

TeraKit - DODS

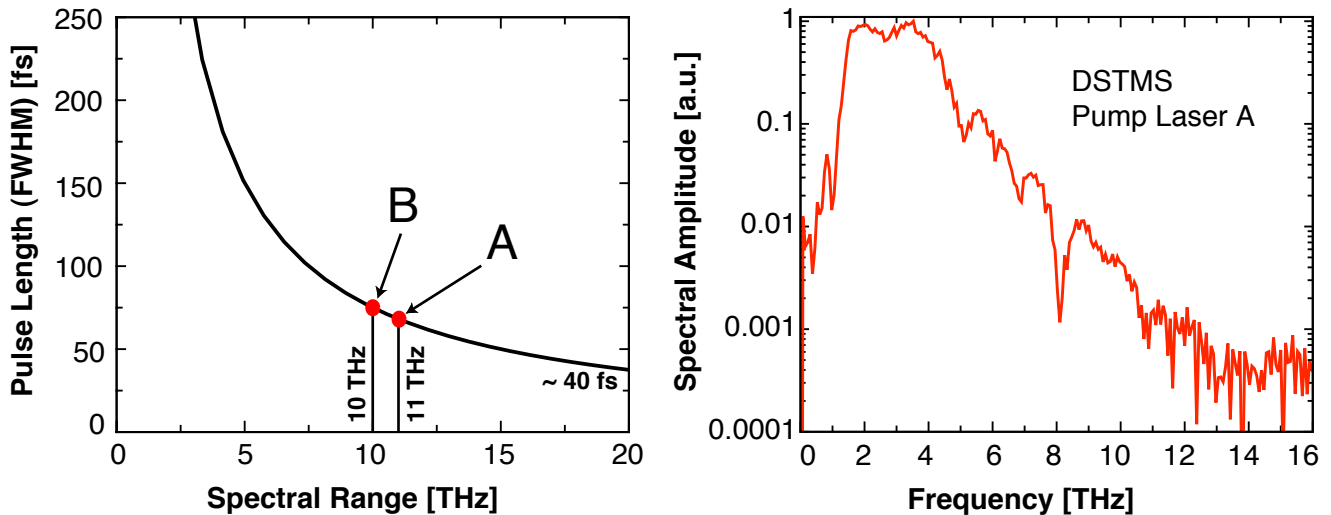
The flexible solution for THz spectroscopy

The **TeraKit-DODS** provides a flexible solution for laboratory THz spectroscopy. It is based on organic crystals, to allow access to terahertz frequencies not yet available with conventional antennas. The **TeraKit-DODS** includes all optical, mechanical and electronic components for the generation and detection of THz waves such as delay line, terahertz generator, terahertz detector, optics, electronics, dedicated software and laptop. It can be used with any femtosecond laser source at telecom wavelengths.



Specifications	TeraKit-D	TeraKit-O	TeraKit-DS
THz generator	DAST	OH1	DSTMS
Spectral range	0.3 – 11 THz	0.1 – 3 THz	0.1 – 11 THz
Best phase matchable wavelength	1300 – 1600 nm	1200 – 1460 nm	1300 – 1700 nm
Requirements External femtosecond laser source			
Options <ul style="list-style-type: none"> ◆ THz imaging with a scanning range of 50x50 mm² or 100x100 mm² ◆ TeraKit including pump laser source (< 70 fs or < 80 fs) 			

Dependence of the THz spectral bandwidth on the pump pulse length and frequency domain spectrum measured in dry air with the **TeraKit-DS** using DSTMS as terahertz generator and detector and pump laser A (68 fs).



Pump source	A	B
Spectral range	0.1 - 11 THz	0.1 - 10 THz
Dynamic range	> 50 dB	> 60 dB
Scan range	up to 60 ps	up to 60 ps
Pulse length	< 70 fs	< 80 fs
Total average power	> 180 mW	> 350 mW
Central wavelength	1565 nm	1565 nm
Repetition rate	100 MHz	40 MHz/80 MHz

Other spectral ranges 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
Web: www.rainbowphotonics.com

