

PRODUCT

GRIDSCAN 3.8 — Product Brochure

Corridor inspection capability for power, rail and pipeline, with defect class listing.

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This document is fictional and forms part of a training environment.

Terravek GRIDSCAN

Corridor inspection without the helicopter bill.

A utility with 14,000 km of overhead line cannot walk it. GRIDSCAN turns corridor inspection into a scheduled data product: fly or task the corridor, and receive a ranked list of clearance breaches, leaning structures, missing hardware and encroaching vegetation with a confidence score and a location accurate to better than 15 cm.

The vegetation model predicts growth forward as well as measuring it now, so a maintenance team can be dispatched to the spans that will breach clearance in eleven weeks rather than the spans that breached last month.

For rail, GRIDSCAN adds cess vegetation, structure gauge intrusion and earthworks movement, developed with the Cardinal Grid team in Bristol and assured to CSM-RA.

Capabilities

Capability	Detail
Clearance analysis	Conductor-to-vegetation and conductor-to-ground distances against your own clearance standard.
Growth forecasting	Species-aware growth models project breach dates 6–36 months forward.
Structure condition	Detects lean, missing insulator caps, damaged cross-arms and bird nesting.
Third-party interference	Flags new excavation, stockpiling and structures within the easement.
Defect exchange	Open GRIDSCAN schemas export directly into common asset management systems.
Rail module	Cess vegetation, structure gauge and earthworks movement, CSM-RA assured.

Editions

Edition	Description
GRIDSCAN Power	Transmission and distribution overhead line corridors.
GRIDSCAN Rail	Rail corridors, including cess and earthworks. UK/IE assurance package available.
GRIDSCAN Pipeline	Buried and above-ground pipeline easements, including encroachment and subsidence.

Specifications

Specification	Value
Positional accuracy	≤ 0.15 m horizontal, ≤ 0.20 m vertical (LiDAR source)
Minimum detectable clearance change	0.25 m
Corridor throughput	Up to 3,000 km per delivery cycle
Defect classes	38 (power), 22 (rail), 17 (pipeline)
Export formats	GRIDSCAN JSON Schema, Esri File Geodatabase, GeoPackage, CSV
Typical cycle	Quarterly, or annual with storm-triggered re-tasking

Stated limitations

Terravek states product limitations in the brochure rather than in a footnote during procurement. The sales cycle is eleven months and the truth surfaces anyway.

- Growth forecasting requires at least two prior survey cycles before predictions are issued.
- Conductor detection under dense evergreen canopy degrades; those spans are flagged as low-confidence rather than reported as clear.
- The rail assurance package is currently scoped to UK and Irish infrastructure managers only.

How to buy

Sales	sales@terravek.com · +31 15 251 8400
Partners	partners@terravek.com — see terravek.com/partners/
Documentation	https://docs.terravek.com/gridscan/3.8/
Support	support@terravek.com · service levels at terravek.com/services/support.html
Evaluate free	ATLAS Sandbox tier — atlas.terravek.com , no commercial conversation required