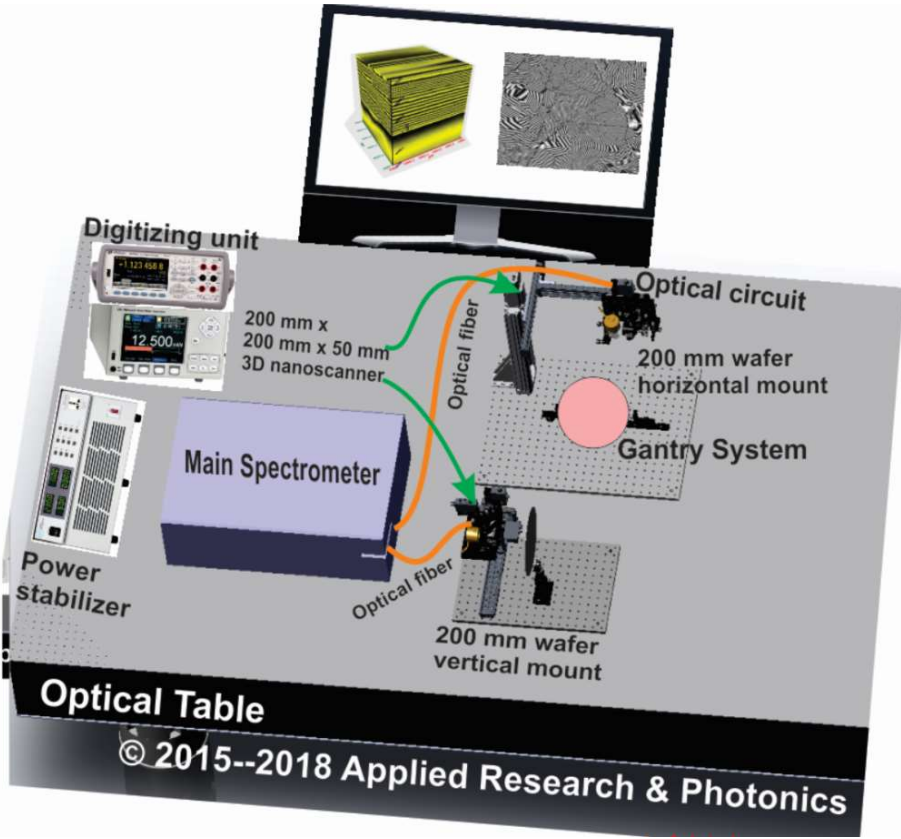


TeraSpectra: A terahertz spectrometer

ARP’s Terahertz Spectrometer, TeraSpectra is a turn key spectrometer system, that allows time domain measurements to be conducted over a time span of sub-Pico seconds to a few tens of Pico-seconds with an equivalent frequency range of 0.1 to ~30 THz.

This wide range allows characterizing a number of molecular events important in semiconductor and nano-material research and inspection.

Parameter	TeraSpectra
Time resolution	~33 Femto-seconds
Time span	Up to 100 Pico-seconds
Fourier Transform Frequency Range	0.1 up to ~35 terahertz
Technology	Next generation EO dendrimer terahertz emitter
Source power	>5 milliwatts, average
Sensitivity	~100 FemtoMol



Key Features

- Turn-key System
- 3-Dimensional Imaging
- Sub-Surface Inspection
- Non-Contact
- Non-Destructive
- Layer-by-Layer Analysis
- Material Characterization:
 - Lattice Image
 - Stacking Fault
 - Dislocations
 - Nanovoids

- Delamination

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