

SHG Unit

This SHG (Second Harmonic Generator) Unit realizes **highly efficient** wavelength conversion with bulk type wavelength conversion crystals.

In addition, this SHG Unit optimized for your light sources can be custom made to contribute to biotechnology and medical applications (flow cytometer, DNA sequencer, etc.).

Applications

- Laser microscopes, fluorescent microscopes
- Flow cytometers
- Various spectroscopic, physical and chemical applications



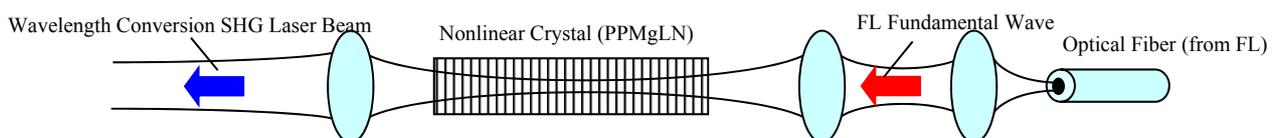
Built-In Mechanism

- Peltier and thermistors for crystal thermo control
- SWPF filters for fundamental wave cutting
- PD for converting light intensity monitoring

Option

- Fiber laser light sources for each wavelength
- Crystallization temperature adjustment control driver (external)
- Safety shutter (external)
- AOM (external)

580 nm conversion efficiency example: 20%



Main Specifications

Output Wavelength Example	Single wavelength of 488-670 nm
Output Level*	Up to 1-W class (spatial output)
Output Method	Special beam or optical fiber
Beam Quality	Spacial single-mode TEM ₀₀ , $M^2 \leq 1.1$

*Output levels may vary depending on the characteristics of the input fundamental wave laser (power, line width, etc.).