FC-785 High Power Fiber CoupledLaserSystem

High Power Fiber Coupled Laser System

The High Power Fiber Coupled Laser System integrates laser, fiber coupled optics, laser power supply and temperature control into housing. It is coupled with a line generator at the fiber end.

It has features of high power, perfect line uniformity and continuously adjustable line width. Line generator can be customized on request.

High Power Fiber Coupled Laser System with its stable performance, high reliability works professionally in line-scanning Raman spectroscopy system.

FEATURES

- Output power up to 50W
- Wavelength tolerance is 785±0.5nm
- Spectral linewidth less than 0.2nm
- Lens angle of line generator is optional
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APPLICATIONS

- Raman detection
- Industrial

SYSTEM SPECIFICATION*

Wavelength	nm	**785**
Wavelengthtolerance	nm (typical)	**±0.5**
Outputpower	W	**10~50**
Power stability (rms, over 4hours)		<0.5%, <1%,<2%
Laseroperationmode		CW
Spectral linewidth (FWHM)	nm	0.2 (0.1,optional)
Fibercorediameter	μm	400/ 200/ 100 (Otherfibercorediameterare availableon request)
Fiber NA		0.22
Fiberconnector		SMA905/FC
Fiberlength	m	1 (Other lengthsare availableon request)
Expected lifetime	hours	10,000

ELECTRICAL SPECIFICATIONS

InputvoltageVAC 100-240		
Modulation		TTL modulation Analogmodulation
Modulationfrequency	kHz	TTL up to30 Analogup to30
Remote control		RS232/ Networkport

ENVIRONMENTAL CONDITIONS

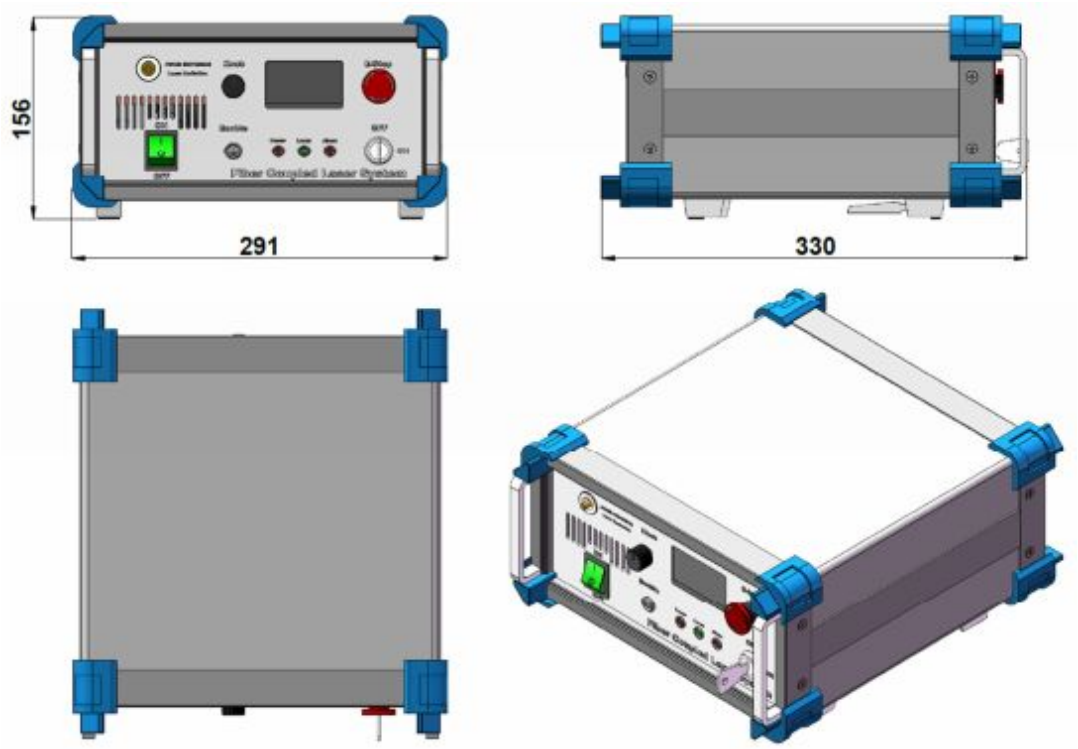
Operating temperature	°C	10°Cto35°C
Storage temperature	°C	-20°Cto +80°C
Humidity	%	< 90 %, non-condensing

LINE GENERATOR

Line angle	30°,45°,60°,90°
Luminance uniformity	80%
Straightness error	Less than 0.5%
85%peak power proportion in corss-section	95%
Temperature &power stability	Less than 0.5%

KEYNOTES
**All testing data under the conditions of temperature 25°C.*

Line generator can be us orto scan the sample.
Lensesofline generator a ustom applications.

MECHANICAL SPECIFICATIONS

Optional dimensions of laser system (Depending on the output power)	330x291x156mm	341x366x161mm
Material	Aluminum