

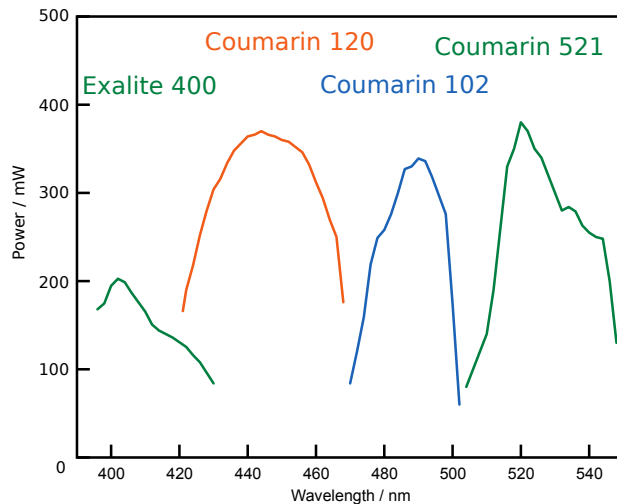
# Gropius Dye Laser

## Synchronously Pumped Tunable ps-Dye Laser

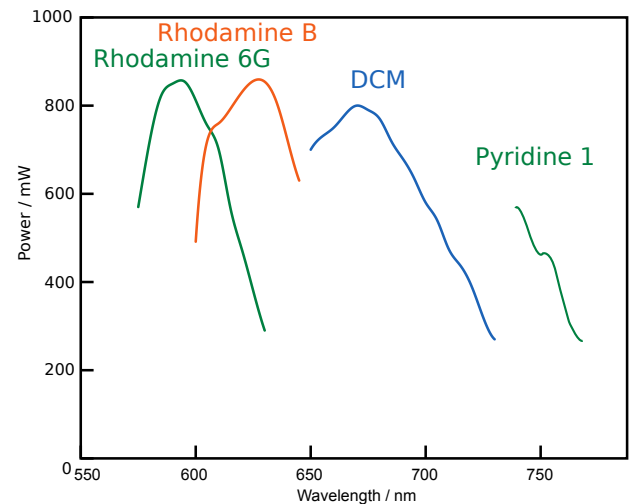
Sirah's synchronously pumped Gropius dye laser is a simple and versatile source for tunable picosecond and sub-picosecond pulses in the VIS to NIR range. The term synchronous pumping refers to matching the cavity round-trip time of the dye laser to an

integer multiple of the mode-locking frequency. The resulting output from the Gropius is a train of pulses at 80 MHz repetition rate which can be tuned over a wide spectral range.

## Tuning Range



Pumped by 355 nm / 2 W / 10 ps



Pumped by 532 nm / 4 W / 10 ps

## General Characteristics

Beam Radius <sup>1)</sup>	0.6 .. 0.7 mm (typical)
Beam Divergence	< 1 mrad (half angle)
Time Bandwidth Product	< 0.6
Beam Polarization	horizontal

## Requirements

Pump Laser <sup>2)</sup>	355 nm / 516 nm / 532 nm, 25 W power 1 .. 50 ps, 75 .. 80 MHz repetition rate
Ambient Conditions	constant temperature in the 20 .. 25°C range
Cooling	required for circulator (~300 Watt)
Laboratory	vibrational isolated optical table, dust-free air (flow box)
Computer Control	XP / Vista / Windows 7 / Windows 8 / Windows 10, USB-Port

## Options <sup>3)</sup>

Short Pulse Configuration	down to 0.5 ps
Long Pulse Configuration	up to 100 ps with additional Etalon

