2013 New Product

PolarOnyx Laser

Uranus mJ - High Energy mJ Femtosecond Fiber Laser

Based on our patent pending proprietary technology on pulse shaping, polarization shaping and spectral shaping, and expertise on specialty fiber optics, PolarOnyx Laser has successfully developed high energy mJ ultra-short pulsed fiber lasers operating at 1 micron wavelength region. This module provides a turn key solution as well as an embedded electronics with a computer interface.

Key features

- 500 fs pulse
- High Energy up to 0.5 mJ
- Turn key/RS 232
- Competitive price

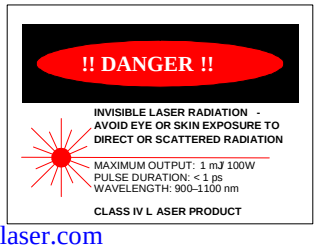
Applications

- Material processing
- Ultrafast phenomena research
- Biomedical research and development
- Photo-detector characterization

1 micron High Energy mJ fs Fiber Laser Specifications

Item	Min	Typical	Max	Unit
Output pulse energy		0.1, 0.2, 0.3, 0.4	0.5	mJ
Pulse width		500	800	fs
Wavelength range		1030	1065	nm
Average Power	20	20,50	100	W
Pulse repetition rate	0.01	Tunable	5	MHz
Beam Quality (M2)		1.3	1.5	
Long Term Stability (8 hours)			3%	
Polarization extinction Ratio	10	Linear		
Weight			50	kg
Power Consumption			600	W
Computer interface		RS232		
Output type		Free space		
Size (main frame + optical head)		(43x13x56) + (31x120x15)		cm

Note: Integrated SHG (515 nm/ 532 nm), THG, and FHG is available.



PolarOnyx Laser, Inc. reserves the right to change specs at any time without notice.

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