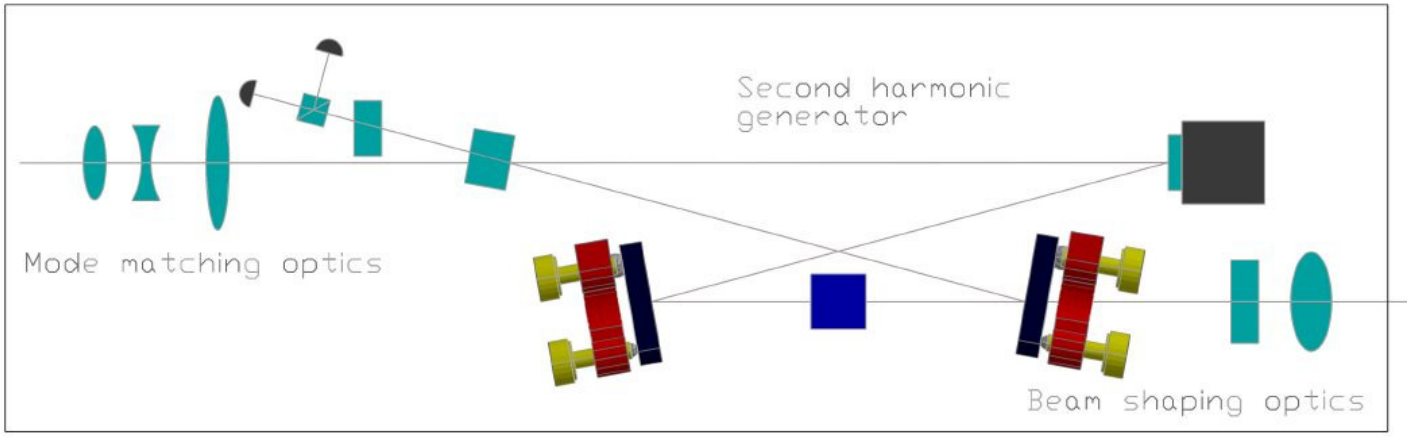
Radiant Dyes Laser & Accessories GmbH

NarrowSHG

NarrowSHG
Stand-alone Second Harmonic Generator



Our new ***NarrowSHG*** is a stand-alone second harmonic generator for frequency doubling of single frequency lasers such as Ti:Sa lasers, dye lasers and diode lasers.
The unit contains mode matching optics for the external laser and beam shaping optics for the frequency doubled light. The compact resonator with a high mechanical and thermal stability includes digital locking electronics with automatic relocking Hänsch-Couillaud or Pound-Dever-Hall stabilization.

Features:
• **Stand-alone unit**
• **High stable Radiant Dyes mechanics**
• **60 GHz @ 400nm continuous scan range**
• **Highest optical conversion efficiency**

Specifications	NarrowSHG		
Wavelength range	Input 410 nm - 1600 nm	output 205nm – 800nm	Optical conversion efficiency
Optical conversion efficiency	Input 410nm - 500nm	output 205nm – 250nm	6% -11%
	Input 500nm - 700nm	output 250nm – 350nm	13% -21%
	Input 700nm - 900nm	output 350nm – 450nm	ca. 20%
	Input 900nm - 1600nm	output 450nm – 800nm	35% -65%

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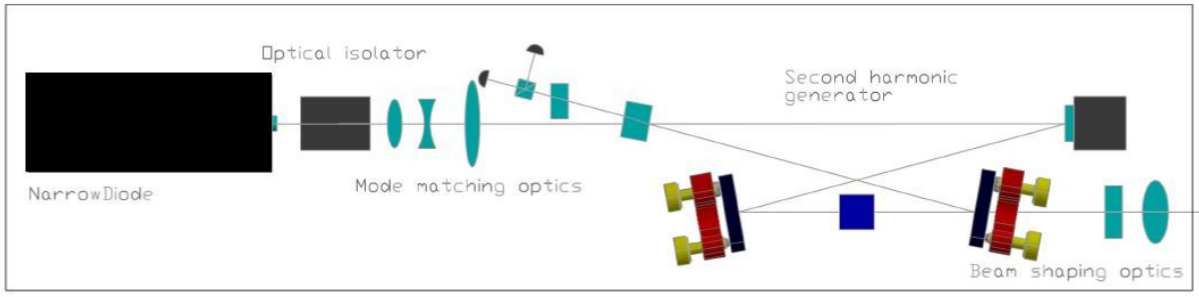
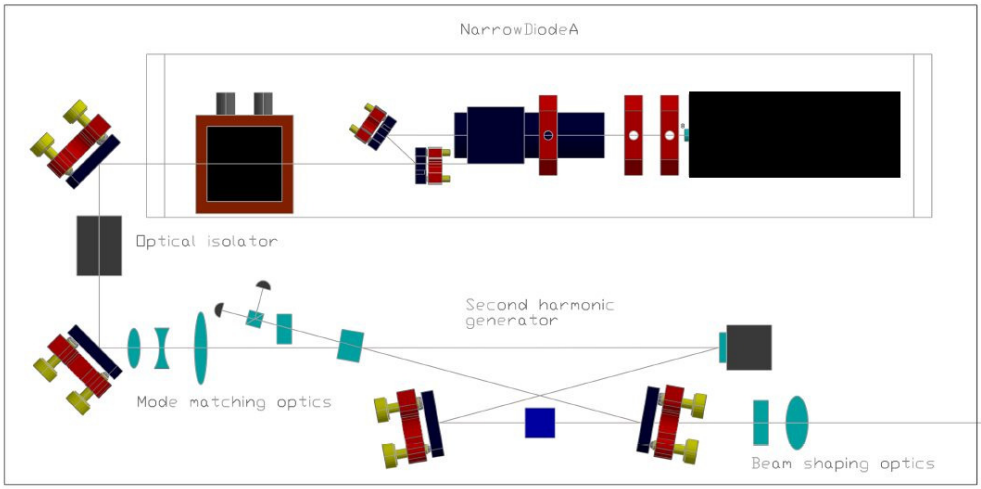
NarrowSHG

NarrowDiodeSHG
Frequency Doubled Diode Laser



The NarrowDiodeSHG combines the NarrowDiode laser with the NarrowSHG doubling unit for applications such as laser cooling or spectroscopy where medium laser power is required. This system includes all electronics for the wavelength stabilization of the Diode Laser and SHG unit.

NarrowDiodeSHG with Amplifier



For high power applications we offer this system with the NarrowDiodeA Laser. Due to the 1,5 W output power of the diode laser, higher output energies in the UV can be achieved with the characteristics of the NarrowDiodeSHG as well as best long term stability and a ultra-low noise sensitivity.

Features:
• **Wide wavelength range**
• **High stable Radiant Dyes mechanics**
• **Output energy up to 400mW**

Radiant Dyes Laser