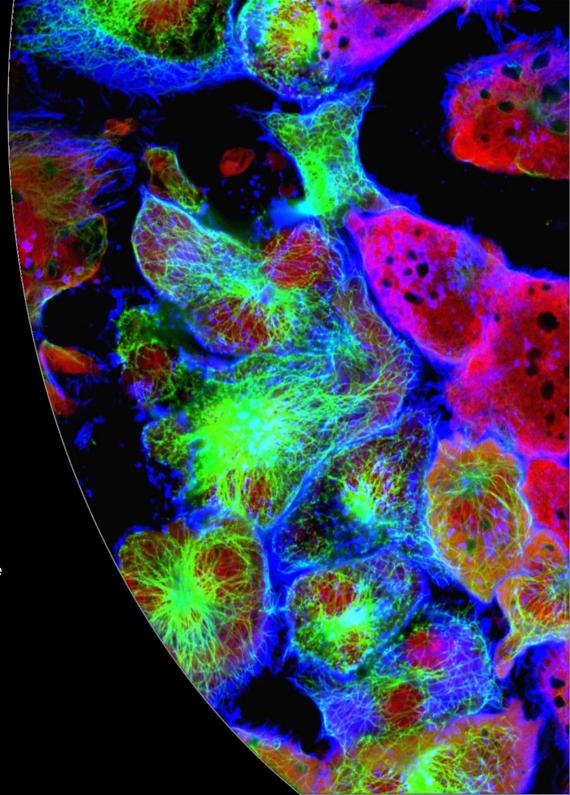
ONE PLATFORM FOR ALL COLORS



A laser design and manufacturing house bringing disruptive innovations to the market of visible lasers

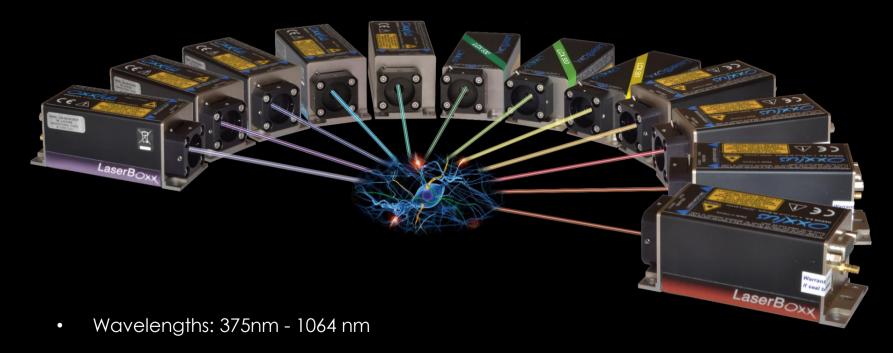
WHO IS OXXIUS?

- Founded in 2002
- Approximately 60 employees
- Headquartered in Lannion, France
- Full range of UV, visible, and IR, CW lasers
- Laser Diode and DPSS Laser Modules
- Market: OEM integrators and research labs
- World-class level of quality, customer care and service
- ISO 9001-2000 certification



Product Range

A full range of UV, visible and IR, CW Lasers



- One of the few CW Laser manufacturers that can offer both Laser Diodes and DPSS lasers
- A key technology at the heart of its DPSS lasers: a proprietary, alignment–free monolithic resonator

Key Applications

CONFOCAL MICROSCOPY:

APPLICATION REQUIREMENTS:

- High Quality Low Noise lasers
- Good Power and Beam Stability
- Modulation
- Usual Wavelengths: 405nm, 488nm, 532nm/561nm, and 638nm 100mW lasers
- Compact, easy to use fiber-coupled light source
- Limit Budget best laser for a fair price

Our Solution: Oxxius Combiners

- Highly customizable and Flexible
- Low noise, TEM00 lasers,
- Excellent stability, Super compact
- Modulation inputs directly on back of combiner
- Single fiber output (ACX-FCPM, ACX-FCSM, or ACX-FCMM)
- OPT-RFC (Repositionable Fiber Coupling option) that allows to convert combiner from fiber coupled to free space output and back
- Starting at <\$40k for complete 4 color Combiner



Our Products – Laser Combiners



L4Cc, L6Cc Compact Wavelength Combiners

- All-in-one multicolor laser source
- Up to 6 lasers per combiner (additional laser lines can be added through extension modules)
- 375 up to 1064 nm (others under request)
- Up to 500 mW
- Highest efficiency and stability
- Flexible by design
- Expandable

Options:

Fiber coupling - Oxxius propose the compact SuK® or the user friendly Kineflex® fiber couplers with RGBV fiber at standard 0.12 NA. The fiber output options are FC/APC or FCP8 connectors or free space collimators on request

Repositionable fiber coupling - The SuK® fiber coupler is available with magnetic repositionable support.

Two-channel outputs - The L4Cc can be set with two independent output ports. Each port will deliver one or several wavelengths.

