

Laser systems

Multi-wavelength laser systems and beam combiner



- ⦿ Different designs for compact and flexible solutions
- ⦿ Benchtop devices and fully installable sub-systems
- ⦿ Free beam or fiber output
- ⦿ Different options for beam collimating and combining



Multi-wavelength Laser systems and beam combiner

LASOS® laser system series

LASOS offers a variety of customer tailored multi-color systems (MCS). These systems are equipped with custom defined mechanical and optical interfaces, control electronics and software.

The MCS 6F is our first system for universal use offering the highest flexibility for applications in laboratory or industry. It can be equipped with every laser out of the LASOS LDM-XT and DPSSL-XP laser series providing a wide range of wavelengths from blue to infrared and output powers up to 150 mW per laser line.

The lasers are individually connected to an internal beam combining unit. Alternatively, two laser lines can be led out of the housing by separate fibers. Thus, the setup which suits best to the application can be chosen. Due to the use of the LASOS proprietary Precision Fiber Coupling (PFC) lasers can be individually installed, re-moved, or replaced without the need of adjustment. This ensures that the system is up-to-date even if the requirements change. The down time due to a defect of one of the lasers is minimized. All lasers can individually be modulated. The system supports three slots where lasers are combined with an acousto-optical modulator allowing modulation of lasers that cannot directly been modulated like diode-pumped solid-state lasers.

Specifications

Wavelengths	375, 395, 405, 415, 425, 445, 457, 473, 488, 505, 515, 520, 532, 543, 556, 561, 594, 607, 633, 638, 640, 660, 685, 705, 730, 785, 808, 830, 980 Special feature: Optional 488 and 514 nm narrow wavelength for full Ar-ion laser replacement
Maximum number of lasers	6, selection of wavelengths depends on configuration
Output power	Up to 150 mW each line depending on wavelength
Output power stability over 8 h	< ±2.0 %
Noise 10 Hz ... 20 MHz	< 0.5 % rms ¹
Fiber	Single mode, polarization
Fiber output 1	Broadband 405-640 nm
Fiber output 1 optional	Broadband 445-640 nm
Fiber output 2 and 3	Single wavelengths
Fiber termination	FC, optional collimator or LASOS PFC
Operating voltage	230 / 115 V
Modulation	Digital, max level tunable by software
Rise / Fall time	< 1 µs
Max. Bandwidth / Mod. depth	1 MHz / 1:100

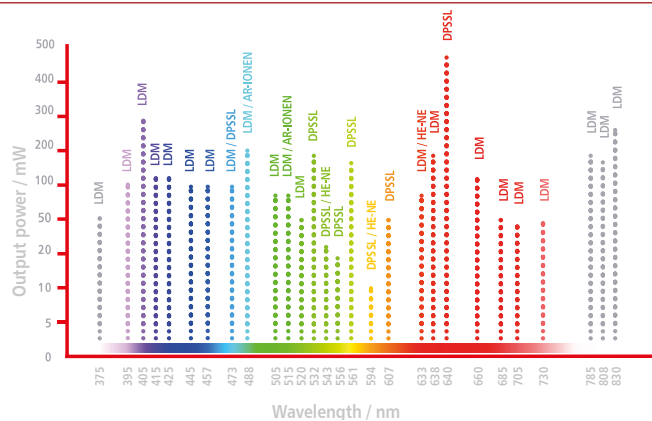
¹ 594, 607, 640 nm <2 %

Areas of application:

- ⊙ Microscopy
- ⊙ Flow cytometry
- ⊙ Bioanalytical research
- ⊙ Testing
- ⊙ Industrial measurements
- ⊙ Science and education

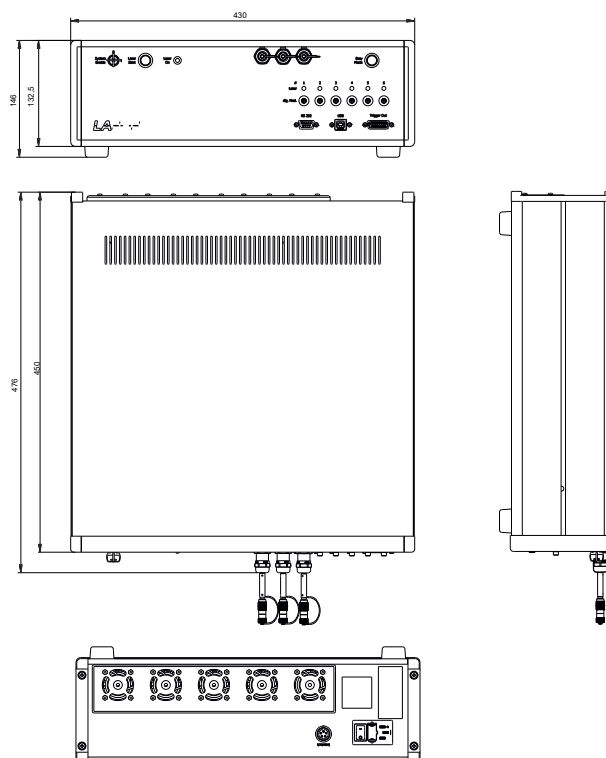
Wavelengths

Laser system series

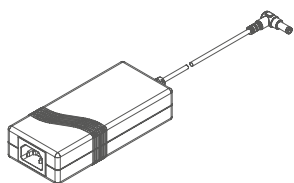


Drawings

MCS 6 series



Accessories



Power supply 24 V / 3 A

- Operating voltage: 100-240 V AC
- Operating current: 1.5 A
- Available for MCS 4 series

Worldwide Representatives



1 Benelux
Te Lintelo Systems BV
www.tlsbv.nl
sales@tlsbv.nl

2 Italy
Laser Optronik Srl
www.laseroptronic.it
lop@laseroptronic.it

3 Baltic States
Photonic Solution UAB
www.photonicsolutions.eu
info@photonicsolutions.eu

4 France / Spain
Acal BFI France SAS
www.acalbfi.com
sales-fr@acalbfi.fr

5 UK / Ireland
Lambda Photometrics Ltd.
www.lambdaphoto.co.uk
contact@lambda.co.uk

6 Poland
Lambda System
www.lambdasystem.pl
office@lambdasystem.pl

7 Scandinavia
Tillquist Group AB
www.tillquist.com
info@tillquist.com

8 Czech Republic
OptiXs, s.r.o.
www.optixs.cz
info@optixs.cz

9 North-America (Gas Laser)
RPMC Lasers Inc
www.rpmclasers.com
info@rpmclasers.com

10 USA / Canada / Mexico / South-America
LASOS Lasertechnik GmbH
www.lasos.com
sales@lasos.com

11 China
Beijing Haike Sirui Optoelectrics Instr. Corp.
bjhksr.com
sales@bjhksr.com

12 Japan
Japan Laser Corporation
japanlaser.co.jp
jlcc@japanlaser.co.jp

13 Taiwan
Tayhwa Technology Co., Ltd
tayhwa.com.tw
tayhwa@tayhwa.com.tw

14 South Korea
Dongwoo Optron Co., Ltd
optron.co.kr
ok@optron.kr

15 Singapore / South East Asia
Simple Technologies Private Limited
simplesg.com
sgadmin2@simplesg.com

16 India
Photonics Marketing Company
photonics-marketing.com
info@photonics-marketing.com

LASOS

For worldwide photonics

LASOS Lasertechnik GmbH

Franz-Loewen-Str. 2

07745 Jena Germany



lasos.com