

ULTRASHORT PULSED LASER FOR THE THIRD BIOLOGICAL WINDOW

COMING SOON!

DESCRIPTION

The ultrashort laser has been developed within the AMPLITUDE Horizon 2020 project (grant agreement No 871277). It is a compact and efficient ultra-short pulse tunable light source operating in the 1650-1700 nm wavelength range for multi-photon imaging with integrated frequency mixing for second harmonic generation (SHG) at ~ 850 nm.

Designed and developed as a low cost and reliable source for multi-modal biological and medical imaging in the third biological window and green gas sensing, the laser delivers 100 mW average power and sub-150 fs pulses at 1675 nm in the MHz regime. The portable desktop device delivers high peak power and low noise pulses in the desired wavelength range.

KEY FEATURES

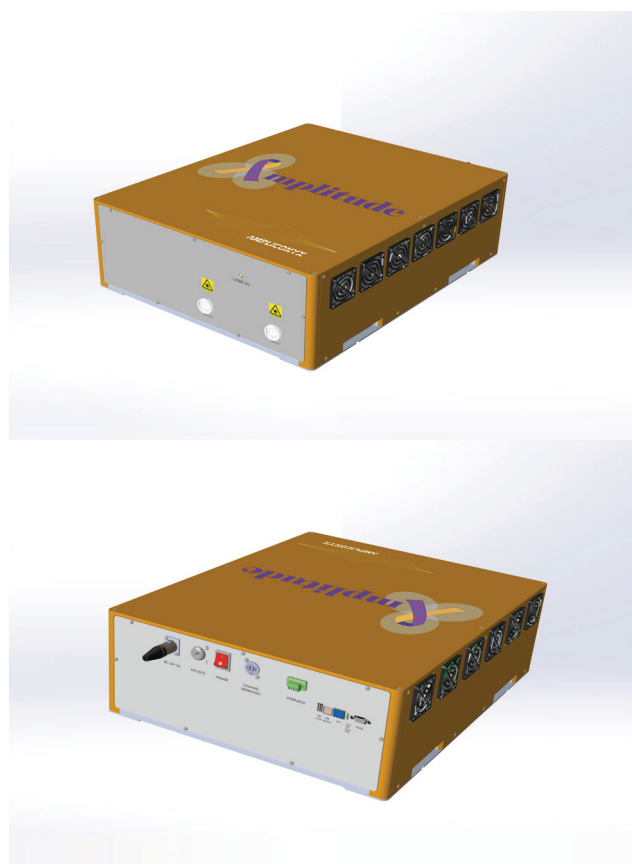
- Tunable operation 1650 -1700 nm
- Integrated second harmonic emission
- High output power
- < 150 fs pulse width
- Small footprint
- Applications: multiphoton imaging and green gas sensing

SPECIFICATIONS

PARAMETER	TYP.	UNITS
Optical parameters		
Wavelength	1675/850	nm
Output power @ 1675 nm ¹⁾	100	mW
Output power @ 850 nm ²⁾	50	mW
Pulse duration	130	fs
Repetition rate	10	MHz
Beam quality parameter M ²	1.1	

1) Output power is specified for 1675 nm, 10 MHz, 120 fs

2) Output power is specified for 850 nm, 10 MHz, 120 fs



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