

AIRPORT RUNWAY INSPECTION

Inspecting Runway Safety with 6D Road Scanning

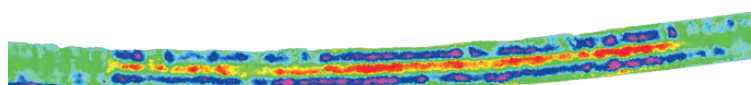


An advanced, fully integrated vehicle inspection solution combining certified true solid-state lidar, HD-camera, and RTK-GNSS technologies to perform precise runway inspections. Designed for 24/7 operations, it delivers ICAO-compliant pavement measurements and data-driven, actionable reporting.

Airports carry out regular runway inspections to identify debris, surface damage, markings condition, runway ground lighting issues, macrotexture, and other surface characteristics.

XenomatiX supports a wide range of critical applications with 6D Road Scanning technology:

- Crack Detection
- Surface Distress Assessment
- Drainage Analysis
- Pothole Detection
- Light Protrusion Detection
- Macrotexture Measurement
- Wet-Slippage Analysis

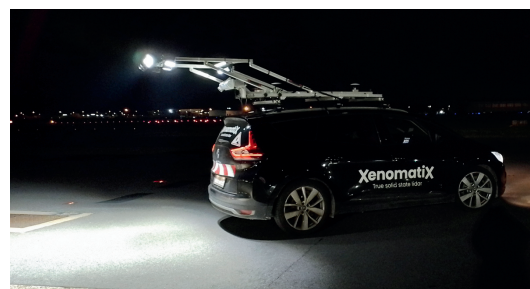


The 6D Road Scanning system detects and positions even the smallest objects on the pavement. **Pavement Condition Index (PCI) is measured on asphalt and concrete pavements and protruding objects are detected and georeferenced, day and night.**

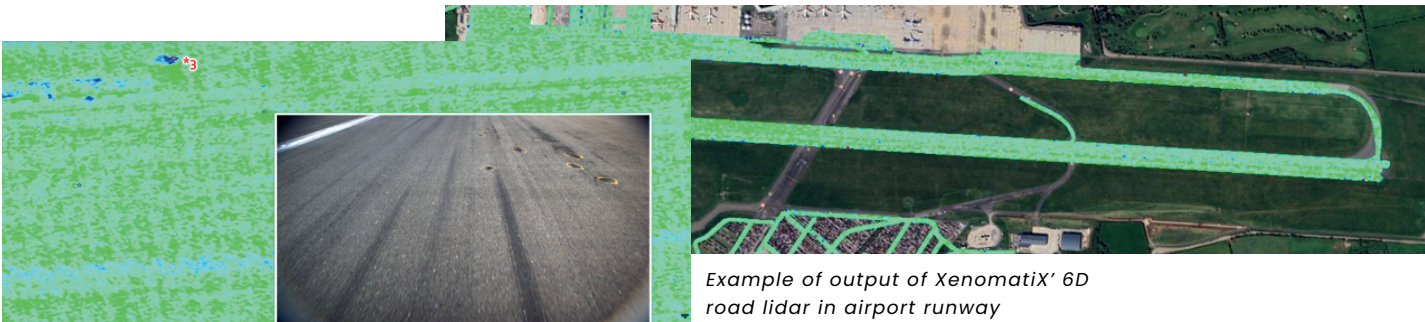
How it works?

XenoTrack transforms any vehicle into a **high-precision surface data collection platform in just 45 minutes**. Capturing detailed surface data at speeds of up to 90 km/h – day and night – XenoTrack enables efficient, continuous data collection across airport environments while keeping operations moving.

Captured data are **processed fast**, generating a fully actionable inspection report available in PDF and Excel formats – allowing maintenance decisions to be implemented immediately.



Left picture: Measurements taken at a major UK Airport



Example of output of XenomatiX' 6D road lidar in airport runway

KEY FEATURES

- Automated, accurate, repeatable PCI
- Individual crack detection/positioning
- Minimal disruption – fast & easy
- 24/7 operation – day and night
- Millimeter-level accuracy
- Actionable reports
- Transportable by airplane
- Certified system



90 km/h
speed data
capture



24/7 day &
night
operation



45 minutes
vehicle
installation



Accurate
Pavement
Condition Index

Interested?

With XenomatiX, airports have flexible options: purchase a complete vehicle inspection with certified equipment to perform inspections in-house, or rely on our expert team to carry out the measurements and deliver ICAO-compliant reports.



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