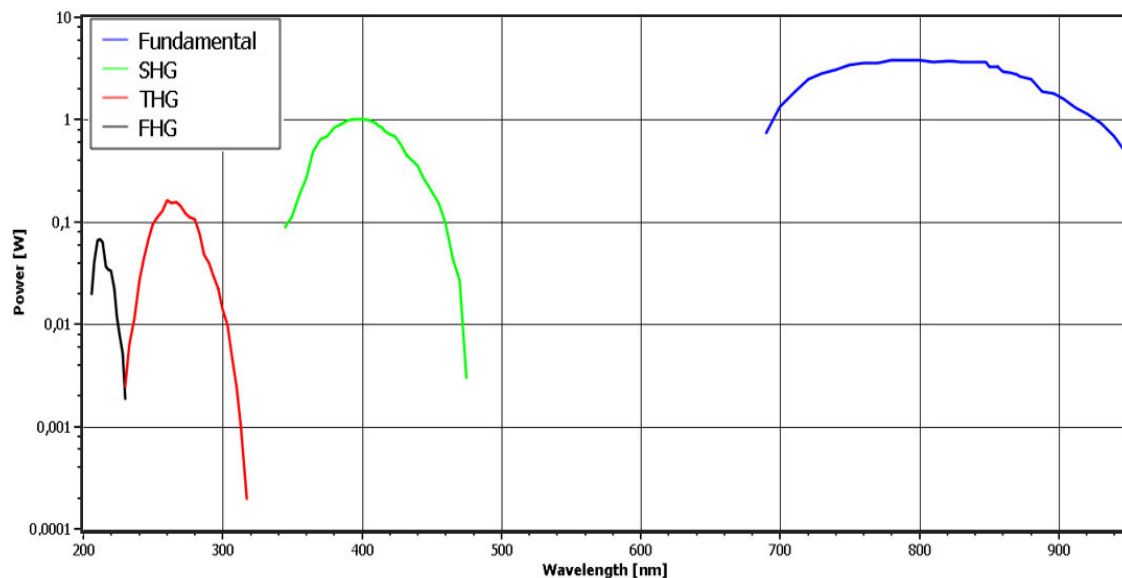


Credo Ti:Sa-10kHz-Laser

High Repetition Rate Credo Ti:Sa-Laser

The compact solid-state high repetition rate Credo Titanium:Sapphire-10 kHz-Laser is designed for applications where a wide tuning range and high pulse intensity with narrow linewidth is needed. Typical applications are atmospheric research, combustion research, material science, semiconductor technology and environmental analysis. The laser can be tuned over the full wavelength range without exchanging optics. If a wavemeter is used (HighFinesse for example) the laser can scan to a desired wavelength automatically.

Energy Output



General Characteristics

Tuning Range	690 .. 950 nm
Pulse Duration (FWHM)	approx. 28 - 50 ns
Repetition Rate	3-10 kHz
Output Power	6,8 W (at 10 kHz at peak wavelength)
Beam Size	1 mm (typical)
Linewidth	< 6 GHz (with one Etalon)
Beam Divergence	< 1,5 mrad

Requirements Pump Laser

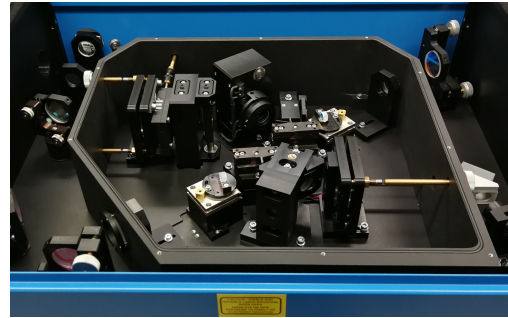
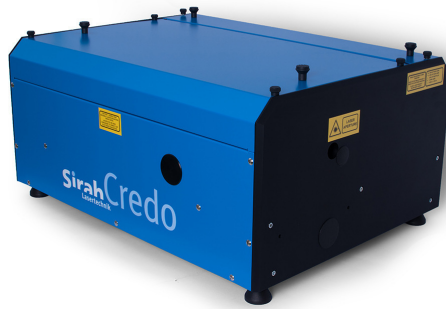
Diffraction meas. value	$M^2 < 30$
Repetition Rate	3 - 10 kHz
Pulse Duration	80 - 300 ns
Cooling Water	Water required for TiSa-crystals cooling , 50 W cooling power
Laboratory	dust-free air (flow box), 16 - 30°C
Voltage	110 .. 230 V, single phase, 50 / 60 Hz
Computer Control	XP / Vista / Windows 7 / Windows 8 / Windows 10 (32 & 64 bit), USB Port

