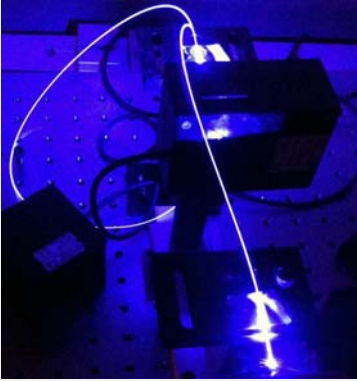




8700 OEM Blue 5 Watt Direct System



The 8700-OEM Blue is a versatile, high power, compact format, laser system. The unit has the capability to deliver up to 5 Watts of high power 450nm fiber coupled CW output power. It is equipped with an easy to use remote USB remote interface for full intuitive control over the laser parameters via a Graphical User Interface (GUI).

Features include : USB interface for ease of integration and remote control, Safety Interlocks and internal monitoring, Thermal monitoring, remote analog control, local power adjust, many optical bulkhead options (SMA, FC, ST, barefiber). With a convenient built in list of remote commands, the user has the flexibility to create customized control software for system feedback or quickly get started with the LLS GUI interface software provided. The 8700 is designed with several thermal management schemes in mind (water cooled or forced air).

Options include: Selectable ACC/ APC mode, Internal or external modulation, foot pedal, Direct DC power input, RS232 Interface, water cooling or forced air cooling assemblies.

Specifications

Optical Parameter:	Value	Units
CW Optical Power	5	Watts
Wavelength	450	nm
Wavelength Tolerance	+/-10	nm
Optical Connector	SMA / FC / ST / Bare Fiber	
Fiber Core	400	um
Fiber NA	0.37	

Laser Electrical Parameters:

External Modulation Frequency (Sine Wave)	up to 2	Khz
External Modulation Frequency (Square Wave)	up to 2	Khz
Laser Current (ACC)	0-1.25	A

Computer Interface Parameters:

Safety Interlocks	Enable Key and TTL Signal	
USB	Type 2	Driver provided
TTL	Digital Control Signal	

Safety Parameters:

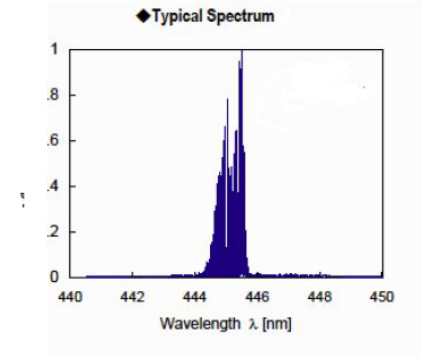
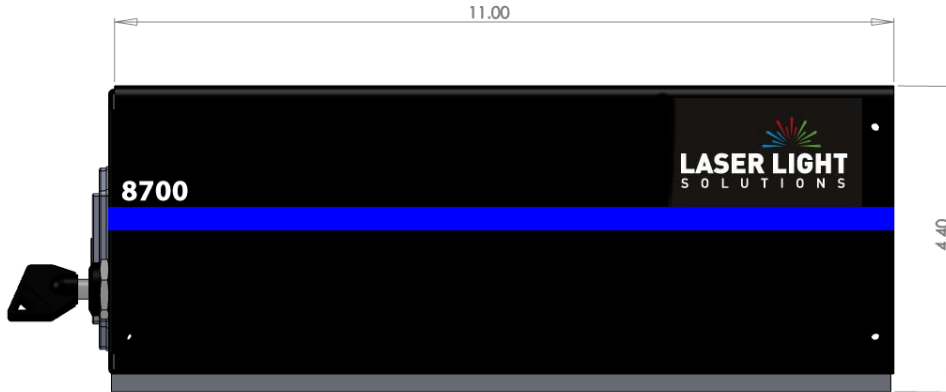
The 8700 system has built in soft start and ESD protection for the laser module. The unit is equipped with interlocks circuits for laser safety compliance. The unit also has thermal monitoring with built in safety shutdowns.





8700 OEM Blue 5 Watt Laser System

The 8700-OEM Blue is a versatile high power OEM laser system. The system has the capability to deliver up to 5 Watts of high power 450nm fiber coupled CW output power. It has been designed for ease of integration and application flexibility.



System Electrical /Mechanical Parameters:	Value	Units
AC Operating Voltage	110 - 220	Vac
AC input Frequency	50 - 60	Hz
Direct DC Input (optional)	24 - 48	Vdc
Size	11x 5.5 x 4.25	inches
Weight	5	lbs
Operating Temperature Range	20 - 25	C
Thermal Cooling Requirements	50	Watts

The 8700 OEM system is capable of driving Class 4 visible laser, which may require substantial additional equipment to meet laser safety requirements. For more information refer to 21CFR1040 9 (US) or IEC60825-1 (EU) laser safety standard documents.

