

# The Tunable Laser Light Source C-WAVE basic

#### **Features**

The C-WAVE concept opens the door to the generation of laser-based light across a wide spectral range, going beyond the coverage of diode, dye or Ti:Sa lasers. If wide spectral coverage and easy wavelength selection are your primary needs, C-WAVE *basic* may be your source of choice. Simply set the required wavelength via the GUI or programmable interface.

Depending on the required output power level, C-WAVE *basic* is either pumped by an external single-frequency laser or comes with an integrated laser, making operation and application even easier for you.

You need some special wavelengths for a particular application? Please inquire!

### **Possible Applications**

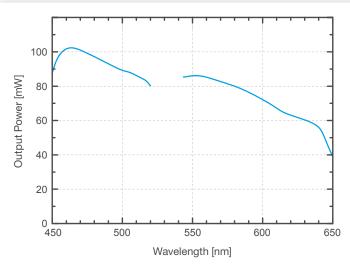
- Microscopy
- Biophotonics
- Spectroscopy of solids or liquids
- Characterization of optical components

#### **Specifications**

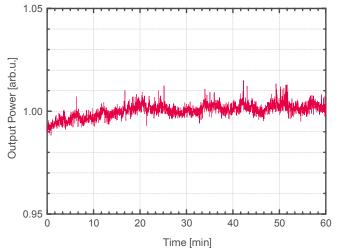
	visible	IR
Wavelength range	450 – 522 nm <sup>a)</sup> 542 – 650 nm <sup>a)</sup>	900 – 1044 nm <sup>a)</sup> 1084 – 1300 nm <sup>a)</sup>
Wavelength selection	computer controlled	
Power  · with 1.5 W pump laser  · with 5 W pump laser	> 30 mW > 100 mW	> 200 mW > 500 mW
Amplitude noise	± 5 %	± 2 %
Beam profile	$TEM_{00}$ , $M^2 < 1.2$	
Beam diameter	1.2 mm <sup>b)</sup>	
Divergence (full angle)	< 1 mrad <sup>b)</sup>	
Beam polarization	linear, horizontal, > 100:1	
Wavelength accuracy	1 nm	2 nm

Range depending on the selected wavelength modules; other wavelengths upon request.

b) Typical values.



Typical output power over the visible wavelength range with 1.5 W pump laser.



Power stability of C-WAVE: Output power over time measured at 571 nm.

#### **Technical Data**

Computer interface LAN

Power supply 110 V / 230 V Power consumption 100 W

Cooling Closed-loop chiller a)

### **Pump Laser Options**

- · Integrated pump laser (1.5 W) b)
- External pump laser (5 W) b)

## Requirements

Operating temperature range 20–25 °C, constant

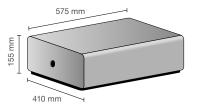
Max. relative humidity 10–85 %, non condensing

Mounting surface vibration-isolated optical table

Air free of dust

#### **Dimensions**

Length 575 mm
Width 410 mm
Height 155 mm
Weight 34 kg





Designed according to UL standards. Extended warranty available. Patent pending.









In cooperation with:



a) Please contact us for compatible chillers.

b) Please contact us for compatible pump lasers.