



The L6Cc and L4Cc are compact all-in-one wavelength combiner systems which integrates Laserboxx modules, LBX and LCX.

The modular design authorizes a large choice of laser lines with in standard free space beam output or optional delivery through SM, PM, MM single fiber or multiple port modules .

The L6Cc/L4Cc are field upgradable for cost effective future upgrade. They are microprocessor controlled and provides advanced features and interfaces for demanding applications.

They are available in ready to use P&P versions or OEM versions

L6Cc and L4Cc Wavelength Combiners

Benefits

- Up to 4 or 6 combined wavelengths
- Proven long term stability
- Modular optical design
- Field upgradable
- Comprehensive optical design for easy maintenance
- Windows Graphic User
- Additional modules for advanced features like dual output, fast switch mirror, one additional laser

Super Resolution Imaging

Confocal Microscopy

SPIM, FRAP, FRET, TIRF

Flow Cytometry

Optogenetics

Key features

- Up to 500 mW per wavelength
- Ultra Low Noise $\leq 0.2\%$
- Direct modulation; analog, digital or both combined
- Independant beam steering per wavelength for Cytometry
- USB computer interface
- SM/PM/MM fiber coupling options
- Electro-mechanical shutter on each output and on DPSS laser.

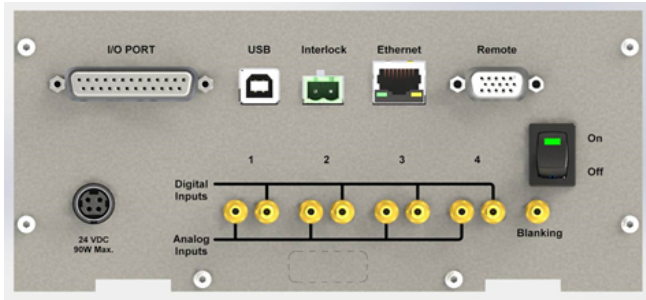
375 405 445 473 488 515 532 553 561 594 638 642 660 705 730 785

Specifications

L4Cc and L6Cc - Wavelength Combiners

Available options

- Free space beam (≤ 100 μ rad collinearity)
- SuK® or Kineflex® fiber coupler
- Multiple outputs (combined any of PM, SM, MM or free space beam)
- Electro-mechanical shutter in standard
- Dual port output with up to 30Hz switch frequency
- Fast AOM (DC to 3 MHz)
- Motorized flip mirror
- Round Step neutral density Filters



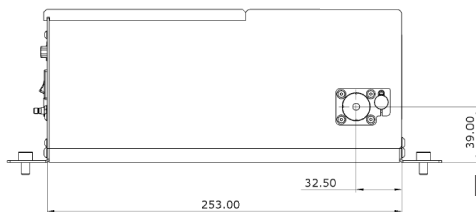
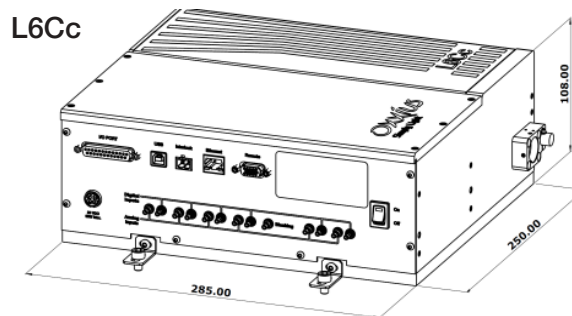
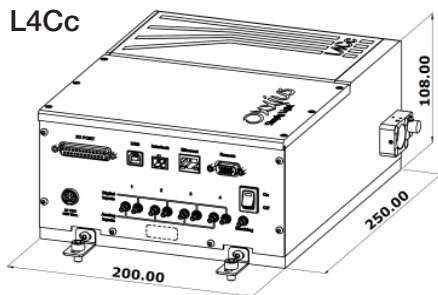
Back panel with all connections

- Analog modulation inputs
- Digital modulation inputs
- Blanking port
- USB interface
- I/O port to control options and for advanced features
- RemoteBoxx provided with Plug&Play version

Available wavelengths

- 375 nm, 70 mW
- 405 nm, 50 up to 300 mW
- 445 nm, 100 mW
- 450 nm, 70 mW
- 473 nm, 100 mW up to 300mW
- 488 nm, 50 up to 200 mW
- 515 nm, 80 mW
- 520 nm, 70 mW
- 532 nm, 50 up to 500 mW
- 553 nm, 50 up to 300 mW
- 561 nm, 50 up to 500 mW
- 594 nm, 50 up to 100 mW
- 633 nm, 100 mW
- 638 nm, 100 up to 500 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, 100 up to 500 mW
- and 10 mores...

Dimensions:



Front face L6Cc and L4Cc

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

L6Cc and L4Cc

| L6Cc and L4Cc | |
|--|--|
| Power stability (on RGBV range) | |
| Free space | $\pm 1\%$ p-to-p |
| PM fiber coupled | $\pm 2\%$ p-to-p |
| Modulation | |
| Analog | DC - 3 MHz (LBX) / DC - 3 MHz (LCX with AOM) |
| Digital | ≤ 2 ns (LBX) / ≤ 300 ns (LCX with AOM) |
| Extinction ratio | Infinite (LBX) / ≥ 45 dB (LCX with AOM) |
| System specifications | |
| Operating temperature | 15 - 40 °C (at baseplate) |
| Power Consumption | ≤ 50 W / 100W |
| Supply voltage P&P | 100 -240 V AC |
| Supply voltage OEM | 24 V DC |
| Warm-up time | ≤ 10 minutes |
| Communication interfaces | USB, dedicated I/O interface |
| Software | Win XP, 7, 8, 10 control software |

Notes:

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