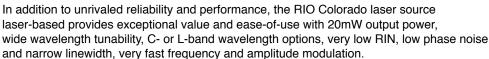


RIO Colorado Tunable Laser Source

A compact and turn-key benchtop laser source based on industry-proven External Cavity Lasers

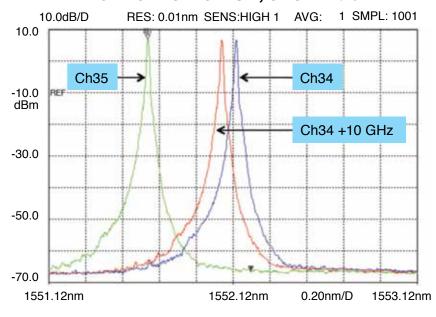
The new RIO Colorado Tunable Laser Source is an impressive feature-rich extension of RIO's game-changing ORION™ and PLANEX™ product series. The RIO Colorado laser source is designed with the customer's need in mind: user-friendly, highly integrated and turn-key operation.



This solution is positioned for reducing the development cycle time and allow for simple integration into R&D lab environments, coherent communication architectures and advanced fiber optic sensing systems. External monitoring and control can be achieved via a Graphical User Interface (GUI) and a USB connection.



OPTICAL SPECTRUM, SMSR >73 dB



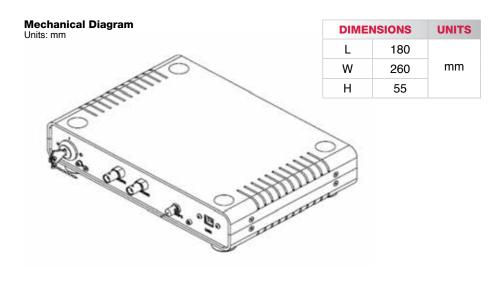
KEY FEATURES

- Wide wavelength tuning across
 C-band (L-band optional)
- · Single longitudinal mode
- · Low phase and frequency noise
- Ultra low RIN
- · Excellent SMSR
- PM output
- · Fast frequency modulation
- · Amplitude modulation
- · Turn-key and small footprint
- USB interface with Graphical User Interface
- · Telcordia qualified

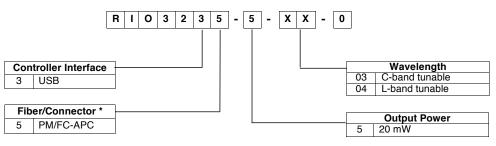


Performance Highlights

PARAMETER	VALUE	UNIT
Output Power	20	mW
Spectral linewidth (Lorentzian)	≤35kHz, 25kHz typical	kHz
Relative Intensity Noise (at frequency >25 MHz)	≤ -165	dB/Hz
C-band wavelength tuning range	1527.60 to 1565.60	nm
Wavelength tuning resolution	1	MHz
Continuous wavelength tuning range	12	GHz
Frequency modulation range (pk-pk)	> 500	MHz
Frequency modulation speed	Up to 100	kHz
Operating case temperature range	15 to 50	°C



Ordering Information



^{*} Contact RIO for other fiber/connector option availability.



Laser Safety Information

The Colorado Tunable Laser Source is classified as FDA/CDRH Class IIIb laser products per CDRH, 21 CFR 1040 laser safety requirements.

For ordering or technical information contact REDFERN INTEGRATED OPTICS INC. 3350 Scott Blvd Bldg 1 | Santa Clara CA 95054 | USA

P 408 970 3500 x 310 F 408 970 3200 sales@rio-inc.com

APPLICATIONS

- · Acoustic and seismic sensing
 - · Defense and security
 - Oil & Gas exploration and production
- · LIDAR and remote sensing
- · Interferometric fiber optic sensing
 - Metrology
 - RF and microwave photonics



