

TeraLyzer

THz-TDS Data Evaluation Software for Sub-100 μm and Multilayer Samples

MenloSystems

APPLICATIONS

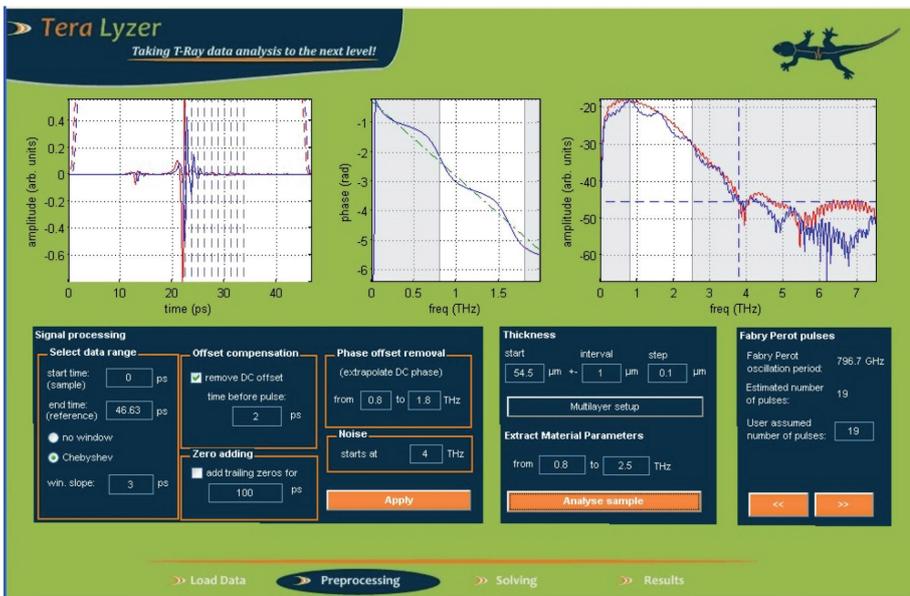
- Time-resolved THz Spectroscopy in Transmission Geometry
- Investigation of Sub-100 μm Samples, up to Several mm Thickness
- Characterization of unknown Layers in a Multilayer System
- Inaccessible Samples, eg. in a Cryostate

FEATURES

- Broadband Application
- Sample Thickness Extraction
- Optical Parameter Extraction ($n, \alpha, \kappa, \epsilon'$ and ϵ'')
- Statistical Error Propagation
- Data Import and Preprocessing
- Dynamic Range Correction for Highly Absorbing Samples

OPTIONS

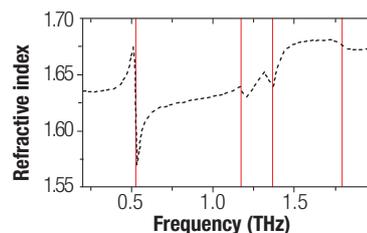
- **SINGLE LICENCE**
Single Version
- **GROUP LICENCE**
Up to 10 Workstations
- **TRIAL VERSION**
Valid for 28 Days



TeraLyzer is a first-of-its-kind software solution for material parameter extraction from terahertz time domain spectroscopy data in transmission geometry. It delivers highly precise information of the complex material parameters of a sample ($n, \alpha, \kappa, \epsilon', \epsilon''$), including error bars and the estimated sample thickness. One of the strong features of the TeraLyzer software is that thin samples in the sub-100 μm regime become accessible to your research without the need for differential measuring setups. Moreover, analysis of multilayer systems promotes a whole new range of experiments. For a free TeraLyzer trial version contact our expert.

CASE STUDY α -lactose / polypropylene compound

Refractive index:



Absorption spectrum:

