

TeraSys12[®]

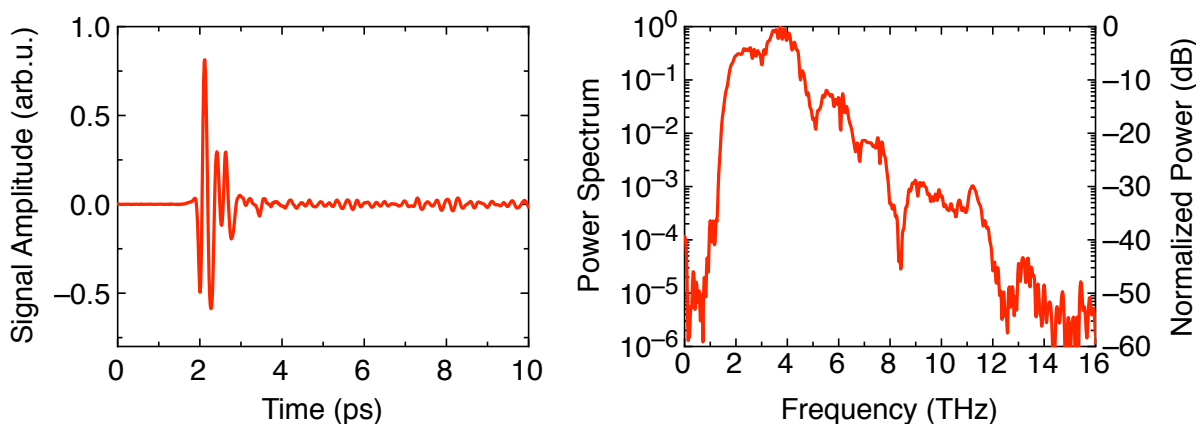
Wide THz Bandwidth for Spectroscopy and Imaging

The **TeraSys12[®]** is the ultimate solution for real-time THz imaging and spectroscopy. It is a compact terahertz instrument addressing: sensing, detection, analysis, and processing methods at terahertz frequencies in real-time. It is based on organic crystals to allow access to terahertz frequencies up to 12 THz not available with conventional photoconductive antennas.



- Frequency range 0.3 – 12 THz
- Real time acquisition, 4 spectra per second
- Purge chamber with humidity sensor
- Dedicated software and computer control
- Maintenance free
- Compact design

Frequency domain spectrum measured with the **TeraSys12[®]** using DSTMS organic crystals as terahertz generator and detector in Transmission.



TeraSys12[®] Specifications

Spectral range	0.3 – 12 THz
Acquisition speed	4 spectra per second
Scan range	>300 ps
Dynamic range	>60 dB (@ 4 THz)
Frequency resolution	< 10 GHz
Dimensions	55 cm x 60 cm x 30 cm

Pump Source (high power ultrafast fiber laser)

Pulse length	< 100 fs
Total average power	> 120 mW
Peak power	> 10 kW
Central wavelength	1565 nm
Repetition rate	100 MHz

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