

PureBeam™ Laser

Single Mode, Perfect Circular Beam, Low Divergence, Excellent Power Stability 0.08%

- Ultra-Stable Laser Power < 0.08%</p>
- Pure Single Mode
- Low Noise
- Adjustable Focus
- 350nm to 1670nm
- USB Computer Interface

- High Signal-to-Noise
- Power up to 20mW
- Pointing Stability < 10 μrad/°C</p>
- Analog or Digital Modulation
- Compact Head
- RS232 or USB Computer Interface

The PureBeamTM laser provides the highest-performing elliptical laser beam available for measurement, profiling and life science applications. It uses single-mode fiber to filter out multimode for a perfect circular beam profile with low divergence. It comes with an advanced drive electronics to provide exceptional output power stability and low signal-to-noise. With RS-232/USB control option, the laser power is adjustable as well as onboard diagnostics for operating hours, diode current, output power, temperature, and more. It has a manual focus adjustment allowing the user to optimize the focus location for the best measurement resolution. The compact laser head is connected to the driving electronics with a fiber cable.

PERFORMANCE SPECIFICATIONS

Parameter	Specifications				
Spatial Mode	TEM ₀₀				
Beam Quality	<1.4M ²				
Pointing Stability	<10 μrad/°C				
Beam Angle (borsight)	<3 mrad				
RMA Noise(20Hz – 20MHz)	<2%				
Peak-Peak Noise(20Hz-20MHz)<1%					
Warm-Up Time	<1 minutes				
Operating Temperature	-10 to + 65°C Case				
Storage Temperature	-40 to +85°C				



BLOCK DIAGRAM



MECHANICAL SPECIFICATIONS

DIMENSIONS ARE IN INCHES (METRIC EQUIVALENTS ARE IN PARENTHESIS)
DIMENSIONAL TOLERANCES: .XX = ±0.02 (0.51), .XXX = ±0.005 (0.127)

OREDER INFORMATION

LASE-									
	Wavelentgh	Dutput	Beam Shape	waviength Stabliza	Polarization	Beam Size			
	405=1	1mW=1	eliptical=1	No=1	Random=1	1mm=1	1	1	1
	450=2	2mW=2	fan= 2	Yes=2	Single=2	2mm=2			
	488=3	3mW=3				3mm=3			
	520=4	5mW=4				4mm=4	Special=0		
	525=5	10mW =5							
	639=6	20mW =6							
	640=7								
	655=8								
	660=9								
	685=A								
	785=B								
	830=C								
	1550=D								

tel.: