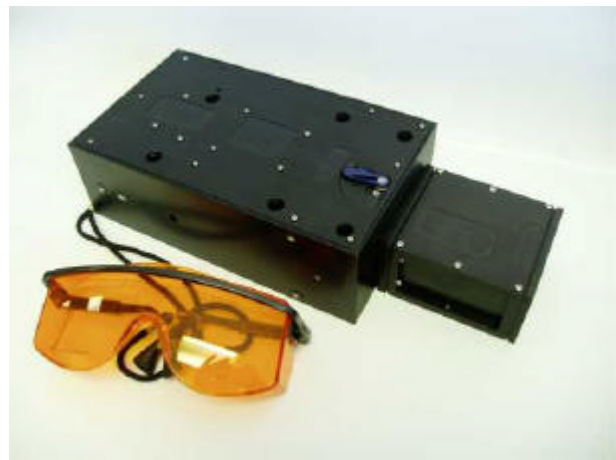
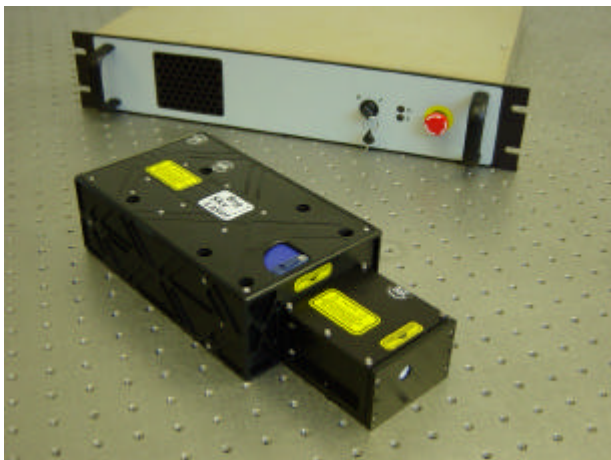




Centurion 100Hz DPSSL laser



Centurion 100 Hz with SHG/ THG module and power supply

Features

- Compact rugged design
- Full TTL, RS232/458 , USB or Ethernet control possible
- 2U 19" Rack mounted power supply
- Forced Air cooled or water jacket or cold plate
- Umbilical length up to 30m

The Centurion is a diode-pumped, Q-switched pulsed Nd:YAG laser. **Producing up to 45mJ at 1064nm, 100Hz in 7ns pulses**, the Centurion was designed as a rugged industrial laser for a variety of applications, in the factory or in the laboratory. All the harmonics are available.

The laser is thermoelectrically cooled. Heat can be removed via a fan and a heatsink or by attaching the laser to a cold plate. The laser comprises a compact head that contains most of the electronics and a 2U 19" rack that contains the prime power supply and CPU card. Quantel offers a variety of interfaces to control the laser, to suit the varied needs of system integrators.

Specifications (preliminary)							
Wavelength (nm)	1064nm		532nm		355nm		266nm
Resonator	Stable	GRM	Stable	GRM	Stable	GRM	Stable
Output energy (mJ)	45	45	20	20	10	10	6-8
Pulse duration (ns)	8	7	8	7	8	7	8
Pulse to pulse energy stability (%rms)	=1	=1	=2*	=2*	=4	=4	=4
Beam Diameter (mm)	=3	=3	=3	=3	=3	=3	=3
Divergence (mrad)	=5	=1.5	=5	=1.5	=5	=1.5	=5
Frequency (Hz)	0-100Hz						
Polarization	Linear						
Dimensions (cm) (WxDxL)	12,7 x 7,62 x 22,86 without heatsink, fins or fan		Add L = 9,14				
Diode Lifetime	>1x10E9 shots						
Operating Temperature	5°C to 30°C						
Weight head (kg)	5		<5.5				
Cooling Power	= 200W **, Forced air or Water/Air						
Voltage, Power consumption	90-230VAC, 50/60Hz, 300W						

Quantel reserves the right to change specifications without prior notice

* Typical value at 532nm is: 1% rms

** Typical value is 150W for 45mJ IR; =100W for 20mJ IR (stable configuration with cooling fins). 10 min. operation w/o active cooling is possible. End user should supply heatsink or fan.



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