Options

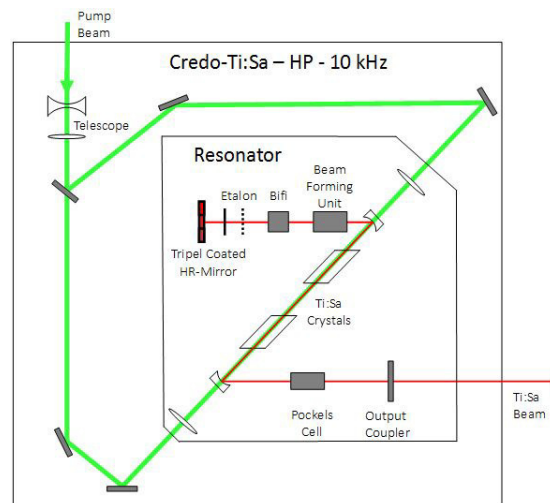
SHG	up to 25% (of Fundamental)
THG	up to 13% (of Fundamental and SHG)
FHG	up to 9% (of SHG)
Linear Polarisation	vertical / horizontal
Second Etalon - for 1GHz linewidth	
Purge Unit - for dust free air and low humidity	

Credo Ti:Sa-10 kHz-Laser

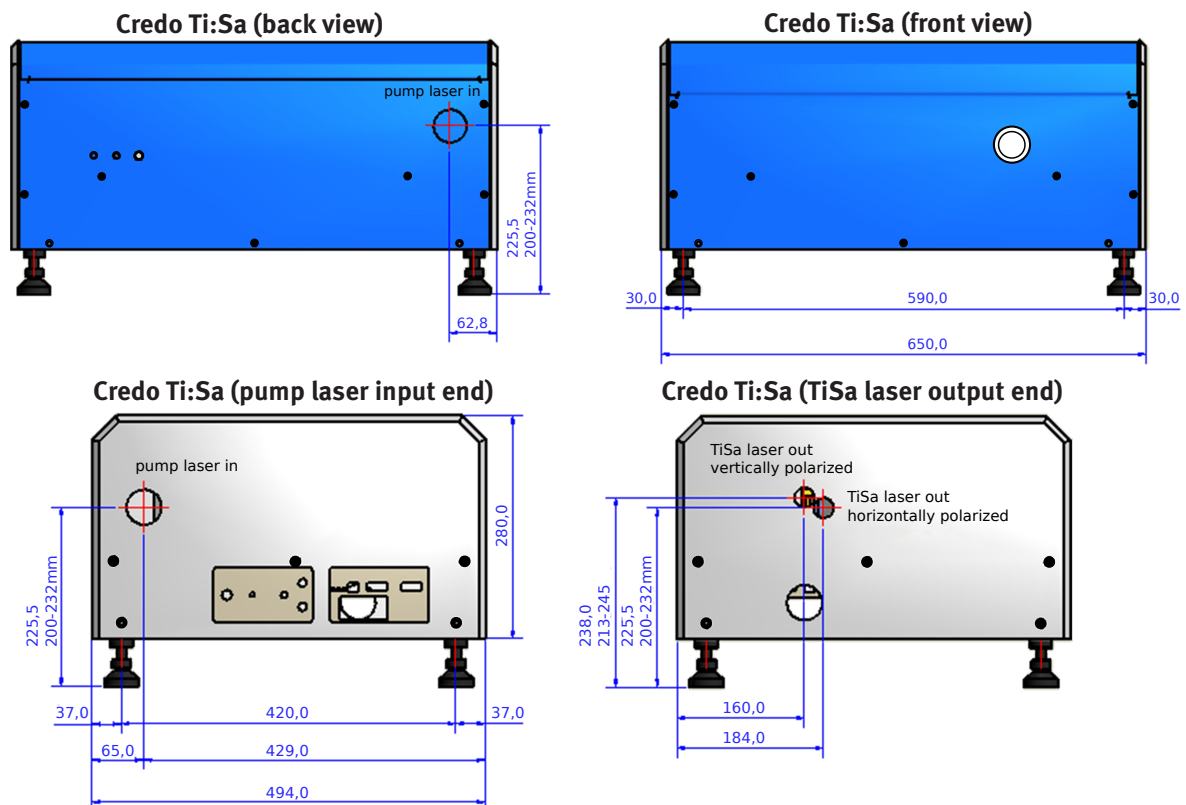
Credo Ti:Sa-10 kHz Laser



Optical Layout



Dimensions



All Dimensions in mm - Specifications are subject to change without notice



VISIBLE AND INVISIBLE
LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT

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