

Harmonic Generator

Multi-wavelength conversion in a single compact module

Our Harmonic Generator is a compact multi-wavelength conversion module designed to extend the capabilities of ultrafast laser platforms. Compatible with **Satsuma X** and **AXIS 120**, it provides access to multiple wavelengths within a single module, enabling flexible process definition without multiplying laser sources.

Tailor your laser - combine any 3 of the following 4 wavelengths:

- > Fundamental (IR)
- > SHG (Green)
- > THG (UV)
- > FHG (Deep UV)

- and switch automatically for effortless integration.

The Harmonic Generator allows users to select the optimal wavelength for each material or process while keeping a single laser source. Its compact footprint, combined with smart, automated control, makes it particularly adapted for multipurpose and multi-material equipment.



Applications

Industry & Science:

- > Micromachining
- > Multi-material equipment
- > Research centers

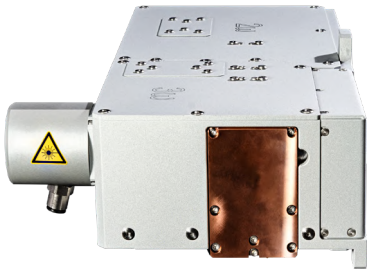
Key Features

- > Multi-wavelength conversion in a single compact module
- > IR, Green, UV and Deep UV compatibility
- > Cost-effective solution for multi-material processing
- > Easy integration

Specifications

Harmonic Generator

Pulse Duration	< 500 fs
Adjustable pulse duration (fs)	No
Center wavelengths	1030 nm - 515 nm - 343 nm - 257 nm
Input wavelength	1030 +/- 3 nm
Max input energy (IR)	500 µJ
Max average input power (IR)	120 W
Conversion efficiency	SHG to IR > 50 % THG to IR > 30 % FHG to IR > 10 %
Max output power (with AXIS 120)	SHG 60W THG 30W FHG 5W
Shift between wavelengths	Fully automated computer controlled



Compatibility



Satsuma X



AXIS