Extension module MDUAL - Provides two outputs with the possibility to balance the output power between each port. The split ratio accuracy is +/-5%. Designed for light sheet microscopy

Extension module FSTM - Provides fast switching between two outputs up to 30Hz (< 5 ms switching time)

Extension module FLPM - This will economically route all lines on the selected output. This is not meant for frequent switching. Recommended when only one L4Cc is used with two microscopes.

Extension module L+1 - Provides one additional LBX laser, combined on the main channel or fully independent with its own output port

Extension module MNDF - Provides a motorized neutral density filter when low output power is needed.

Extension module AOTF - AOTF modulator - one output

Our Products – Low Noise Lasers



LBX, LPX, and LCX LaserBoxx Modules

- 375nm up to 1064nm (others under request)
- Up to 500 mW
- Low profile laser head (32 mm)
- Lowest power consumption
 - ≤12 W for LCX's, any wavelength, <200 mW
 - ≤15 W for LCX-532 & LPX-640, 500 mW
 - ≤15 W for LCX-561, 300 mW
- Tailored beam diameter capability (0.6 1.4mm)

Options:

Fiber coupling

Rugged, compact, fiber coupling options for polarization maintaining fiber, standard single mode fiber or multimode fiber.

Electro-Mechanical shutter

The ACX-SHTE is a compact and affordable electro-mechanical shutter. It is mounted directly on the LCX or LPX in place of the standard manual shutter. The fiber coupling and other options are fully compatible with the electro-mechanical shutter.

The ACX-SHTE is actuated via the LCX or LPX embedded software or via a standard TTL signal.

Heat Sink

Forced air heat sink for LBX, LCX with 5V PSU

Isolator

Mounted isolator available at 532, 561, 6xx and 785nm

Clean-up filter

Filter to eliminate optical noise

Our Products – L1C Platform



L1C Platform for advanced Features

- L1C-MPA Motorized Power Attenuator
- L1C-AOM Acousto-Optic Modulator DC 3MHz
- L1C-ISO >25dB Isolation and >85% transmission Isolator
- FSTS (Fast Mechanical Shutter -200Hz)
- Fiber coupling options available
- It comes standard with the electromechanical shutter

Options:

The L1C and the longer L1C+ platforms offer efficient, compact and cost-effective solutions to add advanced features to the LCX, LPX, LSX or LBX-S lasers.

MPA Motorized Power Attenuator

- 0 to 100% range
- Maintains beam quality & Spectral properties
- Analog input control
- USB and RS232 interface

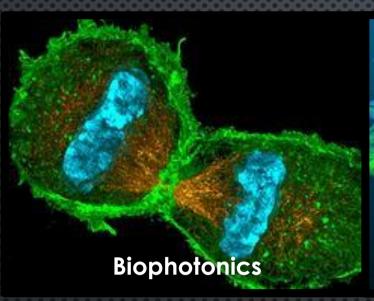
AOM Acousto-Optic Modulator

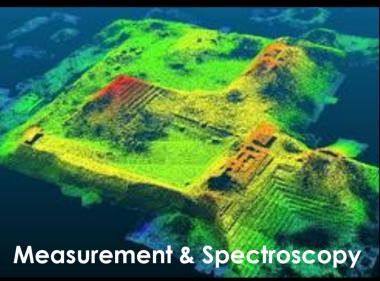
- DC-3MHz bandwidth
- > 85% power transmission
- USB interface
- Analog digital inputs

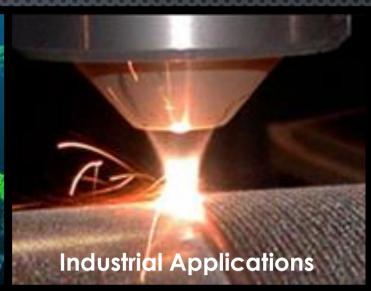
ISO Isolators

- Compact
- High power versions

Applications and Markets







- Fluorescence Imaging
- DNA Analysis, Sequencing
- Confocal/3D Microscopy, STED
- Flow/Imaging Cytometry
- Optogenetics
- Ophthalmology

- Raman Spectroscopy
- Mask Inspection
- Particle Sizing, Characterization
- Holography
- Laser Doppler Velocimetry
- Non-Intrusive Measurements

- Material Curing, Hardening
- Laser Marking
- Reprographics
- Machine Vision
- Food Quality Control
- Laser Display, Entertainment

Why Oxxius?

One Platform for All Colors

One of the few CW Laser manufacturers that can offer both Laser Diodes and DPSS lasers

Outstanding products, patented solid-state laser architecture, experienced team.

Your OEM source

The Best Laser Modules at a fair price



RPMC Lasers, Inc is proud to be the exclusive North American Source for Oxxius

Talk to a Product Manager or Get a Quote!

www.RPMClasers.com

THANK YOU!