Oxxius
Simply Light

2016

The L6C, L4C and L2C are compact laser combiner systems which integrate standard LaserBoxx modules, LCX DPSS and LBX laser diode.

Their modular designs authorize a large choice of laser lines with free space beam output or delivery through single or multiple PM fibers. It is field upgradable for cost effective future extensions.

Available in P&P or OEM versions, the Oxxius laser combiners come with Graphic User Interface software and are compatible with µManager.

L2C - L4C - L6C
Laser Combiners

Benefits
- Up to 6 combined wavelengths
- Proven long term stability
- Modular optical design
- Comprehensive optical design for easy maintenance
- Windows Graphic User Interface
- Optional multiple outputs

Super Resolution Imaging
Confocal Microscopy
SPIM, FRAP, TIRF
Flow Cytometry
Optogenetics

Key features
- Up to 500 mW per wavelength
- Ultra Low Noise ≤ 0.2 %
- Direct modulation; analog, digital or both combined
- USB and RS232 computer interfaces
- SM/PM/MM fiber coupling options

375 405 445 473 488 515 532 553 561 594 638 642 660 705 730 785

Specifications

L4C and L6C
Laser Combiners

Dimensions:
L6C : 330 x 300 x 80 mm³
L4C : 330 x 254 x 70 mm³

Available configurations

L6C
- Up to 6 wavelengths

L4C
- Up to 4 wavelengths

Common options
- Free space beam (≤100 µrad collinearity)
- Fast AOM (≥ 1 MHz)
- Multiple outputs (combined PM, MM or free space beam)
- SuK® or Kineflex® fiber coupler
- Motorized flip mirror
- Round Step neutral density Filters
- Electro-mechanical shutter
- 19" rack case
- Integrated electronic (all-in-one)

L2C
Compact Laser Combiner

Dimensions:
L2C : 212 x 110 x 65 mm³

Available configurations

L2C - One wavelength
- LCX DPSS with optional AOM
- Two combined LBX-638, up to 240 mW, vertical polarization

L2C - Two wavelengths
- any LBX or LCX with AOM

Common options:
- Free space beam or fiber coupling
- Electro-mechanical shutter
- Heatsink

Available wavelengths

375 nm, 70 mW
405 nm, 50 up to 300 mW
445 nm, 70 up to 100 mW
450 nm, 70 mW
473 nm, 100 mW
488 nm, 50 up to 200 mW
515 nm, 80 mW
520 nm, 40 mW
532 nm, 50 up to 500 mW
542 nm, 50 up to 200 mW
553 nm, 50 up to 300 mW
561 nm, 50 up to 500 mW
594 nm, 50 up to 150 mW
633 nnm, 100 mW
638 nm, 100 up to 240 mW
642 nm, 130 mW
647 nm, 140 mW
660 nm, 100 mW
730 nm, 40 mW
785 nm, 100 up to 350 mW
980 nm, 100 up to 200 mW
1064 nm, 50 up to 500 mW

Notes:
- For RGBV PM fiber coupling, the wavelength range is limited at 405-660 nm.
- Each wavelength should have minimum 10 nm difference.

Contact us:

Oxxius S.A.
4 rue Louis de Broglie
F-22300 Lannion, France
Phone: +33 296 48 70 28
Fax: +33 296 48 21 90
sales@oxxius.com
www.oxxius.com

VISIBLE AND INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT

	L2C	L4C	L6C
Power stability (on RGBV range)			
Free space	±1% p-to-p		
PM fiber coupled	±2% p-to-p		
Modulation			
Analog	≥ 3 MHz (LBX) / ≥ 1 MHz (LCX with AOM)		
Digital	≤ 2 ns (LBX) / ≤ 1 µs (LCX with AOM)		
Extinction ratio	Infinite (LBX) / ≥ 45 dB (LCX with AOM)		
System specifications			
Operating temperature	15 - 40 °C (at baseplate)		
Power Consumption	≤ 30 W	≤ 60 W	≤ 100 W
Supply voltage P&P	100 -240 V AC		
Supply voltage OEM	5 -12 V and 24 V DC		
Warm-up time	≤ 10 minutes		
Communication interfaces	USB, RS-232, dedicated I/O interface		
Software	Win XP, 8, 10 control software		