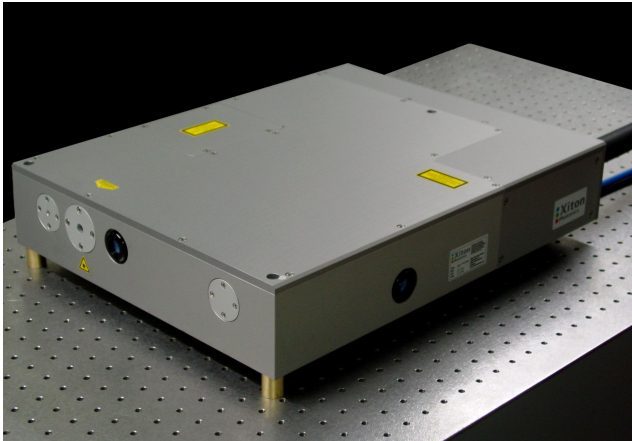


**213 nm wavelength Q-switched solid-state laser,
TEM₀₀ beam profile, air cooled**



General Description

The XVL-5HG laser is a high repetition rate solid-state diode pumped Q-switched laser with an emission wavelength of 213 nm. Its precise TEM₀₀-mode laser beam is well suited for metrology and micro-machining such as semi-conductor- or display repair. Due to the very short wavelength structure sizes below 1µm are possible in direct writing applications. The laser delivers < 7 ns short pulses with a superior beam quality of M² < 1.6. The laser system is completely computer controlled via a RS-232 interface. Different trigger control modes are available.

The system operates autoranging from 90-240 VAC, 47-63 Hz.

Applications

- Rapid prototyping
- Wavelength sensitive processes
- Stereo-lithography
- Display repair
- Micro-machining
- Semi-conductor inspection

Features

- Extremely short UV wavelength
- Diode laser pumped
- Sealed housing
- Slot mounted laser diode
- Excellent beam profile
- High pulse power
- RS-232
- Maintenance-free thermo-electrical heat management
- 19"-rack power supply

Product Specifications

model	XVL-5HG
wavelength	213 nm
average power	100 mW
pulse duration	< 7 ns
energy per pulse	> 10 µJ
repetition rate	0.1-30 kHz
M²	< 1.6

Specifications are subject to change without notice due to product improvement.

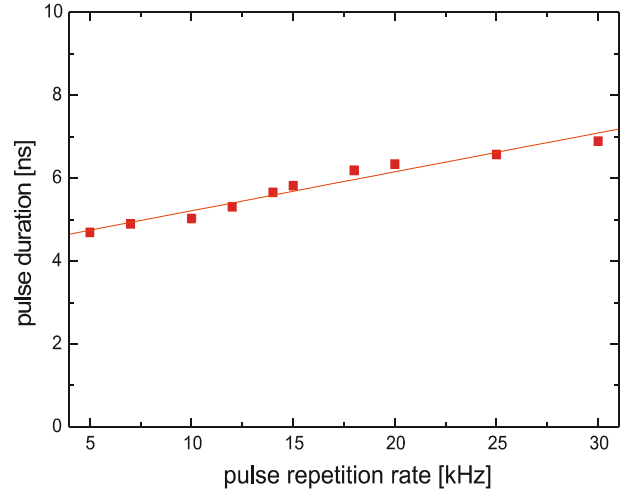
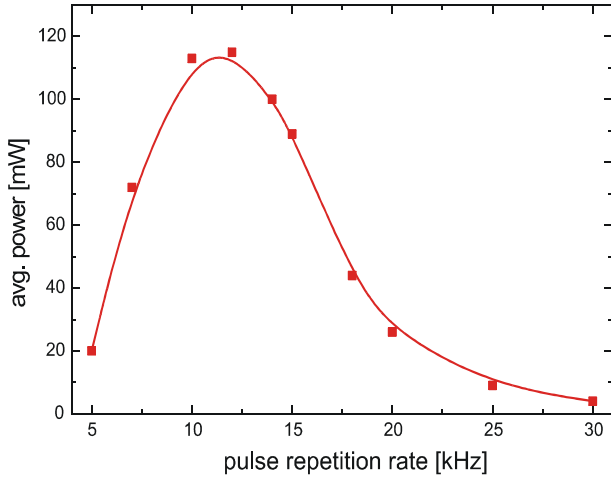
System Dimensions (L x W x H), weight

Laser head	500 x 390 x 118 mm ³	21 kg
Power supply	446 x 440 x 134 mm ³	23.5 kg
Chiller	446 x 440 x 134 mm ³	22.5 kg

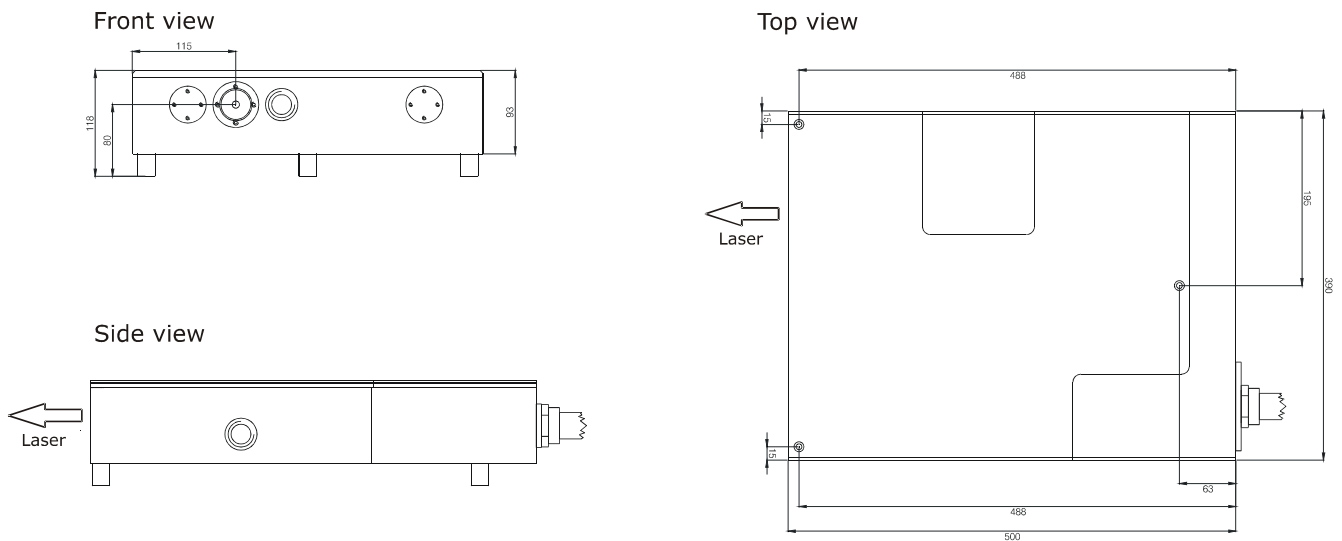
Electrical Characteristics

Operating voltage	85-264 VAC
Frequency	47 – 63 Hz
Power consumption	700 W max., 250 W typ.

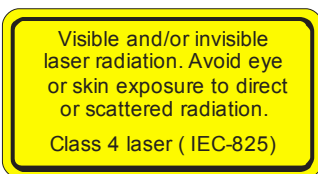
Typical Performance



Dimensions Laser Head



Fixation of the laser head by three M6 screws through the mounting feet. The feet are exchangeable in length to meet customers needs.



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