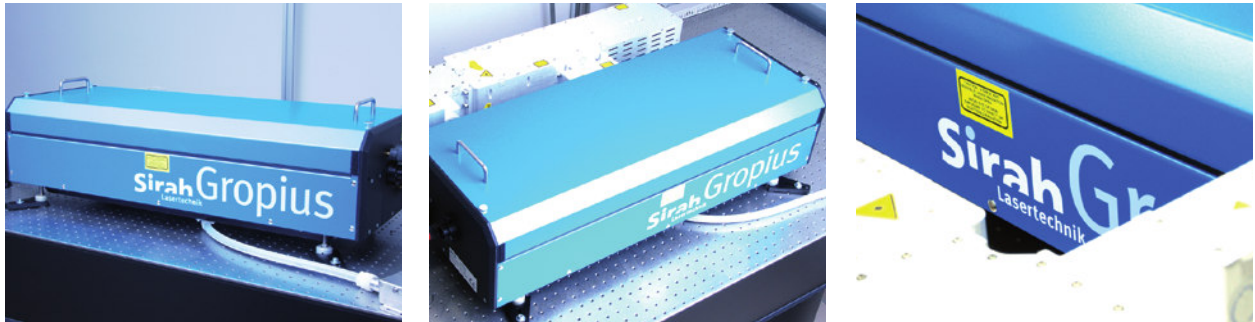
<sup>1)</sup> at Gropius output port

<sup>2)</sup> please contact Sirah for compatibility with pump lasers

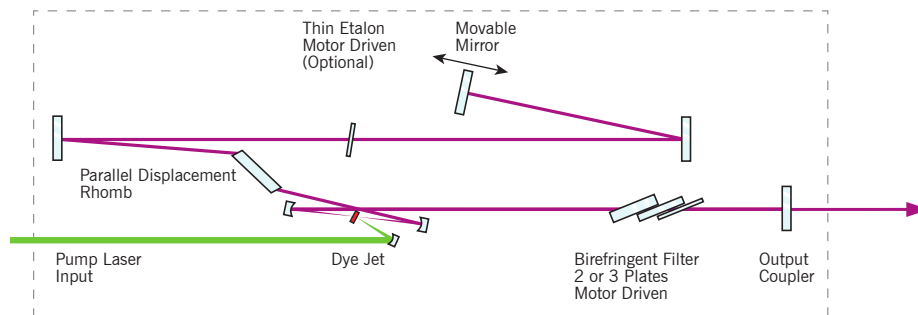
<sup>3)</sup> please contact Sirah for details

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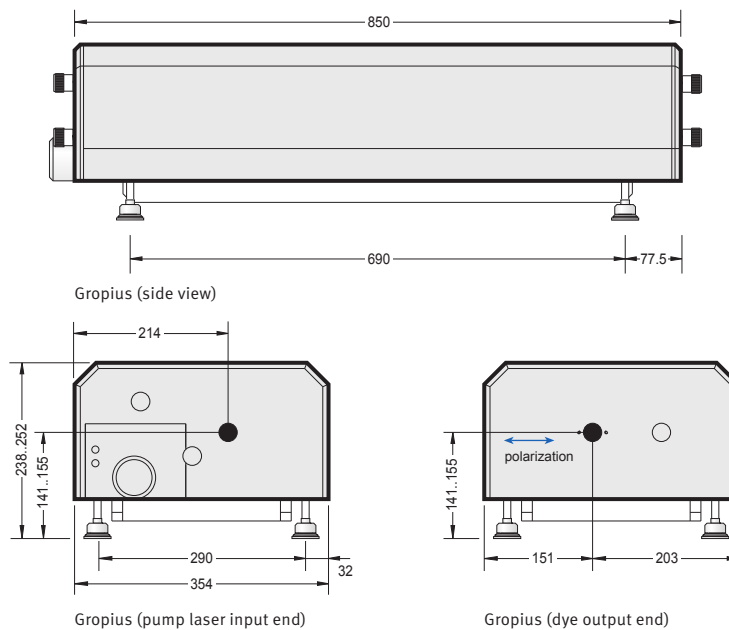
## Gropius



## Optical Layout



## Dimensions



All Dimensions in mm  
Specifications are subject to change without notice



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