

Our Terahertz Metrology Solutions

Scientific Solutions



Terahertz Measurement Kit



Terahertz Photoconductive Antenna

Industrial Solutions



PlastiMeasure™



TeraGauge™

Overview

An all-in-one terahertz time-domain measurement kit for research and development

Generate and detect terahertz waves with this easy to use photoconductive antenna

A fully automated thickness measurement system for plastic bottles and containers

A non-destructive dimensional profiling system for plastic medical tubes

A non-destructive measurement gauge powered by terahertz waves

Key Features

- Includes femtosecond laser, transmitter and receiver photoconductive antennas, all optical & electronic components
- Transmission/reflection/ATR measurement configuration
- Terahertz raster scan imaging hardware and software; Fast scan option

- Integrated silicon lens
- Ready to use and easy to mount with standard 1" threaded body
- Rugged & modular industrial grade packaging
- High signal-to-noise ratio and dynamic range

- Provides non-destructive and high-speed measurement of a full shot of plastic products with unprecedented accuracy and repeatability
- Measures multi-layer and mono-layer plastics ranging in thickness 0.01 mm - 7 mm
- Integrated into customers' shop floor SPC and other shop floor control systems

- Powered by TeraGauge™
- Accurate, reliable and repeatable measurements that do not rely on cut quality
- Measures single-lumen, multi-lumen, and multi-layer plastic tubes
- Data from the production floor is instantaneously available to personnel

- Off-line, at-line, and in-line measurement gauge
- Up to 100 measurements per second
- Measures plastics, rubber, glass, wood, ceramic, web & sheet, film etc.
- Mountable on scanners and robot arms for in-line real-time measurement

Application Examples

- Material characterization
- Terahertz imaging & spectroscopy

- Terahertz time-domain measurement set-up
- Terahertz generation & detection

- Detect, locate and measure barrier layers in plastic bottles and containers
- Thickness measurement of transparent, opaque, and colored plastics

- Measures the ID, OD, wall thickness, concentricity and ovality of plastic medical tubes
- Quality control of opaque, transparent and translucent tubes

- Multi-layer thickness measurement
- Hidden/sub-surface void detection
- Non-destructive test applications (NDT)

About TeTechS

TeTechS is a provider of terahertz metrology solutions to smart factories.

TeTechS is at the forefront of an emerging metrology category utilizing terahertz waves.

TeTechS' PlastiMeasure powered by its TeraGauge measurement platform is revolutionizing thickness measurement for distribution process control in plastic manufacturing industry by leveraging the unique characteristics of TeTechS' state-of-the-art terahertz Measurement technology.

Our Vision

To be the leader in terahertz metrology solutions for smart factories.

Our Core Purpose

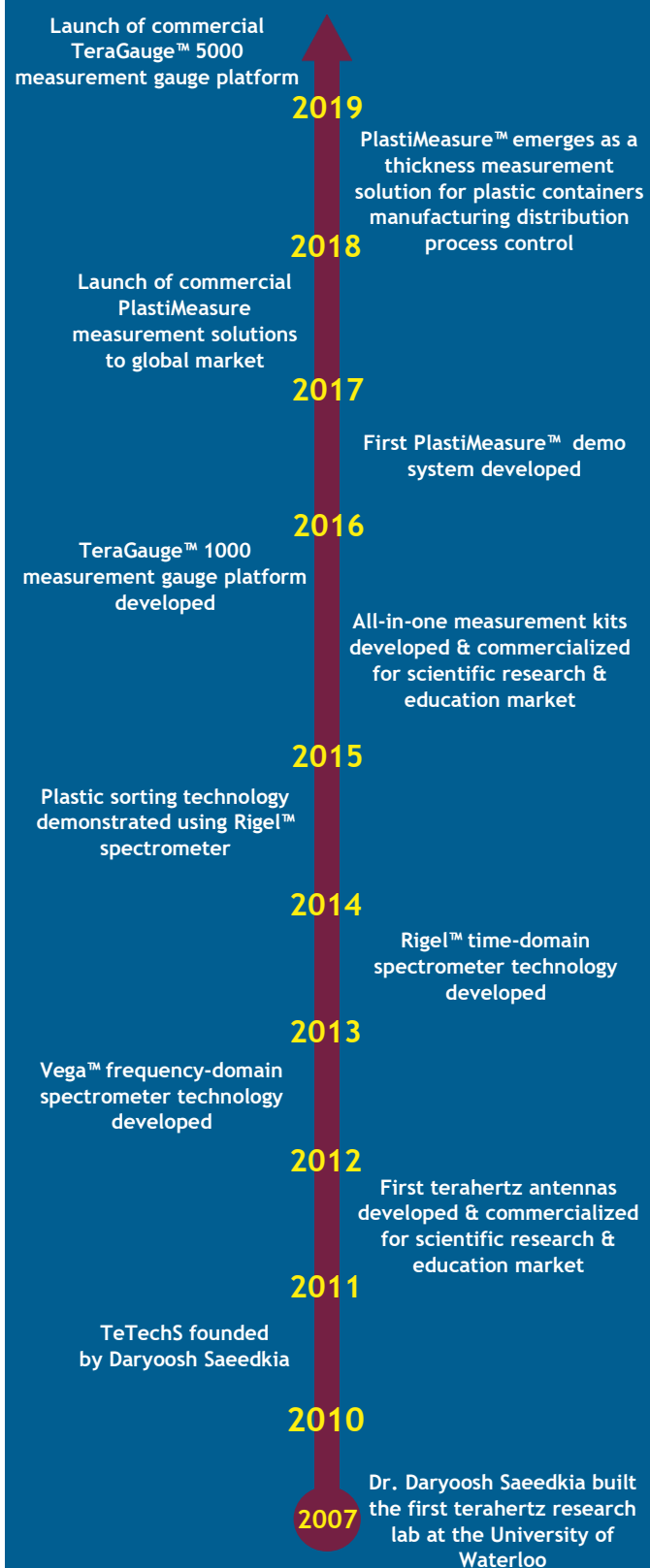
To provide creative solutions to challenging problems by keeping innovation at the heart of our business.

Our Core Values

Innovation - we create solutions for even the seemingly unsolvable

People - we maintain strong, collaborative relationships with our clients, our team, and our community

Trust - we foster a culture of transparency and honesty



Get in Touch

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