

Overview

Since 2003, TERA is a leading deep technology private firm specializing in Terahertz (THz) technology. What started as a single patent from the Weizmann Institute, has evolved into nearly two decades of focused research, whereby TERA has amassed a portfolio of 120 patent applications, including 86 granted patents.

We leverage Terahertz waves to develop practical solutions that address unmet needs across various industries. TERA adheres to key standards, including ISO certifications 9001, 13458, and 27001.

Please use the following [Link](#) to watch our Introductory Video.

Unique Capabilities of Terahertz

Terahertz waves reside in a less-explored corner of the electromagnetic spectrum, and TERA stands at the forefront, harnessing their potential to create practical solutions. Unlike familiar technologies such as X-rays, infrared (IR), or MRI, Terahertz waves offer distinct advantages due to their specific wavelength.

The characteristics of THz allow for swift data acquisition in real time while only requiring minimal material for detection and sensing. These distinctive qualities enable our system to achieve high throughput, while maintaining efficiency and accuracy.

Additionally, Terahertz waves are human-safe and non-ionizing, in stark contrast to UV and X-rays. Built on our deep understanding, our system is the pioneer for innovative solutions to real-world challenges by leveraging the advantages inherent to Terahertz waves.

TERA Egg

TERA's strategic partnership with the world's leading egg handling company introduces TeraEgg, an advanced stage spectroscopy technology for non-invasive gender classification of chicken eggs (male, female, and infertile) using our proprietary TeraSystem.

- ❖ Prevent ~8 billion male chicks culled globally and add over 20 billion infertile eggs per year.
- ❖ The potential addressable market is anticipated to exceed \$1.3 billion over the next decade.
- ❖ **The only product that can determine gender on the 1st day of embryo development and prior to incubation. We will save tens of billions of chicks over the next few years.**
- ❖ The TeraSystem has high throughput and can scan an embryo within microseconds.
- ❖ The TeraSystem adheres to the 4Es - *Economical, Efficient, Ethical, and Edible*.



TERA Water

TeraWater, currently in a lab-based production, reshaped surface water molecules, altering properties including pH, spatial structure, polarity, wetting, solubility, dispersion, bioactivity, and chemical activity (i.e., control the availability of Oxygen or Hydrogen). TeraWater offers versatile formulations for a wide array of industrial applications across Energy (Hydrogen), Pharma, Food, and Medical sectors. We are working with our academic partners at Cambridge University to continue the research and progression of the groundbreaking TeraWater.

To learn more about TERA please reach out to us at partners@tera.group.

