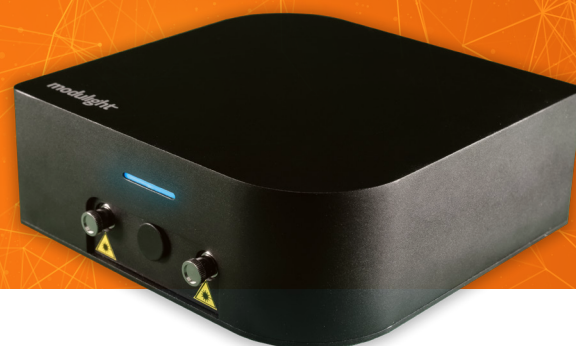


# ML6600

# modulight

**high-power laser system with multi-wavelength support**

ML6600 is a laser system which supports up to 3 built-in lasers. ML6600 is controlled by a PC software or directly by analog/digital signals. ML6600 products are available in Modulight's unique wavelength range from 400 to 2000 nm.



## Laser light source – just plug-and-play

ML6600 is a small plug-and-play laser system for users that don't have time or interest for all the complexity with drivers, cooling, power supplies, etc. Just unbox it, and take into use!

ML6600 can have up to 3 lasers of different wavelengths built-in, or simply just one wavelength. When ordering, you may request 1-3 wavelengths from the below tables, or ask Modulight sales team for more options from the wavelength range 400-2000 nm.

The laser light output comes conveniently from a receptacle fiber with a standard SMA-905 connector.

ML6600 comes with a PC software with elegant graphic UI, or alternatively it can be directly controlled by analog and digital control signals. Therefore it's also suitable for the needs of system integrators.

## Applications

- illumination • photodynamic therapy • pharmaceutical research • diagnostics • fluorescence microscopy •
- dentistry • optical pumping • display & projection • measurement & analysis •

## Visible wavelengths

Wavelength	405 nm	425 nm	445 nm	473 nm	520 nm	630 nm	635 nm
Optical Output Power *)	2 W	250 mW	3.1 W	1.7 W	6 W	2.4 W	3.6 W
Output fiber Ø <sub>CORE</sub>	400 µm	400 µm	400 µm	400 µm	400 µm	400 µm	600 µm

\*) Stated power level refers to single-wavelength modules. In multiple-wavelength systems the output power for a particular wavelength is about one third of the level stated in this table.

Wavelength	652 nm	658 nm	662 nm	665 nm	670 nm	680 nm	689 nm
Optical Output Power *)	4.8 W	6 W	6 W	6 W	6 W	6 W	6 W
Output fiber Ø <sub>CORE</sub>	600 µm	600 µm	600 µm	600 µm	600 µm	600 µm	600 µm

\*) Stated power level refers to single-wavelength modules. In multiple-wavelength systems the output power for a particular wavelength is about one third of the level stated in this table.

## Infrared wavelengths

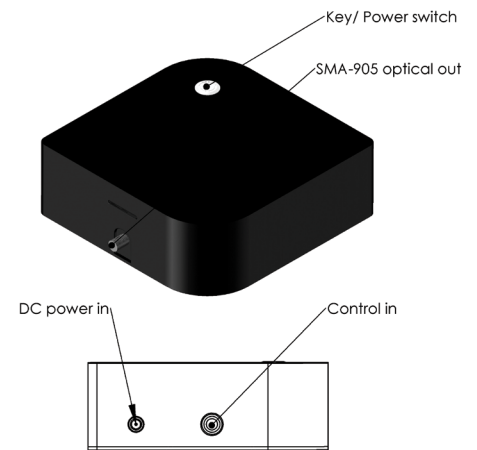
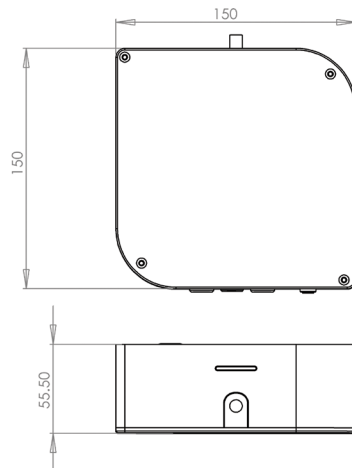
Wavelength	753 nm	810 nm	915 nm	980 nm	1064 nm	1470 nm	1550 nm	1650nm	1940 nm
Optical Output Power *)	8 W	20 W	25 W	25 W	26 W	3.5 W	2.5 W	1.2 W	1.2 W
Output fiber Ø <sub>CORE</sub>	600 µm	600 µm	600 µm	400 µm	600 µm	600 µm	400 µm	600 µm	400 µm

\*) Stated power level refers to single-wavelength modules. In multiple-wavelength systems the output power for a particular wavelength is about one third of the level stated in this table.

## Package information

The housing of ML6600 is made of anodized aluminum.

The connectors (power, control, interlock) are located in the back. The SMA-905 connector for laser light output is on the front side, next to the indicator LED.



## Accessories



**Power supply** - The ML6600 devices are powered by supplying a DC voltage for the control electronics of the ML6600 unit. Modulight supplies compatible accessory DC power supplies that match the voltage and power requirements of each device.



**Cooling module** - The ML6600 device has internal temperature control for controlling the operation temperature of the laser component. In most cases, the heat generated by the laser component needs to be transferred efficiently from the exterior of the system. This goal can be easily achieved with cooling modules that are designed to be operated with ML6600 and have sufficient cooling capacity for removing the excess heat.



**PC control software** - ML6600 devices are equipped with an external control capability. Together with optional PC software the user controls the laser system via a USB connection. The software enables easy access to control the laser operating parameters such as illumination time, optical output power and input current for the ML6600 laser module.

**Compliance management** - Modulight can assist the customer in compiling a sufficient design and manufacturing environment information to support in pursuing filing and approval for CE mark or other approvals for the system with ML6600 product incorporated. The ML6600 product is designed to comply with IEC60825 requirements, but it needs an additional STOP button and certification as a part of the final system.



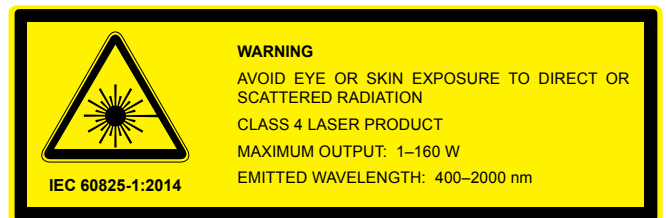
**Calibration service** - The ML6600 devices are factory calibrated using NIST traceable calibration methods. Modulight recommends a 12-month calibration interval for the laser modules to verify and possibly adjust the output power of the laser module.

## Safety information

The laser light emitted from this laser device is visible or invisible, and it can be harmful to the human eye. Avoid eye and skin exposure to the beam, both direct and reflected.

Products are subject to the risks normally associated with sensitive electronic devices including static discharge, transients, and overload. Please ensure ESD protection prior to handling the products.

These Modulight products are not intended for use in systems where product malfunction can reasonably be expected to result in personal injury.



## Liability note

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