

ORL Raman Lasers

532, 638, 785 and 1064 nm



The Multi-mode Narrow Linewidth Laser delivers high spectral purity and exceptional long-term stability, making it an ideal excitation source for Raman spectroscopy, laser-induced fluorescence, and pumping applications.

With a linewidth of <0.1 nm, SMSR >40 dB, and wavelength stability of ± 7 pm over 4 hours, it ensures reliable and reproducible performance for demanding analytical environments. The built-in TEC enables $\pm 2\%$ power stability, while integrated safety features—including PC control, an emergency stop button, and short-circuit protection—provide robust operational confidence.

Product Overview

Comprehensive Safety

Class 3B laser with emergency stop button, key switch, and short-circuit interlock

Global Certification

CE and TUV US certified

Compact Design

Excellent choice for lab and field use

Part Number	Center Wavelength	Typical Output Power	Wavelength Tolerance	Spectral Linewidth	Wavelength Stability	SMSR(dB)
ORL-532-FC	532 nm	100 mW	+/-0.5 nm	< 0.1 nm	+/-5 pm @ 4h typ.	-
ORL-532-SMA	532 nm	100 mW	+/-0.5 nm	< 0.1 nm	+/-5 pm @ 4h typ.	-
ORL-638-FC	638 nm	500 mW	+/-0.5 nm	< 0.1 nm	+/-7 pm @ 4h typ.	>35
ORL-638-SMA	638 nm	500 mW	+/-0.5 nm	< 0.1 nm	+/-7 pm @ 4h typ.	>35
ORL-785-FC	785 nm	500 mW	+/-0.5 nm	< 0.1 nm	+/-7 pm @ 4h typ.	>40
ORL-785-SMA	785 nm	500 mW	+/-0.5 nm	< 0.1 nm	+/-7 pm @ 4h typ.	>40
ORL-1064-FC	1064 nm	500 mW	+/-0.5 nm	< 0.1 nm	+/-7 pm @ 4h typ.	>40
ORL-1064-SMA	1064 nm	500 mW	+/-0.5 nm	< 0.1 nm	+/-7 pm @ 4h typ.	>40

Specifications	
Adjustability % Full Power	0-100%
Warm Up Time	15 minutes
Modulation Input	Analog signal 0-5V
Control Interface	USB
Connector	SMA 905, FC/PC
Supply Voltage	+12 VDC
Storage Temperature	10-60 °C
Storage Humidity	0-80%
Operating Temperature	10-35 °C
Dimensions	18 x 9 x 18 cm
Weight	1.2 kg