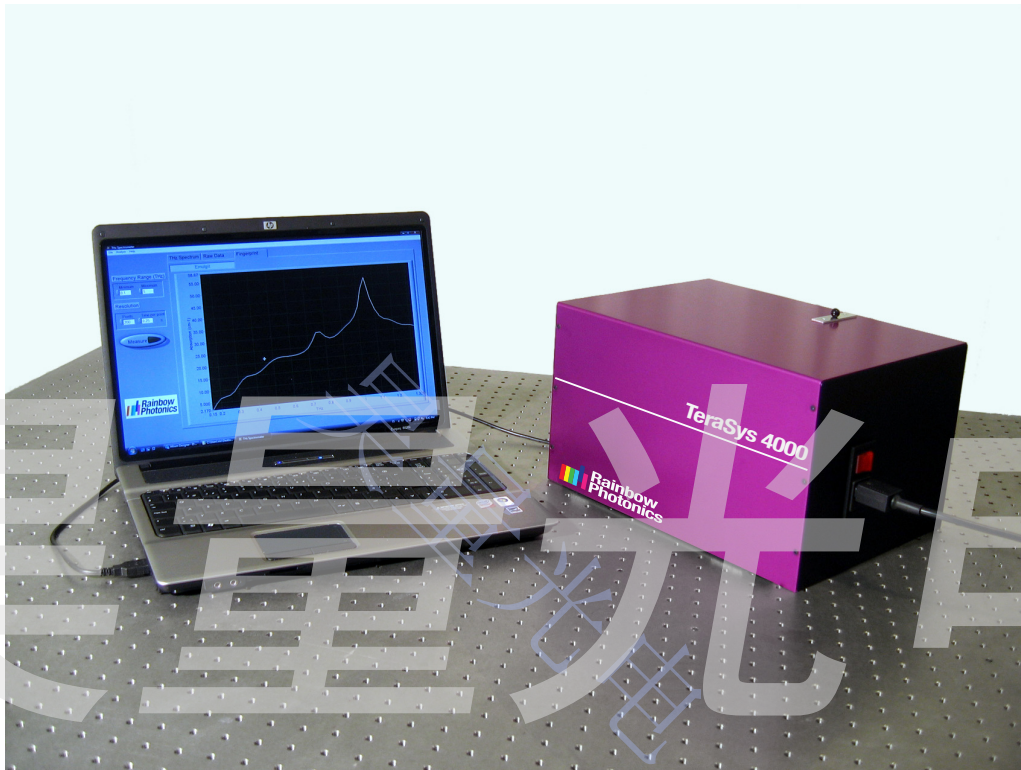


# **TeraSys 4000**

THz System for THz spectroscopy, detection and inspection of materials



## **Applications:**

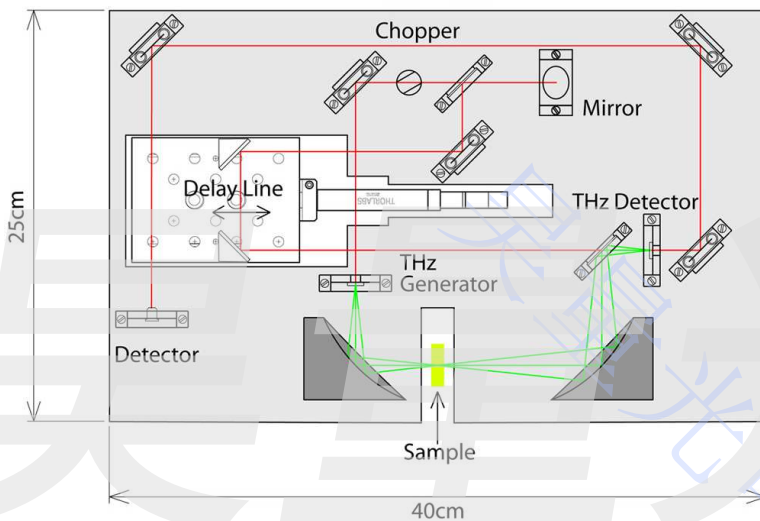
- security:
  - explosives detection
  - bio agents
  - mail inspection
- materials inspection
  - defects in plastics, artificial joints
  - organic materials
- spectroscopy
  - identification of pharmaceuticals, drugs, etc.

## **Features:**

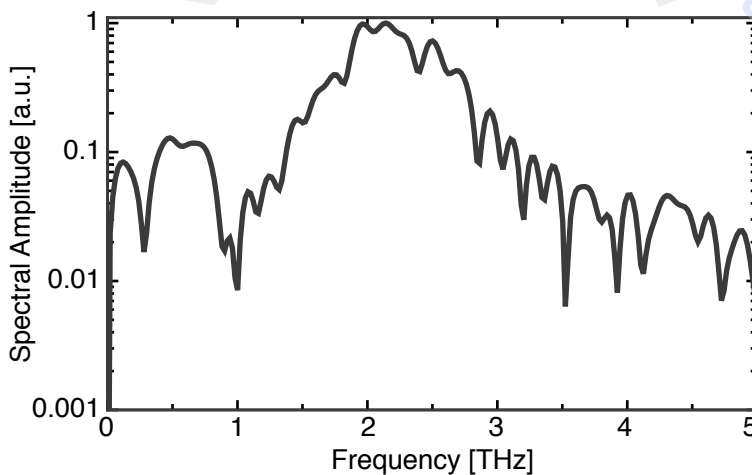
- turn key operation
- all solid state
- maintenance free
- software package and data base for the detection and identification of dangerous materials

<b>Specification <sup>(1)</sup></b>	<b>TeraSys 4000</b>
Frequency range	0.3 - 4 THz
Output power	> 50 nW
Spectral resolution	< 0.01 THz
Polarisation, linear	> 100 : 1, vertical
Input voltage	110V / 240V, 50 or 60 Hz
Power consumption	< 60 W
Warm-up time	15 min.
Operating ambient temperature	18°C - 30°C
Dimensions	40x25x18 cm <sup>3</sup>

<sup>(1)</sup> Specifications are subject to change without notice



**TeraSys 4000** optical set-up



**TeraSys 4000** frequency response

Other frequency responses are available upon request

### Rainbow Photonics AG

Farbhofstrasse 21  
CH-8048 Zürich

Phone: ++41 44 419 05 05  
 Fax: ++41 44 419 05 06  
 E-mail: [info@rainbowphotonics.com](mailto:info@rainbowphotonics.com)  
 Web: [www.rainbowphotonics.com](http://www.rainbowphotonics.com)

