

SINGLE FREQUENCY FIBER LASER

1020 - 1130 nm range

FEATURES AND BENEFITS

- Ultra narrow linewidth
- High power output
- Stable single frequency operation
- Mode hop free tuning
- Burst noise free operation
- Low phase noise and low intensity noise
- Single mode fiber output (FC/APC)
- Vibration-free analog fine tuning (ready-to-lock)
- Digital coarse tuning
- Stand-alone unit in a 19" rack system with integrated power supply

APPLICATIONS

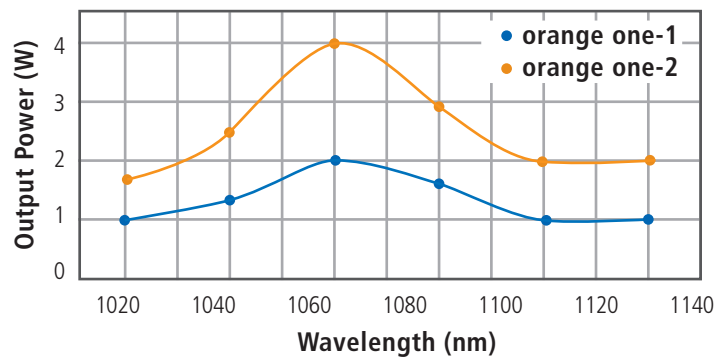
- Optical metrology
- Interferometry
- High resolution spectroscopy
- Atom trapping
- LIDAR sensing
- Optical data storage

The orange one is a high power, narrow linewidth single frequency fiber laser system in a compact turnkey design.

The laser combines unique ultra narrow linewidth with high power levels, and is the ideal source for applications requiring low noise and stable performance.

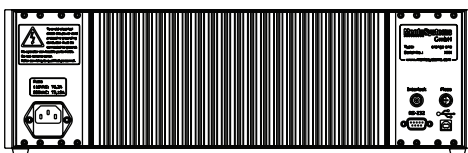
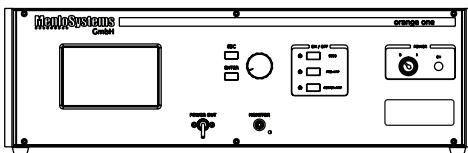
The integrated seed laser is a Koheras single frequency fiber laser module.

WAVELENGTH SELECTABILITY RANGE



Please specify your wavelength when ordering.

orange one Front and Back Panel



orange one



orange one

SINGLE FREQUENCY FIBER LASER

SPECIFICATIONS

	orange one
Linewidth (120 μ s)	<50 kHz
Wavelength Range	1020 - 1130 nm, specify center wavelength when ordering
Center Wavelength @ 22 °C	± 0.1 nm
Temperature Tuning Range	>450 pm (-0.3 / +0.15 nm); 26 pm°C ⁻¹
Piezo Tuning Range	>9 pm; 0.1 pmV ⁻¹
Piezo Voltage	0.. 200 V
Piezo Bandwidth	up to 10 kHz
Output Power	1 W, 2 W - depending on selected wavelength
Output Port	PM, non-PM - 1 m patch cord included (others on request)
ASE Level	<10 %
Additional Monitor Port	PM or non-PM (FC/APC), 1% of main output power

UTILITY AND ENVIRONMENTAL REQUIREMENTS

Operating Voltage	110/115/230 VAC
Frequency	50 to 60 Hz
Power Consumption	200 W
Cooling Requirements	no water cooling is required
Laser Frequency Stabilization	temperature stabilized with Peltier elements
Range of Operating Temperature	22 \pm 5 °C
Dimensions	448 x132 x 437 mm ³
Weight	20 kg

ORDERING INFORMATION

orange one-1PM	1-2 W single frequency fiber laser with PM output	EUR 55,000
orange one-1	1-2 W single frequency fiber laser	EUR 44,000
orange one-2	2-4 W single frequency fiber laser	EUR 50,000

For OEM quantities please call for pricing. Prices and Specifications are subject to change without notice.
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Invisible laser radiation
avoid direct eye exposure
Class 4 Laser