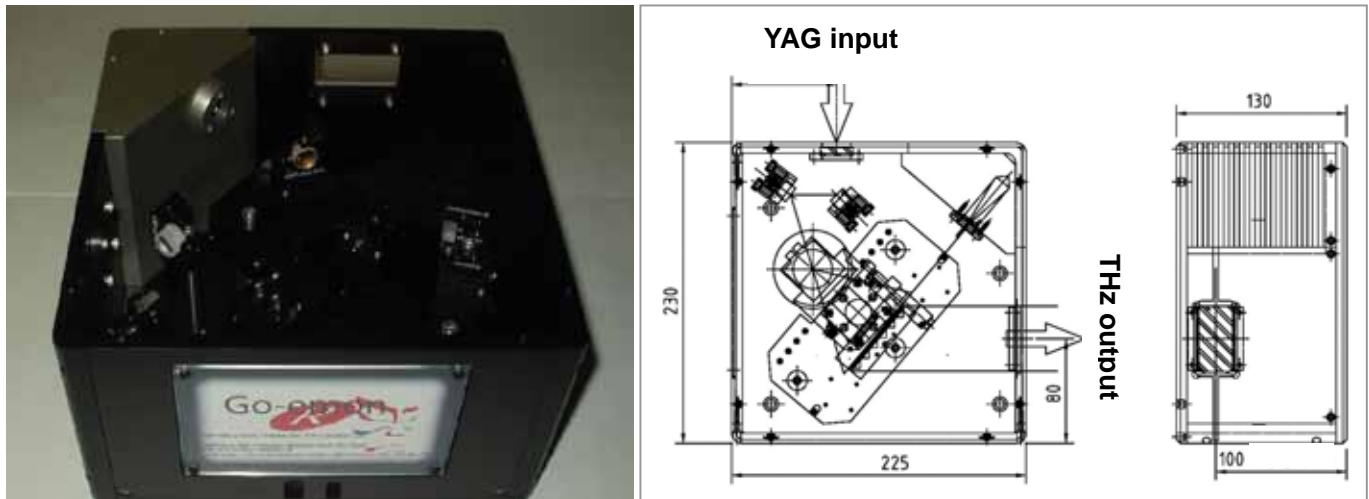


THz Wave Generation System

Model : GO-EMON-S

GO-EMON THz wave Generator consists of the ring cavity, non-collinear phase matched frequency conversion and wavelength tuning structures. Due to the ring cavity, GO-EMON achieves the narrow bandwidth of THz (30-50GHz). The system requires the external pump source (Nd:YAG). Max rep. rate is 500Hz and it can help to measure the data rapidly. This system is designed and produced by PAX. Inc. based on the patented technologies under contract to RIKEN, JAPAN.



Advantages & Features

- ★ World smallest THz wave radiation system --- no cooling system required
- ★ Ring cavity design for stable ---- narrower band width
- ★ Easy to use --- only input the fundamental wavelength (1064nm) of Nd:YAG laser
- ★ Si prism array coupler --- Efficient THz wave output generated by non-collinear phase matching condition
- ★ Tsurupica Aspheric cylindrical window used for collimation of THz wave
--- No absorption at 2.2THz wave that Polyethylene material has
- ★ Synchronized to the pump laser with up to 500 Hz rep. Rate (Motorized Option: GO-EMON-R)
- ★ Controllability of the wavelength tuning speed (Motorized Option: GO-EMON-R)

Technical Specifications

Tuning range	1-2.8 THz region (input: 20mJ/pulse @1064nm)
Bandwidth (THz wave)	30-50GHz (pulse width of pump: 23nsec)
Peak output power	>100pJ/ pulse at 1.5 THz
Angle resolution	5 μ rad (Motorized Option: GO-EMON-R)

For more information