



Understanding THz Technology

We as the Terahertz Experts help you to understand this breakthrough and ongoing technology based on the THz region of electromagnetic waves with frequencies from 0.1 THz (100 GHz) up to more than 10 THz (between microwaves and infrared light waves).

Based on THz Technology, we give you insight into potential new applications and solutions for your products and customer challenges. Together with you, we will examine the realization potential and feasibility after fully understanding of your problem cases and objectives.

Devices

Over the decade, various devices such as photoconductive antennas, photomixers, lasers, photodiodes, Schottky diodes and other kind over components, have been successfully developed and serve as basic building blocks for the THz Technology. We show you the advantages and disadvantages of those devices with regard to your problems and requirements. We enable you to make the right choice.

Systems

THz components are put together into systems with

- high-performance,
- high resolution,
- moderate size,
- broad band,
- high SNR
- and accessible costs.

Different kinds of systems, such as pulsed or continuous-wave systems, fiber-coupled or waveguide-types, are available.

We evaluate and work out with you possible system concepts and designs suitable to your product vision and problem definitions.

Applications

Following areas benefit from the THz Technology:

- non-destructive and non-invasive inspection and testing,
- quality control of food and agricultural goods,
- inspection of pharmaceutical products,
- security and environmental monitoring,
- advanced imaging systems

There is a wide range of possible applications and potentials for THz Technology in various fields.

With our experiences we help you to successfully match the THz Technology to your application requirements.

MAKING THE INVISIBLE

VISIBLE