam diameter.
- Fiber type: PM, SM, MM

