

EXAMPLES OF TERAHERTZ IMAGING APPLICATIONS

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Aeronautics

- Measuring the thickness of high-performance coatings with an accuracy down to the sub-micron level to verify uniformity and locate subsurface defects
- Inspecting parts and panel alignment

Pharmaceuticals

- Checking the conformity of active ingredients produced using THz-TDS
- Verifying the integrity of film that protects pills



Agri-food

- Verifying the integrity of plastic film used to seal certain packages to protect food from contamination
- Analysing the shelf life of foods



Construction

- Inspecting seals
- Detecting cavities below surfaces



Motor vehicles

- Measuring the thickness of the very thin layers of paint applied (10 to 100 microns)
- Analysing paint drying time



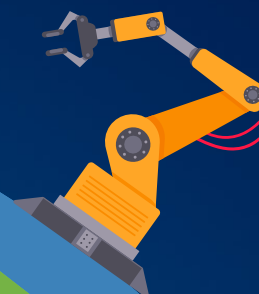
Aerospace

- Detecting potential defects in re-entry vehicle foam insulation.



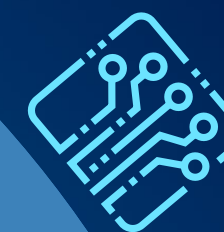
Manufacturing

- Detecting defects in plastic parts during the manufacturing process
- Verifying the positioning of parts in an assembly or a package
- Checking the thickness of a composite material's various layers



Electronics

- Inspecting printed circuits
- Verifying the positioning of an electronic chip located underneath an opaque non-metallic surface



Marine

- Detecting corrosion forming under paint while performing preventive maintenance.

