



Unrestricted Innovation
Globally Trusted Partnerships

Terahertz-Enabled Aviation



Intelligent Coating Inspection and Analysis Platform for Aircraft



NEW

Tera X¹

A portable THz system enables fast, non-contact measurement of coating thickness and early detection of hidden defects in multilayer structures.

By integrating machine learning algorithms, the system automatically interprets complex THz signals, improving accuracy in thickness extraction and defect classification.

This **AI**-assisted approach transforms traditional inspection into an intelligent, on-site diagnostic tool that delivers reliable decisions in real time.

SINGAPORE STARTERA TECHNOLOGY PTE. LTD.

Web: www.startera.sg

Tel: +65 98301697

Email: Wangguangpeng@startera.sg

THz-for-life@startera.sg



Unrestricted Innovation
Globally Trusted Partnerships

Terahertz-Enabled Aviation



Intelligent Coating Inspection and Analysis Platform for Aircraft



A robotic arm carrying a THz sensing head enables precise, repeatable, and flexible scanning of complex targets. Combined with **AI** algorithms, the system can automatically identify hidden defects, material changes, and early-stage anomalies from THz data.

This creates an intelligent inspection platform that not only “**sees**” beyond the surface, but also “**thinks**” — learning from data to improve detection accuracy and decision-making over time.

SINGAPORE STARTERA TECHNOLOGY PTE. LTD.

Web: www.startera.sg

Tel: +65 98301697

Email: Wangguangpeng@startera.sg

THz-for-life@startera.sg