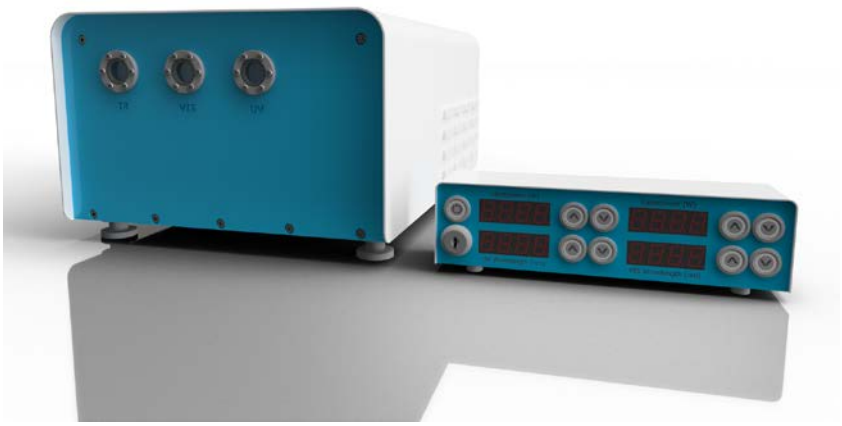
8photonics Fiber Laser Visible

The FLAVIS laser is a picosecond pulsed laser, which has two synchronized outputs at wavelengths located in the VIS and UV wavelength range. The wavelength of both outputs can be tuned independently over a wide range .



Front view with UV/VIS/IR laser output windows

Back view with trigger output and COM-ports

Key Features:

- Two synchronized pulses of different wavelengths, which can be tuned independently from each other
- High spectral purity
- Clean temporal pulse shape ($Sech^2$), no afterpulsing
- Compact, light and all-in-one laser system

Main Applications:

- Fluorescence lifetime microscopy (FLIM)
- Super-resolution microscopy by stimulated emission depletion microscopy (STED)
- Förster resonance energy transfer (FRET) microscopy
- Pulsed interleaved excitation (PIE)
- Raman microscopy
- Material processing

Actual Laser Specifications:

- Two wavelengths which can be tuned independently in the range between 525 and 650 nm

Options:

- Tunable IR output ranging between 1100-1500 nm
- Fiber-coupled laser outputs

In Development:

- Two intrinsically synchronized pulses, which can be independently tuned in the range between 330 -750 nm
- Spectral side band lower than 30 db.

Laser Specifications:

Average power	1-20 mW/nm
Repetition rate	10-80 MHz
Tunable wavelength range	330 -750 nm
Spectral width at 30dB	2-10 nm
Pulse width	1-20 ps
Polarization	Linearly polarized
Dimensions	40 x 30 x 25 cm
Cooling	Active air cooling
Optical output ports	2 free-space ports (IR optional and all ports can be optionally fiber-coupled)
Digital communication ports	USB, Ethernet, SMA (trigger)

The FLAVIS Laser has a trigger output and can be controlled via an Ethernet or USB interface. As an optional equipment, an IR output can be added to the system and the system thereby releases three synchronized pulses in different wavelength regimes. Moreover, a power and wavelength readout option can be added to the system upon request.

Please visit 8photonics at the booth #219/9 in the Hall B2 at the Laser World of Photonics for more information.

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