

Overview of real-world Terahertz applications

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Abstract: This talk will discuss advances in the use of terahertz light from the research arena towards real world applications in industry. Demonstrating work initially developed for measuring pharmaceutical tablet coatings, applications within automotive and industrial paint and coating applications will be discussed.

TeraView has been developing terahertz technology and applications for over 10 years in several industries. Rapid, non-destructive and non-contact, low power terahertz light pulses can accurately measure individual layer thickness of a multiple layer paint coating and can be used to rapidly scan large areas with multiple readings. Coating layers as well as compressed ingredients into matrix of tablets can be observed based on an optical delay of THz pulse wave. A brief overview of the work carried out in a number of different markets will be presented during the presentation including the automotive and solar industry.